



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706 • (208) 373-0502

C.L. "Butch" Otter, Governor
Toni Hardesty, Director

September 22, 2011

Mark Warner, Vice President & General Manager
MotivePower, Inc.
4600 Apple Street
Boise, Idaho 83716

RE: Facility ID No. 001-00107, MotivePower, Inc., Boise
Final Permit Letter

Dear Mr. Warner:

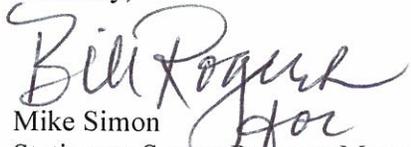
The Department of Environmental Quality (DEQ) is issuing Permit to Construct (PTC) No. P-2009.0097 Project 60898 to MotivePower, Inc. located in Boise for the revision of solids content calculation method to a weighted average and relocation of a bead blasting unit. This PTC is issued in accordance with IDAPA 58.01.01.200 through 228 (Rules for the Control of Air Pollution in Idaho) and is based on the certified information provided in your PTC application received July 14, 2011.

This permit is effective immediately and replaces PTC No. P-2009.0097, Project 60552, issued on November 11, 2010. This permit does not release MotivePower, Inc. from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

In order to fully understand the compliance requirements of this permit, DEQ highly recommends that you schedule a meeting with Thomas Krinke, Air Quality Compliance Officer, at (208) 373-0419 to review and discuss the terms and conditions of this permit. Should you choose to schedule this meeting, DEQ recommends that the following representatives attend the meeting: your facility's plant manager, responsible official, environmental contact, and any other staff responsible for day-to-day compliance with permit conditions.

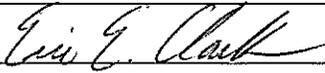
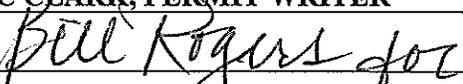
Pursuant to IDAPA 58.01.23, you, as well as any other entity, may have the right to appeal this final agency action within 35 days of the date of this decision. However, prior to filing a petition for a contested case, I encourage you to contact Eric Clark at (208) 373-0502 or Eric.Clark@deq.idaho.gov to address any questions or concerns you may have with the enclosed permit.

Sincerely,


Mike Simon
Stationary Source Program Manager
Air Quality Division

MS\EC

Permit No. P-2009.0097 PROJ 60898

Air Quality PERMIT TO CONSTRUCT State of Idaho Department of Environmental Quality	PERMIT NUMBER	CLASS	SIC
	P-2009.0097	SM80	3743
	FACILITY ID	AQCR	NAICS
	001-00107	64	33651
	ZONE	UTM COORDINATES (km)	
11	567.1	4823.1	
PERMITTEE			
Motive Power, Inc.			
PROJECT			
Project No. 60898 Permit to Construct Revision			
MAILING ADDRESS	CITY	STATE	ZIP
4600 Apple Street	Boise	ID	83716
FACILITY CONTACT	TITLE	TELEPHONE	
Art Anderson	EH&S Manager	(208) 947-4821	
RESPONSIBLE	TITLE	TELEPHONE	
Mark Warner	Vice President & General Manager	(208) 947-4800	
EXACT PLANT LOCATION		COUNTY	
4600 Apple Street, Boise, Idaho 83716 (Main Plant) and 2100 Braniff Street (Truck and Engine Annex), Boise, Idaho		Ada	
GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS			
Manufactures and remanufactures of diesel electric locomotives and locomotive components			
PERMIT AUTHORITY			
<p>This permit is issued according to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200 through 228, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be constructed or modified by this permit.</p> <p>This permit (a) does not affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment; (c) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; (d) in no manner implies or suggests that the Department of Environmental Quality (DEQ) or its officers, agents, or employees, assume any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment.</p> <p>This permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.</p> <p>This permit has been granted on the basis of design information presented with its application. Changes in design, equipment or operations may be considered a modification. Modifications are subject to DEQ review in accordance with IDAPA 58.01.01.200 through 228 of the Rules for the Control of Air Pollution in Idaho.</p>			
		DATE ISSUED	September 22, 2011
ERIC CLARK, PERMIT WRITER			
			
MIKE SIMON, STATIONARY SOURCE MANAGER			

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 POLLUTANTS: PAINT STRIPPING AND MISCELLANEOUS SURFACE COATING
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PERMIT TO CONSTRUCT SCOPE

Purpose

1. This is a revised permit to construct to update the method in which the solids content limit of 8.16 lb/gal is calculated. Rather than having an absolute maximum, a weighted average is now used to allow for more flexibility of paint use. The overall limit remains unchanged. Additionally, the location of the bead blasting enclosure is being changed. The new location is adjacent to the SWBP blast booth. Emissions will actually decrease from this change as the emissions will now discharge to the SWBP blast booth's filter bank control device.
2. Those permit conditions that have been modified or revised by this permitting action are identified by a date citation located directly under the permit condition and on the right hand margin.
3. This PTC replaces Permit to Construct No. P-2009.0097, Project 60552, issued on November 11, 2010.
4. The emission sources regulated by this permit are listed in the following table.

Table 1 REGULATED SOURCES

Source Descriptions	Emission Controls
<u>FACILITY-WIDE CONDITIONS</u>	As listed.
<u>SOUTH LARGE PAINT SHOP</u> , <i>Apple Street</i> The shop contains two spray paint booths Nos. 1&2	The PM ₁₀ emissions are controlled by a bank of filters having a control efficiency of 99.58%.
<u>NORTH LARGE PAINT SHOP</u> , <i>Apple Street</i> The shop contains two spray paint booths (Booths Nos. 3&4)	The PM ₁₀ emissions are controlled by bank filters having a control efficiency of 99.58%.
<u>STRIP-WASH-BLAST-PAINTING BUILDING</u> , <i>Apple Street</i> This building contains one booth (Booth No. 5) that is designed so that either painting or blasting can occur at any one time – never simultaneously.	Blast booth pulse-jet dust collector system designed by Hoffman/Torit, Model: HOFT4-64; PM/PM ₁₀ emissions are controlled with an efficiency of 99.9%. Paint-arrestor filters system designed by OSM. The PM ₁₀ emissions are controlled with an efficiency of 99.58%.
<u>SMALL PAINT SHOP</u> , <i>Apple Street</i> The shop contains one paint booth (Booth No. 6)	The PM ₁₀ is controlled by a bank of filters with an efficiency of 99.58%.
<u>SPRAY PAINT BOOTH, TEA</u> The shop contains one paint booth (Booth No. 7). The spray paint booth is a Protectaire Model 530 DTT.	The PM ₁₀ emissions are controlled by a bank of filters with an efficiency of 99.58%.
<u>EAST PAINT SHOP BUILDING</u> , <i>Apple Street</i> The shop contains two spray paint booths (Booths Nos. 8&9).	The PM ₁₀ emissions are controlled by two banks of filters with efficiency of 99.58%.
<u>BEAD-BLAST ENCLOSURES (2 Units)</u> , <i>Apple Street</i> Enclosures consist of two units: Component Shop Unit (moved adjacent to SWBP shop) and Locomotive Shop Unit.	The PM ₁₀ emissions are controlled by a baghouse with efficiency of 98%. SWBP also routes all particulates to pulse-jet dust collector system.
<u>BEAD-BLAST ENCLOSURES (2 Units)</u> , <i>TEA</i> Enclosures consist of two blasting units – a Cycloblast Model 4836-DC100; and Pangorn-S3.	The PM ₁₀ emissions are controlled by a baghouse with efficiency of 98% and SWBP filter bank.
<u>SHOT-BLAST BOOTH</u> , <i>TEA</i> The shot blast booth is a Hoffman Schmidt/Abrasive Steel Shotblaster.	The PM ₁₀ emissions are controlled by a Torit Model HDFT2-16, Downflow Cartridge Dust Collector with efficiency of 99%.
<u>COMPRESSOR TEST STAND ENGINE</u> , <i>TEA</i> <i>100B</i> The compressor is powered by a <i>Perfex</i> , Model 45E-68, diesel-fired internal combustion engine	None
<u>LOCOMOTIVE ENGINE TEST CELL</u> , <i>TEA</i>	None
<u>NATURAL GAS-FIRED BOILERS</u> , <i>Apple Street</i> Seller No. 1 boiler – Model: 105-E, steam boiler; rated heat input of 6.7 MMBtu/hr. Seller No. 2 boiler – Model: 105-E, steam boiler; rated heat input of 6.7 MMBtu/hr.	None
<u>NATURAL GAS-FIRED EMERGENCY GENERATOR</u> Manufactured in September 2009 by Kohler Power Systems with model No. 45REZG. The natural gas-fired emergency generator is rated at 75 HP at maximum load.	None
<u>THE FIRE PUMP</u> , <i>Apple Street</i> 143 HP diesel-fired internal combustion engine	None

FACILITY WIDE EMISSIONS

Fugitive Emissions

5. All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with IDAPA 58.01.01.650-651. In determining what is reasonable, considerations will be given to factors such as the proximity of dust-emitting operations to human habitations and/or activities and atmospheric conditions that might affect the movement of particulate matter. Some of the reasonable precautions include, but are not limited to, the following:
 - Use, where practical, 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 lands.
 - Application, where practical, of asphalt, oil, water, or suitable chemicals to, or covering of, dirt roads, material stockpiles, and other surfaces which can create dust.
 - Installation and use, where practical, of hoods, fans, and fabric filters or equivalent systems to enclose and vent the handling of dusty materials. Adequate containment methods should be employed during sandblasting or other operations.
 - Covering, where practical, of open-bodied trucks transporting materials likely to give rise to airborne dusts.
 - Paving of roadways and their maintenance in a clean condition, where practical.
 - Prompt removal of earth or other stored material from streets, where practical.
6. The permittee shall monitor and maintain records of the frequency and the method(s) used (i.e., water, chemical dust suppressants, etc.) to reasonably control fugitive emissions.
7. The permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall include, at a minimum, the date that each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.
8. The permittee shall conduct a monthly facility-wide inspection of potential sources of fugitive emissions, during daylight hours and under normal operating conditions to ensure that the methods used to reasonably control fugitive emissions are effective. If fugitive emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each fugitive emissions inspection. The records shall include, at a minimum, the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (If observed), any corrective action taken in response to the fugitive emissions, and the date the corrective action was taken.
9. Fugitive emissions shall not be observed leaving the property for a period or periods aggregating more than three minutes in any 60-minute period. Visible emissions shall be determined by EPA Reference Method 22, as described in 40 CFR 60, Appendix A, or by an alternative method approved by DEQ.

Odors

10. The permittee shall not allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.

11. The permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall include, at a minimum, the date that each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.

Visible Emissions

12. The permittee shall not discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas is the only reason for the failure of the emission to comply with the requirements of this section.
13. The permittee shall conduct a monthly facility-wide inspection of potential sources of visible emissions, during daylight hours and under normal operating conditions. The visible emissions inspection shall consist of a see/no see evaluation for each potential source. If any visible emissions are present from any point of emission, the permittee shall either take appropriate corrective action as expeditiously as practicable, or perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20% for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in accordance with IDAPA 58.01.01.130-136. The permittee shall maintain records of the results of each visible emissions inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

Open Burning

14. The permittee shall comply with the requirements of the Rules for Control of Open Burning, IDAPA 58.01.01.600-623.

Reports & Certifications

15. Any reporting required by this permit, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, notifications of intent to test, testing reports, or compliance certifications, shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete. Any reporting required by this permit shall be submitted to the following address:

Air Quality Permit Compliance
Department of Environmental Quality
Air Quality Manager
Boise Regional Office
1445 N. Orchard
Boise, ID 83706-2239
Phone: (208) 373-0550
Fax: (208) 373-0287

Fuel-burning Equipment

16. The permittee shall not discharge to the atmosphere from any fuel-burning equipment PM in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gas, 0.050 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid.

Sulfur Content

17. The permittee shall not sell, distribute, use, or make available for use any distillate fuel oil containing more than the following percentages of sulfur:
- ASTM Grade 1 fuel oil - 0.3% by weight.
 - ASTM Grade 2 fuel oil - 0.5% by weight.
 - ASTM Grades 4, 5 and 6 fuel oil - 1.75% by weight.
18. The permittee shall maintain documentation of supplier verification of distillate fuel oil sulfur content on an as-received basis.

[February 26, 2010]

Air Stagnation Advisory Days

19. The permittee shall comply with the Air Pollution Emergency Rules in IDAPA 58.01.01.550-562.

Allowable Fuels

20. The following sources at the MPI-Apple Street and TEA sites shall burn natural gas exclusively: locomotive shop steam cleaner, component shop furnace, TEA Proceco parts washer, Maxom Tube-O-Therm evaporator, the Strip-Wash-Blast-Painting (SWBP) building heater, North Large Paint Shop heaters, and the East Paint Shop Building heaters.

[February 26, 2010]

Facility-Wide HAPs, VOC, NO_x, and Paint Throughput Limits and Monitoring

21. HAPs and VOC Emission Limits

- Emissions of any single Hazardous Air Pollutant (HAP) from the entire facility (MPI Apple Street and TEA) shall be less than 10 tons per any consecutive 12-month period.
- Emissions of any combination of HAPs from the entire facility (MPI Apple Street and TEA) shall be less than 25 tons per any consecutive 12-month period.
- The VOC emissions from the painting operations at the entire facility (MPI Apple Street and TEA) shall not exceed 54.5 tons per any consecutive 12-month period.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and recordkeeping requirements.

[February 26, 2010]

22. Paint Throughput Limit

The maximum throughput of paint products (i.e., surface coatings, thinners, solvents, and cleaning materials) used at the entire facility shall not exceed 26,650 gallons per any consecutive 12-month period.

For 1,6 - hexamethylene diisocyanate:

- The maximum amount of MSDS 1828 paint product shall not exceed 22 gallons per day per paint shop. The content of 1,6-hexamethylene diisocyanate in MSDS 1828 shall be 0.08625 lbs/gal or less.
- The maximum amount of MSDS 966 paint product shall not exceed 2 gallons per day per paint shop. The content of 1,6-hexamethylene diisocyanate in MSDS 966 shall be 0.01870 lbs/gal or less.

- The maximum amount of MSDS 1769 paint product shall not exceed 22 gallons per day per paint shop. The content of 1,6-hexamethylene diisocyanate in MSDS 1769 shall be 0.01870 lbs/gal or less.
- The maximum amount of MSDS 3001 paint product shall not exceed 15 gallons per day per paint shop. The content of 1,6-hexamethylene diisocyanate in MSDS 3001 shall be 0.01820 lbs/gal or less.

Paint shop means South Large Paint Shop, North Large Paint Shop, or Small Paint Shop.

[February 26, 2010]

23. Required Paint Product Monitoring Information

The permittee shall monitor and record the following information for each and every paint product (i.e., surface coatings, thinners, solvents, and cleaning materials) used at the entire facility. Record of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

- The paint product name and manufacturer
- The Material Safety Data Sheet (MSDS) for all paint products used at the facility.

In instances where a modification is made to the MSDS, or the information in the MSDS is insufficient for a paint product, a copy of information provided by materials suppliers or manufacturers for the change, such as manufacturer's formulation data, or test data used to determine the quantity of VOCs, organic HAP, and density for the paint product shall be kept on site as well.

- The density of all paint products in pounds per gallon (lb/gal).
- The HAPs and VOC content, in percent by weight (wt %); or the HAPs and VOC content mass fraction, in pounds of HAPs per pound of paint (lb HAPs/lb paint) and pounds of VOC per pound of paint (lb VOC/lb paint).
- The solid and TAP contents in pounds per gallon as specified in the permit condition titled Solid and TAP Content in Paint Products.
- The paint product throughput each month and each year, in gallons per month and gallons per any consecutive 12-month period to demonstrate compliance with the Paint Throughput Limit Permit Condition.

24. HAPs and VOC Emissions Monitoring

Using the information monitored and recorded in the Paint Product Monitoring Information Permit Condition, the permittee shall calculate monthly and annually, all single HAPs, the total HAPs, and the total VOC emissions from the painting operations at the entire facility to demonstrate compliance with the HAPs and VOC Emission Limits Permit Condition. Annual emissions shall be determined by summing monthly emissions over the previous consecutive 12-month period. Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

Each month, the permittee shall calculate the HAPs and VOC emissions from the painting operations at the entire facility using the following calculation method or DEQ approved alternative method:

$$\text{Monthly HAPs and VOC emissions rate} = \sum G_i \times W_i \times \text{HAP}_i \text{ (or VOC}_i \text{) content}$$

Where,

Annual HAP(s) and VOC emissions rate = sum of the monthly HAP(s) and VOC emissions rate over the previous consecutive 12-month period.

G_i : For each paint product, the paint product throughput for the previous month, in gallons per month

W_i : For each paint product, the density of the paint product G_i , in lb/gal

HAP_{*i*} and VOC_{*i*} content: For each paint product, the HAP and VOC content of paint product G_i , in percent by weight HAP(s) and VOC as indicated in the MSDS provided by the painting manufacturer; or the HAP and VOC content of paint product G_i , in lb HAP/lb or lb VOC/lb of paint product as indicated in the MSDS provided by the paint product manufacturer. When a HAP or VOC content range provided in the MSDS, use the higher value of the range.

In any month where the annual emissions of any single HAP from the entire facility (MPI Apple Street and TEA) exceed 9 T/yr based on rolling 12-month, the permittee shall provide the name of the HAP, its emissions rate, and the related monitoring records to DEQ of the month.

[February 26, 2010]

25. NO_x Emission Limits

The oxides of nitrogen (NO_x) emissions from all combustion sources at the entire facility (MPI Apple Street and TEA) shall not exceed 54.75 tons per any consecutive 12-month period. The combustion sources at the facility shall include, but not limited to, compressor test stand engine, locomotive engine test cell, natural gas combustion sources, natural gas-fired emergency generator, diesel-fired fire pump, and liquefied petroleum gas heaters.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

26. Combustion Fuel Throughput

The maximum amount of natural gas fuel combusted at the entire facility shall not exceed 124.7 million cubic feet (MM ft³) per any consecutive 12-month period.

[February 26, 2010]

27. Natural Gas Fuel Meter

The permittee shall install, calibrate, maintain, and operate natural gas flow meters to measure the amount of natural gas combusted at the MPI Apple Street and at the TEA facilities.

[November 11, 2010]

28. Natural Gas Fuel Usage Monitoring

The permittee shall monitor and record the amount of natural gas combusted monthly and annually to demonstrate compliance with the Combustion Fuel Throughput Permit Condition. The amount of natural gas combusted shall be recorded in units of million cubic feet. Each month's amount of natural gas combusted shall be summed over the previous consecutive 12-month period.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[February 26, 2010]

29. Solid and TAP Content in Paint Products

The permittee shall only use a paint product meeting all of the following criteria:

- Except for MSDS 1828, MSDS 966, MSDS 1769, and MSDS 3001 paint products, the content of 1,6-hexamethylene diisocyanate of any paint product shall not exceed 0.01804 lb/gal and a daily maximum usage of 14 gallons.
- The TAP content of a paint product in lb/gal will be calculated by multiplying the paint density (lb/gal) and TAP content in weight percentage (wt%).
- The solid content of a paint product in lb/gal will be calculated by multiplying the paint density (lb/gal) and the solid content in weight percentage (wt%).
- The Daily Weighted Average solids content shall be calculated using the following equation:

$$\frac{[(Usage\ A\ (gal) * Solid\ Content\ A) + (Usage\ B\ (gal) * Solid\ Content\ B) + \dots (Usage\ n\ (gal) + Solid\ content\ n)]}{[Usage\ A + Usage\ B + \dots Usage\ n]}$$

Table 2 THROUGHPUT LIMITS FOR ALL PAINT SHOPS

Paint Shop	Booth	Daily Throughput Limit Originally Permitted
		gal/day
South Large Paint Shop	Booth 1	46
South Large Paint Shop	Booth 2	
North Large Paint Shop	Booth 3	46
North Large Paint Shop	Booth 4	
SWBP	Booth 5	25
Small Paint Shop	Booth 6	46

Table 3 PERMITTED HAPS

1,6-Hexamethylene Diisocyanate	Naphthalene
Acetaldehyde	Styrene
Acrolein	Toluene
Benz(a)anthracene	Xylene
Benzene	Arsenic
Benzo(b)fluoranthene	Beryllium
Benzo(k)fluoranthene	Cadmium
Bis(2-ethylhexyl)phthalate (DEHP)	Chromium ³⁺
Chrysene	Cobalt
Dibenz(a,h)anthracene	Manganese
Ethyl benzene	Mercury
Formaldehyde	Nickel
Hexane	Selenium
Indeno(1,2,3-cd)pyrene	Lead
Methanol	

Table 4 PERMITTED TAPS AND CONTENTS IN PAINT PRODUCTS

Toxic Air Pollutant	Worst-Case TAP Content (lb/gal)	Toxic Air Pollutant	Worst-Case TAP Content (lb/gal)
1,2,4-Trimethyl benzene	2.48	Methyl propyl ketone	1.75
1,6-Hexamethylene Diisocyanate ^a	--	Naphthalene	0.02
1-Methoxy-2-propyl acetate	7.66	n-Butyl glycidyl ether	0.66
2-Butoxyethanol	1.04	Petroleum distillate	2.04
Acetone	2.68	Petroleum distillate	1.53
Butyl acetate	7.02	Propylene glycol monomethyl ether acetate	5.04
Butyl alcohol	3.09	Styrene	0.04
Diisobutyl ketone	1.80	Toluene	3.97
Dipropylene glycol methyl ether	0.44	Xylene	6.01
Ethyl acetate	1.63	Aluminum	0.80
Ethyl Alcohol	0.09	Amorphous silica	0.25
Ethyl benzene	1.42	Calcium carbonate	4.31
Ethylene Glycol Monobutyl Ether	1.47	Carbon black	1.34
Heptane	0.34	Cristobalite	0.60
Hexane	0.46	Iron Oxide	0.54
Isobutyl acetate	2.43	Kaolin	1.82
Isophorone diisocyanate	0.08	Magnesium Carbonate	0.61
Isopropyl alcohol	2.68	Manganese Compounds	2.13
Methanol	0.87	Mica	2.83
Methoxypropanol	3.45	Quartz-crystalline silica	3.36
Methyl acetate	0.78	Zinc Compounds	0.34
Methyl amyl ketone	7.66	Zinc Oxide	1.39
Methyl ethyl ketone	6.75	Ethylene Glycol Monobutyl Ether Acetate	1.34
Bis(2-ethylhexyl)phthalate (DEHP)	0.46	Benzene	0.01

a. 1,6 Hexamethylene Diisocyanate has specific limits and daily maximum usage rates for four MSDS. These limits can be found in Permit Condition 22. All other paint products containing 1,6 Hexamethylene Diisocyanate are limited to the first bullet in Permit Condition 29.

Table 5 PERMITTED TAPS AND CONTENTS IN PAINT PRODUCTS

Toxic Air Pollutant	Second Worst-Case TAP Content (lb/gal)
1,2,4-Trimethyl benzene	1.58
1,6-Hexamethylene Diisocyanate ^a	--
1-Methoxy-2-propyl acetate	4.62
Isophorone Diisocyanate	0.05
Methyl Amyl Ketone	3.30
Propylene Glycol Monomethyl Ether Acetate	4.62
Xylene	5.63

a. 1,6 Hexamethylene Diisocyanate has specific limits and daily maximum usage rates for four MSDS. These limits can be found in Permit Condition 22. All other paint products containing 1,6 Hexamethylene Diisocyanate are limited to the first bullet in Permit Condition 29.

[September 22, 2011]

30. New Paint Product with Permitted TAPs (Scenario C)

A new paint product qualifies as Scenario C if all of the following is true:

- All TAPs from new paint product is permitted as stated in Table 4
- All constituents have a TAP content less than the Worst Case value as defined in Table 4.
- The maximum allowable (gal/day) for any one paint product per Paint Shop is never actually reached.
 - Less than 46 gal/day for the North, South, Small and East Paint Shops
 - Less than 25 gal/day for the SWBP Paint Shop
 - Less than 20 gal/day for the Spray Paint Shop

If the new paint product qualifies under Scenario C, the new paint product shall be logged, a record of the TAP content calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

31. New Paint Product with Permitted TAPs (Scenario D)

A new paint product qualifies as Scenario D if all of the following is true:

- All TAPs from new paint product is permitted as stated in Table 4
- All constituents have a TAP content less than the Worst Case value as defined in Table 4.
- The maximum allowable (gal/day) for any one paint product per Paint Shop is reached.
 - 46 gal/day for the North, South, Small and East Paint Shops
 - 25 gal/day for the SWBP Paint Shop
 - 20 gal/day for the Spray Paint Shop
- Use of a second paint product containing a TAP identified in Table 5. The second Worst Case TAP content shall be the limit for the remaining allowable gal/day.
 - 29 gal/day total for all remaining paint products for North, South, Small Paint Shops
 - 25 gal/day total for all remaining paint products for SWBP Paint Shop
- If the second paint product does not contain a TAP identified in Table 5, the Worst Case TAP content (Table 4) shall be the limit for the remaining allowable gal/day.

If the new paint product qualifies under Scenario D, the new paint product shall be logged, a record of the TAP content calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

32. New Paint Products Containing Permitted TAPs (Scenario E)

A new paint product qualifies as Scenario E if all of the following is true:

- All TAPs from new paint product is permitted as stated in Table 4
- One or more constituents have a TAP content that **exceed** the Worst Case value as defined in Table 4.
- Determine the appropriate daily usage limit according to the following equation:

For South Large Paint Shop – Booths 1 & 2

For North Large Paint Shop – Booths 3 & 4

For Small Paint Shop – Booth 6

For East Paint Shop – Booths 8 & 9

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 46 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

For SWBP – Booth 5

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 25 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

For Spray Paint Booth – Booth 7

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 20 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

- The actual usage rate never reaches the newly calculated maximum allowable for any one paint product per Paint Shop gal/day.

If the new paint product qualifies under Scenario E, the new paint product shall be logged, a record of the TAP content calculation shall be maintained, a newly daily maximum gal/day calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

33. New Paint Products Containing Permitted TAPs (Scenario F)

A new paint product qualifies as Scenario F if all of the following is true:

- All TAPs from new paint product is permitted as stated in Table 4
- One or more constituents have a TAP content that **exceed** the Worst Case value as defined in Table 4.
- Determine the appropriate daily usage limit according to the following equation:

For South Large Paint Shop – Booths 1 & 2

For North Large Paint Shop – Booths 3 & 4

For Small Paint Shop – Booth 6

For East Paint Shop – Booths 8 & 9

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 46 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

For SWBP – Booth 5

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 25 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

For Spray Paint Booth – Booth 7

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 20 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

TAP Content New Paint (lb/gal)

- The actual usage rate reaches the newly calculated maximum allowable for any one paint product per Paint Shop gal/day.
- Use of a second paint product containing a TAP identified in Table 5. The second Worst Case TAP content shall be the limit for the remaining allowable gal/day.
 - 29 gal/day total for all remaining paint products for North, South, Small Paint Shops
 - 25 gal/day total for all remaining paint products for SWBP Paint Shop
- If the second paint product does not contain a TAP identified in Table 5, the Worst Case TAP content (Table 4) shall be the limit for the remaining allowable gal/day.

If the new paint product qualifies under Scenario F, the new paint product shall be logged, a record of the TAP content calculation shall be maintained, a newly daily maximum gal/day calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

34. New Paint Products Containing New Non-Carcinogenic TAPs Usage (Scenario G)

A new paint product qualifies as Scenario G if all of the following is true

- A new Non-Carcinogenic TAP (not in Table 4) is included in a new paint product.
- Determine the facility-wide contribution and compare to the Screening Emission Level (EL) in IDAPA 58.01.01.585 using the following equation:

For South Large Paint Shop – Booths 1 & 2

For North Large Paint Shop – Booths 3 & 4

For Small Paint Shop – Booth 6

For East Paint Shop – Booths 8 & 9

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 46 \text{ gallons per day}}{100} / 24 \text{ hrs} = \text{TAP lb/hr}$$

For SWBP – Booth 5

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 25 \text{ gallons per day}}{100} / 24 \text{ hrs} = \text{TAP lb/hr}$$

For Spray Paint Booth – Booth 7

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 20 \text{ gallons per day}}{100} / 24 \text{ hrs} = \text{TAP lb/hr}$$

North + South + Small + SWBP + Spray + East (when constructed) = Total lb/hr

Total lb/hr shall be compared to 585 EL in IDAPA 58.01.01.585.

- If the facility-wide emissions of the new TAP are below the EL then its use is allowed.
- If the facility-wide emissions of the new TAP are above the EL then the permittee must perform one of the following actions in order to use a paint product that contains the new TAP.
 - Perform an exemption determination in accordance with IDAPA 58.01.01.223 and submit the results to DEQ for concurrence. This determination would include a modeling demonstration.
 - Submit an application for a permit modification to include the new TAP.

If the new paint product qualifies under Scenario G, the new paint product shall be logged, a record of the TAP content calculation shall be maintained, facility-wide lb/hr calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

35. New Paint Products Containing New Carcinogenic TAPs Usage (Scenario G)

A new paint product qualifies as Scenario G if all of the following is true

- A new Carcinogenic TAP (not in Table 4) is included in a new paint product.
- Determine the facility-wide contribution and compare it to the Screening Emission Level (EL) in IDAPA 58.01.01.586 using the following equation:

For North & South Large Paint Shop – Booths 1-4

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 16,000 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

For SWBP – Booth 5

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 10,500 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

For Small Paint Shop – Booth 6

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 5,000 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

For Spray Paint Booth – Booth 7

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 3,000 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

For East Paint Shop – Booths 8 & 9

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 5,850 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

North + South + Small + SWBP + Spray + East (when constructed) = Total lb/hr

Total lb/hr shall be compared to 586 EL in IDAPA 58.01.01.586.

- If the facility-wide emissions of the new TAP are below the EL then its use is allowed.
- If the facility-wide emissions of the new TAP are above the EL then the permittee must perform one of the following actions in order to use a paint product that contains the new TAP.
 - Perform an exemption determination in accordance with IDAPA 58.01.01.223 and submit the results to DEQ for concurrence. This determination would include a modeling demonstration.
 - Submit an application for a permit modification to include the new TAP.

If the new paint product qualifies under Scenario G, the new paint product shall be logged, a record of the TAP content calculation shall be maintained, facility-wide lb/hr calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

36. New Paint Products Recordkeeping & Reporting

If a new paint product is added to the paint inventory, the permittee shall also maintain a record of the scenario(s) under which the new paint qualifies. These records shall be maintained daily.

[November 11, 2010]

40 CFR 63 SUBPART HHHHHH—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: PAINT STRIPPING AND MISCELLANEOUS SURFACE COATING OPERATIONS AT AREA SOURCES

37. 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Surface Coating Operations, General Compliance Requirements

Unless an exemption from the EPA has been granted to this facility in accordance with 40 CFR 63.11170 (a)(2), in accordance with 40 CFR 63.11172(a)(2), on and after January 10, 2011 the permittee shall comply with the applicable emission limitations and requirements of the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH.

- The permittee shall meet the requirements of 40 CFR 63.11173(e)(1). All painters must be certified that they have completed training in the proper spray application of surface coatings and the proper setup and maintenance of spray equipment. The minimum requirements for training and certification are described in 40 CFR 63.11173(f). The spray application of surface coatings is prohibited by persons who are not certified as having completed the training described in 40 CFR 63.11173(f).
- All spray-applied coatings must be applied in a spray booth, preparation station, or mobile enclosure that meets the requirements of 40 CFR 63.11173(e)(2).
 - All spray booths, preparation stations, and mobile enclosures must be fitted with a type of filter technology that is demonstrated to achieve at least 98% capture of paint overspray. The procedure used to demonstrate filter efficiency must be consistent with the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Method 52.1.
 - Spray booths and preparation stations used to refinish complete motor vehicles or mobile equipment must be fully enclosed with a full roof, and four complete walls or complete side curtains, and must be ventilated at negative pressure so that air is drawn into any openings in the booth walls or preparation station curtains. However, if a spray booth is fully enclosed and has seals on all doors and other openings and has an automatic pressure balancing system, it may be operated at up to, but not more than, 0.05 inches water gauge positive pressure.
 - Spray booths and preparation stations that are used to coat miscellaneous parts and products or vehicle subassemblies must have a full roof, at least three complete walls or complete side curtains, and must be ventilated so that air is drawn into the booth. The walls and roof of a booth may have openings, if needed, to allow for conveyors and parts to pass through the booth during the coating process.
- All spray-applied coatings must be applied with a high volume, low pressure (HVLP) spray gun, electrostatic application, airless spray gun, or air-assisted airless spray gun, in accordance with 40 CFR 63.11173(e)(3).
- All paint spray gun cleaning must be done so that an atomized mist or spray of gun cleaning solvent and paint residue is not created outside of a container that collects used gun cleaning solvent, in accordance with 40 CFR 63.11173(e)(4). Spray gun cleaning may be done by using a fully enclosed spray gun washer.
- Each owner or operator must ensure and certify that all new and existing personnel, including contract personnel, who spray apply surface coatings, as defined in 40 CFR 63.11180, are trained in the proper application of surface coatings as required by 40 CFR 63.11173(e)(1), in accordance with 40 CFR 63.11173(f). The training program must include, at a minimum:
 - A list of all current personnel by name and job description who are required to be trained;
 - Hands-on and classroom instruction that addresses, at a minimum, initial and refresher training in the following topics:

Spray gun equipment selection, set up, and operation, including measuring coating viscosity, selecting the proper fluid tip or nozzle, and achieving the proper spray pattern, air pressure and volume, and fluid delivery rate;

Spray technique for different types of coatings to improve transfer efficiency and minimize coating usage and overspray, including maintaining the correct spray gun distance and angle to the part, using proper banding and overlap, and reducing lead and lag spraying at the beginning and end of each stroke;

Routine spray booth and filter maintenance, including filter selection and installation; and

Environmental compliance with the requirements of 40 CFR 63, Subpart HHHHHH.

- A description of the methods to be used at the completion of initial or refresher training to demonstrate, document, and provide certification of successful completion of the required training.
- All new and existing personnel at the facility, including contract personnel, who spray apply surface coatings, as defined in 40 CFR 63.11180, must be trained by the dates specified in 40 CFR 63.11173(g). Employees who transfer within a company to a position as a painter are subject to the same requirements as a new hire.
 - All personnel must be trained and certified no later than 180 days after hiring or no later than January 10, 2011, whichever is later. Painter training that was completed within five years prior to the date training is required, and that meets the requirements specified in 40 CFR 63.11173(f)(2) of this section satisfies this requirement and is valid for a period not to exceed five years after the date the training is completed.
 - Training and certification will be valid for a period not to exceed five years after the date the training is completed, and all personnel must receive refresher training that meets the requirements of this section and be re-certified every five years.
- The parts of the General Provisions which apply to the permittee are specified in Table 6, in accordance with 40 CFR 63.11174(a).

Table 6 APPLICABILITY OF GENERAL PROVISIONS TO SUBPART HHHHHH OF PART 63

Citation	Subject	Explanation
40 CFR 63.1(a)(1)-(12)	General Applicability	
40 CFR 63.1(b)(1)-(3)	Initial Applicability Determination	Applicability of subpart HHHHHH is also specified in 40 CFR 63.11170.
40 CFR 63.1(c)(1)	Applicability After Standard Established	
40 CFR 63.1(c)(2)	Applicability of Permit Program for Area Sources	
40 CFR 63.1(c)(5)	Notifications	
40 CFR 63.2	Definitions	Additional definitions are specified in 40 CFR 63.11180.
40 CFR 63.3(a)-(c)	Units and Abbreviations	
40 CFR 63.4(a)(1)-(5)	Prohibited Activities	
40 CFR 63.4(b)-(c)	Circumvention/Fragmentation	
40 CFR 63.6(a)	Compliance With Standards and Maintenance Requirements—Applicability	
40 CFR 63.6(b)(1)-(7)	Compliance Dates for New and Reconstructed Sources	40 CFR 63.11172 specifies the compliance dates.
40 CFR 63.6(c)(1)-(5)	Compliance Dates for Existing Sources	40 CFR 63.11172 specifies the compliance dates.
40 CFR 63.6(e)(1)-(2)	Operation and Maintenance	
40 CFR 63.6(f)(1)	Compliance Except During Startup, Shutdown, and Malfunction	
40 CFR 63.6(f)(2)-(3)	Methods for Determining Compliance	
40 CFR 63.6(g)(1)-(3)	Use of an Alternative Standard	
40 CFR 63.6(i)(1)-(16)	Extension of Compliance	
40 CFR 63.6(j)	Presidential Compliance Exemption	

Citation	Subject	Explanation
40 CFR 63.9(a)-(d)	Notification Requirements	40 CFR 63.11175 specifies notification requirements.
40 CFR 63.9(i)	Adjustment of Submittal Deadlines	
40 CFR 63.9(j)	Change in Previous Information	40 CFR 63.11176(a) specifies the dates for submitting the notification of changes report.
40 CFR 63.10(a)	Recordkeeping/Reporting—Applicability and General Information	
40 CFR 63.10(b)(1)	General Recordkeeping Requirements	Additional requirements are specified in 40 CFR 63.11177.
40 CFR 63.10(b)(2)(xii)	Waiver of recordkeeping requirements	
40 CFR 63.10(b)(2)(xiv)	Records supporting notifications	
40 CFR 63.10(b)(3)	Recordkeeping Requirements for Applicability Determinations	
40 CFR 63.10(d)(1)	General Reporting Requirements	Additional requirements are specified in 40 CFR 63.11176.
40 CFR 63.10(d)(4)	Progress Reports for Sources With Compliance Extensions	
40 CFR 63.10(f)	Recordkeeping/Reporting Waiver	
40 CFR 63.12	State Authority and Delegations	
40 CFR 63.13	Addresses of State Air Pollution Control Agencies and EPA Regional Offices	
40 CFR 63.14	Incorporation by Reference	Test methods for measuring paint booth filter efficiency and spray gun transfer efficiency in 40 CFR 63.11173(e)(2) and (3) are incorporated and included in 40 CFR 63.14.
40 CFR 63.15	Availability of Information/Confidentiality	
40 CFR 63.16(a)	Performance Track Provisions—reduced reporting	

[November 11, 2010]

38. 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Surface Coating Operations, Recordkeeping Requirements

Unless an exemption from the EPA has been granted to this facility in accordance with 40 CFR 63.11170 (a)(2), in accordance with 40 CFR 63.11172(a)(2), on and after January 10, 2011 the permittee shall comply with the applicable emission limitations and requirements of the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH.

- The permittee shall keep the following records in accordance with 40 CFR 63.11177(a) through (d) and (h).
 - Certification that each painter has completed the training specified in 40 CFR 63.11173(f) with the date the initial training and the most recent refresher training was completed.
 - Documentation of the filter efficiency of any spray booth exhaust filter material, according to the procedure in 40 CFR 63.11173(e)(2).
 - Copies of any notification submitted as required by 40 CFR 63.11175 and copies of any report submitted as required by 40 CFR 63.11176.
 - Records of any deviation from the requirements in 40 CFR 63.11173, 63.11174, 63.11175, or 63.11176. These records must include the date and time period of the deviation, and a description of the nature of the deviation and the actions taken to correct the deviation.
 - Records of any assessments of source compliance performed in support of the initial notification, notification of compliance status, or annual notification of changes report.

- The permittee shall maintain copies of the records specified in 40 CFR 63.11177 for a period of at least five years after the date of each record in accordance with 40 CFR 63.11178(a). Copies of records must be kept on site and in a printed or electronic form that is readily accessible for inspection for at least the first two years after their date, and may be kept off-site after that two year period.
- In accordance with 40 CFR 63.11178(a), the permittee shall maintain copies of the records specified in 40 CFR 63.11177 for a period of at least five years after the date of each record. Copies of records must be kept on site and in a printed or electronic form that is readily accessible for inspection for at least the first two years after their date, and may be kept off-site after that two year period.

[November 11, 2010]

39. Incorporation of Federal Requirements by Reference

Unless expressly provided otherwise, any reference in this permit to any document identified in IDAPA 58.01.01.107.03 shall constitute the full incorporation into this permit of that document for the purposes of the reference, including any notes and appendices therein. Documents include, but are not limited to:

- National Emission Standards for Hazardous Air Pollutants (NESHAP) Area Sources, 40 CFR Part 63, Subpart HHHHHH.

For permit conditions referencing or cited in accordance with any document incorporated by reference (including permit conditions identified as NESHAP), should there be any conflict between the requirements of the permit condition and the requirements of the document, the requirements of the document shall govern, including any amendments to that regulation.

[November 11, 2010]

40. 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Surface Coating Operations, Notifications

Unless an exemption from the EPA has been granted to this facility in accordance with 40 CFR 63.11170 (a)(2), in accordance with 40 CFR 63.11172(a)(2), on and after January 10, 2011 the permittee shall comply with the applicable emission limitations and requirements of the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH.

- Initial Notification. The permittee must submit the initial notification required by 40 CFR 63.9(b) in accordance with 40 CFR 63.11175(a). For this existing source, you must submit the Initial Notification no later than January 11, 2010. The initial notification must provide the following information.
 - The company name, if applicable;
 - The name, title, street address, telephone number, e-mail address (if available), and signature of the owner and operator, or other certifying company official;
 - The street address (physical location) of the affected source and the street address where compliance records are maintained, if different.
 - An identification of the relevant standard, such as 40 CFR part 63, Subpart HHHHHH;
 - A brief description of the type of operation. For all surface coating operations, indicate whether the source is a motor vehicle and mobile equipment surface coating operation or a miscellaneous surface coating operation, and include the number of spray booths and preparation stations, and the number of painters usually employed at the operation.
 - A statement of whether the source is already in compliance with each of the relevant requirements of this subpart, or whether the source will be brought into compliance by the compliance date.

- The permittee must certify in the initial notification whether the source is in compliance with each of the requirements of 40 CFR 63, Subpart HHHHHH. If the permittee is certifying in the initial notification that the source is in compliance with the relevant requirements of this subpart, then include also a statement by a responsible official with that official's name, title, phone number, email address (if available) and signature, certifying the truth, accuracy, and completeness of the notification, a statement that the source has complied with all the relevant standards of this subpart, and that this initial notification also serves as the notification of compliance status.
- Notification of Compliance Status. The permittee is not required to submit a separate notification of compliance status in addition to the initial notification provided the permittee was able to certify compliance on the date of the initial notification as part of the initial notification, and the permittee's compliance status has not since changed in accordance with 40 CFR 63.11175(b). The permittee must submit a Notification of Compliance Status by March 11, 2011. The permittee is required to submit the following information with the Notification of Compliance Status:
 - The company's name and the street address (physical location) of the affected source and the street address where compliance records are maintained, if different.
 - The name, title, address, telephone, e-mail address (if available) and signature of the owner and operator, or other certifying company official, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart or an explanation of any noncompliance and a description of corrective actions being taken to achieve compliance. For surface coating operations, the relevant requirements are specified in 40 CFR 63.11173(e) through (g).
 - The date of the Notification of Compliance Status.

[November 11, 2010]

41. 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Surface Coating Operations, Reports

Unless an exemption from the EPA has been granted to this facility in accordance with 40 CFR 63.11170 (a)(2), in accordance with 40 CFR 63.11172(a)(2), on and after January 10, 2011 the permittee shall comply with the applicable emission limitations and requirements of the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH

- Annual Notification of Changes Report. In accordance with 40 CFR 63.11176, the permittee is required to submit a report in each calendar year in which information previously submitted in either the initial notification required by 40 CFR 63.11175(a), Notification of Compliance, or a previous annual notification of changes report submitted has changed. Deviations from the relevant requirements in 40 CFR 63.11173(a) through (d) or 40 CFR 63.11173(e) through (g) on the date of the report will be deemed to be a change. The annual notification of changes report must be submitted prior to March 1 of each calendar year when reportable changes have occurred and must include the following information.
 - The company's name and the street address (physical location) of the affected source and the street address where compliance records are maintained, if different.
 - The name, title, address, telephone, e-mail address (if available) and signature of the owner and operator, or other certifying company official, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart or an explanation of any noncompliance and a description of corrective actions being taken to achieve compliance.

- Any notifications or reporting required by the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH or Subpart A – General Provisions shall be submitted to both of the following addresses in accordance with 40 CFR 63.13:

EPA Region 10
Director, Office of Air Quality
1200 Sixth Avenue
(OAQ-107)
Seattle, WA 98101

And,

Air Quality Permit Compliance
Department of Environmental Quality
Boise Regional Office
1445 N. Orchard Street
Boise, ID 83706
Phone: (208) 373-0550
Fax: (208) 373-0287

[November 11, 2010]

SOUTH LARGE PAINT SHOP – PAINT BOOTHS #1 & #2

42. Process Description

The South Large Paint Shop is located in the southwestern corner of the MPI Apple Street facility, adjacent to the North Large Paint Shop. The paint shop is used to paint manufactured or remanufactured locomotives. The South Large Paint Shop is comprised of two booths (the east and the west booth). The western booth exhausts at height of 31 ft through two stacks, each with average flow rate of 17,500 actual cubic feet per minute (acfm). The eastern booth exhausts at height of 27 ft through two stacks, each with average flow rate of 12,900 acfm.

43. Emissions Control Description

The PM₁₀ emissions from both sets of vents are controlled by a bank of filters having a control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

Emission Limits

44. Emission Limits

The PM₁₀ emissions from each spray booth stack of the South Large Paint Shop shall not exceed 0.2545 pound per day (lb/day).

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and recordkeeping requirements.

[February 26, 2010]

Operating Requirements

45. Paint Throughput Limit

The maximum amount of each individual paint product shall not exceed 46 gallons per day.

The maximum amount of all paint products sprayed at the South Large Paint Shop shall not exceed 75 gallons per day (gal/day).

The maximum amount of all paint products sprayed at the South Large Paint Shop shall not exceed 16,000 gallons per any consecutive 12-month period (gal/yr).

The Daily Weighted Average solids content of all paint products sprayed at the South Large Paint Shop shall not exceed 8.16 lb/gal.

[September 22, 2011]

46. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across each of the spray paint booth filter systems.

47. O&M Manual

The permittee shall have developed an operation and maintenance manual for the South Large Paint Shop's air pollution control equipment according to manufacturer specifications and recommendations. The pressure drop across the paint filtration systems shall be maintained within manufacturer and O&M manual specifications. The pressure drop across both air pollution control systems shall be monitored and recorded daily. The O&M manual shall address the operation, maintenance, and repair of the South Large Paint Shop's air pollution control systems and shall, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the South Large Paint Shop's air pollution control equipment in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

48. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the following information in records:

- The total amount of paint products sprayed in the South Large Paint Shop in gallons per day and gallons per year to demonstrate compliance with the emissions and throughput limit permit conditions. Annual throughput shall be determined by summing each monthly throughput over the previous 12-month period.
- The pressure drop across each spray paint booth filter system shall be recorded once per week when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The amount of each individual paint product sprayed in the South Large Paint Shop in gallons per day to demonstrate compliance with the paint throughput limit permit condition.
- The Daily Weighted Average solids content of all paint products sprayed at the South Large Paint shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

49. Control Efficiency Documentation

The permittee shall document that the control efficiency of the bank of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

NORTH LARGE PAINT SHOP – PAINT BOOTHS #3 & #4

50. Process Description

The North Large Paint Shop is located in the southwest corner of the MPI Apple Street facility. The North Large Paint Shop contains two paint booths used to paint locomotives or component parts. Each booth is equipped with a 48,400 acfm air handling system. Emissions from each booth are vented through two stacks, each 39 ft above ground level.

51. Emissions Control Description

The PM₁₀ emissions from both booths are controlled by a bank of filters having a particulate control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

Emission Limits

52. Emission Limits

The PM₁₀ from each spray booth stack of the North Large Paint Shop shall not exceed 0.2545 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

53. Paint Throughput Limit

The maximum amount of each individual paint product shall not exceed 46 gal/day.

The maximum amount of all paint products sprayed at the North Large Paint Shop shall not exceed 75 gal/day.

The maximum amount of all paint products sprayed at the North Large Paint Shop shall not exceed 16,000 gal/yr.

The Daily Weighted Average solids content of all paint products sprayed at the North Large Paint Shop shall not exceed 8.16 lb/gal.

[September 22, 2011]

54. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the exhaust filters in each paint booth.

55. O&M Manual

The permittee shall have developed an operation and maintenance manual for the North Large Paint Shop's air pollution control equipment according to manufacturer specifications and recommendations. The O&M manual shall address the operation, maintenance, and repair of the North Large Paint Shop's air pollution control systems and shall include, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall stipulate that all filter pads be replaced according to manufacturer specifications and recommendations. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the North Large Paint Shop's air pollution control equipment in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

56. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the following information in records:

- The total amount of paint products sprayed in the North Large Paint Shop in gallons per day and gallons per year to demonstrate compliance with the emissions and throughput limit permit conditions. Annual throughput shall be determined by summing each monthly throughput over the previous 12-month period.
- The pressure drop across each spray paint booth filter system shall be recorded once per week when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The amount of each individual paint product sprayed in the North Large Paint Shop in gallons per day to demonstrate compliance with the paint throughput limit permit condition.
- The Daily Weighted Average solids content of all paint products sprayed at the North Large Paint Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

57. Control Efficiency Documentation

The permittee shall document that the control efficiency of the bank of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

STRIP-WASH-BLAST-PAINT BUILDING - PAINT BOOTH #5

58. Process Description

The Strip-Wash-Blast-Paint (SWBP) Building is located near the northern property boundary of the MPI Apple Street facility. The building is comprised of four separate sections, including a strip section, a wash section, an abrasive shot blasting and primer painting section, and a mechanical and locker/break room section. The strip section is designed for the disassembly of locomotives. The wash section is used to wash the locomotive frame, car body, and miscellaneous equipment. Minor welding takes place in the mechanical room. The blast and paint section is used for steel-grit blasting of locomotive frames and components to remove old paint and rust. The booth is designed so that either painting or blasting can occur at any one time, but never simultaneously. Blasting and primer painting make-up air is provided by two, 4.5 MMBtu/hr natural gas-fired heaters. The dual-use shot-blasting/primer booth has a separate exhaust system for shot-blasting and painting. Emissions from each booth are vented through two stacks, each with an average flow rate of 31,380 acfm. Permit conditions specific to blasting operations in Booth #5 are contained in Permit Conditions 91 through 96.

[September 22, 2011]

59. Emissions Control Description

The PM₁₀ emissions from the painting operation at the SWBP building are controlled by a paint-arrestor filter system with a control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

[September 22, 2011]

Emission Limits

60. Emission Limits

The PM₁₀ emissions from each spray booth stack at the SWBP building shall not exceed 0.1616 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[September 22, 2011]

Operating Requirements

61. Paint Throughput Limit

The permittee shall comply with the following limits:

- The maximum amount of each individual paint product shall not exceed 25 gal/day.
- The total amount of all paint products containing 1,6 - hexamethylene diisocyanate shall not exceed 25 gal/day.
- The maximum amount of paint products used at the paint booth shall not exceed 50 gal/day.
- The maximum amount of paint products used at the paint booth shall not exceed 10,500 gal/yr.
- Paint products that contain cadmium or chromium shall not be used in the paint booth, as per applicant submittal.
- The Daily Weighted Average solids content of all paint products sprayed at the SWBP Paint Shop shall not exceed 8.16 lb/gal.

[September 22, 2011]

62. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the paint-arrestor filter system.

[September 22, 2011]

63. O&M Manual

The permittee shall have developed an operation and maintenance manual for the air pollution control equipment of the SWBP building according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The pressure drop across the air pollution control equipment shall be monitored and recorded once daily. The O&M manual shall address the operation, maintenance, and repair of the SWBP building air pollution control equipment and shall, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the air pollution control equipment of the SWBP building in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

64. Recordkeeping Requirements

The permittee shall monitor and record the following information in records:

- For each paint product used in the paint booth, record the usage rate in gallons per month (gal/mo) and gallons per year.
- For each paint product used in the paint booth, record the VOC content in pounds per gallon (lb/gal).
- For each paint product used in the paint booth, calculate and record the VOC usage in pounds per month (lb/mo). To calculate the VOC usage, multiply the usage rate (gal/mo) by the VOC content (lb/gal) for each paint product used.
- Once monthly, calculate and record the total amount of VOC usage of the paint booth in pounds per month. To calculate the total VOC usage, add all of the individual VOC usage amounts for each paint product that was recorded in the bullet point above. This VOC usage amount will then be used to demonstrate compliance with the facility-wide VOC limit permit condition.
- The pressure drop across the paint-arrestor filter system once on a daily basis when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The amount of each individual paint product sprayed in the Strip-Wash-Blast-Paint building in gallons per day to demonstrate compliance with the paint throughput limit permit condition.
- The total amount of all paint products containing 1,6 - hexamethylene diisocyanate in gallons per day to demonstrate compliance with the paint throughput limit permit condition (bullet point#2).
- The Daily Weighted Average solids content of all paint products sprayed at the SWBP Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

65. Control Efficiency Documentation

The permittee shall document that the control efficiency of a pulse-jet dust collector system and the paint-arrestor filter system meets the control efficiency specified in the emissions control description permit condition, respectively.

[February 26, 2010]

SMALL PAINT SHOP – PAINT BOOTH #6

66. Process Description

The Small Paint Shop is located in the central portion of the MPI Apple Street facility. The shop contains one paint booth and is used to paint small parts, car bodies, high voltage cabinets, locomotive fuel tanks, and various other locomotive parts. The booth exhausts at a height of 23 ft through two stacks, each with an average flow rate of 17,500 acfm. The booth is heated by 0.96 MMBtu/hr heaters to cure freshly applied paint.

67. Emissions Control Description

The PM₁₀ emissions from the paint booth are controlled by a bank of filters with a control efficiency of 99.58%. The VOC emissions are uncontrolled.

Emission Limits

68. Emission Limits

The PM₁₀ emissions from each Small Paint Shop stack shall not exceed 0.51 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

69. Paint Throughput Limit

The maximum amount of each individual paint product shall not exceed 46 gal/day.

The maximum amount of all paint products sprayed at the Small Paint Shop shall not exceed 75 gal/day.

The maximum amount of all paint products sprayed at the Small Paint Shop shall not exceed 5,000 gal/yr.

The Daily Weighted Average solids content of all paint products sprayed at the Small Paint Shop shall not exceed 8.16 lb/gal.

[September 22, 2011]

70. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the Small Paint Booth filter system.

71. O&M Manual

The permittee shall have developed an operation and maintenance manual for the air pollution control equipment of the Small Paint Shop according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The pressure drop across both air pollution control equipment shall be monitored and recorded once daily. The O&M manual shall address the operation, maintenance, and repair of the Small Paint Shop's air pollution control equipment and shall, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the air pollution control equipment of the Small Paint Shop in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

72. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the following information in records:

- The total amount of paint products sprayed in the Small Paint Shop in gallons per day and gallons per year to demonstrate compliance with the emissions and throughput limit permit conditions. Annual throughput shall be determined by summing each monthly throughput over the previous 12-month period.
- The pressure drop across the spray paint booth filter system shall be recorded once per day when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The amount of each individual paint product sprayed in the Small Paint Shop in gallons per day to demonstrate compliance with the paint throughput limit permit condition.
- The Daily Weighted Average solids content of all paint products sprayed at the Small Paint Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

73. Control Efficiency Documentation

The permittee shall document that the control efficiency of the bank of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

SPRAY PAINT BOOTH – PAINT BOOTH #7

74. Process Description

The Spray Paint Booth is located in the northeast section of the Truck and Engine Annex (TEA) building at Braniff Street. It is a Protectaire Model 530 DTT. The spray booth is used for painting locomotive engines and trucks. There is one exhaust stack that vents from the TEA paint booth. The stack exhausts at height of 35 ft, with an average flow rate of 23,400 acfm.

75. Emissions Control Description

The PM₁₀ emissions from the Spray Paint Booth are controlled by a bank of filters with a control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

Emission Limits

76. Emission Limits

The PM₁₀ emissions from the Spray Paint Booth stack shall not exceed 0.2714 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

77. Paint Throughput Limit

The maximum amount of all paint products sprayed at the Spray Paint Booth shall not exceed 20 gal/day.

The maximum amount of all paint products sprayed at the Spray Paint Booth shall not exceed 3,000 gal/yr.

The Daily Weighted Average solids content of all paint products sprayed at the Spray Paint Booth shall not exceed 8.16 lb/gal.

[September 22, 2011]

78. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the Spray Paint Booth filter system.

79. O&M Manual

The permittee shall have developed an operation and maintenance manual for the air pollution control equipment of the Spray Paint Booth according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The pressure drop across both air pollution control equipment shall be monitored and recorded once daily. The O&M manual shall address the operation, maintenance, and repair of the Spray Paint Booth's air pollution control equipment and shall, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the air pollution control equipment of the Spray Paint Booth in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

80. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the following information in records:

- The total amount of paint products sprayed in the Spray Paint Booth in gallons per day and gallons per year to demonstrate compliance with the emissions and throughput limit permit conditions. Annual throughput shall be determined by summing each monthly throughput over the previous 12-month period.
- The pressure drop across the spray paint booth filter system shall be recorded once per day when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The Daily Weighted Average solids content of all paint products sprayed at the Spray Paint Booth Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

81. Control Efficiency Documentation

The permittee shall document that the control efficiency of the bank of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

EAST PAINT SHOP BUILDING – PAINT BOOTHS #8 AND #9

82. Process Description

The East Paint Shop Building is located south of the SWBP building at the MPI Apple Street. The paint shop is used to apply paint products to locomotive components and parts (i.e., hoods, cabs, etc.). The East Paint Shop contains two fully enclosed spray paint booths manufactured by Spray Booth Systems (SBS), Model No. SBS 2346-889. Each paint booth is 20 ft wide x 21 ft high and 80 ft long. Each booth exhausts to two stacks, each 36 ft above ground with average flow rate of 21,000 acfm. The shop also contains two natural gas fired heaters each with a rated heat input capacity of 3.3 MMBtu/hr.

83. Emissions Control Description

The PM₁₀ emissions from the East Paint Shop are controlled by two banks of filters with a control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

Emission Limits

84. Emission Limits

The PM₁₀ emissions from each the Spray Paint Booth stack shall not exceed 0.8313 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

85. Paint Throughput Limit

The maximum amount of any one paint product sprayed at the East Paint Shop Building shall not exceed 46 gallons per day.

The maximum amount of all paint products sprayed at the East Paint Shop Building shall not exceed 46 gallons per day.

The maximum amount of paint products sprayed at the East Paint Shop Building shall not exceed 5,850 gal/yr.

The Daily Weighted Average solids content of all paint products sprayed at the East Paint Booth shall not exceed 8.16 lb/gal.

[September 22, 2011]

86. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the Spray Paint Booth filter system.

87. O&M Manual

Within 60 days of startup, the permittee shall have developed an operation and maintenance manual for each spray paint booth filter system of the East Paint Shop according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The manual shall contain at a minimum, the following: the recommended pressure drop operating range for the filter system; the routine maintenance and repair procedures for the filter system; and the routine replacement schedule for the filters. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate each spray paint booth filter system of the East Paint Shop in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

88. Pressure Drop Across Filter System

The pressure drop across the spray paint booth filter systems shall be maintained within manufacturer and O&M manual specifications. Documentation of both the manufacturer and O&M manual operating pressure drop specifications shall remain on site at all times and shall be made available to DEQ representatives upon request.

Monitoring and Recordkeeping Requirements

89. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the total amount of paint sprayed in the spray paint booths monthly and annually to demonstrate compliance with the paint throughput limit permit condition. Annual throughput shall be determined by summing each monthly throughput over the previous consecutive 12-month period.

The permittee shall monitor and record the differential pressure across the spray paint booth filter systems once per week when operating to demonstrate compliance with the pressure drop monitoring permit condition.

The Daily Weighted Average solids content of all paint products sprayed at the East Paint Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

90. Control Efficiency Documentation

The permittee shall document that the control efficiency of the two banks of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

BEAD-BLAST ENCLOSURES (4 UNITS) MPI, APPLE STREET

91. Process Description

The Locomotive shop bead blast enclosure is a Cycloblast Model 4836-DC100 with bag filters. The blast media is fine-grained, rounded, glass beads – potter quality Ballotini impact beads, type vi, class 2. The exhaust flow rate is approximately 775 acfm at ambient temperature (293 K). Air from the dust filtration system stack is exhausted outside the building. The unit was installed in 1984.

SWBP Shop bead blast enclosure was originally installed in the Component Shop in 1984, and was relocated adjacent to SWBP Shop Booth #5 in 2011. This enclosure is a Cycloblast Model 4836-F with bag filters. The blast media is fine-grained, rounded, glass beads – potter quality Ballotini impact beads, type vi, class 2. The exhaust flow rate is approximately 775 acfm at ambient temperature (293 K). Exhaust from the bag filters receives secondary treatment as it passes through the pulse-jet dust collector system which services Booth #5.

SWBP Shop Booth #5 is used for both blasting and painting (never simultaneously) through the use of a dual blast and prime system with some shared components. The area is about 100 ft. by 50 ft. by 34 ft. high. Steel grit is used as the blasting media. The particulate emissions from blasting are controlled by a pulse-jet dust collector system.

The Component Shop nutshell blasting unit with a dust filtration system uses Trinco nutshells as the abrasive media and is located outside the air brake room. The maximum capacity is 63 lb/hr media throughput. The exhaust flow rate is approximately 775 scfm. Air from the dust filtration system stack is exhausted inside the building. The unit was installed in 1997.

[September 22, 2011]

92. Emissions Control Description

Locomotive Shop bead blast enclosure: particulate emissions are controlled by a baghouse with 98% control efficiency.

SWBP Shop bead blast enclosure: particulate emissions are controlled by a baghouse, followed in series by a pulse-jet dust collector with 99.9% control efficiency.

SWBP Shop Booth #5: particulate emissions from the shot-blasting operations are controlled by a pulse-jet dust collector system with 99.9% control efficiency.

Component Shop nutshell blasting unit: the dust filtration system is exhausted inside the building.

[September 22, 2011]

Emission Limits

93. Emission Limits

The PM₁₀ emissions from the shot-blast booth stacks at the SWBP building shall not exceed 1.24 lb/day.

The PM₁₀ emissions from the Locomotive Shop Unit stack shall not exceed 15.9 lb/day

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[September 22, 2011]

Operating Requirements

94. Throughput Limit & Operating Requirements

Locomotive Shop bead blast enclosure: the maximum amount of blast media throughput shall not exceed 960 lb/hr, based on 24-hour average time period or 11.52 T/day.

SWBP Shop bead blast enclosure: the maximum amount of blast media throughput shall not exceed 960 lb/hr, based on 24-hour average time period or 11.52 T/day.

SWBP Shop Booth #5:

- the maximum amount of steel grit blasting media throughput shall not exceed 282 T/day.
- The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the pulse-jet dust collector system.

Component Shop nutshell blasting unit: air from the dust filtration system shall be exhausted inside the building.

Emissions from all four units (the Locomotive Shop bead blast enclosure, the SWBP Shop bead blast enclosure, SWBP Booth #5, and the Component Shop nutshell blasting unit) shall be controlled by each respective dust filtration system.

[September 22, 2011]

95. O&M Manual

The permittee shall have developed an operation and maintenance manual for the air pollution control equipment for each blasting unit according to manufacturer specifications and recommendations. The O&M manual shall address the operation, maintenance, and repair of the unit, and shall include, at a minimum, the following: the general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

If there are any changes to the self-developed operation and maintenance manual for any unit, an updated manual shall be submitted to DEQ within 15 days of the changes.

The permittee shall operate each unit in accordance with the respective O&M manual required in this permit condition.

[September 22, 2001]

96. Documentation

Locomotive Shop bead blast enclosure: the permittee shall keep the following documentation to demonstrate that the media throughput capacity does not exceed 960 lb/hr:

- The nozzle size in use
- The pressure at the nozzle
- The corresponding blast media throughput capacity
- Records of any changes to the nozzle size and the pressure at the nozzle

SWBP Shop bead blast enclosure: the permittee shall keep the following documentation to demonstrate that the media throughput capacity does not exceed 960 lb/hr:

- The nozzle size in use
- The pressure at the nozzle
- The corresponding blast media throughput capacity
- Records of any changes to the nozzle size and the pressure at the nozzle

SWBP Shop Booth #5: the permittee shall keep the following documentation to demonstrate compliance with media throughput and particulate matter control efficiency:

- The amount of steel grit in tons per day throughput in the blasting booth at the SWBP building.
- The pressure drop across the blasting pulse-jet dust collector system once on a daily basis.

[September 22, 2011]

BEAD-BLAST ENCLOSURES (2 UNITS), TEA, BRANIFF STREET

97. Process Description

The bead-blast enclosures use fine-grained, rounded, glass beads – potter quality Ballotini impact beads, type vi, class 2. The enclosures consist of the following two units: Cycloblast Model 4836-DC100 (Unit 1) bead-blast enclosure and Pangorn-S3 (Unit 2) bead-blast enclosure. The Unit 1 enclosure has one stack with a flow rate of 775 acfm and was constructed in 1990. The Unit 2 enclosure has one stack with a flow rate of 1,500 acfm and was constructed in 1996.

98. Emissions Control Description

The PM₁₀ emissions from each of the enclosures are controlled by a baghouse with 98% control efficiency.

Emission Limits

99. Emission Limits

The PM₁₀ emissions from each of the enclosure stacks shall not exceed 1.90 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

100. Operating Requirements

The maximum amount of blast media throughput at each of the enclosure units shall not exceed 115 lb/hr, based on 24-hour average time period or 2,760 lb/day.

Emissions from the bead-blast enclosures shall be controlled by each respective dust filtration system.

[February 26, 2010]

101. O&M Manual

The permittee shall have developed an operation and maintenance manual for the Bead Blast Enclosures air pollution control systems according to manufacturer specifications and recommendations. The air pollution control equipment operating parameters shall be maintained within manufacturer and O&M manual specifications. The O&M manual shall address the operation, maintenance, and repair of the Bead Blast Enclosures air pollution control systems, and shall include, at a minimum, the following: the general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the Bead Blast Enclosures air pollution control systems in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

102. Throughput Monitoring

The permittee shall monitor and record the following information in records:

- The amount of blast media throughput in pounds per day at each of the enclosure units when operating.
- The daily hours of operation for each enclosure when operating.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

103. Documentation

The permittee shall keep the following documentation:

- The nozzle size in use
- The pressure at the nozzle
- The corresponding blast media throughput capacity
- Records of any changes to the nozzle size and the pressure at the nozzle

[February 26, 2010]

SHOT-BLAST BOOTH, TEA, BRANIFF STREET

104. Process Description

The shot-blast booth is a Hoffman Schmidt/Abrasive Steel Shot Blaster. The booth is located in the northwestern corner of the main TEA building. The shot-blast booth uses steel-grit media for blasting process. The booth has one stack with a flow rate of 8,500 acfm. The booth was constructed in 1994.

105. Emissions Control Description

Particulate emissions from the booth are controlled by a Torit Model HDFT2-16 Downflow Cartridge Dust Collector that has a control efficiency of 99%.

Emission Limits

106. Emission Limits

The PM₁₀ emissions from the Shot-Blast Booth stack shall not exceed 21.12 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

107. Blast Media Throughput Limits

The maximum amount of steel-grit media throughput at the Shot-Blast Booth shall not exceed 48,000 lb/hr.

108. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the dust collector.

109. Hours of Operation Limits

The maximum annual hours of operation of the Shot-Blast Booth shall not exceed 4,380 hours per any consecutive 12-month period.

The Shot-Blast Booth shall not be operated between 1:00 am and 5:00 am each day.

[February 26, 2010]

110. O&M Manual

The permittee shall have developed an O & M manual for the Shot-Blast Booth air pollution control system according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The O&M manual shall address the operation, maintenance, and repair of the Shot-Blast Booth air pollution control system, and shall include, at a minimum, the following: the general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the Shot-Blast Booth air pollution control system in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

111. Operating Limits Monitoring

The permittee shall monitor and record the following information in records:

- The amount of blast media used in pounds per day at the Shot-Blast Booth.
- The number of hours of operation of the Shot-Blast Booth in hours per day and hours per any consecutive 12-month period.
- Clock time for each operating duration of the Shot-Blast Booth every day.
- The pressure drop across the dust collector of the Shot-Blast Booth shall be recorded daily. Pressure drop recordings are not required on days the Shot-Blast Booth is not in operation.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[February 26, 2010]

112. Control Efficiency Documentation

The permittee shall document that the control efficiency of the dust collector meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

COMPRESSOR TEST STAND ENGINE, TEA, BRANIFF STREET

113. Process Description

The air compressor test stand, which is located at the north of the main building at the TEA (south of the Proceco Parts Washer) is powered by a 1965 4-cylinder 98 horsepower Cummins, diesel-fired internal combustion engine. The diesel engine that powers the compressor test stand has a maximum fuel consumption of 5.7 gallons of diesel fuel per hour under a load of 1800 rpm. The operation of the diesel engine is limited to powering the compressor test stand engine.

[February 26, 2010]

114. Emissions Control Description

Emissions from the Compressor Test Stand Engine are uncontrolled.

Emission Limits

115. Emission Limits

The PM₁₀ emissions from the Compressor Test Stand Engine stack shall not exceed 3.45 lb/day.

The NO_x emissions from the Compressor Test Stand Engine stack shall not exceed 0.9874 T/yr.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

116. Hours of Operation Limits

The maximum hours of operation of the Compressor Test Stand Engine shall not exceed 650 hours per year.

The Compressor Test Stand Engine shall only be operated between 5:00 am and 9:00 pm.

[February 26, 2010]

117. Operation of Compressor Test Stand Engine

The operation of the diesel engine shall be limited to powering the compressor test stand.

Monitoring and Recordkeeping Requirements

118. Operating Limits Monitoring

The permittee shall monitor and record the following information in records:

- The number of hours of operation of the Compressor Test Stand Engine in hours per day and hours per year.
- Clock time for each operating duration of the Compressor Test Stand Engine every day.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[February 26, 2010]

LOCOMOTIVE ENGINE TEST CELL, TEA, BRANIFF STREET

119. Process Description

The Locomotive Engine Test Cell is located outside the east end of the main TEA building. The locomotive engine is physically removed from the locomotive and mounted on a stationary engine test cell stand. The stand is used for testing the remanufactured locomotive engines in a sound deadening room with the combustion exhaust vented through a muffler system and then to a 21 ft stack. Each engine is tested for a maximum of eight hours at notch # 8 (highest throttle setting). At notch # 8, 175 gallons of No.2 fuel oil is consumed per hour. During testing, each engine consumes approximately 1,500 gallons of diesel oil.

120. Emissions Control Description

Emissions from the Locomotive Engine Test Cell are uncontrolled.

Emission Limits

121. Emission Limits

Emissions from the stack of Locomotive Engine Test Cell shall not exceed any corresponding emissions rate limits listed in Table 7.

Table 7 EMISSIONS LIMITS ¹

PM ₁₀ ²		SO ₂	NO _x	CO
lb/day ⁴	T/yr ³	lb/hr ⁵	T/yr ³	lb/hr ⁵
46.2	3.02	10.7	43.4	50.3

- 1 In absence of any other credible evidence, compliance is assured by complying with this permit's operating, monitoring and record keeping requirements.
- 2 Particulate matter with and aerodynamic diameter less than or equal to a nominal ten (10) micrometers including condensable particulate as defined in IDAPA 58.01.01.006.80.
- 3 Tons per any consecutive 12-calendar month period.
- 4 Pounds per calendar day.
- 5 Pounds per hour clock hour

[February 26, 2010]

Operating Requirements

122. Throughput Limits

The maximum throughput of diesel fuel combusted in the Locomotive Engine Test Cell shall not exceed 1,680 gallons per day.

The maximum throughput of diesel fuel combusted in the Locomotive Engine Test Cell shall not exceed 219,500 gallons per any consecutive 12-month period.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

123. Monitoring Requirements

The permittee shall monitor and record the throughput of diesel fuel combusted in the Locomotive Engine Test Cell in gallons:

- Every calendar day
- Every calendar month by summing the daily throughput in the calendar month.
- Each consecutive 12-month period by summing this month's fuel throughput and the previous consecutive 11-month fuel throughput.

Records of the information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[February 26, 2010]

124. O&M Manual

The permittee shall maintain an O&M manual for the locomotive engine test cell stand. The manual shall describe the procedures that will be followed to comply with the visible emissions limitations contained in IDAPA 58.01.01.625 during the start up of each locomotive engine testing in the locomotive engine test cell stand. This manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the locomotive engine test cell stand in accordance with the O&M manual.

[February 26, 2010]

SELLER BOILERS NOS. 1 AND 2, MPI, APPLE STREET

125. Process Description

MPI has two natural gas-fired boilers that are located at the east end of the locomotive shop. Both are Seller Model 105-E, horizontal immersion steam boilers and each with a rated heat input capacity of 6.7 MMBtu/hr. One boiler is operational, and the other is a backup. The boilers will not operate simultaneously.

126. Emissions Control Description

Emissions from the natural gas-fired boilers are uncontrolled.

Operating Requirements

127. Fuel Specification

Seller boilers Nos. 1 and 2 shall be fueled by natural gas exclusively.

128. Seller boilers Nos. 1 and 2 shall not be operated simultaneously.

[February 26, 2010]

NATURAL GAS-FIRED EMERGENCY GENERATOR

129. Process Description

The MPI is to install a natural gas-fired emergency generator manufactured in September 2009 by Kohler Power Systems with model No. 45REZG. The natural gas-fired emergency generator is rated at 75 HP at maximum load.

[February 26, 2010]

130. Emissions Control Description

Emissions from the natural gas-fired emergency generator are uncontrolled.

[February 26, 2010]

Operating Requirements

131. Fuel Specification

The emergency generator shall be fueled by natural gas exclusively.

[February 26, 2010]

132. Operating Hours

The natural gas-fired emergency generator shall not be operated more than one hour per week, excluding during emergencies.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

133. Monitoring Requirements

The permittee shall monitor and record the operating hours of the natural gas-fired emergency generator every week.

Records of the information shall be retained in accordance with the Recordkeeping General Provision of this permit.

[February 26, 2010]

40 CFR 60 Subpart JJJJ—Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

Emission Standards for Owners and Operators

134. NSPS 40 CFR 60, Subpart JJJJ – § 60.4233 What emission standards must I meet if I am a manufacturer of stationary SI internal combustion engines or equipment containing such engines?

Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) must comply with the emission standards in Table 1 to this subpart for their emergency stationary SI ICE In accordance with 40 CFR 60.4233(d).

Table 1 to Subpart JJJJ of Part 60—NO_x, CO, and VOC Emission Standards for Stationary Non-Emergency SI Engines ≥100 HP (Except Gasoline and Rich Burn LPG), Stationary SI Landfill/Digester Gas Engines, and Stationary Emergency Engines >25 HP

Emission Standards					
g/HP-hr			ppmvd @ 15% O ₂		
NO _x	CO	VOC ^a	NO _x	CO	VOC ^a
2.0	4.0	1.0	160	540	86

a. For purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

[February 26, 2010]

135. NSPS 40 CFR 60, Subpart JJJJ – § 60.4234 How long must I meet the emission standards if I am an owner or operator of a stationary SI internal combustion engine?

Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine.

[February 26, 2010]

Other Requirements for Owners and Operators

136. NSPS 40 CFR 60, Subpart JJJJ – § 60.4236 What is the deadline for importing or installing stationary SI ICE produced in the previous model year?

For emergency stationary SI ICE with a maximum engine power of greater than 19 KW (25 HP), owners and operators may not install engines that do not meet the applicable requirements in §60.4233 after January 1, 2011 in accordance with 40 CFR 4236(c).

[February 26, 2010]

137. NSPS 40 CFR 60, Subpart JJJJ – § 60.4237 What are the monitoring requirements if I am an owner or operator of an emergency stationary SI internal combustion engine?

If you are an owner or operator of an emergency stationary SI internal combustion engine that is less than 130 HP, was built on or after July 1, 2008, and does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter upon startup of your emergency engine in accordance with 40 CFR 60.4237(c).

[February 26, 2010]

Compliance Requirements for Owners and Operators

138. NSPS 40 CFR 60, Subpart JJJJ – § 60.4243 What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?

If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in §60.4233(d) or (e), you must demonstrate compliance according to one of the methods specified in 40 CFR 60.4243(b)(1) and (2) in accordance with 40 CFR 60.4243(b).

40 CFR 60.4243(b)(1) Purchasing an engine certified according to procedures specified in this subpart (i.e., 40 CFR 60.4231(d)), for the same model year and demonstrating compliance according to one of the methods specified in 40 CFR 60.4243(a)

40 CFR 60.4243(a)(1) If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator.

40 CFR 60.4231(d) Stationary SI internal combustion engine manufacturers who choose to certify their emergency stationary SI ICE greater than 25 HP and less than 130 HP, must certify those engines to the Phase 1 emission standards in 40 CFR 90.103, applicable to class II engines, for new nonroad SI engines in 40 CFR part 90.

Phase 1 Exhaust Emission Standards

Engine displacement class	Hydrocarbons+oxides of nitrogen (HC+NO _x)	Hydrocarbons	Carbon monoxide	Oxides of nitrogen (NO _x)
II	13.4	---	519	---

Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Emergency stationary ICE may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this section, is prohibited in accordance with 40 CFR 60.4243(d).

[February 26, 2010]

Notification, Reports, and Records for Owners and Operators

139. NSPS 40 CFR 60, Subpart JJJJ – § 60.4245 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?

Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements in accordance with 40 CFR 60.4245.

40 CFR 60.4245(a) Owners and operators of all stationary SI ICE must keep records of the information in 40 CFR 60.4245(a)(1) through (4) of this section.

(1) All notifications submitted to comply with this subpart and all documentation supporting any notification.

(2) Maintenance conducted on the engine.

(3) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.

[February 26, 2010]

General Provisions

140. NSPS 40 CFR 60, Subpart JJJJ – § 60.4246 What parts of the General Provisions apply to me?

Table 3 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

Table 3 to Subpart JJJJ of Part 60—Applicability of General Provisions to Subpart JJJJ

General provisions citation	Subject of citation	Applies to subpart	Explanation
§60.1	General applicability of the General Provisions	Yes	
§60.2	Definitions	Yes	Additional terms defined in §60.4248.
§60.3	Units and abbreviations	Yes	
§60.4	Address	Yes	Air Quality Permit Compliance Department of Environmental Quality Air Quality Manager Boise Regional Office 1445 N. Orchard Boise, ID 83706-2239 Phone: (208) 373-0550 Fax: (208) 373-0287
§60.5	Determination of construction or modification	Yes	
§60.6	Review of plans	Yes	
§60.7	Notification and Recordkeeping	Yes	Except that §60.7 only applies as specified in §60.4245.
§60.8	Performance tests	Yes	Except that §60.8 only applies to owners and operators who are subject to performance testing in subpart JJJJ.
§60.9	Availability of information	Yes	
§60.10	State Authority	Yes	
§60.11	Compliance with standards and maintenance requirements	Yes	Requirements are specified in subpart JJJJ.
§60.12	Circumvention	Yes	
§60.13	Monitoring requirements	No	
§60.14	Modification	Yes	
§60.15	Reconstruction	Yes	
§60.16	Priority list	Yes	
§60.17	Incorporations by reference	Yes	
§60.18	General control device requirements	No	
§60.19	General notification and reporting requirements	Yes	

[February 26, 2010]

THE FIRE PUMP AT SOUTHERN PROPERTY BOUNDARY OF MOTIVEPOWER APPLE STREET

141. Process Description

The 143 HP diesel-fired internal combustion engine is located at southern property boundary of MotivePower Apple Street. It is a fire pump with an estimated heat input of 0.682 MMBtu/hr.

[February 26, 2010]

142. Emissions Control Description

Emissions from the fire pump are uncontrolled.

[February 26, 2010]

Operating Requirements

143. Operating Hours

The fire pump shall not be operated more than one hour per week, excluding during emergencies.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

144. Monitoring Requirements

The permittee shall monitor and record the operating hours of the fire pump every week. Records of the information shall be remained in accordance with the Recordkeeping General Provision of this permit.

[February 26, 2010]

PERMIT TO CONSTRUCT GENERAL PROVISIONS

General Compliance

145. The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the Rules for the Control of Air Pollution in Idaho. The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq.
- [Idaho Code §39-101, et seq.]**
146. The permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.
- [IDAPA 58.01.01.211, 5/1/94]**
147. Nothing in this permit is intended to relieve or exempt the permittee from the responsibility to comply with all applicable local, state, or federal statutes, rules and regulations.
- [IDAPA 58.01.01.212.01, 5/1/94]**

Inspection and Entry

148. Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:
- Enter upon the permittee's premises where an emissions source is located or emissions related activity is conducted, or where records are kept under conditions of this permit;
 - Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
 - Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.
- [Idaho Code §39-108]**

Construction and Operation Notification

149. The permittee shall furnish DEQ written notifications as follows in accordance with IDAPA 58.01.01.211:
- A notification of the date of initiation of construction, within five working days after occurrence;
 - A notification of the date of any suspension of construction, if such suspension lasts for one year or more;
 - A notification of the anticipated date of initial start-up of the stationary source or facility not more than sixty days or less than thirty days prior to such date;
 - A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date; and
 - A notification of the initial date of achieving the maximum production rate, within five working days after occurrence - production rate and date.

Performance Testing

150. If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ, at its option, may have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.
151. All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.
152. Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

[IDAPA 58.01.01.157, 4/5/00]

Monitoring and Recordkeeping

153. The permittee shall maintain sufficient records to ensure compliance with all of the terms and conditions of this permit. Records of monitoring information shall include, but not be limited to the following: (a) the date, place, and times of sampling or measurements; (b) the date 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. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

[IDAPA 58.01.01.211, 5/1/94]

Excess Emissions

154. The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions due to startup, shutdown, scheduled maintenance, safety measures, upsets and breakdowns.

[IDAPA 58.01.01.130-136, 4/5/00]

Certification

155. All documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

[IDAPA 58.01.01.123, 5/1/94]

False Statements

156. No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.
[IDAPA 58.01.01.125, 3/23/98]

Tampering

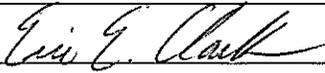
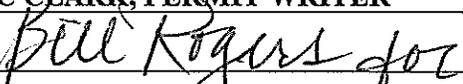
157. No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.
[IDAPA 58.01.01.126, 3/23/98]

Transferability

158. This permit is transferable in accordance with procedures listed in IDAPA 58.01.01.209.06.
[IDAPA 58.01.01.209.06, 4/11/06]

Severability

159. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
[IDAPA 58.01.01.211, 5/1/94]

Air Quality PERMIT TO CONSTRUCT State of Idaho Department of Environmental Quality	PERMIT NUMBER	CLASS	SIC
	P-2009.0097	SM80	3743
	FACILITY ID	AQCR	NAICS
	001-00107	64	33651
	ZONE	UTM COORDINATES (km)	
11	567.1	4823.1	
PERMITTEE			
Motive Power, Inc.			
PROJECT			
Project No. 60898 Permit to Construct Revision			
MAILING ADDRESS	CITY	STATE	ZIP
4600 Apple Street	Boise	ID	83716
FACILITY CONTACT	TITLE	TELEPHONE	
Art Anderson	EH&S Manager	(208) 947-4821	
RESPONSIBLE	TITLE	TELEPHONE	
Mark Warner	Vice President & General Manager	(208) 947-4800	
EXACT PLANT LOCATION		COUNTY	
4600 Apple Street, Boise, Idaho 83716 (Main Plant) and 2100 Braniff Street (Truck and Engine Annex), Boise, Idaho		Ada	
GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS			
Manufactures and remanufactures of diesel electric locomotives and locomotive components			
PERMIT AUTHORITY			
<p>This permit is issued according to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200 through 228, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be constructed or modified by this permit.</p> <p>This permit (a) does not affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment; (c) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; (d) in no manner implies or suggests that the Department of Environmental Quality (DEQ) or its officers, agents, or employees, assume any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment.</p> <p>This permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.</p> <p>This permit has been granted on the basis of design information presented with its application. Changes in design, equipment or operations may be considered a modification. Modifications are subject to DEQ review in accordance with IDAPA 58.01.01.200 through 228 of the Rules for the Control of Air Pollution in Idaho.</p>			
		DATE ISSUED	September 22, 2011
ERIC CLARK, PERMIT WRITER			
			
MIKE SIMON, STATIONARY SOURCE MANAGER			

PERMIT TO CONSTRUCT SCOPE 3

FACILITY WIDE EMISSIONS 5

40 CFR 63 SUBPART HHHHHH—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR
 POLLUTANTS: PAINT STRIPPING AND MISCELLANEOUS SURFACE COATING
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PERMIT TO CONSTRUCT SCOPE

Purpose

1. This is a revised permit to construct to update the method in which the solids content limit of 8.16 lb/gal is calculated. Rather than having an absolute maximum, a weighted average is now used to allow for more flexibility of paint use. The overall limit remains unchanged. Additionally, the location of the bead blasting enclosure is being changed. The new location is adjacent to the SWBP blast booth. Emissions will actually decrease from this change as the emissions will now discharge to the SWBP blast booth's filter bank control device.
2. Those permit conditions that have been modified or revised by this permitting action are identified by a date citation located directly under the permit condition and on the right hand margin.
3. This PTC replaces Permit to Construct No. P-2009.0097, Project 60552, issued on November 11, 2010.
4. The emission sources regulated by this permit are listed in the following table.

Table 1 REGULATED SOURCES

Source Descriptions	Emission Controls
<u>FACILITY-WIDE CONDITIONS</u>	As listed.
<u>SOUTH LARGE PAINT SHOP</u> , <i>Apple Street</i> The shop contains two spray paint booths Nos. 1&2	The PM ₁₀ emissions are controlled by a bank of filters having a control efficiency of 99.58%.
<u>NORTH LARGE PAINT SHOP</u> , <i>Apple Street</i> The shop contains two spray paint booths (Booths Nos. 3&4)	The PM ₁₀ emissions are controlled by bank filters having a control efficiency of 99.58%.
<u>STRIP-WASH-BLAST-PAINTING BUILDING</u> , <i>Apple Street</i> This building contains one booth (Booth No. 5) that is designed so that either painting or blasting can occur at any one time – never simultaneously.	Blast booth pulse-jet dust collector system designed by Hoffman/Torit, Model: HOFT4-64; PM/PM ₁₀ emissions are controlled with an efficiency of 99.9%. Paint-arrestor filters system designed by OSM. The PM ₁₀ emissions are controlled with an efficiency of 99.58%.
<u>SMALL PAINT SHOP</u> , <i>Apple Street</i> The shop contains one paint booth (Booth No. 6)	The PM ₁₀ is controlled by a bank of filters with an efficiency of 99.58%.
<u>SPRAY PAINT BOOTH, TEA</u> The shop contains one paint booth (Booth No. 7). The spray paint booth is a Protectaire Model 530 DTT.	The PM ₁₀ emissions are controlled by a bank of filters with an efficiency of 99.58%.
<u>EAST PAINT SHOP BUILDING</u> , <i>Apple Street</i> The shop contains two spray paint booths (Booths Nos. 8&9).	The PM ₁₀ emissions are controlled by two banks of filters with efficiency of 99.58%.
<u>BEAD-BLAST ENCLOSURES (2 Units)</u> , <i>Apple Street</i> Enclosures consist of two units: Component Shop Unit (moved adjacent to SWBP shop) and Locomotive Shop Unit.	The PM ₁₀ emissions are controlled by a baghouse with efficiency of 98%. SWBP also routes all particulates to pulse-jet dust collector system.
<u>BEAD-BLAST ENCLOSURES (2 Units)</u> , <i>TEA</i> Enclosures consist of two blasting units – a Cycloblast Model 4836-DC100; and Pangorn-S3.	The PM ₁₀ emissions are controlled by a baghouse with efficiency of 98% and SWBP filter bank.
<u>SHOT-BLAST BOOTH</u> , <i>TEA</i> The shot blast booth is a Hoffman Schmidt/Abrasive Steel Shotblaster.	The PM ₁₀ emissions are controlled by a Torit Model HDFT2-16, Downflow Cartridge Dust Collector with efficiency of 99%.
<u>COMPRESSOR TEST STAND ENGINE</u> , <i>TEA</i> <i>100B</i> The compressor is powered by a <i>Perfex</i> , Model 45E-68, diesel-fired internal combustion engine	None
<u>LOCOMOTIVE ENGINE TEST CELL</u> , <i>TEA</i>	None
<u>NATURAL GAS-FIRED BOILERS</u> , <i>Apple Street</i> Seller No. 1 boiler – Model: 105-E, steam boiler; rated heat input of 6.7 MMBtu/hr. Seller No. 2 boiler – Model: 105-E, steam boiler; rated heat input of 6.7 MMBtu/hr.	None
<u>NATURAL GAS-FIRED EMERGENCY GENERATOR</u> Manufactured in September 2009 by Kohler Power Systems with model No. 45REZG. The natural gas-fired emergency generator is rated at 75 HP at maximum load.	None
<u>THE FIRE PUMP</u> , <i>Apple Street</i> 143 HP diesel-fired internal combustion engine	None

FACILITY WIDE EMISSIONS

Fugitive Emissions

5. All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with IDAPA 58.01.01.650-651. In determining what is reasonable, considerations will be given to factors such as the proximity of dust-emitting operations to human habitations and/or activities and atmospheric conditions that might affect the movement of particulate matter. Some of the reasonable precautions include, but are not limited to, the following:
 - Use, where practical, 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 lands.
 - Application, where practical, of asphalt, oil, water, or suitable chemicals to, or covering of, dirt roads, material stockpiles, and other surfaces which can create dust.
 - Installation and use, where practical, of hoods, fans, and fabric filters or equivalent systems to enclose and vent the handling of dusty materials. Adequate containment methods should be employed during sandblasting or other operations.
 - Covering, where practical, of open-bodied trucks transporting materials likely to give rise to airborne dusts.
 - Paving of roadways and their maintenance in a clean condition, where practical.
 - Prompt removal of earth or other stored material from streets, where practical.
6. The permittee shall monitor and maintain records of the frequency and the method(s) used (i.e., water, chemical dust suppressants, etc.) to reasonably control fugitive emissions.
7. The permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall include, at a minimum, the date that each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.
8. The permittee shall conduct a monthly facility-wide inspection of potential sources of fugitive emissions, during daylight hours and under normal operating conditions to ensure that the methods used to reasonably control fugitive emissions are effective. If fugitive emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each fugitive emissions inspection. The records shall include, at a minimum, the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (If observed), any corrective action taken in response to the fugitive emissions, and the date the corrective action was taken.
9. Fugitive emissions shall not be observed leaving the property for a period or periods aggregating more than three minutes in any 60-minute period. Visible emissions shall be determined by EPA Reference Method 22, as described in 40 CFR 60, Appendix A, or by an alternative method approved by DEQ.

Odors

10. The permittee shall not allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.

11. The permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall include, at a minimum, the date that each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.

Visible Emissions

12. The permittee shall not discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas is the only reason for the failure of the emission to comply with the requirements of this section.
13. The permittee shall conduct a monthly facility-wide inspection of potential sources of visible emissions, during daylight hours and under normal operating conditions. The visible emissions inspection shall consist of a see/no see evaluation for each potential source. If any visible emissions are present from any point of emission, the permittee shall either take appropriate corrective action as expeditiously as practicable, or perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20% for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in accordance with IDAPA 58.01.01.130-136. The permittee shall maintain records of the results of each visible emissions inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

Open Burning

14. The permittee shall comply with the requirements of the Rules for Control of Open Burning, IDAPA 58.01.01.600-623.

Reports & Certifications

15. Any reporting required by this permit, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, notifications of intent to test, testing reports, or compliance certifications, shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete. Any reporting required by this permit shall be submitted to the following address:

Air Quality Permit Compliance
Department of Environmental Quality
Air Quality Manager
Boise Regional Office
1445 N. Orchard
Boise, ID 83706-2239
Phone: (208) 373-0550
Fax: (208) 373-0287

Fuel-burning Equipment

16. The permittee shall not discharge to the atmosphere from any fuel-burning equipment PM in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gas, 0.050 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid.

Sulfur Content

17. The permittee shall not sell, distribute, use, or make available for use any distillate fuel oil containing more than the following percentages of sulfur:
 - ASTM Grade 1 fuel oil - 0.3% by weight.
 - ASTM Grade 2 fuel oil - 0.5% by weight.
 - ASTM Grades 4, 5 and 6 fuel oil - 1.75% by weight.
18. The permittee shall maintain documentation of supplier verification of distillate fuel oil sulfur content on an as-received basis.

[February 26, 2010]

Air Stagnation Advisory Days

19. The permittee shall comply with the Air Pollution Emergency Rules in IDAPA 58.01.01.550-562.

Allowable Fuels

20. The following sources at the MPI-Apple Street and TEA sites shall burn natural gas exclusively: locomotive shop steam cleaner, component shop furnace, TEA Proceco parts washer, Maxom Tube-O-Therm evaporator, the Strip-Wash-Blast-Painting (SWBP) building heater, North Large Paint Shop heaters, and the East Paint Shop Building heaters.

[February 26, 2010]

Facility-Wide HAPs, VOC, NO_x, and Paint Throughput Limits and Monitoring

21. HAPs and VOC Emission Limits
 - Emissions of any single Hazardous Air Pollutant (HAP) from the entire facility (MPI Apple Street and TEA) shall be less than 10 tons per any consecutive 12-month period.
 - Emissions of any combination of HAPs from the entire facility (MPI Apple Street and TEA) shall be less than 25 tons per any consecutive 12-month period.
 - The VOC emissions from the painting operations at the entire facility (MPI Apple Street and TEA) shall not exceed 54.5 tons per any consecutive 12-month period.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and recordkeeping requirements.

[February 26, 2010]

22. Paint Throughput Limit

The maximum throughput of paint products (i.e., surface coatings, thinners, solvents, and cleaning materials) used at the entire facility shall not exceed 26,650 gallons per any consecutive 12-month period.

For 1,6 - hexamethylene diisocyanate:

- The maximum amount of MSDS 1828 paint product shall not exceed 22 gallons per day per paint shop. The content of 1,6-hexamethylene diisocyanate in MSDS 1828 shall be 0.08625 lbs/gal or less.
- The maximum amount of MSDS 966 paint product shall not exceed 2 gallons per day per paint shop. The content of 1,6-hexamethylene diisocyanate in MSDS 966 shall be 0.01870 lbs/gal or less.

- The maximum amount of MSDS 1769 paint product shall not exceed 22 gallons per day per paint shop. The content of 1,6-hexamethylene diisocyanate in MSDS 1769 shall be 0.01870 lbs/gal or less.
- The maximum amount of MSDS 3001 paint product shall not exceed 15 gallons per day per paint shop. The content of 1,6-hexamethylene diisocyanate in MSDS 3001 shall be 0.01820 lbs/gal or less.

Paint shop means South Large Paint Shop, North Large Paint Shop, or Small Paint Shop.

[February 26, 2010]

23. Required Paint Product Monitoring Information

The permittee shall monitor and record the following information for each and every paint product (i.e., surface coatings, thinners, solvents, and cleaning materials) used at the entire facility. Record of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

- The paint product name and manufacturer
- The Material Safety Data Sheet (MSDS) for all paint products used at the facility.

In instances where a modification is made to the MSDS, or the information in the MSDS is insufficient for a paint product, a copy of information provided by materials suppliers or manufacturers for the change, such as manufacturer's formulation data, or test data used to determine the quantity of VOCs, organic HAP, and density for the paint product shall be kept on site as well.

- The density of all paint products in pounds per gallon (lb/gal).
- The HAPs and VOC content, in percent by weight (wt %); or the HAPs and VOC content mass fraction, in pounds of HAPs per pound of paint (lb HAPs/lb paint) and pounds of VOC per pound of paint (lb VOC/lb paint).
- The solid and TAP contents in pounds per gallon as specified in the permit condition titled Solid and TAP Content in Paint Products.
- The paint product throughput each month and each year, in gallons per month and gallons per any consecutive 12-month period to demonstrate compliance with the Paint Throughput Limit Permit Condition.

24. HAPs and VOC Emissions Monitoring

Using the information monitored and recorded in the Paint Product Monitoring Information Permit Condition, the permittee shall calculate monthly and annually, all single HAPs, the total HAPs, and the total VOC emissions from the painting operations at the entire facility to demonstrate compliance with the HAPs and VOC Emission Limits Permit Condition. Annual emissions shall be determined by summing monthly emissions over the previous consecutive 12-month period. Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

Each month, the permittee shall calculate the HAPs and VOC emissions from the painting operations at the entire facility using the following calculation method or DEQ approved alternative method:

$$\text{Monthly HAPs and VOC emissions rate} = \sum G_i \times W_i \times \text{HAP}_i \text{ (or VOC}_i \text{) content}$$

Where,

Annual HAP(s) and VOC emissions rate = sum of the monthly HAP(s) and VOC emissions rate over the previous consecutive 12-month period.

G_i : For each paint product, the paint product throughput for the previous month, in gallons per month

W_i : For each paint product, the density of the paint product G_i , in lb/gal

HAP_{*i*} and VOC_{*i*} content: For each paint product, the HAP and VOC content of paint product G_i , in percent by weight HAP(s) and VOC as indicated in the MSDS provided by the painting manufacturer; or the HAP and VOC content of paint product G_i , in lb HAP/lb or lb VOC/lb of paint product as indicated in the MSDS provided by the paint product manufacturer. When a HAP or VOC content range provided in the MSDS, use the higher value of the range.

In any month where the annual emissions of any single HAP from the entire facility (MPI Apple Street and TEA) exceed 9 T/yr based on rolling 12-month, the permittee shall provide the name of the HAP, its emissions rate, and the related monitoring records to DEQ of the month.

[February 26, 2010]

25. NO_x Emission Limits

The oxides of nitrogen (NO_x) emissions from all combustion sources at the entire facility (MPI Apple Street and TEA) shall not exceed 54.75 tons per any consecutive 12-month period. The combustion sources at the facility shall include, but not limited to, compressor test stand engine, locomotive engine test cell, natural gas combustion sources, natural gas-fired emergency generator, diesel-fired fire pump, and liquefied petroleum gas heaters.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

26. Combustion Fuel Throughput

The maximum amount of natural gas fuel combusted at the entire facility shall not exceed 124.7 million cubic feet (MM ft³) per any consecutive 12-month period.

[February 26, 2010]

27. Natural Gas Fuel Meter

The permittee shall install, calibrate, maintain, and operate natural gas flow meters to measure the amount of natural gas combusted at the MPI Apple Street and at the TEA facilities.

[November 11, 2010]

28. Natural Gas Fuel Usage Monitoring

The permittee shall monitor and record the amount of natural gas combusted monthly and annually to demonstrate compliance with the Combustion Fuel Throughput Permit Condition. The amount of natural gas combusted shall be recorded in units of million cubic feet. Each month's amount of natural gas combusted shall be summed over the previous consecutive 12-month period.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[February 26, 2010]

29. Solid and TAP Content in Paint Products

The permittee shall only use a paint product meeting all of the following criteria:

- Except for MSDS 1828, MSDS 966, MSDS 1769, and MSDS 3001 paint products, the content of 1,6-hexamethylene diisocyanate of any paint product shall not exceed 0.01804 lb/gal and a daily maximum usage of 14 gallons.
- The TAP content of a paint product in lb/gal will be calculated by multiplying the paint density (lb/gal) and TAP content in weight percentage (wt%).
- The solid content of a paint product in lb/gal will be calculated by multiplying the paint density (lb/gal) and the solid content in weight percentage (wt%).
- The Daily Weighted Average solids content shall be calculated using the following equation:

$$\frac{[(Usage\ A\ (gal) * Solid\ Content\ A) + (Usage\ B\ (gal) * Solid\ Content\ B) + \dots (Usage\ n\ (gal) + Solid\ content\ n)]}{[Usage\ A + Usage\ B + \dots Usage\ n]}$$

Table 2 THROUGHPUT LIMITS FOR ALL PAINT SHOPS

Paint Shop	Booth	Daily Throughput Limit Originally Permitted
		gal/day
South Large Paint Shop	Booth 1	46
South Large Paint Shop	Booth 2	
North Large Paint Shop	Booth 3	46
North Large Paint Shop	Booth 4	
SWBP	Booth 5	25
Small Paint Shop	Booth 6	46

Table 3 PERMITTED HAPS

1,6-Hexamethylene Diisocyanate	Naphthalene
Acetaldehyde	Styrene
Acrolein	Toluene
Benz(a)anthracene	Xylene
Benzene	Arsenic
Benzo(b)fluoranthene	Beryllium
Benzo(k)fluoranthene	Cadmium
Bis(2-ethylhexyl)phthalate (DEHP)	Chromium ³⁺
Chrysene	Cobalt
Dibenz(a,h)anthracene	Manganese
Ethyl benzene	Mercury
Formaldehyde	Nickel
Hexane	Selenium
Indeno(1,2,3-cd)pyrene	Lead
Methanol	

Table 4 PERMITTED TAPS AND CONTENTS IN PAINT PRODUCTS

Toxic Air Pollutant	Worst-Case TAP Content (lb/gal)	Toxic Air Pollutant	Worst-Case TAP Content (lb/gal)
1,2,4-Trimethyl benzene	2.48	Methyl propyl ketone	1.75
1,6-Hexamethylene Diisocyanate ^a	--	Naphthalene	0.02
1-Methoxy-2-propyl acetate	7.66	n-Butyl glycidyl ether	0.66
2-Butoxyethanol	1.04	Petroleum distillate	2.04
Acetone	2.68	Petroleum distillate	1.53
Butyl acetate	7.02	Propylene glycol monomethyl ether acetate	5.04
Butyl alcohol	3.09	Styrene	0.04
Diisobutyl ketone	1.80	Toluene	3.97
Dipropylene glycol methyl ether	0.44	Xylene	6.01
Ethyl acetate	1.63	Aluminum	0.80
Ethyl Alcohol	0.09	Amorphous silica	0.25
Ethyl benzene	1.42	Calcium carbonate	4.31
Ethylene Glycol Monobutyl Ether	1.47	Carbon black	1.34
Heptane	0.34	Cristobalite	0.60
Hexane	0.46	Iron Oxide	0.54
Isobutyl acetate	2.43	Kaolin	1.82
Isophorone diisocyanate	0.08	Magnesium Carbonate	0.61
Isopropyl alcohol	2.68	Manganese Compounds	2.13
Methanol	0.87	Mica	2.83
Methoxypropanol	3.45	Quartz-crystalline silica	3.36
Methyl acetate	0.78	Zinc Compounds	0.34
Methyl amyl ketone	7.66	Zinc Oxide	1.39
Methyl ethyl ketone	6.75	Ethylene Glycol Monobutyl Ether Acetate	1.34
Bis(2-ethylhexyl)phthalate (DEHP)	0.46	Benzene	0.01

a. 1,6 Hexamethylene Diisocyanate has specific limits and daily maximum usage rates for four MSDS. These limits can be found in Permit Condition 22. All other paint products containing 1,6 Hexamethylene Diisocyanate are limited to the first bullet in Permit Condition 29.

Table 5 PERMITTED TAPS AND CONTENTS IN PAINT PRODUCTS

Toxic Air Pollutant	Second Worst-Case TAP Content (lb/gal)
1,2,4-Trimethyl benzene	1.58
1,6-Hexamethylene Diisocyanate ^a	--
1-Methoxy-2-propyl acetate	4.62
Isophorone Diisocyanate	0.05
Methyl Amyl Ketone	3.30
Propylene Glycol Monomethyl Ether Acetate	4.62
Xylene	5.63

a. 1,6 Hexamethylene Diisocyanate has specific limits and daily maximum usage rates for four MSDS. These limits can be found in Permit Condition 22. All other paint products containing 1,6 Hexamethylene Diisocyanate are limited to the first bullet in Permit Condition 29.

[September 22, 2011]

30. New Paint Product with Permitted TAPs (Scenario C)

A new paint product qualifies as Scenario C if all of the following is true:

- All TAPs from new paint product is permitted as stated in Table 4
- All constituents have a TAP content less than the Worst Case value as defined in Table 4.
- The maximum allowable (gal/day) for any one paint product per Paint Shop is never actually reached.
 - Less than 46 gal/day for the North, South, Small and East Paint Shops
 - Less than 25 gal/day for the SWBP Paint Shop
 - Less than 20 gal/day for the Spray Paint Shop

If the new paint product qualifies under Scenario C, the new paint product shall be logged, a record of the TAP content calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

31. New Paint Product with Permitted TAPs (Scenario D)

A new paint product qualifies as Scenario D if all of the following is true:

- All TAPs from new paint product is permitted as stated in Table 4
- All constituents have a TAP content less than the Worst Case value as defined in Table 4.
- The maximum allowable (gal/day) for any one paint product per Paint Shop is reached.
 - 46 gal/day for the North, South, Small and East Paint Shops
 - 25 gal/day for the SWBP Paint Shop
 - 20 gal/day for the Spray Paint Shop
- Use of a second paint product containing a TAP identified in Table 5. The second Worst Case TAP content shall be the limit for the remaining allowable gal/day.
 - 29 gal/day total for all remaining paint products for North, South, Small Paint Shops
 - 25 gal/day total for all remaining paint products for SWBP Paint Shop
- If the second paint product does not contain a TAP identified in Table 5, the Worst Case TAP content (Table 4) shall be the limit for the remaining allowable gal/day.

If the new paint product qualifies under Scenario D, the new paint product shall be logged, a record of the TAP content calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

32. New Paint Products Containing Permitted TAPs (Scenario E)

A new paint product qualifies as Scenario E if all of the following is true:

- All TAPs from new paint product is permitted as stated in Table 4
- One or more constituents have a TAP content that **exceed** the Worst Case value as defined in Table 4.
- Determine the appropriate daily usage limit according to the following equation:

For South Large Paint Shop – Booths 1 & 2

For North Large Paint Shop – Booths 3 & 4

For Small Paint Shop – Booth 6

For East Paint Shop – Booths 8 & 9

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 46 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

For SWBP – Booth 5

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 25 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

For Spray Paint Booth – Booth 7

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 20 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

- The actual usage rate never reaches the newly calculated maximum allowable for any one paint product per Paint Shop gal/day.

If the new paint product qualifies under Scenario E, the new paint product shall be logged, a record of the TAP content calculation shall be maintained, a newly daily maximum gal/day calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

33. New Paint Products Containing Permitted TAPs (Scenario F)

A new paint product qualifies as Scenario F if all of the following is true:

- All TAPs from new paint product is permitted as stated in Table 4
- One or more constituents have a TAP content that **exceed** the Worst Case value as defined in Table 4.
- Determine the appropriate daily usage limit according to the following equation:

For South Large Paint Shop – Booths 1 & 2

For North Large Paint Shop – Booths 3 & 4

For Small Paint Shop – Booth 6

For East Paint Shop – Booths 8 & 9

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 46 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

For SWBP – Booth 5

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 25 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

For Spray Paint Booth – Booth 7

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 20 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

TAP Content New Paint (lb/gal)

- The actual usage rate reaches the newly calculated maximum allowable for any one paint product per Paint Shop gal/day.
- Use of a second paint product containing a TAP identified in Table 5. The second Worst Case TAP content shall be the limit for the remaining allowable gal/day.
 - 29 gal/day total for all remaining paint products for North, South, Small Paint Shops
 - 25 gal/day total for all remaining paint products for SWBP Paint Shop
- If the second paint product does not contain a TAP identified in Table 5, the Worst Case TAP content (Table 4) shall be the limit for the remaining allowable gal/day.

If the new paint product qualifies under Scenario F, the new paint product shall be logged, a record of the TAP content calculation shall be maintained, a newly daily maximum gal/day calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

34. New Paint Products Containing New Non-Carcinogenic TAPs Usage (Scenario G)

A new paint product qualifies as Scenario G if all of the following is true

- A new Non-Carcinogenic TAP (not in Table 4) is included in a new paint product.
- Determine the facility-wide contribution and compare to the Screening Emission Level (EL) in IDAPA 58.01.01.585 using the following equation:

For South Large Paint Shop – Booths 1 & 2

For North Large Paint Shop – Booths 3 & 4

For Small Paint Shop – Booth 6

For East Paint Shop – Booths 8 & 9

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 46 \text{ gallons per day}}{100} / 24 \text{ hrs} = \text{TAP lb/hr}$$

For SWBP – Booth 5

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 25 \text{ gallons per day}}{100} / 24 \text{ hrs} = \text{TAP lb/hr}$$

For Spray Paint Booth – Booth 7

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 20 \text{ gallons per day}}{100} / 24 \text{ hrs} = \text{TAP lb/hr}$$

North + South + Small + SWBP + Spray + East (when constructed) = Total lb/hr

Total lb/hr shall be compared to 585 EL in IDAPA 58.01.01.585.

- If the facility-wide emissions of the new TAP are below the EL then its use is allowed.
- If the facility-wide emissions of the new TAP are above the EL then the permittee must perform one of the following actions in order to use a paint product that contains the new TAP.
 - Perform an exemption determination in accordance with IDAPA 58.01.01.223 and submit the results to DEQ for concurrence. This determination would include a modeling demonstration.
 - Submit an application for a permit modification to include the new TAP.

If the new paint product qualifies under Scenario G, the new paint product shall be logged, a record of the TAP content calculation shall be maintained, facility-wide lb/hr calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

35. New Paint Products Containing New Carcinogenic TAPs Usage (Scenario G)

A new paint product qualifies as Scenario G if all of the following is true

- A new Carcinogenic TAP (not in Table 4) is included in a new paint product.
- Determine the facility-wide contribution and compare it to the Screening Emission Level (EL) in IDAPA 58.01.01.586 using the following equation:

For North & South Large Paint Shop – Booths 1-4

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 16,000 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

For SWBP – Booth 5

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 10,500 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

For Small Paint Shop – Booth 6

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 5,000 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

For Spray Paint Booth – Booth 7

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 3,000 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

For East Paint Shop – Booths 8 & 9

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 5,850 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

North + South + Small + SWBP + Spray + East (when constructed) = Total lb/hr

Total lb/hr shall be compared to 586 EL in IDAPA 58.01.01.586.

- If the facility-wide emissions of the new TAP are below the EL then its use is allowed.
- If the facility-wide emissions of the new TAP are above the EL then the permittee must perform one of the following actions in order to use a paint product that contains the new TAP.
 - Perform an exemption determination in accordance with IDAPA 58.01.01.223 and submit the results to DEQ for concurrence. This determination would include a modeling demonstration.
 - Submit an application for a permit modification to include the new TAP.

If the new paint product qualifies under Scenario G, the new paint product shall be logged, a record of the TAP content calculation shall be maintained, facility-wide lb/hr calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

36. New Paint Products Recordkeeping & Reporting

If a new paint product is added to the paint inventory, the permittee shall also maintain a record of the scenario(s) under which the new paint qualifies. These records shall be maintained daily.

[November 11, 2010]

40 CFR 63 SUBPART HHHHHH—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: PAINT STRIPPING AND MISCELLANEOUS SURFACE COATING OPERATIONS AT AREA SOURCES

37. 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Surface Coating Operations, General Compliance Requirements

Unless an exemption from the EPA has been granted to this facility in accordance with 40 CFR 63.11170 (a)(2), in accordance with 40 CFR 63.11172(a)(2), on and after January 10, 2011 the permittee shall comply with the applicable emission limitations and requirements of the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH.

- The permittee shall meet the requirements of 40 CFR 63.11173(e)(1). All painters must be certified that they have completed training in the proper spray application of surface coatings and the proper setup and maintenance of spray equipment. The minimum requirements for training and certification are described in 40 CFR 63.11173(f). The spray application of surface coatings is prohibited by persons who are not certified as having completed the training described in 40 CFR 63.11173(f).
- All spray-applied coatings must be applied in a spray booth, preparation station, or mobile enclosure that meets the requirements of 40 CFR 63.11173(e)(2).
 - All spray booths, preparation stations, and mobile enclosures must be fitted with a type of filter technology that is demonstrated to achieve at least 98% capture of paint overspray. The procedure used to demonstrate filter efficiency must be consistent with the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Method 52.1.
 - Spray booths and preparation stations used to refinish complete motor vehicles or mobile equipment must be fully enclosed with a full roof, and four complete walls or complete side curtains, and must be ventilated at negative pressure so that air is drawn into any openings in the booth walls or preparation station curtains. However, if a spray booth is fully enclosed and has seals on all doors and other openings and has an automatic pressure balancing system, it may be operated at up to, but not more than, 0.05 inches water gauge positive pressure.
 - Spray booths and preparation stations that are used to coat miscellaneous parts and products or vehicle subassemblies must have a full roof, at least three complete walls or complete side curtains, and must be ventilated so that air is drawn into the booth. The walls and roof of a booth may have openings, if needed, to allow for conveyors and parts to pass through the booth during the coating process.
- All spray-applied coatings must be applied with a high volume, low pressure (HVLP) spray gun, electrostatic application, airless spray gun, or air-assisted airless spray gun, in accordance with 40 CFR 63.11173(e)(3).
- All paint spray gun cleaning must be done so that an atomized mist or spray of gun cleaning solvent and paint residue is not created outside of a container that collects used gun cleaning solvent, in accordance with 40 CFR 63.11173(e)(4). Spray gun cleaning may be done by using a fully enclosed spray gun washer.
- Each owner or operator must ensure and certify that all new and existing personnel, including contract personnel, who spray apply surface coatings, as defined in 40 CFR 63.11180, are trained in the proper application of surface coatings as required by 40 CFR 63.11173(e)(1), in accordance with 40 CFR 63.11173(f). The training program must include, at a minimum:
 - A list of all current personnel by name and job description who are required to be trained;
 - Hands-on and classroom instruction that addresses, at a minimum, initial and refresher training in the following topics:

Spray gun equipment selection, set up, and operation, including measuring coating viscosity, selecting the proper fluid tip or nozzle, and achieving the proper spray pattern, air pressure and volume, and fluid delivery rate;

Spray technique for different types of coatings to improve transfer efficiency and minimize coating usage and overspray, including maintaining the correct spray gun distance and angle to the part, using proper banding and overlap, and reducing lead and lag spraying at the beginning and end of each stroke;

Routine spray booth and filter maintenance, including filter selection and installation; and

Environmental compliance with the requirements of 40 CFR 63, Subpart HHHHHH.

- A description of the methods to be used at the completion of initial or refresher training to demonstrate, document, and provide certification of successful completion of the required training.
- All new and existing personnel at the facility, including contract personnel, who spray apply surface coatings, as defined in 40 CFR 63.11180, must be trained by the dates specified in 40 CFR 63.11173(g). Employees who transfer within a company to a position as a painter are subject to the same requirements as a new hire.
 - All personnel must be trained and certified no later than 180 days after hiring or no later than January 10, 2011, whichever is later. Painter training that was completed within five years prior to the date training is required, and that meets the requirements specified in 40 CFR 63.11173(f)(2) of this section satisfies this requirement and is valid for a period not to exceed five years after the date the training is completed.
 - Training and certification will be valid for a period not to exceed five years after the date the training is completed, and all personnel must receive refresher training that meets the requirements of this section and be re-certified every five years.
- The parts of the General Provisions which apply to the permittee are specified in Table 6, in accordance with 40 CFR 63.11174(a).

Table 6 APPLICABILITY OF GENERAL PROVISIONS TO SUBPART HHHHHH OF PART 63

Citation	Subject	Explanation
40 CFR 63.1(a)(1)-(12)	General Applicability	
40 CFR 63.1(b)(1)-(3)	Initial Applicability Determination	Applicability of subpart HHHHHH is also specified in 40 CFR 63.11170.
40 CFR 63.1(c)(1)	Applicability After Standard Established	
40 CFR 63.1(c)(2)	Applicability of Permit Program for Area Sources	
40 CFR 63.1(c)(5)	Notifications	
40 CFR 63.2	Definitions	Additional definitions are specified in 40 CFR 63.11180.
40 CFR 63.3(a)-(c)	Units and Abbreviations	
40 CFR 63.4(a)(1)-(5)	Prohibited Activities	
40 CFR 63.4(b)-(c)	Circumvention/Fragmentation	
40 CFR 63.6(a)	Compliance With Standards and Maintenance Requirements—Applicability	
40 CFR 63.6(b)(1)-(7)	Compliance Dates for New and Reconstructed Sources	40 CFR 63.11172 specifies the compliance dates.
40 CFR 63.6(c)(1)-(5)	Compliance Dates for Existing Sources	40 CFR 63.11172 specifies the compliance dates.
40 CFR 63.6(e)(1)-(2)	Operation and Maintenance	
40 CFR 63.6(f)(1)	Compliance Except During Startup, Shutdown, and Malfunction	
40 CFR 63.6(f)(2)-(3)	Methods for Determining Compliance	
40 CFR 63.6(g)(1)-(3)	Use of an Alternative Standard	
40 CFR 63.6(i)(1)-(16)	Extension of Compliance	
40 CFR 63.6(j)	Presidential Compliance Exemption	

Citation	Subject	Explanation
40 CFR 63.9(a)-(d)	Notification Requirements	40 CFR 63.11175 specifies notification requirements.
40 CFR 63.9(i)	Adjustment of Submittal Deadlines	
40 CFR 63.9(j)	Change in Previous Information	40 CFR 63.11176(a) specifies the dates for submitting the notification of changes report.
40 CFR 63.10(a)	Recordkeeping/Reporting—Applicability and General Information	
40 CFR 63.10(b)(1)	General Recordkeeping Requirements	Additional requirements are specified in 40 CFR 63.11177.
40 CFR 63.10(b)(2)(xii)	Waiver of recordkeeping requirements	
40 CFR 63.10(b)(2)(xiv)	Records supporting notifications	
40 CFR 63.10(b)(3)	Recordkeeping Requirements for Applicability Determinations	
40 CFR 63.10(d)(1)	General Reporting Requirements	Additional requirements are specified in 40 CFR 63.11176.
40 CFR 63.10(d)(4)	Progress Reports for Sources With Compliance Extensions	
40 CFR 63.10(f)	Recordkeeping/Reporting Waiver	
40 CFR 63.12	State Authority and Delegations	
40 CFR 63.13	Addresses of State Air Pollution Control Agencies and EPA Regional Offices	
40 CFR 63.14	Incorporation by Reference	Test methods for measuring paint booth filter efficiency and spray gun transfer efficiency in 40 CFR 63.11173(e)(2) and (3) are incorporated and included in 40 CFR 63.14.
40 CFR 63.15	Availability of Information/Confidentiality	
40 CFR 63.16(a)	Performance Track Provisions—reduced reporting	

[November 11, 2010]

38. 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Surface Coating Operations, Recordkeeping Requirements

Unless an exemption from the EPA has been granted to this facility in accordance with 40 CFR 63.11170 (a)(2), in accordance with 40 CFR 63.11172(a)(2), on and after January 10, 2011 the permittee shall comply with the applicable emission limitations and requirements of the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH.

- The permittee shall keep the following records in accordance with 40 CFR 63.11177(a) through (d) and (h).
 - Certification that each painter has completed the training specified in 40 CFR 63.11173(f) with the date the initial training and the most recent refresher training was completed.
 - Documentation of the filter efficiency of any spray booth exhaust filter material, according to the procedure in 40 CFR 63.11173(e)(2).
 - Copies of any notification submitted as required by 40 CFR 63.11175 and copies of any report submitted as required by 40 CFR 63.11176.
 - Records of any deviation from the requirements in 40 CFR 63.11173, 63.11174, 63.11175, or 63.11176. These records must include the date and time period of the deviation, and a description of the nature of the deviation and the actions taken to correct the deviation.
 - Records of any assessments of source compliance performed in support of the initial notification, notification of compliance status, or annual notification of changes report.

- The permittee shall maintain copies of the records specified in 40 CFR 63.11177 for a period of at least five years after the date of each record in accordance with 40 CFR 63.11178(a). Copies of records must be kept on site and in a printed or electronic form that is readily accessible for inspection for at least the first two years after their date, and may be kept off-site after that two year period.
- In accordance with 40 CFR 63.11178(a), the permittee shall maintain copies of the records specified in 40 CFR 63.11177 for a period of at least five years after the date of each record. Copies of records must be kept on site and in a printed or electronic form that is readily accessible for inspection for at least the first two years after their date, and may be kept off-site after that two year period.

[November 11, 2010]

39. Incorporation of Federal Requirements by Reference

Unless expressly provided otherwise, any reference in this permit to any document identified in IDAPA 58.01.01.107.03 shall constitute the full incorporation into this permit of that document for the purposes of the reference, including any notes and appendices therein. Documents include, but are not limited to:

- National Emission Standards for Hazardous Air Pollutants (NESHAP) Area Sources, 40 CFR Part 63, Subpart HHHHHH.

For permit conditions referencing or cited in accordance with any document incorporated by reference (including permit conditions identified as NESHAP), should there be any conflict between the requirements of the permit condition and the requirements of the document, the requirements of the document shall govern, including any amendments to that regulation.

[November 11, 2010]

40. 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Surface Coating Operations, Notifications

Unless an exemption from the EPA has been granted to this facility in accordance with 40 CFR 63.11170 (a)(2), in accordance with 40 CFR 63.11172(a)(2), on and after January 10, 2011 the permittee shall comply with the applicable emission limitations and requirements of the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH.

- Initial Notification. The permittee must submit the initial notification required by 40 CFR 63.9(b) in accordance with 40 CFR 63.11175(a). For this existing source, you must submit the Initial Notification no later than January 11, 2010. The initial notification must provide the following information.
 - The company name, if applicable;
 - The name, title, street address, telephone number, e-mail address (if available), and signature of the owner and operator, or other certifying company official;
 - The street address (physical location) of the affected source and the street address where compliance records are maintained, if different.
 - An identification of the relevant standard, such as 40 CFR part 63, Subpart HHHHHH;
 - A brief description of the type of operation. For all surface coating operations, indicate whether the source is a motor vehicle and mobile equipment surface coating operation or a miscellaneous surface coating operation, and include the number of spray booths and preparation stations, and the number of painters usually employed at the operation.
 - A statement of whether the source is already in compliance with each of the relevant requirements of this subpart, or whether the source will be brought into compliance by the compliance date.

- The permittee must certify in the initial notification whether the source is in compliance with each of the requirements of 40 CFR 63, Subpart HHHHHH. If the permittee is certifying in the initial notification that the source is in compliance with the relevant requirements of this subpart, then include also a statement by a responsible official with that official's name, title, phone number, email address (if available) and signature, certifying the truth, accuracy, and completeness of the notification, a statement that the source has complied with all the relevant standards of this subpart, and that this initial notification also serves as the notification of compliance status.
- Notification of Compliance Status. The permittee is not required to submit a separate notification of compliance status in addition to the initial notification provided the permittee was able to certify compliance on the date of the initial notification as part of the initial notification, and the permittee's compliance status has not since changed in accordance with 40 CFR 63.11175(b). The permittee must submit a Notification of Compliance Status by March 11, 2011. The permittee is required to submit the following information with the Notification of Compliance Status:
 - The company's name and the street address (physical location) of the affected source and the street address where compliance records are maintained, if different.
 - The name, title, address, telephone, e-mail address (if available) and signature of the owner and operator, or other certifying company official, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart or an explanation of any noncompliance and a description of corrective actions being taken to achieve compliance. For surface coating operations, the relevant requirements are specified in 40 CFR 63.11173(e) through (g).
 - The date of the Notification of Compliance Status.

[November 11, 2010]

41. 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Surface Coating Operations, Reports

Unless an exemption from the EPA has been granted to this facility in accordance with 40 CFR 63.11170 (a)(2), in accordance with 40 CFR 63.11172(a)(2), on and after January 10, 2011 the permittee shall comply with the applicable emission limitations and requirements of the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH

- Annual Notification of Changes Report. In accordance with 40 CFR 63.11176, the permittee is required to submit a report in each calendar year in which information previously submitted in either the initial notification required by 40 CFR 63.11175(a), Notification of Compliance, or a previous annual notification of changes report submitted has changed. Deviations from the relevant requirements in 40 CFR 63.11173(a) through (d) or 40 CFR 63.11173(e) through (g) on the date of the report will be deemed to be a change. The annual notification of changes report must be submitted prior to March 1 of each calendar year when reportable changes have occurred and must include the following information.
 - The company's name and the street address (physical location) of the affected source and the street address where compliance records are maintained, if different.
 - The name, title, address, telephone, e-mail address (if available) and signature of the owner and operator, or other certifying company official, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart or an explanation of any noncompliance and a description of corrective actions being taken to achieve compliance.

- Any notifications or reporting required by the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH or Subpart A – General Provisions shall be submitted to both of the following addresses in accordance with 40 CFR 63.13:

EPA Region 10
Director, Office of Air Quality
1200 Sixth Avenue
(OAQ-107)
Seattle, WA 98101

And,

Air Quality Permit Compliance
Department of Environmental Quality
Boise Regional Office
1445 N. Orchard Street
Boise, ID 83706
Phone: (208) 373-0550
Fax: (208) 373-0287

[November 11, 2010]

SOUTH LARGE PAINT SHOP – PAINT BOOTHS #1 & #2

42. Process Description

The South Large Paint Shop is located in the southwestern corner of the MPI Apple Street facility, adjacent to the North Large Paint Shop. The paint shop is used to paint manufactured or remanufactured locomotives. The South Large Paint Shop is comprised of two booths (the east and the west booth). The western booth exhausts at height of 31 ft through two stacks, each with average flow rate of 17,500 actual cubic feet per minute (acfm). The eastern booth exhausts at height of 27 ft through two stacks, each with average flow rate of 12,900 acfm.

43. Emissions Control Description

The PM₁₀ emissions from both sets of vents are controlled by a bank of filters having a control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

Emission Limits

44. Emission Limits

The PM₁₀ emissions from each spray booth stack of the South Large Paint Shop shall not exceed 0.2545 pound per day (lb/day).

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and recordkeeping requirements.

[February 26, 2010]

Operating Requirements

45. Paint Throughput Limit

The maximum amount of each individual paint product shall not exceed 46 gallons per day.

The maximum amount of all paint products sprayed at the South Large Paint Shop shall not exceed 75 gallons per day (gal/day).

The maximum amount of all paint products sprayed at the South Large Paint Shop shall not exceed 16,000 gallons per any consecutive 12-month period (gal/yr).

The Daily Weighted Average solids content of all paint products sprayed at the South Large Paint Shop shall not exceed 8.16 lb/gal.

[September 22, 2011]

46. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across each of the spray paint booth filter systems.

47. O&M Manual

The permittee shall have developed an operation and maintenance manual for the South Large Paint Shop's air pollution control equipment according to manufacturer specifications and recommendations. The pressure drop across the paint filtration systems shall be maintained within manufacturer and O&M manual specifications. The pressure drop across both air pollution control systems shall be monitored and recorded daily. The O&M manual shall address the operation, maintenance, and repair of the South Large Paint Shop's air pollution control systems and shall, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the South Large Paint Shop's air pollution control equipment in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

48. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the following information in records:

- The total amount of paint products sprayed in the South Large Paint Shop in gallons per day and gallons per year to demonstrate compliance with the emissions and throughput limit permit conditions. Annual throughput shall be determined by summing each monthly throughput over the previous 12-month period.
- The pressure drop across each spray paint booth filter system shall be recorded once per week when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The amount of each individual paint product sprayed in the South Large Paint Shop in gallons per day to demonstrate compliance with the paint throughput limit permit condition.
- The Daily Weighted Average solids content of all paint products sprayed at the South Large Paint shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

49. Control Efficiency Documentation

The permittee shall document that the control efficiency of the bank of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

NORTH LARGE PAINT SHOP – PAINT BOOTHS #3 & #4

50. Process Description

The North Large Paint Shop is located in the southwest corner of the MPI Apple Street facility. The North Large Paint Shop contains two paint booths used to paint locomotives or component parts. Each booth is equipped with a 48,400 acfm air handling system. Emissions from each booth are vented through two stacks, each 39 ft above ground level.

51. Emissions Control Description

The PM₁₀ emissions from both booths are controlled by a bank of filters having a particulate control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

Emission Limits

52. Emission Limits

The PM₁₀ from each spray booth stack of the North Large Paint Shop shall not exceed 0.2545 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

53. Paint Throughput Limit

The maximum amount of each individual paint product shall not exceed 46 gal/day.

The maximum amount of all paint products sprayed at the North Large Paint Shop shall not exceed 75 gal/day.

The maximum amount of all paint products sprayed at the North Large Paint Shop shall not exceed 16,000 gal/yr.

The Daily Weighted Average solids content of all paint products sprayed at the North Large Paint Shop shall not exceed 8.16 lb/gal.

[September 22, 2011]

54. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the exhaust filters in each paint booth.

55. O&M Manual

The permittee shall have developed an operation and maintenance manual for the North Large Paint Shop's air pollution control equipment according to manufacturer specifications and recommendations. The O&M manual shall address the operation, maintenance, and repair of the North Large Paint Shop's air pollution control systems and shall include, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall stipulate that all filter pads be replaced according to manufacturer specifications and recommendations. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the North Large Paint Shop's air pollution control equipment in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

56. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the following information in records:

- The total amount of paint products sprayed in the North Large Paint Shop in gallons per day and gallons per year to demonstrate compliance with the emissions and throughput limit permit conditions. Annual throughput shall be determined by summing each monthly throughput over the previous 12-month period.
- The pressure drop across each spray paint booth filter system shall be recorded once per week when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The amount of each individual paint product sprayed in the North Large Paint Shop in gallons per day to demonstrate compliance with the paint throughput limit permit condition.
- The Daily Weighted Average solids content of all paint products sprayed at the North Large Paint Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

57. Control Efficiency Documentation

The permittee shall document that the control efficiency of the bank of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

STRIP-WASH-BLAST-PAINT BUILDING - PAINT BOOTH #5

58. Process Description

The Strip-Wash-Blast-Paint (SWBP) Building is located near the northern property boundary of the MPI Apple Street facility. The building is comprised of four separate sections, including a strip section, a wash section, an abrasive shot blasting and primer painting section, and a mechanical and locker/break room section. The strip section is designed for the disassembly of locomotives. The wash section is used to wash the locomotive frame, car body, and miscellaneous equipment. Minor welding takes place in the mechanical room. The blast and paint section is used for steel-grit blasting of locomotive frames and components to remove old paint and rust. The booth is designed so that either painting or blasting can occur at any one time, but never simultaneously. Blasting and primer painting make-up air is provided by two, 4.5 MMBtu/hr natural gas-fired heaters. The dual-use shot-blasting/primer booth has a separate exhaust system for shot-blasting and painting. Emissions from each booth are vented through two stacks, each with an average flow rate of 31,380 acfm. Permit conditions specific to blasting operations in Booth #5 are contained in Permit Conditions 91 through 96.

[September 22, 2011]

59. Emissions Control Description

The PM₁₀ emissions from the painting operation at the SWBP building are controlled by a paint-arrestor filter system with a control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

[September 22, 2011]

Emission Limits

60. Emission Limits

The PM₁₀ emissions from each spray booth stack at the SWBP building shall not exceed 0.1616 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[September 22, 2011]

Operating Requirements

61. Paint Throughput Limit

The permittee shall comply with the following limits:

- The maximum amount of each individual paint product shall not exceed 25 gal/day.
- The total amount of all paint products containing 1,6 - hexamethylene diisocyanate shall not exceed 25 gal/day.
- The maximum amount of paint products used at the paint booth shall not exceed 50 gal/day.
- The maximum amount of paint products used at the paint booth shall not exceed 10,500 gal/yr.
- Paint products that contain cadmium or chromium shall not be used in the paint booth, as per applicant submittal.
- The Daily Weighted Average solids content of all paint products sprayed at the SWBP Paint Shop shall not exceed 8.16 lb/gal.

[September 22, 2011]

62. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the paint-arrestor filter system.

[September 22, 2011]

63. O&M Manual

The permittee shall have developed an operation and maintenance manual for the air pollution control equipment of the SWBP building according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The pressure drop across the air pollution control equipment shall be monitored and recorded once daily. The O&M manual shall address the operation, maintenance, and repair of the SWBP building air pollution control equipment and shall, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the air pollution control equipment of the SWBP building in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

64. Recordkeeping Requirements

The permittee shall monitor and record the following information in records:

- For each paint product used in the paint booth, record the usage rate in gallons per month (gal/mo) and gallons per year.
- For each paint product used in the paint booth, record the VOC content in pounds per gallon (lb/gal).
- For each paint product used in the paint booth, calculate and record the VOC usage in pounds per month (lb/mo). To calculate the VOC usage, multiply the usage rate (gal/mo) by the VOC content (lb/gal) for each paint product used.
- Once monthly, calculate and record the total amount of VOC usage of the paint booth in pounds per month. To calculate the total VOC usage, add all of the individual VOC usage amounts for each paint product that was recorded in the bullet point above. This VOC usage amount will then be used to demonstrate compliance with the facility-wide VOC limit permit condition.
- The pressure drop across the paint-arrestor filter system once on a daily basis when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The amount of each individual paint product sprayed in the Strip-Wash-Blast-Paint building in gallons per day to demonstrate compliance with the paint throughput limit permit condition.
- The total amount of all paint products containing 1,6 - hexamethylene diisocyanate in gallons per day to demonstrate compliance with the paint throughput limit permit condition (bullet point#2).
- The Daily Weighted Average solids content of all paint products sprayed at the SWBP Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

65. Control Efficiency Documentation

The permittee shall document that the control efficiency of a pulse-jet dust collector system and the paint-arrestor filter system meets the control efficiency specified in the emissions control description permit condition, respectively.

[February 26, 2010]

SMALL PAINT SHOP – PAINT BOOTH #6

66. Process Description

The Small Paint Shop is located in the central portion of the MPI Apple Street facility. The shop contains one paint booth and is used to paint small parts, car bodies, high voltage cabinets, locomotive fuel tanks, and various other locomotive parts. The booth exhausts at a height of 23 ft through two stacks, each with an average flow rate of 17,500 acfm. The booth is heated by 0.96 MMBtu/hr heaters to cure freshly applied paint.

67. Emissions Control Description

The PM₁₀ emissions from the paint booth are controlled by a bank of filters with a control efficiency of 99.58%. The VOC emissions are uncontrolled.

Emission Limits

68. Emission Limits

The PM₁₀ emissions from each Small Paint Shop stack shall not exceed 0.51 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

69. Paint Throughput Limit

The maximum amount of each individual paint product shall not exceed 46 gal/day.

The maximum amount of all paint products sprayed at the Small Paint Shop shall not exceed 75 gal/day.

The maximum amount of all paint products sprayed at the Small Paint Shop shall not exceed 5,000 gal/yr.

The Daily Weighted Average solids content of all paint products sprayed at the Small Paint Shop shall not exceed 8.16 lb/gal.

[September 22, 2011]

70. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the Small Paint Booth filter system.

71. O&M Manual

The permittee shall have developed an operation and maintenance manual for the air pollution control equipment of the Small Paint Shop according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The pressure drop across both air pollution control equipment shall be monitored and recorded once daily. The O&M manual shall address the operation, maintenance, and repair of the Small Paint Shop's air pollution control equipment and shall, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the air pollution control equipment of the Small Paint Shop in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

72. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the following information in records:

- The total amount of paint products sprayed in the Small Paint Shop in gallons per day and gallons per year to demonstrate compliance with the emissions and throughput limit permit conditions. Annual throughput shall be determined by summing each monthly throughput over the previous 12-month period.
- The pressure drop across the spray paint booth filter system shall be recorded once per day when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The amount of each individual paint product sprayed in the Small Paint Shop in gallons per day to demonstrate compliance with the paint throughput limit permit condition.
- The Daily Weighted Average solids content of all paint products sprayed at the Small Paint Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

73. Control Efficiency Documentation

The permittee shall document that the control efficiency of the bank of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

SPRAY PAINT BOOTH – PAINT BOOTH #7

74. Process Description

The Spray Paint Booth is located in the northeast section of the Truck and Engine Annex (TEA) building at Braniff Street. It is a Protectaire Model 530 DTT. The spray booth is used for painting locomotive engines and trucks. There is one exhaust stack that vents from the TEA paint booth. The stack exhausts at height of 35 ft, with an average flow rate of 23,400 acfm.

75. Emissions Control Description

The PM₁₀ emissions from the Spray Paint Booth are controlled by a bank of filters with a control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

Emission Limits

76. Emission Limits

The PM₁₀ emissions from the Spray Paint Booth stack shall not exceed 0.2714 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

77. Paint Throughput Limit

The maximum amount of all paint products sprayed at the Spray Paint Booth shall not exceed 20 gal/day.

The maximum amount of all paint products sprayed at the Spray Paint Booth shall not exceed 3,000 gal/yr.

The Daily Weighted Average solids content of all paint products sprayed at the Spray Paint Booth shall not exceed 8.16 lb/gal.

[September 22, 2011]

78. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the Spray Paint Booth filter system.

79. O&M Manual

The permittee shall have developed an operation and maintenance manual for the air pollution control equipment of the Spray Paint Booth according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The pressure drop across both air pollution control equipment shall be monitored and recorded once daily. The O&M manual shall address the operation, maintenance, and repair of the Spray Paint Booth's air pollution control equipment and shall, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the air pollution control equipment of the Spray Paint Booth in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

80. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the following information in records:

- The total amount of paint products sprayed in the Spray Paint Booth in gallons per day and gallons per year to demonstrate compliance with the emissions and throughput limit permit conditions. Annual throughput shall be determined by summing each monthly throughput over the previous 12-month period.
- The pressure drop across the spray paint booth filter system shall be recorded once per day when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The Daily Weighted Average solids content of all paint products sprayed at the Spray Paint Booth Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

81. Control Efficiency Documentation

The permittee shall document that the control efficiency of the bank of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

EAST PAINT SHOP BUILDING – PAINT BOOTHS #8 AND #9

82. Process Description

The East Paint Shop Building is located south of the SWBP building at the MPI Apple Street. The paint shop is used to apply paint products to locomotive components and parts (i.e., hoods, cabs, etc.). The East Paint Shop contains two fully enclosed spray paint booths manufactured by Spray Booth Systems (SBS), Model No. SBS 2346-889. Each paint booth is 20 ft wide x 21 ft high and 80 ft long. Each booth exhausts to two stacks, each 36 ft above ground with average flow rate of 21,000 acfm. The shop also contains two natural gas fired heaters each with a rated heat input capacity of 3.3 MMBtu/hr.

83. Emissions Control Description

The PM₁₀ emissions from the East Paint Shop are controlled by two banks of filters with a control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

Emission Limits

84. Emission Limits

The PM₁₀ emissions from each the Spray Paint Booth stack shall not exceed 0.8313 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

85. Paint Throughput Limit

The maximum amount of any one paint product sprayed at the East Paint Shop Building shall not exceed 46 gallons per day.

The maximum amount of all paint products sprayed at the East Paint Shop Building shall not exceed 46 gallons per day.

The maximum amount of paint products sprayed at the East Paint Shop Building shall not exceed 5,850 gal/yr.

The Daily Weighted Average solids content of all paint products sprayed at the East Paint Booth shall not exceed 8.16 lb/gal.

[September 22, 2011]

86. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the Spray Paint Booth filter system.

87. O&M Manual

Within 60 days of startup, the permittee shall have developed an operation and maintenance manual for each spray paint booth filter system of the East Paint Shop according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The manual shall contain at a minimum, the following: the recommended pressure drop operating range for the filter system; the routine maintenance and repair procedures for the filter system; and the routine replacement schedule for the filters. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate each spray paint booth filter system of the East Paint Shop in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

88. Pressure Drop Across Filter System

The pressure drop across the spray paint booth filter systems shall be maintained within manufacturer and O&M manual specifications. Documentation of both the manufacturer and O&M manual operating pressure drop specifications shall remain on site at all times and shall be made available to DEQ representatives upon request.

Monitoring and Recordkeeping Requirements

89. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the total amount of paint sprayed in the spray paint booths monthly and annually to demonstrate compliance with the paint throughput limit permit condition. Annual throughput shall be determined by summing each monthly throughput over the previous consecutive 12-month period.

The permittee shall monitor and record the differential pressure across the spray paint booth filter systems once per week when operating to demonstrate compliance with the pressure drop monitoring permit condition.

The Daily Weighted Average solids content of all paint products sprayed at the East Paint Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

90. Control Efficiency Documentation

The permittee shall document that the control efficiency of the two banks of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

BEAD-BLAST ENCLOSURES (4 UNITS) MPI, APPLE STREET

91. Process Description

The Locomotive shop bead blast enclosure is a Cycloblast Model 4836-DC100 with bag filters. The blast media is fine-grained, rounded, glass beads – potter quality Ballotini impact beads, type vi, class 2. The exhaust flow rate is approximately 775 acfm at ambient temperature (293 K). Air from the dust filtration system stack is exhausted outside the building. The unit was installed in 1984.

SWBP Shop bead blast enclosure was originally installed in the Component Shop in 1984, and was relocated adjacent to SWBP Shop Booth #5 in 2011. This enclosure is a Cycloblast Model 4836-F with bag filters. The blast media is fine-grained, rounded, glass beads – potter quality Ballotini impact beads, type vi, class 2. The exhaust flow rate is approximately 775 acfm at ambient temperature (293 K). Exhaust from the bag filters receives secondary treatment as it passes through the pulse-jet dust collector system which services Booth #5.

SWBP Shop Booth #5 is used for both blasting and painting (never simultaneously) through the use of a dual blast and prime system with some shared components. The area is about 100 ft. by 50 ft. by 34 ft. high. Steel grit is used as the blasting media. The particulate emissions from blasting are controlled by a pulse-jet dust collector system.

The Component Shop nutshell blasting unit with a dust filtration system uses Trinco nutshells as the abrasive media and is located outside the air brake room. The maximum capacity is 63 lb/hr media throughput. The exhaust flow rate is approximately 775 scfm. Air from the dust filtration system stack is exhausted inside the building. The unit was installed in 1997.

[September 22, 2011]

92. Emissions Control Description

Locomotive Shop bead blast enclosure: particulate emissions are controlled by a baghouse with 98% control efficiency.

SWBP Shop bead blast enclosure: particulate emissions are controlled by a baghouse, followed in series by a pulse-jet dust collector with 99.9% control efficiency.

SWBP Shop Booth #5: particulate emissions from the shot-blasting operations are controlled by a pulse-jet dust collector system with 99.9% control efficiency.

Component Shop nutshell blasting unit: the dust filtration system is exhausted inside the building.

[September 22, 2011]

Emission Limits

93. Emission Limits

The PM₁₀ emissions from the shot-blast booth stacks at the SWBP building shall not exceed 1.24 lb/day.

The PM₁₀ emissions from the Locomotive Shop Unit stack shall not exceed 15.9 lb/day

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[September 22, 2011]

Operating Requirements

94. Throughput Limit & Operating Requirements

Locomotive Shop bead blast enclosure: the maximum amount of blast media throughput shall not exceed 960 lb/hr, based on 24-hour average time period or 11.52 T/day.

SWBP Shop bead blast enclosure: the maximum amount of blast media throughput shall not exceed 960 lb/hr, based on 24-hour average time period or 11.52 T/day.

SWBP Shop Booth #5:

- the maximum amount of steel grit blasting media throughput shall not exceed 282 T/day.
- The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the pulse-jet dust collector system.

Component Shop nutshell blasting unit: air from the dust filtration system shall be exhausted inside the building.

Emissions from all four units (the Locomotive Shop bead blast enclosure, the SWBP Shop bead blast enclosure, SWBP Booth #5, and the Component Shop nutshell blasting unit) shall be controlled by each respective dust filtration system.

[September 22, 2011]

95. O&M Manual

The permittee shall have developed an operation and maintenance manual for the air pollution control equipment for each blasting unit according to manufacturer specifications and recommendations. The O&M manual shall address the operation, maintenance, and repair of the unit, and shall include, at a minimum, the following: the general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

If there are any changes to the self-developed operation and maintenance manual for any unit, an updated manual shall be submitted to DEQ within 15 days of the changes.

The permittee shall operate each unit in accordance with the respective O&M manual required in this permit condition.

[September 22, 2001]

96. Documentation

Locomotive Shop bead blast enclosure: the permittee shall keep the following documentation to demonstrate that the media throughput capacity does not exceed 960 lb/hr:

- The nozzle size in use
- The pressure at the nozzle
- The corresponding blast media throughput capacity
- Records of any changes to the nozzle size and the pressure at the nozzle

SWBP Shop bead blast enclosure: the permittee shall keep the following documentation to demonstrate that the media throughput capacity does not exceed 960 lb/hr:

- The nozzle size in use
- The pressure at the nozzle
- The corresponding blast media throughput capacity
- Records of any changes to the nozzle size and the pressure at the nozzle

SWBP Shop Booth #5: the permittee shall keep the following documentation to demonstrate compliance with media throughput and particulate matter control efficiency:

- The amount of steel grit in tons per day throughput in the blasting booth at the SWBP building.
- The pressure drop across the blasting pulse-jet dust collector system once on a daily basis.

[September 22, 2011]

BEAD-BLAST ENCLOSURES (2 UNITS), TEA, BRANIFF STREET

97. Process Description

The bead-blast enclosures use fine-grained, rounded, glass beads – potter quality Ballotini impact beads, type vi, class 2. The enclosures consist of the following two units: Cycloblast Model 4836-DC100 (Unit 1) bead-blast enclosure and Pangorn-S3 (Unit 2) bead-blast enclosure. The Unit 1 enclosure has one stack with a flow rate of 775 acfm and was constructed in 1990. The Unit 2 enclosure has one stack with a flow rate of 1,500 acfm and was constructed in 1996.

98. Emissions Control Description

The PM₁₀ emissions from each of the enclosures are controlled by a baghouse with 98% control efficiency.

Emission Limits

99. Emission Limits

The PM₁₀ emissions from each of the enclosure stacks shall not exceed 1.90 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

100. Operating Requirements

The maximum amount of blast media throughput at each of the enclosure units shall not exceed 115 lb/hr, based on 24-hour average time period or 2,760 lb/day.

Emissions from the bead-blast enclosures shall be controlled by each respective dust filtration system.

[February 26, 2010]

101. O&M Manual

The permittee shall have developed an operation and maintenance manual for the Bead Blast Enclosures air pollution control systems according to manufacturer specifications and recommendations. The air pollution control equipment operating parameters shall be maintained within manufacturer and O&M manual specifications. The O&M manual shall address the operation, maintenance, and repair of the Bead Blast Enclosures air pollution control systems, and shall include, at a minimum, the following: the general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the Bead Blast Enclosures air pollution control systems in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

102. Throughput Monitoring

The permittee shall monitor and record the following information in records:

- The amount of blast media throughput in pounds per day at each of the enclosure units when operating.
- The daily hours of operation for each enclosure when operating.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

103. Documentation

The permittee shall keep the following documentation:

- The nozzle size in use
- The pressure at the nozzle
- The corresponding blast media throughput capacity
- Records of any changes to the nozzle size and the pressure at the nozzle

[February 26, 2010]

SHOT-BLAST BOOTH, TEA, BRANIFF STREET

104. Process Description

The shot-blast booth is a Hoffman Schmidt/Abrasive Steel Shot Blaster. The booth is located in the northwestern corner of the main TEA building. The shot-blast booth uses steel-grit media for blasting process. The booth has one stack with a flow rate of 8,500 acfm. The booth was constructed in 1994.

105. Emissions Control Description

Particulate emissions from the booth are controlled by a Torit Model HDFT2-16 Downflow Cartridge Dust Collector that has a control efficiency of 99%.

Emission Limits

106. Emission Limits

The PM₁₀ emissions from the Shot-Blast Booth stack shall not exceed 21.12 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

107. Blast Media Throughput Limits

The maximum amount of steel-grit media throughput at the Shot-Blast Booth shall not exceed 48,000 lb/hr.

108. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the dust collector.

109. Hours of Operation Limits

The maximum annual hours of operation of the Shot-Blast Booth shall not exceed 4,380 hours per any consecutive 12-month period.

The Shot-Blast Booth shall not be operated between 1:00 am and 5:00 am each day.

[February 26, 2010]

110. O&M Manual

The permittee shall have developed an O & M manual for the Shot-Blast Booth air pollution control system according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The O&M manual shall address the operation, maintenance, and repair of the Shot-Blast Booth air pollution control system, and shall include, at a minimum, the following: the general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the Shot-Blast Booth air pollution control system in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

111. Operating Limits Monitoring

The permittee shall monitor and record the following information in records:

- The amount of blast media used in pounds per day at the Shot-Blast Booth.
- The number of hours of operation of the Shot-Blast Booth in hours per day and hours per any consecutive 12-month period.
- Clock time for each operating duration of the Shot-Blast Booth every day.
- The pressure drop across the dust collector of the Shot-Blast Booth shall be recorded daily. Pressure drop recordings are not required on days the Shot-Blast Booth is not in operation.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[February 26, 2010]

112. Control Efficiency Documentation

The permittee shall document that the control efficiency of the dust collector meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

COMPRESSOR TEST STAND ENGINE, TEA, BRANIFF STREET

113. Process Description

The air compressor test stand, which is located at the north of the main building at the TEA (south of the Proceco Parts Washer) is powered by a 1965 4-cylinder 98 horsepower Cummins, diesel-fired internal combustion engine. The diesel engine that powers the compressor test stand has a maximum fuel consumption of 5.7 gallons of diesel fuel per hour under a load of 1800 rpm. The operation of the diesel engine is limited to powering the compressor test stand engine.

[February 26, 2010]

114. Emissions Control Description

Emissions from the Compressor Test Stand Engine are uncontrolled.

Emission Limits

115. Emission Limits

The PM₁₀ emissions from the Compressor Test Stand Engine stack shall not exceed 3.45 lb/day.

The NO_x emissions from the Compressor Test Stand Engine stack shall not exceed 0.9874 T/yr.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

116. Hours of Operation Limits

The maximum hours of operation of the Compressor Test Stand Engine shall not exceed 650 hours per year.

The Compressor Test Stand Engine shall only be operated between 5:00 am and 9:00 pm.

[February 26, 2010]

117. Operation of Compressor Test Stand Engine

The operation of the diesel engine shall be limited to powering the compressor test stand.

Monitoring and Recordkeeping Requirements

118. Operating Limits Monitoring

The permittee shall monitor and record the following information in records:

- The number of hours of operation of the Compressor Test Stand Engine in hours per day and hours per year.
- Clock time for each operating duration of the Compressor Test Stand Engine every day.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[February 26, 2010]

LOCOMOTIVE ENGINE TEST CELL, TEA, BRANIFF STREET

119. Process Description

The Locomotive Engine Test Cell is located outside the east end of the main TEA building. The locomotive engine is physically removed from the locomotive and mounted on a stationary engine test cell stand. The stand is used for testing the remanufactured locomotive engines in a sound deadening room with the combustion exhaust vented through a muffler system and then to a 21 ft stack. Each engine is tested for a maximum of eight hours at notch # 8 (highest throttle setting). At notch # 8, 175 gallons of No.2 fuel oil is consumed per hour. During testing, each engine consumes approximately 1,500 gallons of diesel oil.

120. Emissions Control Description

Emissions from the Locomotive Engine Test Cell are uncontrolled.

Emission Limits

121. Emission Limits

Emissions from the stack of Locomotive Engine Test Cell shall not exceed any corresponding emissions rate limits listed in Table 7.

Table 7 EMISSIONS LIMITS ¹

PM ₁₀ ²		SO ₂	NO _x	CO
lb/day ⁴	T/yr ³	lb/hr ⁵	T/yr ³	lb/hr ⁵
46.2	3.02	10.7	43.4	50.3

- 1 In absence of any other credible evidence, compliance is assured by complying with this permit's operating, monitoring and record keeping requirements.
- 2 Particulate matter with and aerodynamic diameter less than or equal to a nominal ten (10) micrometers including condensable particulate as defined in IDAPA 58.01.01.006.80.
- 3 Tons per any consecutive 12-calendar month period.
- 4 Pounds per calendar day.
- 5 Pounds per hour clock hour

[February 26, 2010]

Operating Requirements

122. Throughput Limits

The maximum throughput of diesel fuel combusted in the Locomotive Engine Test Cell shall not exceed 1,680 gallons per day.

The maximum throughput of diesel fuel combusted in the Locomotive Engine Test Cell shall not exceed 219,500 gallons per any consecutive 12-month period.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

123. Monitoring Requirements

The permittee shall monitor and record the throughput of diesel fuel combusted in the Locomotive Engine Test Cell in gallons:

- Every calendar day
- Every calendar month by summing the daily throughput in the calendar month.
- Each consecutive 12-month period by summing this month's fuel throughput and the previous consecutive 11-month fuel throughput.

Records of the information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[February 26, 2010]

124. O&M Manual

The permittee shall maintain an O&M manual for the locomotive engine test cell stand. The manual shall describe the procedures that will be followed to comply with the visible emissions limitations contained in IDAPA 58.01.01.625 during the start up of each locomotive engine testing in the locomotive engine test cell stand. This manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the locomotive engine test cell stand in accordance with the O&M manual.

[February 26, 2010]

SELLER BOILERS NOS. 1 AND 2, MPI, APPLE STREET

125. Process Description

MPI has two natural gas-fired boilers that are located at the east end of the locomotive shop. Both are Seller Model 105-E, horizontal immersion steam boilers and each with a rated heat input capacity of 6.7 MMBtu/hr. One boiler is operational, and the other is a backup. The boilers will not operate simultaneously.

126. Emissions Control Description

Emissions from the natural gas-fired boilers are uncontrolled.

Operating Requirements

127. Fuel Specification

Seller boilers Nos. 1 and 2 shall be fueled by natural gas exclusively.

128. Seller boilers Nos. 1 and 2 shall not be operated simultaneously.

[February 26, 2010]

NATURAL GAS-FIRED EMERGENCY GENERATOR

129. Process Description

The MPI is to install a natural gas-fired emergency generator manufactured in September 2009 by Kohler Power Systems with model No. 45REZG. The natural gas-fired emergency generator is rated at 75 HP at maximum load.

[February 26, 2010]

130. Emissions Control Description

Emissions from the natural gas-fired emergency generator are uncontrolled.

[February 26, 2010]

Operating Requirements

131. Fuel Specification

The emergency generator shall be fueled by natural gas exclusively.

[February 26, 2010]

132. Operating Hours

The natural gas-fired emergency generator shall not be operated more than one hour per week, excluding during emergencies.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

133. Monitoring Requirements

The permittee shall monitor and record the operating hours of the natural gas-fired emergency generator every week.

Records of the information shall be retained in accordance with the Recordkeeping General Provision of this permit.

[February 26, 2010]

40 CFR 60 Subpart JJJJ—Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

Emission Standards for Owners and Operators

134. NSPS 40 CFR 60, Subpart JJJJ – § 60.4233 What emission standards must I meet if I am a manufacturer of stationary SI internal combustion engines or equipment containing such engines?

Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) must comply with the emission standards in Table 1 to this subpart for their emergency stationary SI ICE In accordance with 40 CFR 60.4233(d).

Table 1 to Subpart JJJJ of Part 60—NO_x, CO, and VOC Emission Standards for Stationary Non-Emergency SI Engines ≥100 HP (Except Gasoline and Rich Burn LPG), Stationary SI Landfill/Digester Gas Engines, and Stationary Emergency Engines >25 HP

Emission Standards					
g/HP-hr			ppmvd @ 15% O ₂		
NO _x	CO	VOC ^a	NO _x	CO	VOC ^a
2.0	4.0	1.0	160	540	86

a. For purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

[February 26, 2010]

135. NSPS 40 CFR 60, Subpart JJJJ – § 60.4234 How long must I meet the emission standards if I am an owner or operator of a stationary SI internal combustion engine?

Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine.

[February 26, 2010]

Other Requirements for Owners and Operators

136. NSPS 40 CFR 60, Subpart JJJJ – § 60.4236 What is the deadline for importing or installing stationary SI ICE produced in the previous model year?

For emergency stationary SI ICE with a maximum engine power of greater than 19 KW (25 HP), owners and operators may not install engines that do not meet the applicable requirements in §60.4233 after January 1, 2011 in accordance with 40 CFR 4236(c).

[February 26, 2010]

137. NSPS 40 CFR 60, Subpart JJJJ – § 60.4237 What are the monitoring requirements if I am an owner or operator of an emergency stationary SI internal combustion engine?

If you are an owner or operator of an emergency stationary SI internal combustion engine that is less than 130 HP, was built on or after July 1, 2008, and does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter upon startup of your emergency engine in accordance with 40 CFR 60.4237(c).

[February 26, 2010]

Compliance Requirements for Owners and Operators

138. NSPS 40 CFR 60, Subpart JJJJ – § 60.4243 What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?

If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in §60.4233(d) or (e), you must demonstrate compliance according to one of the methods specified in 40 CFR 60.4243(b)(1) and (2) in accordance with 40 CFR 60.4243(b).

40 CFR 60.4243(b)(1) Purchasing an engine certified according to procedures specified in this subpart (i.e., 40 CFR 60.4231(d)), for the same model year and demonstrating compliance according to one of the methods specified in 40 CFR 60.4243(a)

40 CFR 60.4243(a)(1) If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator.

40 CFR 60.4231(d) Stationary SI internal combustion engine manufacturers who choose to certify their emergency stationary SI ICE greater than 25 HP and less than 130 HP, must certify those engines to the Phase 1 emission standards in 40 CFR 90.103, applicable to class II engines, for new nonroad SI engines in 40 CFR part 90.

Phase 1 Exhaust Emission Standards

Engine displacement class	Hydrocarbons+oxides of nitrogen (HC+NO _x)	Hydrocarbons	Carbon monoxide	Oxides of nitrogen (NO _x)
II	13.4	---	519	---

Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Emergency stationary ICE may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this section, is prohibited in accordance with 40 CFR 60.4243(d).

[February 26, 2010]

Notification, Reports, and Records for Owners and Operators

139. NSPS 40 CFR 60, Subpart JJJJ – § 60.4245 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?

Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements in accordance with 40 CFR 60.4245.

40 CFR 60.4245(a) Owners and operators of all stationary SI ICE must keep records of the information in 40 CFR 60.4245(a)(1) through (4) of this section.

(1) All notifications submitted to comply with this subpart and all documentation supporting any notification.

(2) Maintenance conducted on the engine.

(3) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.

[February 26, 2010]

General Provisions

140. NSPS 40 CFR 60, Subpart JJJJ – § 60.4246 What parts of the General Provisions apply to me?

Table 3 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

Table 3 to Subpart JJJJ of Part 60—Applicability of General Provisions to Subpart JJJJ

General provisions citation	Subject of citation	Applies to subpart	Explanation
§60.1	General applicability of the General Provisions	Yes	
§60.2	Definitions	Yes	Additional terms defined in §60.4248.
§60.3	Units and abbreviations	Yes	
§60.4	Address	Yes	Air Quality Permit Compliance Department of Environmental Quality Air Quality Manager Boise Regional Office 1445 N. Orchard Boise, ID 83706-2239 Phone: (208) 373-0550 Fax: (208) 373-0287
§60.5	Determination of construction or modification	Yes	
§60.6	Review of plans	Yes	
§60.7	Notification and Recordkeeping	Yes	Except that §60.7 only applies as specified in §60.4245.
§60.8	Performance tests	Yes	Except that §60.8 only applies to owners and operators who are subject to performance testing in subpart JJJJ.
§60.9	Availability of information	Yes	
§60.10	State Authority	Yes	
§60.11	Compliance with standards and maintenance requirements	Yes	Requirements are specified in subpart JJJJ.
§60.12	Circumvention	Yes	
§60.13	Monitoring requirements	No	
§60.14	Modification	Yes	
§60.15	Reconstruction	Yes	
§60.16	Priority list	Yes	
§60.17	Incorporations by reference	Yes	
§60.18	General control device requirements	No	
§60.19	General notification and reporting requirements	Yes	

[February 26, 2010]

THE FIRE PUMP AT SOUTHERN PROPERTY BOUNDARY OF MOTIVEPOWER APPLE STREET

141. Process Description

The 143 HP diesel-fired internal combustion engine is located at southern property boundary of MotivePower Apple Street. It is a fire pump with an estimated heat input of 0.682 MMBtu/hr.

[February 26, 2010]

142. Emissions Control Description

Emissions from the fire pump are uncontrolled.

[February 26, 2010]

Operating Requirements

143. Operating Hours

The fire pump shall not be operated more than one hour per week, excluding during emergencies.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

144. Monitoring Requirements

The permittee shall monitor and record the operating hours of the fire pump every week. Records of the information shall be remained in accordance with the Recordkeeping General Provision of this permit.

[February 26, 2010]

PERMIT TO CONSTRUCT GENERAL PROVISIONS

General Compliance

145. The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the Rules for the Control of Air Pollution in Idaho. The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq.
- [Idaho Code §39-101, et seq.]**
146. The permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.
- [IDAPA 58.01.01.211, 5/1/94]**
147. Nothing in this permit is intended to relieve or exempt the permittee from the responsibility to comply with all applicable local, state, or federal statutes, rules and regulations.
- [IDAPA 58.01.01.212.01, 5/1/94]**

Inspection and Entry

148. Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:
- Enter upon the permittee's premises where an emissions source is located or emissions related activity is conducted, or where records are kept under conditions of this permit;
 - Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
 - Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.
- [Idaho Code §39-108]**

Construction and Operation Notification

149. The permittee shall furnish DEQ written notifications as follows in accordance with IDAPA 58.01.01.211:
- A notification of the date of initiation of construction, within five working days after occurrence;
 - A notification of the date of any suspension of construction, if such suspension lasts for one year or more;
 - A notification of the anticipated date of initial start-up of the stationary source or facility not more than sixty days or less than thirty days prior to such date;
 - A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date; and
 - A notification of the initial date of achieving the maximum production rate, within five working days after occurrence - production rate and date.

Performance Testing

150. If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ, at its option, may have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.
151. All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.
152. Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

[IDAPA 58.01.01.157, 4/5/00]

Monitoring and Recordkeeping

153. The permittee shall maintain sufficient records to ensure compliance with all of the terms and conditions of this permit. Records of monitoring information shall include, but not be limited to the following: (a) the date, place, and times of sampling or measurements; (b) the date 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. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

[IDAPA 58.01.01.211, 5/1/94]

Excess Emissions

154. The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions due to startup, shutdown, scheduled maintenance, safety measures, upsets and breakdowns.

[IDAPA 58.01.01.130-136, 4/5/00]

Certification

155. All documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

[IDAPA 58.01.01.123, 5/1/94]

False Statements

156. No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.
[IDAPA 58.01.01.125, 3/23/98]

Tampering

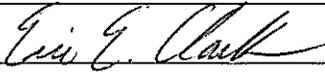
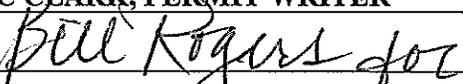
157. No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.
[IDAPA 58.01.01.126, 3/23/98]

Transferability

158. This permit is transferable in accordance with procedures listed in IDAPA 58.01.01.209.06.
[IDAPA 58.01.01.209.06, 4/11/06]

Severability

159. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
[IDAPA 58.01.01.211, 5/1/94]

Air Quality PERMIT TO CONSTRUCT State of Idaho Department of Environmental Quality	PERMIT NUMBER	CLASS	SIC
	P-2009.0097	SM80	3743
	FACILITY ID	AQCR	NAICS
	001-00107	64	33651
	ZONE	UTM COORDINATES (km)	
11	567.1	4823.1	
PERMITTEE			
Motive Power, Inc.			
PROJECT			
Project No. 60898 Permit to Construct Revision			
MAILING ADDRESS	CITY	STATE	ZIP
4600 Apple Street	Boise	ID	83716
FACILITY CONTACT	TITLE	TELEPHONE	
Art Anderson	EH&S Manager	(208) 947-4821	
RESPONSIBLE	TITLE	TELEPHONE	
Mark Warner	Vice President & General Manager	(208) 947-4800	
EXACT PLANT LOCATION		COUNTY	
4600 Apple Street, Boise, Idaho 83716 (Main Plant) and 2100 Braniff Street (Truck and Engine Annex), Boise, Idaho		Ada	
GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS			
Manufactures and remanufactures of diesel electric locomotives and locomotive components			
PERMIT AUTHORITY			
<p>This permit is issued according to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200 through 228, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be constructed or modified by this permit.</p> <p>This permit (a) does not affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment; (c) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; (d) in no manner implies or suggests that the Department of Environmental Quality (DEQ) or its officers, agents, or employees, assume any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment.</p> <p>This permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.</p> <p>This permit has been granted on the basis of design information presented with its application. Changes in design, equipment or operations may be considered a modification. Modifications are subject to DEQ review in accordance with IDAPA 58.01.01.200 through 228 of the Rules for the Control of Air Pollution in Idaho.</p>			
		DATE ISSUED	September 22, 2011
ERIC CLARK, PERMIT WRITER			
			
MIKE SIMON, STATIONARY SOURCE MANAGER			

PERMIT TO CONSTRUCT SCOPE 3

FACILITY WIDE EMISSIONS 5

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 POLLUTANTS: PAINT STRIPPING AND MISCELLANEOUS SURFACE COATING
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PERMIT TO CONSTRUCT SCOPE

Purpose

1. This is a revised permit to construct to update the method in which the solids content limit of 8.16 lb/gal is calculated. Rather than having an absolute maximum, a weighted average is now used to allow for more flexibility of paint use. The overall limit remains unchanged. Additionally, the location of the bead blasting enclosure is being changed. The new location is adjacent to the SWBP blast booth. Emissions will actually decrease from this change as the emissions will now discharge to the SWBP blast booth's filter bank control device.
2. Those permit conditions that have been modified or revised by this permitting action are identified by a date citation located directly under the permit condition and on the right hand margin.
3. This PTC replaces Permit to Construct No. P-2009.0097, Project 60552, issued on November 11, 2010.
4. The emission sources regulated by this permit are listed in the following table.

Table 1 REGULATED SOURCES

Source Descriptions	Emission Controls
<u>FACILITY-WIDE CONDITIONS</u>	As listed.
<u>SOUTH LARGE PAINT SHOP</u> , <i>Apple Street</i> The shop contains two spray paint booths Nos. 1&2	The PM ₁₀ emissions are controlled by a bank of filters having a control efficiency of 99.58%.
<u>NORTH LARGE PAINT SHOP</u> , <i>Apple Street</i> The shop contains two spray paint booths (Booths Nos. 3&4)	The PM ₁₀ emissions are controlled by bank filters having a control efficiency of 99.58%.
<u>STRIP-WASH-BLAST-PAINTING BUILDING</u> , <i>Apple Street</i> This building contains one booth (Booth No. 5) that is designed so that either painting or blasting can occur at any one time – never simultaneously.	Blast booth pulse-jet dust collector system designed by Hoffman/Torit, Model: HOFT4-64; PM/PM ₁₀ emissions are controlled with an efficiency of 99.9%. Paint-arrestor filters system designed by OSM. The PM ₁₀ emissions are controlled with an efficiency of 99.58%.
<u>SMALL PAINT SHOP</u> , <i>Apple Street</i> The shop contains one paint booth (Booth No. 6)	The PM ₁₀ is controlled by a bank of filters with an efficiency of 99.58%.
<u>SPRAY PAINT BOOTH, TEA</u> The shop contains one paint booth (Booth No. 7). The spray paint booth is a Protectaire Model 530 DTT.	The PM ₁₀ emissions are controlled by a bank of filters with an efficiency of 99.58%.
<u>EAST PAINT SHOP BUILDING</u> , <i>Apple Street</i> The shop contains two spray paint booths (Booths Nos. 8&9).	The PM ₁₀ emissions are controlled by two banks of filters with efficiency of 99.58%.
<u>BEAD-BLAST ENCLOSURES (2 Units)</u> , <i>Apple Street</i> Enclosures consist of two units: Component Shop Unit (moved adjacent to SWBP shop) and Locomotive Shop Unit.	The PM ₁₀ emissions are controlled by a baghouse with efficiency of 98%. SWBP also routes all particulates to pulse-jet dust collector system.
<u>BEAD-BLAST ENCLOSURES (2 Units)</u> , <i>TEA</i> Enclosures consist of two blasting units – a Cycloblast Model 4836-DC100; and Pangorn-S3.	The PM ₁₀ emissions are controlled by a baghouse with efficiency of 98% and SWBP filter bank.
<u>SHOT-BLAST BOOTH</u> , <i>TEA</i> The shot blast booth is a Hoffman Schmidt/Abrasive Steel Shotblaster.	The PM ₁₀ emissions are controlled by a Torit Model HDFT2-16, Downflow Cartridge Dust Collector with efficiency of 99%.
<u>COMPRESSOR TEST STAND ENGINE</u> , <i>TEA</i> <i>100B</i> The compressor is powered by a Perfex, Model 45E-68, diesel-fired internal combustion engine	None
<u>LOCOMOTIVE ENGINE TEST CELL</u> , <i>TEA</i>	None
<u>NATURAL GAS-FIRED BOILERS</u> , <i>Apple Street</i> Seller No. 1 boiler – Model: 105-E, steam boiler; rated heat input of 6.7 MMBtu/hr. Seller No. 2 boiler – Model: 105-E, steam boiler; rated heat input of 6.7 MMBtu/hr.	None
<u>NATURAL GAS-FIRED EMERGENCY GENERATOR</u> Manufactured in September 2009 by Kohler Power Systems with model No. 45REZG. The natural gas-fired emergency generator is rated at 75 HP at maximum load.	None
<u>THE FIRE PUMP</u> , <i>Apple Street</i> 143 HP diesel-fired internal combustion engine	None

FACILITY WIDE EMISSIONS

Fugitive Emissions

5. All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with IDAPA 58.01.01.650-651. In determining what is reasonable, considerations will be given to factors such as the proximity of dust-emitting operations to human habitations and/or activities and atmospheric conditions that might affect the movement of particulate matter. Some of the reasonable precautions include, but are not limited to, the following:
 - Use, where practical, 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 lands.
 - Application, where practical, of asphalt, oil, water, or suitable chemicals to, or covering of, dirt roads, material stockpiles, and other surfaces which can create dust.
 - Installation and use, where practical, of hoods, fans, and fabric filters or equivalent systems to enclose and vent the handling of dusty materials. Adequate containment methods should be employed during sandblasting or other operations.
 - Covering, where practical, of open-bodied trucks transporting materials likely to give rise to airborne dusts.
 - Paving of roadways and their maintenance in a clean condition, where practical.
 - Prompt removal of earth or other stored material from streets, where practical.
6. The permittee shall monitor and maintain records of the frequency and the method(s) used (i.e., water, chemical dust suppressants, etc.) to reasonably control fugitive emissions.
7. The permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall include, at a minimum, the date that each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.
8. The permittee shall conduct a monthly facility-wide inspection of potential sources of fugitive emissions, during daylight hours and under normal operating conditions to ensure that the methods used to reasonably control fugitive emissions are effective. If fugitive emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each fugitive emissions inspection. The records shall include, at a minimum, the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (If observed), any corrective action taken in response to the fugitive emissions, and the date the corrective action was taken.
9. Fugitive emissions shall not be observed leaving the property for a period or periods aggregating more than three minutes in any 60-minute period. Visible emissions shall be determined by EPA Reference Method 22, as described in 40 CFR 60, Appendix A, or by an alternative method approved by DEQ.

Odors

10. The permittee shall not allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.

11. The permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall include, at a minimum, the date that each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.

Visible Emissions

12. The permittee shall not discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas is the only reason for the failure of the emission to comply with the requirements of this section.
13. The permittee shall conduct a monthly facility-wide inspection of potential sources of visible emissions, during daylight hours and under normal operating conditions. The visible emissions inspection shall consist of a see/no see evaluation for each potential source. If any visible emissions are present from any point of emission, the permittee shall either take appropriate corrective action as expeditiously as practicable, or perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20% for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in accordance with IDAPA 58.01.01.130-136. The permittee shall maintain records of the results of each visible emissions inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

Open Burning

14. The permittee shall comply with the requirements of the Rules for Control of Open Burning, IDAPA 58.01.01.600-623.

Reports & Certifications

15. Any reporting required by this permit, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, notifications of intent to test, testing reports, or compliance certifications, shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete. Any reporting required by this permit shall be submitted to the following address:

Air Quality Permit Compliance
Department of Environmental Quality
Air Quality Manager
Boise Regional Office
1445 N. Orchard
Boise, ID 83706-2239
Phone: (208) 373-0550
Fax: (208) 373-0287

Fuel-burning Equipment

16. The permittee shall not discharge to the atmosphere from any fuel-burning equipment PM in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gas, 0.050 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid.

Sulfur Content

17. The permittee shall not sell, distribute, use, or make available for use any distillate fuel oil containing more than the following percentages of sulfur:
 - ASTM Grade 1 fuel oil - 0.3% by weight.
 - ASTM Grade 2 fuel oil - 0.5% by weight.
 - ASTM Grades 4, 5 and 6 fuel oil - 1.75% by weight.
18. The permittee shall maintain documentation of supplier verification of distillate fuel oil sulfur content on an as-received basis.

[February 26, 2010]

Air Stagnation Advisory Days

19. The permittee shall comply with the Air Pollution Emergency Rules in IDAPA 58.01.01.550-562.

Allowable Fuels

20. The following sources at the MPI-Apple Street and TEA sites shall burn natural gas exclusively: locomotive shop steam cleaner, component shop furnace, TEA Proceco parts washer, Maxom Tube-O-Therm evaporator, the Strip-Wash-Blast-Painting (SWBP) building heater, North Large Paint Shop heaters, and the East Paint Shop Building heaters.

[February 26, 2010]

Facility-Wide HAPs, VOC, NO_x, and Paint Throughput Limits and Monitoring

21. HAPs and VOC Emission Limits
 - Emissions of any single Hazardous Air Pollutant (HAP) from the entire facility (MPI Apple Street and TEA) shall be less than 10 tons per any consecutive 12-month period.
 - Emissions of any combination of HAPs from the entire facility (MPI Apple Street and TEA) shall be less than 25 tons per any consecutive 12-month period.
 - The VOC emissions from the painting operations at the entire facility (MPI Apple Street and TEA) shall not exceed 54.5 tons per any consecutive 12-month period.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and recordkeeping requirements.

[February 26, 2010]

22. Paint Throughput Limit

The maximum throughput of paint products (i.e., surface coatings, thinners, solvents, and cleaning materials) used at the entire facility shall not exceed 26,650 gallons per any consecutive 12-month period.

For 1,6 - hexamethylene diisocyanate:

- The maximum amount of MSDS 1828 paint product shall not exceed 22 gallons per day per paint shop. The content of 1,6-hexamethylene diisocyanate in MSDS 1828 shall be 0.08625 lbs/gal or less.
- The maximum amount of MSDS 966 paint product shall not exceed 2 gallons per day per paint shop. The content of 1,6-hexamethylene diisocyanate in MSDS 966 shall be 0.01870 lbs/gal or less.

- The maximum amount of MSDS 1769 paint product shall not exceed 22 gallons per day per paint shop. The content of 1,6-hexamethylene diisocyanate in MSDS 1769 shall be 0.01870 lbs/gal or less.
- The maximum amount of MSDS 3001 paint product shall not exceed 15 gallons per day per paint shop. The content of 1,6-hexamethylene diisocyanate in MSDS 3001 shall be 0.01820 lbs/gal or less.

Paint shop means South Large Paint Shop, North Large Paint Shop, or Small Paint Shop.

[February 26, 2010]

23. Required Paint Product Monitoring Information

The permittee shall monitor and record the following information for each and every paint product (i.e., surface coatings, thinners, solvents, and cleaning materials) used at the entire facility. Record of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

- The paint product name and manufacturer
- The Material Safety Data Sheet (MSDS) for all paint products used at the facility.

In instances where a modification is made to the MSDS, or the information in the MSDS is insufficient for a paint product, a copy of information provided by materials suppliers or manufacturers for the change, such as manufacturer's formulation data, or test data used to determine the quantity of VOCs, organic HAP, and density for the paint product shall be kept on site as well.

- The density of all paint products in pounds per gallon (lb/gal).
- The HAPs and VOC content, in percent by weight (wt %); or the HAPs and VOC content mass fraction, in pounds of HAPs per pound of paint (lb HAPs/lb paint) and pounds of VOC per pound of paint (lb VOC/lb paint).
- The solid and TAP contents in pounds per gallon as specified in the permit condition titled Solid and TAP Content in Paint Products.
- The paint product throughput each month and each year, in gallons per month and gallons per any consecutive 12-month period to demonstrate compliance with the Paint Throughput Limit Permit Condition.

24. HAPs and VOC Emissions Monitoring

Using the information monitored and recorded in the Paint Product Monitoring Information Permit Condition, the permittee shall calculate monthly and annually, all single HAPs, the total HAPs, and the total VOC emissions from the painting operations at the entire facility to demonstrate compliance with the HAPs and VOC Emission Limits Permit Condition. Annual emissions shall be determined by summing monthly emissions over the previous consecutive 12-month period. Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

Each month, the permittee shall calculate the HAPs and VOC emissions from the painting operations at the entire facility using the following calculation method or DEQ approved alternative method:

$$\text{Monthly HAPs and VOC emissions rate} = \sum G_i \times W_i \times \text{HAP}_i \text{ (or VOC}_i \text{) content}$$

Where,

Annual HAP(s) and VOC emissions rate = sum of the monthly HAP(s) and VOC emissions rate over the previous consecutive 12-month period.

G_i : For each paint product, the paint product throughput for the previous month, in gallons per month

W_i : For each paint product, the density of the paint product G_i , in lb/gal

HAP_{*i*} and VOC_{*i*} content: For each paint product, the HAP and VOC content of paint product G_i , in percent by weight HAP(s) and VOC as indicated in the MSDS provided by the painting manufacturer; or the HAP and VOC content of paint product G_i , in lb HAP/lb or lb VOC/lb of paint product as indicated in the MSDS provided by the paint product manufacturer. When a HAP or VOC content range provided in the MSDS, use the higher value of the range.

In any month where the annual emissions of any single HAP from the entire facility (MPI Apple Street and TEA) exceed 9 T/yr based on rolling 12-month, the permittee shall provide the name of the HAP, its emissions rate, and the related monitoring records to DEQ of the month.

[February 26, 2010]

25. NO_x Emission Limits

The oxides of nitrogen (NO_x) emissions from all combustion sources at the entire facility (MPI Apple Street and TEA) shall not exceed 54.75 tons per any consecutive 12-month period. The combustion sources at the facility shall include, but not limited to, compressor test stand engine, locomotive engine test cell, natural gas combustion sources, natural gas-fired emergency generator, diesel-fired fire pump, and liquefied petroleum gas heaters.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

26. Combustion Fuel Throughput

The maximum amount of natural gas fuel combusted at the entire facility shall not exceed 124.7 million cubic feet (MM ft³) per any consecutive 12-month period.

[February 26, 2010]

27. Natural Gas Fuel Meter

The permittee shall install, calibrate, maintain, and operate natural gas flow meters to measure the amount of natural gas combusted at the MPI Apple Street and at the TEA facilities.

[November 11, 2010]

28. Natural Gas Fuel Usage Monitoring

The permittee shall monitor and record the amount of natural gas combusted monthly and annually to demonstrate compliance with the Combustion Fuel Throughput Permit Condition. The amount of natural gas combusted shall be recorded in units of million cubic feet. Each month's amount of natural gas combusted shall be summed over the previous consecutive 12-month period.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[February 26, 2010]

29. Solid and TAP Content in Paint Products

The permittee shall only use a paint product meeting all of the following criteria:

- Except for MSDS 1828, MSDS 966, MSDS 1769, and MSDS 3001 paint products, the content of 1,6-hexamethylene diisocyanate of any paint product shall not exceed 0.01804 lb/gal and a daily maximum usage of 14 gallons.
- The TAP content of a paint product in lb/gal will be calculated by multiplying the paint density (lb/gal) and TAP content in weight percentage (wt%).
- The solid content of a paint product in lb/gal will be calculated by multiplying the paint density (lb/gal) and the solid content in weight percentage (wt%).
- The Daily Weighted Average solids content shall be calculated using the following equation:

$$\frac{[(Usage A (gal) * Solid Content A) + (Usage B (gal) * Solid Content B) + \dots (Usage n (gal) + Solid content n)]}{[Usage A + Usage B + \dots Usage n]}$$

Table 2 THROUGHPUT LIMITS FOR ALL PAINT SHOPS

Paint Shop	Booth	Daily Throughput Limit Originally Permitted
		gal/day
South Large Paint Shop	Booth 1	46
South Large Paint Shop	Booth 2	
North Large Paint Shop	Booth 3	46
North Large Paint Shop	Booth 4	
SWBP	Booth 5	25
Small Paint Shop	Booth 6	46

Table 3 PERMITTED HAPS

1,6-Hexamethylene Diisocyanate	Naphthalene
Acetaldehyde	Styrene
Acrolein	Toluene
Benz(a)anthracene	Xylene
Benzene	Arsenic
Benzo(b)fluoranthene	Beryllium
Benzo(k)fluoranthene	Cadmium
Bis(2-ethylhexyl)phthalate (DEHP)	Chromium ³⁺
Chrysene	Cobalt
Dibenz(a,h)anthracene	Manganese
Ethyl benzene	Mercury
Formaldehyde	Nickel
Hexane	Selenium
Indeno(1,2,3-cd)pyrene	Lead
Methanol	

Table 4 PERMITTED TAPS AND CONTENTS IN PAINT PRODUCTS

Toxic Air Pollutant	Worst-Case TAP Content (lb/gal)	Toxic Air Pollutant	Worst-Case TAP Content (lb/gal)
1,2,4-Trimethyl benzene	2.48	Methyl propyl ketone	1.75
1,6-Hexamethylene Diisocyanate ^a	--	Naphthalene	0.02
1-Methoxy-2-propyl acetate	7.66	n-Butyl glycidyl ether	0.66
2-Butoxyethanol	1.04	Petroleum distillate	2.04
Acetone	2.68	Petroleum distillate	1.53
Butyl acetate	7.02	Propylene glycol monomethyl ether acetate	5.04
Butyl alcohol	3.09	Styrene	0.04
Diisobutyl ketone	1.80	Toluene	3.97
Dipropylene glycol methyl ether	0.44	Xylene	6.01
Ethyl acetate	1.63	Aluminum	0.80
Ethyl Alcohol	0.09	Amorphous silica	0.25
Ethyl benzene	1.42	Calcium carbonate	4.31
Ethylene Glycol Monobutyl Ether	1.47	Carbon black	1.34
Heptane	0.34	Cristobalite	0.60
Hexane	0.46	Iron Oxide	0.54
Isobutyl acetate	2.43	Kaolin	1.82
Isophorone diisocyanate	0.08	Magnesium Carbonate	0.61
Isopropyl alcohol	2.68	Manganese Compounds	2.13
Methanol	0.87	Mica	2.83
Methoxypropanol	3.45	Quartz-crystalline silica	3.36
Methyl acetate	0.78	Zinc Compounds	0.34
Methyl amyl ketone	7.66	Zinc Oxide	1.39
Methyl ethyl ketone	6.75	Ethylene Glycol Monobutyl Ether Acetate	1.34
Bis(2-ethylhexyl)phthalate (DEHP)	0.46	Benzene	0.01

a. 1,6 Hexamethylene Diisocyanate has specific limits and daily maximum usage rates for four MSDS. These limits can be found in Permit Condition 22. All other paint products containing 1,6 Hexamethylene Diisocyanate are limited to the first bullet in Permit Condition 29.

Table 5 PERMITTED TAPS AND CONTENTS IN PAINT PRODUCTS

Toxic Air Pollutant	Second Worst-Case TAP Content (lb/gal)
1,2,4-Trimethyl benzene	1.58
1,6-Hexamethylene Diisocyanate ^a	--
1-Methoxy-2-propyl acetate	4.62
Isophorone Diisocyanate	0.05
Methyl Amyl Ketone	3.30
Propylene Glycol Monomethyl Ether Acetate	4.62
Xylene	5.63

a. 1,6 Hexamethylene Diisocyanate has specific limits and daily maximum usage rates for four MSDS. These limits can be found in Permit Condition 22. All other paint products containing 1,6 Hexamethylene Diisocyanate are limited to the first bullet in Permit Condition 29.

[September 22, 2011]

30. New Paint Product with Permitted TAPs (Scenario C)

A new paint product qualifies as Scenario C if all of the following is true:

- All TAPs from new paint product is permitted as stated in Table 4
- All constituents have a TAP content less than the Worst Case value as defined in Table 4.
- The maximum allowable (gal/day) for any one paint product per Paint Shop is never actually reached.
 - Less than 46 gal/day for the North, South, Small and East Paint Shops
 - Less than 25 gal/day for the SWBP Paint Shop
 - Less than 20 gal/day for the Spray Paint Shop

If the new paint product qualifies under Scenario C, the new paint product shall be logged, a record of the TAP content calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

31. New Paint Product with Permitted TAPs (Scenario D)

A new paint product qualifies as Scenario D if all of the following is true:

- All TAPs from new paint product is permitted as stated in Table 4
- All constituents have a TAP content less than the Worst Case value as defined in Table 4.
- The maximum allowable (gal/day) for any one paint product per Paint Shop is reached.
 - 46 gal/day for the North, South, Small and East Paint Shops
 - 25 gal/day for the SWBP Paint Shop
 - 20 gal/day for the Spray Paint Shop
- Use of a second paint product containing a TAP identified in Table 5. The second Worst Case TAP content shall be the limit for the remaining allowable gal/day.
 - 29 gal/day total for all remaining paint products for North, South, Small Paint Shops
 - 25 gal/day total for all remaining paint products for SWBP Paint Shop
- If the second paint product does not contain a TAP identified in Table 5, the Worst Case TAP content (Table 4) shall be the limit for the remaining allowable gal/day.

If the new paint product qualifies under Scenario D, the new paint product shall be logged, a record of the TAP content calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

32. New Paint Products Containing Permitted TAPs (Scenario E)

A new paint product qualifies as Scenario E if all of the following is true:

- All TAPs from new paint product is permitted as stated in Table 4
- One or more constituents have a TAP content that **exceed** the Worst Case value as defined in Table 4.
- Determine the appropriate daily usage limit according to the following equation:

For South Large Paint Shop – Booths 1 & 2
For North Large Paint Shop – Booths 3 & 4
For Small Paint Shop – Booth 6
For East Paint Shop – Booths 8 & 9

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 46 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

For SWBP – Booth 5

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 25 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

For Spray Paint Booth – Booth 7

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 20 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

- The actual usage rate never reaches the newly calculated maximum allowable for any one paint product per Paint Shop gal/day.

If the new paint product qualifies under Scenario E, the new paint product shall be logged, a record of the TAP content calculation shall be maintained, a newly daily maximum gal/day calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

33. New Paint Products Containing Permitted TAPs (Scenario F)

A new paint product qualifies as Scenario F if all of the following is true:

- All TAPs from new paint product is permitted as stated in Table 4
- One or more constituents have a TAP content that **exceed** the Worst Case value as defined in Table 4.
- Determine the appropriate daily usage limit according to the following equation:

For South Large Paint Shop – Booths 1 & 2
For North Large Paint Shop – Booths 3 & 4
For Small Paint Shop – Booth 6
For East Paint Shop – Booths 8 & 9

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 46 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

For SWBP – Booth 5

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 25 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

For Spray Paint Booth – Booth 7

$$\frac{\text{Permitted TAP Content (lb/gal)}}{\text{TAP Content New Paint (lb/gal)}} * 20 \text{ gallons per day} = \text{New Daily Maximum Usage}$$

TAP Content New Paint (lb/gal)

- The actual usage rate reaches the newly calculated maximum allowable for any one paint product per Paint Shop gal/day.
- Use of a second paint product containing a TAP identified in Table 5. The second Worst Case TAP content shall be the limit for the remaining allowable gal/day.
 - 29 gal/day total for all remaining paint products for North, South, Small Paint Shops
 - 25 gal/day total for all remaining paint products for SWBP Paint Shop
- If the second paint product does not contain a TAP identified in Table 5, the Worst Case TAP content (Table 4) shall be the limit for the remaining allowable gal/day.

If the new paint product qualifies under Scenario F, the new paint product shall be logged, a record of the TAP content calculation shall be maintained, a newly daily maximum gal/day calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

34. New Paint Products Containing New Non-Carcinogenic TAPs Usage (Scenario G)

A new paint product qualifies as Scenario G if all of the following is true

- A new Non-Carcinogenic TAP (not in Table 4) is included in a new paint product.
- Determine the facility-wide contribution and compare to the Screening Emission Level (EL) in IDAPA 58.01.01.585 using the following equation:

For South Large Paint Shop – Booths 1 & 2

For North Large Paint Shop – Booths 3 & 4

For Small Paint Shop – Booth 6

For East Paint Shop – Booths 8 & 9

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 46 \text{ gallons per day}}{100} / 24 \text{ hrs} = \text{TAP lb/hr}$$

For SWBP – Booth 5

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 25 \text{ gallons per day}}{100} / 24 \text{ hrs} = \text{TAP lb/hr}$$

For Spray Paint Booth – Booth 7

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 20 \text{ gallons per day}}{100} / 24 \text{ hrs} = \text{TAP lb/hr}$$

North + South + Small + SWBP + Spray + East (when constructed) = Total lb/hr

Total lb/hr shall be compared to 585 EL in IDAPA 58.01.01.585.

- If the facility-wide emissions of the new TAP are below the EL then its use is allowed.
- If the facility-wide emissions of the new TAP are above the EL then the permittee must perform one of the following actions in order to use a paint product that contains the new TAP.
 - Perform an exemption determination in accordance with IDAPA 58.01.01.223 and submit the results to DEQ for concurrence. This determination would include a modeling demonstration.
 - Submit an application for a permit modification to include the new TAP.

If the new paint product qualifies under Scenario G, the new paint product shall be logged, a record of the TAP content calculation shall be maintained, facility-wide lb/hr calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

35. New Paint Products Containing New Carcinogenic TAPs Usage (Scenario G)

A new paint product qualifies as Scenario G if all of the following is true

- A new Carcinogenic TAP (not in Table 4) is included in a new paint product.
- Determine the facility-wide contribution and compare it to the Screening Emission Level (EL) in IDAPA 58.01.01.586 using the following equation:

For North & South Large Paint Shop – Booths 1-4

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 16,000 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

For SWBP – Booth 5

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 10,500 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

For Small Paint Shop – Booth 6

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 5,000 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

For Spray Paint Booth – Booth 7

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 3,000 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

For East Paint Shop – Booths 8 & 9

$$\frac{\text{TAP Weight \%} * \text{Paint Density (lb/gal)} * 5,850 \text{ gallons per year}}{100} / 8,760 \text{ hrs} = \text{TAP lb/hr}$$

North + South + Small + SWBP + Spray + East (when constructed) = Total lb/hr

Total lb/hr shall be compared to 586 EL in IDAPA 58.01.01.586.

- If the facility-wide emissions of the new TAP are below the EL then its use is allowed.
- If the facility-wide emissions of the new TAP are above the EL then the permittee must perform one of the following actions in order to use a paint product that contains the new TAP.
 - Perform an exemption determination in accordance with IDAPA 58.01.01.223 and submit the results to DEQ for concurrence. This determination would include a modeling demonstration.
 - Submit an application for a permit modification to include the new TAP.

If the new paint product qualifies under Scenario G, the new paint product shall be logged, a record of the TAP content calculation shall be maintained, facility-wide lb/hr calculation shall be maintained and the MSDS of the paint product(s) shall be maintained onsite.

[November 11, 2010]

36. New Paint Products Recordkeeping & Reporting

If a new paint product is added to the paint inventory, the permittee shall also maintain a record of the scenario(s) under which the new paint qualifies. These records shall be maintained daily.

[November 11, 2010]

40 CFR 63 SUBPART HHHHHH—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: PAINT STRIPPING AND MISCELLANEOUS SURFACE COATING OPERATIONS AT AREA SOURCES

37. 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Surface Coating Operations, General Compliance Requirements

Unless an exemption from the EPA has been granted to this facility in accordance with 40 CFR 63.11170(a)(2), in accordance with 40 CFR 63.11172(a)(2), on and after January 10, 2011 the permittee shall comply with the applicable emission limitations and requirements of the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH.

- The permittee shall meet the requirements of 40 CFR 63.11173(e)(1). All painters must be certified that they have completed training in the proper spray application of surface coatings and the proper setup and maintenance of spray equipment. The minimum requirements for training and certification are described in 40 CFR 63.11173(f). The spray application of surface coatings is prohibited by persons who are not certified as having completed the training described in 40 CFR 63.11173(f).
- All spray-applied coatings must be applied in a spray booth, preparation station, or mobile enclosure that meets the requirements of 40 CFR 63.11173(e)(2).
 - All spray booths, preparation stations, and mobile enclosures must be fitted with a type of filter technology that is demonstrated to achieve at least 98% capture of paint overspray. The procedure used to demonstrate filter efficiency must be consistent with the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Method 52.1.
 - Spray booths and preparation stations used to refinish complete motor vehicles or mobile equipment must be fully enclosed with a full roof, and four complete walls or complete side curtains, and must be ventilated at negative pressure so that air is drawn into any openings in the booth walls or preparation station curtains. However, if a spray booth is fully enclosed and has seals on all doors and other openings and has an automatic pressure balancing system, it may be operated at up to, but not more than, 0.05 inches water gauge positive pressure.
 - Spray booths and preparation stations that are used to coat miscellaneous parts and products or vehicle subassemblies must have a full roof, at least three complete walls or complete side curtains, and must be ventilated so that air is drawn into the booth. The walls and roof of a booth may have openings, if needed, to allow for conveyors and parts to pass through the booth during the coating process.
- All spray-applied coatings must be applied with a high volume, low pressure (HVLP) spray gun, electrostatic application, airless spray gun, or air-assisted airless spray gun, in accordance with 40 CFR 63.11173(e)(3).
- All paint spray gun cleaning must be done so that an atomized mist or spray of gun cleaning solvent and paint residue is not created outside of a container that collects used gun cleaning solvent, in accordance with 40 CFR 63.11173(e)(4). Spray gun cleaning may be done by using a fully enclosed spray gun washer.
- Each owner or operator must ensure and certify that all new and existing personnel, including contract personnel, who spray apply surface coatings, as defined in 40 CFR 63.11180, are trained in the proper application of surface coatings as required by 40 CFR 63.11173(e)(1), in accordance with 40 CFR 63.11173(f). The training program must include, at a minimum:
 - A list of all current personnel by name and job description who are required to be trained;
 - Hands-on and classroom instruction that addresses, at a minimum, initial and refresher training in the following topics:

Spray gun equipment selection, set up, and operation, including measuring coating viscosity, selecting the proper fluid tip or nozzle, and achieving the proper spray pattern, air pressure and volume, and fluid delivery rate;

Spray technique for different types of coatings to improve transfer efficiency and minimize coating usage and overspray, including maintaining the correct spray gun distance and angle to the part, using proper banding and overlap, and reducing lead and lag spraying at the beginning and end of each stroke;

Routine spray booth and filter maintenance, including filter selection and installation; and

Environmental compliance with the requirements of 40 CFR 63, Subpart HHHHHH.

- A description of the methods to be used at the completion of initial or refresher training to demonstrate, document, and provide certification of successful completion of the required training.
- All new and existing personnel at the facility, including contract personnel, who spray apply surface coatings, as defined in 40 CFR 63.11180, must be trained by the dates specified in 40 CFR 63.11173(g). Employees who transfer within a company to a position as a painter are subject to the same requirements as a new hire.
 - All personnel must be trained and certified no later than 180 days after hiring or no later than January 10, 2011, whichever is later. Painter training that was completed within five years prior to the date training is required, and that meets the requirements specified in 40 CFR 63.11173(f)(2) of this section satisfies this requirement and is valid for a period not to exceed five years after the date the training is completed.
 - Training and certification will be valid for a period not to exceed five years after the date the training is completed, and all personnel must receive refresher training that meets the requirements of this section and be re-certified every five years.
- The parts of the General Provisions which apply to the permittee are specified in Table 6, in accordance with 40 CFR 63.11174(a).

Table 6 APPLICABILITY OF GENERAL PROVISIONS TO SUBPART HHHHHH OF PART 63

Citation	Subject	Explanation
40 CFR 63.1(a)(1)-(12)	General Applicability	
40 CFR 63.1(b)(1)-(3)	Initial Applicability Determination	Applicability of subpart HHHHHH is also specified in 40 CFR 63.11170.
40 CFR 63.1(c)(1)	Applicability After Standard Established	
40 CFR 63.1(c)(2)	Applicability of Permit Program for Area Sources	
40 CFR 63.1(c)(5)	Notifications	
40 CFR 63.2	Definitions	Additional definitions are specified in 40 CFR 63.11180.
40 CFR 63.3(a)-(c)	Units and Abbreviations	
40 CFR 63.4(a)(1)-(5)	Prohibited Activities	
40 CFR 63.4(b)-(c)	Circumvention/Fragmentation	
40 CFR 63.6(a)	Compliance With Standards and Maintenance Requirements—Applicability	
40 CFR 63.6(b)(1)-(7)	Compliance Dates for New and Reconstructed Sources	40 CFR 63.11172 specifies the compliance dates.
40 CFR 63.6(c)(1)-(5)	Compliance Dates for Existing Sources	40 CFR 63.11172 specifies the compliance dates.
40 CFR 63.6(e)(1)-(2)	Operation and Maintenance	
40 CFR 63.6(f)(1)	Compliance Except During Startup, Shutdown, and Malfunction	
40 CFR 63.6(f)(2)-(3)	Methods for Determining Compliance	
40 CFR 63.6(g)(1)-(3)	Use of an Alternative Standard	
40 CFR 63.6(i)(1)-(16)	Extension of Compliance	
40 CFR 63.6(j)	Presidential Compliance Exemption	

Citation	Subject	Explanation
40 CFR 63.9(a)-(d)	Notification Requirements	40 CFR 63.11175 specifies notification requirements.
40 CFR 63.9(i)	Adjustment of Submittal Deadlines	
40 CFR 63.9(j)	Change in Previous Information	40 CFR 63.11176(a) specifies the dates for submitting the notification of changes report.
40 CFR 63.10(a)	Recordkeeping/Reporting—Applicability and General Information	
40 CFR 63.10(b)(1)	General Recordkeeping Requirements	Additional requirements are specified in 40 CFR 63.11177.
40 CFR 63.10(b)(2)(xii)	Waiver of recordkeeping requirements	
40 CFR 63.10(b)(2)(xiv)	Records supporting notifications	
40 CFR 63.10(b)(3)	Recordkeeping Requirements for Applicability Determinations	
40 CFR 63.10(d)(1)	General Reporting Requirements	Additional requirements are specified in 40 CFR 63.11176.
40 CFR 63.10(d)(4)	Progress Reports for Sources With Compliance Extensions	
40 CFR 63.10(f)	Recordkeeping/Reporting Waiver	
40 CFR 63.12	State Authority and Delegations	
40 CFR 63.13	Addresses of State Air Pollution Control Agencies and EPA Regional Offices	
40 CFR 63.14	Incorporation by Reference	Test methods for measuring paint booth filter efficiency and spray gun transfer efficiency in 40 CFR 63.11173(e)(2) and (3) are incorporated and included in 40 CFR 63.14.
40 CFR 63.15	Availability of Information/Confidentiality	
40 CFR 63.16(a)	Performance Track Provisions—reduced reporting	

[November 11, 2010]

38. 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Surface Coating Operations, Recordkeeping Requirements

Unless an exemption from the EPA has been granted to this facility in accordance with 40 CFR 63.11170 (a)(2), in accordance with 40 CFR 63.11172(a)(2), on and after January 10, 2011 the permittee shall comply with the applicable emission limitations and requirements of the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH.

- The permittee shall keep the following records in accordance with 40 CFR 63.11177(a) through (d) and (h).
 - Certification that each painter has completed the training specified in 40 CFR 63.11173(f) with the date the initial training and the most recent refresher training was completed.
 - Documentation of the filter efficiency of any spray booth exhaust filter material, according to the procedure in 40 CFR 63.11173(e)(2).
 - Copies of any notification submitted as required by 40 CFR 63.11175 and copies of any report submitted as required by 40 CFR 63.11176.
 - Records of any deviation from the requirements in 40 CFR 63.11173, 63.11174, 63.11175, or 63.11176. These records must include the date and time period of the deviation, and a description of the nature of the deviation and the actions taken to correct the deviation.
 - Records of any assessments of source compliance performed in support of the initial notification, notification of compliance status, or annual notification of changes report.

- The permittee shall maintain copies of the records specified in 40 CFR 63.11177 for a period of at least five years after the date of each record in accordance with 40 CFR 63.11178(a). Copies of records must be kept on site and in a printed or electronic form that is readily accessible for inspection for at least the first two years after their date, and may be kept off-site after that two year period.
- In accordance with 40 CFR 63.11178(a), the permittee shall maintain copies of the records specified in 40 CFR 63.11177 for a period of at least five years after the date of each record. Copies of records must be kept on site and in a printed or electronic form that is readily accessible for inspection for at least the first two years after their date, and may be kept off-site after that two year period.

[November 11, 2010]

39. Incorporation of Federal Requirements by Reference

Unless expressly provided otherwise, any reference in this permit to any document identified in IDAPA 58.01.01.107.03 shall constitute the full incorporation into this permit of that document for the purposes of the reference, including any notes and appendices therein. Documents include, but are not limited to:

- National Emission Standards for Hazardous Air Pollutants (NESHAP) Area Sources, 40 CFR Part 63, Subpart HHHHHH.

For permit conditions referencing or cited in accordance with any document incorporated by reference (including permit conditions identified as NESHAP), should there be any conflict between the requirements of the permit condition and the requirements of the document, the requirements of the document shall govern, including any amendments to that regulation.

[November 11, 2010]

40. 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Surface Coating Operations, Notifications

Unless an exemption from the EPA has been granted to this facility in accordance with 40 CFR 63.11170 (a)(2), in accordance with 40 CFR 63.11172(a)(2), on and after January 10, 2011 the permittee shall comply with the applicable emission limitations and requirements of the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH.

- Initial Notification. The permittee must submit the initial notification required by 40 CFR 63.9(b) in accordance with 40 CFR 63.11175(a). For this existing source, you must submit the Initial Notification no later than January 11, 2010. The initial notification must provide the following information.
 - The company name, if applicable;
 - The name, title, street address, telephone number, e-mail address (if available), and signature of the owner and operator, or other certifying company official;
 - The street address (physical location) of the affected source and the street address where compliance records are maintained, if different.
 - An identification of the relevant standard, such as 40 CFR part 63, Subpart HHHHHH;
 - A brief description of the type of operation. For all surface coating operations, indicate whether the source is a motor vehicle and mobile equipment surface coating operation or a miscellaneous surface coating operation, and include the number of spray booths and preparation stations, and the number of painters usually employed at the operation.
 - A statement of whether the source is already in compliance with each of the relevant requirements of this subpart, or whether the source will be brought into compliance by the compliance date.

- The permittee must certify in the initial notification whether the source is in compliance with each of the requirements of 40 CFR 63, Subpart HHHHHH. If the permittee is certifying in the initial notification that the source is in compliance with the relevant requirements of this subpart, then include also a statement by a responsible official with that official's name, title, phone number, email address (if available) and signature, certifying the truth, accuracy, and completeness of the notification, a statement that the source has complied with all the relevant standards of this subpart, and that this initial notification also serves as the notification of compliance status.
- Notification of Compliance Status. The permittee is not required to submit a separate notification of compliance status in addition to the initial notification provided the permittee was able to certify compliance on the date of the initial notification as part of the initial notification, and the permittee's compliance status has not since changed in accordance with 40 CFR 63.11175(b). The permittee must submit a Notification of Compliance Status by March 11, 2011. The permittee is required to submit the following information with the Notification of Compliance Status:
 - The company's name and the street address (physical location) of the affected source and the street address where compliance records are maintained, if different.
 - The name, title, address, telephone, e-mail address (if available) and signature of the owner and operator, or other certifying company official, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart or an explanation of any noncompliance and a description of corrective actions being taken to achieve compliance. For surface coating operations, the relevant requirements are specified in 40 CFR 63.11173(e) through (g).
 - The date of the Notification of Compliance Status.

[November 11, 2010]

41. 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Surface Coating Operations, Reports

Unless an exemption from the EPA has been granted to this facility in accordance with 40 CFR 63.11170 (a)(2), in accordance with 40 CFR 63.11172(a)(2), on and after January 10, 2011 the permittee shall comply with the applicable emission limitations and requirements of the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH

- Annual Notification of Changes Report. In accordance with 40 CFR 63.11176, the permittee is required to submit a report in each calendar year in which information previously submitted in either the initial notification required by 40 CFR 63.11175(a), Notification of Compliance, or a previous annual notification of changes report submitted has changed. Deviations from the relevant requirements in 40 CFR 63.11173(a) through (d) or 40 CFR 63.11173(e) through (g) on the date of the report will be deemed to be a change. The annual notification of changes report must be submitted prior to March 1 of each calendar year when reportable changes have occurred and must include the following information.
 - The company's name and the street address (physical location) of the affected source and the street address where compliance records are maintained, if different.
 - The name, title, address, telephone, e-mail address (if available) and signature of the owner and operator, or other certifying company official, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart or an explanation of any noncompliance and a description of corrective actions being taken to achieve compliance.

- Any notifications or reporting required by the National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH or Subpart A – General Provisions shall be submitted to both of the following addresses in accordance with 40 CFR 63.13:

EPA Region 10
Director, Office of Air Quality
1200 Sixth Avenue
(OAQ-107)
Seattle, WA 98101

And,

Air Quality Permit Compliance
Department of Environmental Quality
Boise Regional Office
1445 N. Orchard Street
Boise, ID 83706
Phone: (208) 373-0550
Fax: (208) 373-0287

[November 11, 2010]

SOUTH LARGE PAINT SHOP – PAINT BOOTHS #1 & #2

42. Process Description

The South Large Paint Shop is located in the southwestern corner of the MPI Apple Street facility, adjacent to the North Large Paint Shop. The paint shop is used to paint manufactured or remanufactured locomotives. The South Large Paint Shop is comprised of two booths (the east and the west booth). The western booth exhausts at height of 31 ft through two stacks, each with average flow rate of 17,500 actual cubic feet per minute (acfm). The eastern booth exhausts at height of 27 ft through two stacks, each with average flow rate of 12,900 acfm.

43. Emissions Control Description

The PM₁₀ emissions from both sets of vents are controlled by a bank of filters having a control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

Emission Limits

44. Emission Limits

The PM₁₀ emissions from each spray booth stack of the South Large Paint Shop shall not exceed 0.2545 pound per day (lb/day).

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and recordkeeping requirements.

[February 26, 2010]

Operating Requirements

45. Paint Throughput Limit

The maximum amount of each individual paint product shall not exceed 46 gallons per day.

The maximum amount of all paint products sprayed at the South Large Paint Shop shall not exceed 75 gallons per day (gal/day).

The maximum amount of all paint products sprayed at the South Large Paint Shop shall not exceed 16,000 gallons per any consecutive 12-month period (gal/yr).

The Daily Weighted Average solids content of all paint products sprayed at the South Large Paint Shop shall not exceed 8.16 lb/gal.

[September 22, 2011]

46. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across each of the spray paint booth filter systems.

47. O&M Manual

The permittee shall have developed an operation and maintenance manual for the South Large Paint Shop's air pollution control equipment according to manufacturer specifications and recommendations. The pressure drop across the paint filtration systems shall be maintained within manufacturer and O&M manual specifications. The pressure drop across both air pollution control systems shall be monitored and recorded daily. The O&M manual shall address the operation, maintenance, and repair of the South Large Paint Shop's air pollution control systems and shall, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the South Large Paint Shop's air pollution control equipment in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

48. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the following information in records:

- The total amount of paint products sprayed in the South Large Paint Shop in gallons per day and gallons per year to demonstrate compliance with the emissions and throughput limit permit conditions. Annual throughput shall be determined by summing each monthly throughput over the previous 12-month period.
- The pressure drop across each spray paint booth filter system shall be recorded once per week when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The amount of each individual paint product sprayed in the South Large Paint Shop in gallons per day to demonstrate compliance with the paint throughput limit permit condition.
- The Daily Weighted Average solids content of all paint products sprayed at the South Large Paint shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

49. Control Efficiency Documentation

The permittee shall document that the control efficiency of the bank of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

NORTH LARGE PAINT SHOP – PAINT BOOTHS #3 & #4

50. Process Description

The North Large Paint Shop is located in the southwest corner of the MPI Apple Street facility. The North Large Paint Shop contains two paint booths used to paint locomotives or component parts. Each booth is equipped with a 48,400 acfm air handling system. Emissions from each booth are vented through two stacks, each 39 ft above ground level.

51. Emissions Control Description

The PM₁₀ emissions from both booths are controlled by a bank of filters having a particulate control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

Emission Limits

52. Emission Limits

The PM₁₀ from each spray booth stack of the North Large Paint Shop shall not exceed 0.2545 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

53. Paint Throughput Limit

The maximum amount of each individual paint product shall not exceed 46 gal/day.

The maximum amount of all paint products sprayed at the North Large Paint Shop shall not exceed 75 gal/day.

The maximum amount of all paint products sprayed at the North Large Paint Shop shall not exceed 16,000 gal/yr.

The Daily Weighted Average solids content of all paint products sprayed at the North Large Paint Shop shall not exceed 8.16 lb/gal.

[September 22, 2011]

54. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the exhaust filters in each paint booth.

55. O&M Manual

The permittee shall have developed an operation and maintenance manual for the North Large Paint Shop's air pollution control equipment according to manufacturer specifications and recommendations. The O&M manual shall address the operation, maintenance, and repair of the North Large Paint Shop's air pollution control systems and shall include, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall stipulate that all filter pads be replaced according to manufacturer specifications and recommendations. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the North Large Paint Shop's air pollution control equipment in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

56. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the following information in records:

- The total amount of paint products sprayed in the North Large Paint Shop in gallons per day and gallons per year to demonstrate compliance with the emissions and throughput limit permit conditions. Annual throughput shall be determined by summing each monthly throughput over the previous 12-month period.
- The pressure drop across each spray paint booth filter system shall be recorded once per week when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The amount of each individual paint product sprayed in the North Large Paint Shop in gallons per day to demonstrate compliance with the paint throughput limit permit condition.
- The Daily Weighted Average solids content of all paint products sprayed at the North Large Paint Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

57. Control Efficiency Documentation

The permittee shall document that the control efficiency of the bank of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

STRIP-WASH-BLAST-PAINT BUILDING - PAINT BOOTH #5

58. Process Description

The Strip-Wash-Blast-Paint (SWBP) Building is located near the northern property boundary of the MPI Apple Street facility. The building is comprised of four separate sections, including a strip section, a wash section, an abrasive shot blasting and primer painting section, and a mechanical and locker/break room section. The strip section is designed for the disassembly of locomotives. The wash section is used to wash the locomotive frame, car body, and miscellaneous equipment. Minor welding takes place in the mechanical room. The blast and paint section is used for steel-grit blasting of locomotive frames and components to remove old paint and rust. The booth is designed so that either painting or blasting can occur at any one time, but never simultaneously. Blasting and primer painting make-up air is provided by two, 4.5 MMBtu/hr natural gas-fired heaters. The dual-use shot-blasting/primer booth has a separate exhaust system for shot-blasting and painting. Emissions from each booth are vented through two stacks, each with an average flow rate of 31,380 acfm. Permit conditions specific to blasting operations in Booth #5 are contained in Permit Conditions 91 through 96.

[September 22, 2011]

59. Emissions Control Description

The PM₁₀ emissions from the painting operation at the SWBP building are controlled by a paint-arrestor filter system with a control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

[September 22, 2011]

Emission Limits

60. Emission Limits

The PM₁₀ emissions from each spray booth stack at the SWBP building shall not exceed 0.1616 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[September 22, 2011]

Operating Requirements

61. Paint Throughput Limit

The permittee shall comply with the following limits:

- The maximum amount of each individual paint product shall not exceed 25 gal/day.
- The total amount of all paint products containing 1,6 - hexamethylene diisocyanate shall not exceed 25 gal/day.
- The maximum amount of paint products used at the paint booth shall not exceed 50 gal/day.
- The maximum amount of paint products used at the paint booth shall not exceed 10,500 gal/yr.
- Paint products that contain cadmium or chromium shall not be used in the paint booth, as per applicant submittal.
- The Daily Weighted Average solids content of all paint products sprayed at the SWBP Paint Shop shall not exceed 8.16 lb/gal.

[September 22, 2011]

62. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the paint-arrestor filter system.

[September 22, 2011]

63. O&M Manual

The permittee shall have developed an operation and maintenance manual for the air pollution control equipment of the SWBP building according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The pressure drop across the air pollution control equipment shall be monitored and recorded once daily. The O&M manual shall address the operation, maintenance, and repair of the SWBP building air pollution control equipment and shall, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the air pollution control equipment of the SWBP building in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

64. Recordkeeping Requirements

The permittee shall monitor and record the following information in records:

- For each paint product used in the paint booth, record the usage rate in gallons per month (gal/mo) and gallons per year.
- For each paint product used in the paint booth, record the VOC content in pounds per gallon (lb/gal).
- For each paint product used in the paint booth, calculate and record the VOC usage in pounds per month (lb/mo). To calculate the VOC usage, multiply the usage rate (gal/mo) by the VOC content (lb/gal) for each paint product used.
- Once monthly, calculate and record the total amount of VOC usage of the paint booth in pounds per month. To calculate the total VOC usage, add all of the individual VOC usage amounts for each paint product that was recorded in the bullet point above. This VOC usage amount will then be used to demonstrate compliance with the facility-wide VOC limit permit condition.
- The pressure drop across the paint-arrestor filter system once on a daily basis when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The amount of each individual paint product sprayed in the Strip-Wash-Blast-Paint building in gallons per day to demonstrate compliance with the paint throughput limit permit condition.
- The total amount of all paint products containing 1,6 - hexamethylene diisocyanate in gallons per day to demonstrate compliance with the paint throughput limit permit condition (bullet point#2).
- The Daily Weighted Average solids content of all paint products sprayed at the SWBP Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

65. Control Efficiency Documentation

The permittee shall document that the control efficiency of a pulse-jet dust collector system and the paint-arrestor filter system meets the control efficiency specified in the emissions control description permit condition, respectively.

[February 26, 2010]

SMALL PAINT SHOP – PAINT BOOTH #6

66. Process Description

The Small Paint Shop is located in the central portion of the MPI Apple Street facility. The shop contains one paint booth and is used to paint small parts, car bodies, high voltage cabinets, locomotive fuel tanks, and various other locomotive parts. The booth exhausts at a height of 23 ft through two stacks, each with an average flow rate of 17,500 acfm. The booth is heated by 0.96 MMBtu/hr heaters to cure freshly applied paint.

67. Emissions Control Description

The PM₁₀ emissions from the paint booth are controlled by a bank of filters with a control efficiency of 99.58%. The VOC emissions are uncontrolled.

Emission Limits

68. Emission Limits

The PM₁₀ emissions from each Small Paint Shop stack shall not exceed 0.51 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

69. Paint Throughput Limit

The maximum amount of each individual paint product shall not exceed 46 gal/day.

The maximum amount of all paint products sprayed at the Small Paint Shop shall not exceed 75 gal/day.

The maximum amount of all paint products sprayed at the Small Paint Shop shall not exceed 5,000 gal/yr.

The Daily Weighted Average solids content of all paint products sprayed at the Small Paint Shop shall not exceed 8.16 lb/gal.

[September 22, 2011]

70. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the Small Paint Booth filter system.

71. O&M Manual

The permittee shall have developed an operation and maintenance manual for the air pollution control equipment of the Small Paint Shop according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The pressure drop across both air pollution control equipment shall be monitored and recorded once daily. The O&M manual shall address the operation, maintenance, and repair of the Small Paint Shop's air pollution control equipment and shall, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the air pollution control equipment of the Small Paint Shop in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

72. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the following information in records:

- The total amount of paint products sprayed in the Small Paint Shop in gallons per day and gallons per year to demonstrate compliance with the emissions and throughput limit permit conditions. Annual throughput shall be determined by summing each monthly throughput over the previous 12-month period.
- The pressure drop across the spray paint booth filter system shall be recorded once per day when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The amount of each individual paint product sprayed in the Small Paint Shop in gallons per day to demonstrate compliance with the paint throughput limit permit condition.
- The Daily Weighted Average solids content of all paint products sprayed at the Small Paint Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

73. Control Efficiency Documentation

The permittee shall document that the control efficiency of the bank of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

SPRAY PAINT BOOTH – PAINT BOOTH #7

74. Process Description

The Spray Paint Booth is located in the northeast section of the Truck and Engine Annex (TEA) building at Braniff Street. It is a Protectaire Model 530 DTT. The spray booth is used for painting locomotive engines and trucks. There is one exhaust stack that vents from the TEA paint booth. The stack exhausts at height of 35 ft, with an average flow rate of 23,400 acfm.

75. Emissions Control Description

The PM₁₀ emissions from the Spray Paint Booth are controlled by a bank of filters with a control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

Emission Limits

76. Emission Limits

The PM₁₀ emissions from the Spray Paint Booth stack shall not exceed 0.2714 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

77. Paint Throughput Limit

The maximum amount of all paint products sprayed at the Spray Paint Booth shall not exceed 20 gal/day.

The maximum amount of all paint products sprayed at the Spray Paint Booth shall not exceed 3,000 gal/yr.

The Daily Weighted Average solids content of all paint products sprayed at the Spray Paint Booth shall not exceed 8.16 lb/gal.

[September 22, 2011]

78. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the Spray Paint Booth filter system.

79. O&M Manual

The permittee shall have developed an operation and maintenance manual for the air pollution control equipment of the Spray Paint Booth according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The pressure drop across both air pollution control equipment shall be monitored and recorded once daily. The O&M manual shall address the operation, maintenance, and repair of the Spray Paint Booth's air pollution control equipment and shall, at a minimum, include a general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the air pollution control equipment of the Spray Paint Booth in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

80. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the following information in records:

- The total amount of paint products sprayed in the Spray Paint Booth in gallons per day and gallons per year to demonstrate compliance with the emissions and throughput limit permit conditions. Annual throughput shall be determined by summing each monthly throughput over the previous 12-month period.
- The pressure drop across the spray paint booth filter system shall be recorded once per day when operating to demonstrate compliance with the pressure drop monitoring permit condition.
- The Daily Weighted Average solids content of all paint products sprayed at the Spray Paint Booth Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

81. Control Efficiency Documentation

The permittee shall document that the control efficiency of the bank of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

EAST PAINT SHOP BUILDING – PAINT BOOTHS #8 AND #9

82. Process Description

The East Paint Shop Building is located south of the SWBP building at the MPI Apple Street. The paint shop is used to apply paint products to locomotive components and parts (i.e., hoods, cabs, etc.). The East Paint Shop contains two fully enclosed spray paint booths manufactured by Spray Booth Systems (SBS), Model No. SBS 2346-889. Each paint booth is 20 ft wide x 21 ft high and 80 ft long. Each booth exhausts to two stacks, each 36 ft above ground with average flow rate of 21,000 acfm. The shop also contains two natural gas fired heaters each with a rated heat input capacity of 3.3 MMBtu/hr.

83. Emissions Control Description

The PM₁₀ emissions from the East Paint Shop are controlled by two banks of filters with a control efficiency of 99.58% as per the manufacturer. The VOC emissions are uncontrolled.

Emission Limits

84. Emission Limits

The PM₁₀ emissions from each the Spray Paint Booth stack shall not exceed 0.8313 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

85. Paint Throughput Limit

The maximum amount of any one paint product sprayed at the East Paint Shop Building shall not exceed 46 gallons per day.

The maximum amount of all paint products sprayed at the East Paint Shop Building shall not exceed 46 gallons per day.

The maximum amount of paint products sprayed at the East Paint Shop Building shall not exceed 5,850 gal/yr.

The Daily Weighted Average solids content of all paint products sprayed at the East Paint Booth shall not exceed 8.16 lb/gal.

[September 22, 2011]

86. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the Spray Paint Booth filter system.

87. O&M Manual

Within 60 days of startup, the permittee shall have developed an operation and maintenance manual for each spray paint booth filter system of the East Paint Shop according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The manual shall contain at a minimum, the following: the recommended pressure drop operating range for the filter system; the routine maintenance and repair procedures for the filter system; and the routine replacement schedule for the filters. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate each spray paint booth filter system of the East Paint Shop in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

88. Pressure Drop Across Filter System

The pressure drop across the spray paint booth filter systems shall be maintained within manufacturer and O&M manual specifications. Documentation of both the manufacturer and O&M manual operating pressure drop specifications shall remain on site at all times and shall be made available to DEQ representatives upon request.

Monitoring and Recordkeeping Requirements

89. Throughput and Pressure Drop Monitoring

The permittee shall monitor and record the total amount of paint sprayed in the spray paint booths monthly and annually to demonstrate compliance with the paint throughput limit permit condition. Annual throughput shall be determined by summing each monthly throughput over the previous consecutive 12-month period.

The permittee shall monitor and record the differential pressure across the spray paint booth filter systems once per week when operating to demonstrate compliance with the pressure drop monitoring permit condition.

The Daily Weighted Average solids content of all paint products sprayed at the East Paint Shop in one day in lb/gal to demonstrate compliance with the solid content limit.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[September 22, 2011]

90. Control Efficiency Documentation

The permittee shall document that the control efficiency of the two banks of filters meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

BEAD-BLAST ENCLOSURES (4 UNITS) MPI, APPLE STREET

91. Process Description

The Locomotive shop bead blast enclosure is a Cycloblast Model 4836-DC100 with bag filters. The blast media is fine-grained, rounded, glass beads – potter quality Ballotini impact beads, type vi, class 2. The exhaust flow rate is approximately 775 acfm at ambient temperature (293 K). Air from the dust filtration system stack is exhausted outside the building. The unit was installed in 1984.

SWBP Shop bead blast enclosure was originally installed in the Component Shop in 1984, and was relocated adjacent to SWBP Shop Booth #5 in 2011. This enclosure is a Cycloblast Model 4836-F with bag filters. The blast media is fine-grained, rounded, glass beads – potter quality Ballotini impact beads, type vi, class 2. The exhaust flow rate is approximately 775 acfm at ambient temperature (293 K). Exhaust from the bag filters receives secondary treatment as it passes through the pulse-jet dust collector system which services Booth #5.

SWBP Shop Booth #5 is used for both blasting and painting (never simultaneously) through the use of a dual blast and prime system with some shared components. The area is about 100 ft. by 50 ft. by 34 ft. high. Steel grit is used as the blasting media. The particulate emissions from blasting are controlled by a pulse-jet dust collector system.

The Component Shop nutshell blasting unit with a dust filtration system uses Trinco nutshells as the abrasive media and is located outside the air brake room. The maximum capacity is 63 lb/hr media throughput. The exhaust flow rate is approximately 775 scfm. Air from the dust filtration system stack is exhausted inside the building. The unit was installed in 1997.

[September 22, 2011]

92. Emissions Control Description

Locomotive Shop bead blast enclosure: particulate emissions are controlled by a baghouse with 98% control efficiency.

SWBP Shop bead blast enclosure: particulate emissions are controlled by a baghouse, followed in series by a pulse-jet dust collector with 99.9% control efficiency.

SWBP Shop Booth #5: particulate emissions from the shot-blasting operations are controlled by a pulse-jet dust collector system with 99.9% control efficiency.

Component Shop nutshell blasting unit: the dust filtration system is exhausted inside the building.

[September 22, 2011]

Emission Limits

93. Emission Limits

The PM₁₀ emissions from the shot-blast booth stacks at the SWBP building shall not exceed 1.24 lb/day.

The PM₁₀ emissions from the Locomotive Shop Unit stack shall not exceed 15.9 lb/day

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[September 22, 2011]

Operating Requirements

94. Throughput Limit & Operating Requirements

Locomotive Shop bead blast enclosure: the maximum amount of blast media throughput shall not exceed 960 lb/hr, based on 24-hour average time period or 11.52 T/day.

SWBP Shop bead blast enclosure: the maximum amount of blast media throughput shall not exceed 960 lb/hr, based on 24-hour average time period or 11.52 T/day.

SWBP Shop Booth #5:

- the maximum amount of steel grit blasting media throughput shall not exceed 282 T/day.
- The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the pulse-jet dust collector system.

Component Shop nutshell blasting unit: air from the dust filtration system shall be exhausted inside the building.

Emissions from all four units (the Locomotive Shop bead blast enclosure, the SWBP Shop bead blast enclosure, SWBP Booth #5, and the Component Shop nutshell blasting unit) shall be controlled by each respective dust filtration system.

[September 22, 2011]

95. O&M Manual

The permittee shall have developed an operation and maintenance manual for the air pollution control equipment for each blasting unit according to manufacturer specifications and recommendations. The O&M manual shall address the operation, maintenance, and repair of the unit, and shall include, at a minimum, the following: the general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

If there are any changes to the self-developed operation and maintenance manual for any unit, an updated manual shall be submitted to DEQ within 15 days of the changes.

The permittee shall operate each unit in accordance with the respective O&M manual required in this permit condition.

[September 22, 2001]

96. Documentation

Locomotive Shop bead blast enclosure: the permittee shall keep the following documentation to demonstrate that the media throughput capacity does not exceed 960 lb/hr:

- The nozzle size in use
- The pressure at the nozzle
- The corresponding blast media throughput capacity
- Records of any changes to the nozzle size and the pressure at the nozzle

SWBP Shop bead blast enclosure: the permittee shall keep the following documentation to demonstrate that the media throughput capacity does not exceed 960 lb/hr:

- The nozzle size in use
- The pressure at the nozzle
- The corresponding blast media throughput capacity
- Records of any changes to the nozzle size and the pressure at the nozzle

SWBP Shop Booth #5: the permittee shall keep the following documentation to demonstrate compliance with media throughput and particulate matter control efficiency:

- The amount of steel grit in tons per day throughput in the blasting booth at the SWBP building.
- The pressure drop across the blasting pulse-jet dust collector system once on a daily basis.

[September 22, 2011]

BEAD-BLAST ENCLOSURES (2 UNITS), TEA, BRANIFF STREET

97. Process Description

The bead-blast enclosures use fine-grained, rounded, glass beads – potter quality Ballotini impact beads, type vi, class 2. The enclosures consist of the following two units: Cycloblast Model 4836-DC100 (Unit 1) bead-blast enclosure and Pangorn-S3 (Unit 2) bead-blast enclosure. The Unit 1 enclosure has one stack with a flow rate of 775 acfm and was constructed in 1990. The Unit 2 enclosure has one stack with a flow rate of 1,500 acfm and was constructed in 1996.

98. Emissions Control Description

The PM₁₀ emissions from each of the enclosures are controlled by a baghouse with 98% control efficiency.

Emission Limits

99. Emission Limits

The PM₁₀ emissions from each of the enclosure stacks shall not exceed 1.90 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

100. Operating Requirements

The maximum amount of blast media throughput at each of the enclosure units shall not exceed 115 lb/hr, based on 24-hour average time period or 2,760 lb/day.

Emissions from the bead-blast enclosures shall be controlled by each respective dust filtration system.

[February 26, 2010]

101. O&M Manual

The permittee shall have developed an operation and maintenance manual for the Bead Blast Enclosures air pollution control systems according to manufacturer specifications and recommendations. The air pollution control equipment operating parameters shall be maintained within manufacturer and O&M manual specifications. The O&M manual shall address the operation, maintenance, and repair of the Bead Blast Enclosures air pollution control systems, and shall include, at a minimum, the following: the general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the Bead Blast Enclosures air pollution control systems in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

102. Throughput Monitoring

The permittee shall monitor and record the following information in records:

- The amount of blast media throughput in pounds per day at each of the enclosure units when operating.
- The daily hours of operation for each enclosure when operating.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

103. Documentation

The permittee shall keep the following documentation:

- The nozzle size in use
- The pressure at the nozzle
- The corresponding blast media throughput capacity
- Records of any changes to the nozzle size and the pressure at the nozzle

[February 26, 2010]

SHOT-BLAST BOOTH, TEA, BRANIFF STREET

104. Process Description

The shot-blast booth is a Hoffman Schmidt/Abrasive Steel Shot Blaster. The booth is located in the northwestern corner of the main TEA building. The shot-blast booth uses steel-grit media for blasting process. The booth has one stack with a flow rate of 8,500 acfm. The booth was constructed in 1994.

105. Emissions Control Description

Particulate emissions from the booth are controlled by a Torit Model HDFT2-16 Downflow Cartridge Dust Collector that has a control efficiency of 99%.

Emission Limits

106. Emission Limits

The PM₁₀ emissions from the Shot-Blast Booth stack shall not exceed 21.12 lb/day.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

107. Blast Media Throughput Limits

The maximum amount of steel-grit media throughput at the Shot-Blast Booth shall not exceed 48,000 lb/hr.

108. Pressure Drop Monitoring Device

The permittee shall install, calibrate, maintain, and operate, according to manufacturer's specifications and recommendations, a pressure drop monitoring device to measure the pressure drop across the dust collector.

109. Hours of Operation Limits

The maximum annual hours of operation of the Shot-Blast Booth shall not exceed 4,380 hours per any consecutive 12-month period.

The Shot-Blast Booth shall not be operated between 1:00 am and 5:00 am each day.

[February 26, 2010]

110. O&M Manual

The permittee shall have developed an O & M manual for the Shot-Blast Booth air pollution control system according to manufacturer specifications and recommendations. The pressure drop across the air pollution control equipment shall be maintained within manufacturer and O&M manual specifications. The O&M manual shall address the operation, maintenance, and repair of the Shot-Blast Booth air pollution control system, and shall include, at a minimum, the following: the general description, normal operating conditions and procedures, methods of preventing malfunctions, appropriate corrective actions to be taken, and provisions for weekly inspections. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the Shot-Blast Booth air pollution control system in accordance with the O&M manual required in this permit condition.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

111. Operating Limits Monitoring

The permittee shall monitor and record the following information in records:

- The amount of blast media used in pounds per day at the Shot-Blast Booth.
- The number of hours of operation of the Shot-Blast Booth in hours per day and hours per any consecutive 12-month period.
- Clock time for each operating duration of the Shot-Blast Booth every day.
- The pressure drop across the dust collector of the Shot-Blast Booth shall be recorded daily. Pressure drop recordings are not required on days the Shot-Blast Booth is not in operation.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[February 26, 2010]

112. Control Efficiency Documentation

The permittee shall document that the control efficiency of the dust collector meets the control efficiency specified in the emissions control description permit condition.

[February 26, 2010]

COMPRESSOR TEST STAND ENGINE, TEA, BRANIFF STREET

113. Process Description

The air compressor test stand, which is located at the north of the main building at the TEA (south of the Proceco Parts Washer) is powered by a 1965 4-cylinder 98 horsepower Cummins, diesel-fired internal combustion engine. The diesel engine that powers the compressor test stand has a maximum fuel consumption of 5.7 gallons of diesel fuel per hour under a load of 1800 rpm. The operation of the diesel engine is limited to powering the compressor test stand engine.

[February 26, 2010]

114. Emissions Control Description

Emissions from the Compressor Test Stand Engine are uncontrolled.

Emission Limits

115. Emission Limits

The PM₁₀ emissions from the Compressor Test Stand Engine stack shall not exceed 3.45 lb/day.

The NO_x emissions from the Compressor Test Stand Engine stack shall not exceed 0.9874 T/yr.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring and record keeping requirements.

[February 26, 2010]

Operating Requirements

116. Hours of Operation Limits

The maximum hours of operation of the Compressor Test Stand Engine shall not exceed 650 hours per year.

The Compressor Test Stand Engine shall only be operated between 5:00 am and 9:00 pm.

[February 26, 2010]

117. Operation of Compressor Test Stand Engine

The operation of the diesel engine shall be limited to powering the compressor test stand.

Monitoring and Recordkeeping Requirements

118. Operating Limits Monitoring

The permittee shall monitor and record the following information in records:

- The number of hours of operation of the Compressor Test Stand Engine in hours per day and hours per year.
- Clock time for each operating duration of the Compressor Test Stand Engine every day.

Records of this information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[February 26, 2010]

LOCOMOTIVE ENGINE TEST CELL, TEA, BRANIFF STREET

119. Process Description

The Locomotive Engine Test Cell is located outside the east end of the main TEA building. The locomotive engine is physically removed from the locomotive and mounted on a stationary engine test cell stand. The stand is used for testing the remanufactured locomotive engines in a sound deadening room with the combustion exhaust vented through a muffler system and then to a 21 ft stack. Each engine is tested for a maximum of eight hours at notch # 8 (highest throttle setting). At notch # 8, 175 gallons of No.2 fuel oil is consumed per hour. During testing, each engine consumes approximately 1,500 gallons of diesel oil.

120. Emissions Control Description

Emissions from the Locomotive Engine Test Cell are uncontrolled.

Emission Limits

121. Emission Limits

Emissions from the stack of Locomotive Engine Test Cell shall not exceed any corresponding emissions rate limits listed in Table 7.

Table 7 EMISSIONS LIMITS ¹

PM ₁₀ ²		SO ₂	NO _x	CO
lb/day ⁴	T/yr ³	lb/hr ⁵	T/yr ³	lb/hr ⁵
46.2	3.02	10.7	43.4	50.3

- 1 In absence of any other credible evidence, compliance is assured by complying with this permit's operating, monitoring and record keeping requirements.
- 2 Particulate matter with and aerodynamic diameter less than or equal to a nominal ten (10) micrometers including condensable particulate as defined in IDAPA 58.01.01.006.80.
- 3 Tons per any consecutive 12-calendar month period.
- 4 Pounds per calendar day.
- 5 Pounds per hour clock hour

[February 26, 2010]

Operating Requirements

122. Throughput Limits

The maximum throughput of diesel fuel combusted in the Locomotive Engine Test Cell shall not exceed 1,680 gallons per day.

The maximum throughput of diesel fuel combusted in the Locomotive Engine Test Cell shall not exceed 219,500 gallons per any consecutive 12-month period.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

123. Monitoring Requirements

The permittee shall monitor and record the throughput of diesel fuel combusted in the Locomotive Engine Test Cell in gallons:

- Every calendar day
- Every calendar month by summing the daily throughput in the calendar month.
- Each consecutive 12-month period by summing this month's fuel throughput and the previous consecutive 11-month fuel throughput.

Records of the information shall remain on site for the most recent five-year period and shall be made available to DEQ representatives upon request.

[February 26, 2010]

124. O&M Manual

The permittee shall maintain an O&M manual for the locomotive engine test cell stand. The manual shall describe the procedures that will be followed to comply with the visible emissions limitations contained in IDAPA 58.01.01.625 during the start up of each locomotive engine testing in the locomotive engine test cell stand. This manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

The permittee shall operate the locomotive engine test cell stand in accordance with the O&M manual.

[February 26, 2010]

SELLER BOILERS NOS. 1 AND 2, MPI, APPLE STREET

125. Process Description

MPI has two natural gas-fired boilers that are located at the east end of the locomotive shop. Both are Seller Model 105-E, horizontal immersion steam boilers and each with a rated heat input capacity of 6.7 MMBtu/hr. One boiler is operational, and the other is a backup. The boilers will not operate simultaneously.

126. Emissions Control Description

Emissions from the natural gas-fired boilers are uncontrolled.

Operating Requirements

127. Fuel Specification

Seller boilers Nos. 1 and 2 shall be fueled by natural gas exclusively.

128. Seller boilers Nos. 1 and 2 shall not be operated simultaneously.

[February 26, 2010]

NATURAL GAS-FIRED EMERGENCY GENERATOR

129. Process Description

The MPI is to install a natural gas-fired emergency generator manufactured in September 2009 by Kohler Power Systems with model No. 45REZG. The natural gas-fired emergency generator is rated at 75 HP at maximum load.

[February 26, 2010]

130. Emissions Control Description

Emissions from the natural gas-fired emergency generator are uncontrolled.

[February 26, 2010]

Operating Requirements

131. Fuel Specification

The emergency generator shall be fueled by natural gas exclusively.

[February 26, 2010]

132. Operating Hours

The natural gas-fired emergency generator shall not be operated more than one hour per week, excluding during emergencies.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

133. Monitoring Requirements

The permittee shall monitor and record the operating hours of the natural gas-fired emergency generator every week.

Records of the information shall be retained in accordance with the Recordkeeping General Provision of this permit.

[February 26, 2010]

40 CFR 60 Subpart JJJJ—Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

Emission Standards for Owners and Operators

134. NSPS 40 CFR 60, Subpart JJJJ – § 60.4233 What emission standards must I meet if I am a manufacturer of stationary SI internal combustion engines or equipment containing such engines?

Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) must comply with the emission standards in Table 1 to this subpart for their emergency stationary SI ICE In accordance with 40 CFR 60.4233(d).

Table 1 to Subpart JJJJ of Part 60—NO_x, CO, and VOC Emission Standards for Stationary Non-Emergency SI Engines ≥100 HP (Except Gasoline and Rich Burn LPG), Stationary SI Landfill/Digester Gas Engines, and Stationary Emergency Engines >25 HP

Emission Standards					
g/HP-hr			ppmvd @ 15% O ₂		
NO _x	CO	VOC ^a	NO _x	CO	VOC ^a
2.0	4.0	1.0	160	540	86

a. For purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

[February 26, 2010]

135. NSPS 40 CFR 60, Subpart JJJJ – § 60.4234 How long must I meet the emission standards if I am an owner or operator of a stationary SI internal combustion engine?

Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine.

[February 26, 2010]

Other Requirements for Owners and Operators

136. NSPS 40 CFR 60, Subpart JJJJ – § 60.4236 What is the deadline for importing or installing stationary SI ICE produced in the previous model year?

For emergency stationary SI ICE with a maximum engine power of greater than 19 KW (25 HP), owners and operators may not install engines that do not meet the applicable requirements in §60.4233 after January 1, 2011 in accordance with 40 CFR 4236(c).

[February 26, 2010]

137. NSPS 40 CFR 60, Subpart JJJJ – § 60.4237 What are the monitoring requirements if I am an owner or operator of an emergency stationary SI internal combustion engine?

If you are an owner or operator of an emergency stationary SI internal combustion engine that is less than 130 HP, was built on or after July 1, 2008, and does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter upon startup of your emergency engine in accordance with 40 CFR 60.4237(c).

[February 26, 2010]

Compliance Requirements for Owners and Operators

138. NSPS 40 CFR 60, Subpart JJJJ – § 60.4243 What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?

If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in §60.4233(d) or (e), you must demonstrate compliance according to one of the methods specified in 40 CFR 60.4243(b)(1) and (2) in accordance with 40 CFR 60.4243(b).

40 CFR 60.4243(b)(1) Purchasing an engine certified according to procedures specified in this subpart (i.e., 40 CFR 60.4231(d)), for the same model year and demonstrating compliance according to one of the methods specified in 40 CFR 60.4243(a)

40 CFR 60.4243(a)(1) If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator.

40 CFR 60.4231(d) Stationary SI internal combustion engine manufacturers who choose to certify their emergency stationary SI ICE greater than 25 HP and less than 130 HP, must certify those engines to the Phase 1 emission standards in 40 CFR 90.103, applicable to class II engines, for new nonroad SI engines in 40 CFR part 90.

Phase 1 Exhaust Emission Standards

Engine displacement class	Hydrocarbons+oxides of nitrogen (HC+NO _x)	Hydrocarbons	Carbon monoxide	Oxides of nitrogen (NO _x)
II	13.4	---	519	---

Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Emergency stationary ICE may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this section, is prohibited in accordance with 40 CFR 60.4243(d).

[February 26, 2010]

Notification, Reports, and Records for Owners and Operators

139. NSPS 40 CFR 60, Subpart JJJJ – § 60.4245 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?

Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements in accordance with 40 CFR 60.4245.

40 CFR 60.4245(a) Owners and operators of all stationary SI ICE must keep records of the information in 40 CFR 60.4245(a)(1) through (4) of this section.

(1) All notifications submitted to comply with this subpart and all documentation supporting any notification.

(2) Maintenance conducted on the engine.

(3) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.

[February 26, 2010]

General Provisions

140. NSPS 40 CFR 60, Subpart JJJJ – § 60.4246 What parts of the General Provisions apply to me?

Table 3 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

Table 3 to Subpart JJJJ of Part 60—Applicability of General Provisions to Subpart JJJJ

General provisions citation	Subject of citation	Applies to subpart	Explanation
§60.1	General applicability of the General Provisions	Yes	
§60.2	Definitions	Yes	Additional terms defined in §60.4248.
§60.3	Units and abbreviations	Yes	
§60.4	Address	Yes	Air Quality Permit Compliance Department of Environmental Quality Air Quality Manager Boise Regional Office 1445 N. Orchard Boise, ID 83706-2239 Phone: (208) 373-0550 Fax: (208) 373-0287
§60.5	Determination of construction or modification	Yes	
§60.6	Review of plans	Yes	
§60.7	Notification and Recordkeeping	Yes	Except that §60.7 only applies as specified in §60.4245.
§60.8	Performance tests	Yes	Except that §60.8 only applies to owners and operators who are subject to performance testing in subpart JJJJ.
§60.9	Availability of information	Yes	
§60.10	State Authority	Yes	
§60.11	Compliance with standards and maintenance requirements	Yes	Requirements are specified in subpart JJJJ.
§60.12	Circumvention	Yes	
§60.13	Monitoring requirements	No	
§60.14	Modification	Yes	
§60.15	Reconstruction	Yes	
§60.16	Priority list	Yes	
§60.17	Incorporations by reference	Yes	
§60.18	General control device requirements	No	
§60.19	General notification and reporting requirements	Yes	

[February 26, 2010]

THE FIRE PUMP AT SOUTHERN PROPERTY BOUNDARY OF MOTIVEPOWER APPLE STREET

141. Process Description

The 143 HP diesel-fired internal combustion engine is located at southern property boundary of MotivePower Apple Street. It is a fire pump with an estimated heat input of 0.682 MMBtu/hr.

[February 26, 2010]

142. Emissions Control Description

Emissions from the fire pump are uncontrolled.

[February 26, 2010]

Operating Requirements

143. Operating Hours

The fire pump shall not be operated more than one hour per week, excluding during emergencies.

[February 26, 2010]

Monitoring and Recordkeeping Requirements

144. Monitoring Requirements

The permittee shall monitor and record the operating hours of the fire pump every week. Records of the information shall be remained in accordance with the Recordkeeping General Provision of this permit.

[February 26, 2010]

PERMIT TO CONSTRUCT GENERAL PROVISIONS

General Compliance

145. The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the Rules for the Control of Air Pollution in Idaho. The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq.
- [Idaho Code §39-101, et seq.]**
146. The permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.
- [IDAPA 58.01.01.211, 5/1/94]**
147. Nothing in this permit is intended to relieve or exempt the permittee from the responsibility to comply with all applicable local, state, or federal statutes, rules and regulations.
- [IDAPA 58.01.01.212.01, 5/1/94]**

Inspection and Entry

148. Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:
- Enter upon the permittee's premises where an emissions source is located or emissions related activity is conducted, or where records are kept under conditions of this permit;
 - Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
 - Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.
- [Idaho Code §39-108]**

Construction and Operation Notification

149. The permittee shall furnish DEQ written notifications as follows in accordance with IDAPA 58.01.01.211:
- A notification of the date of initiation of construction, within five working days after occurrence;
 - A notification of the date of any suspension of construction, if such suspension lasts for one year or more;
 - A notification of the anticipated date of initial start-up of the stationary source or facility not more than sixty days or less than thirty days prior to such date;
 - A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date; and
 - A notification of the initial date of achieving the maximum production rate, within five working days after occurrence - production rate and date.

Performance Testing

150. If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ, at its option, may have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.
151. All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.
152. Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

[IDAPA 58.01.01.157, 4/5/00]

Monitoring and Recordkeeping

153. The permittee shall maintain sufficient records to ensure compliance with all of the terms and conditions of this permit. Records of monitoring information shall include, but not be limited to the following: (a) the date, place, and times of sampling or measurements; (b) the date 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. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

[IDAPA 58.01.01.211, 5/1/94]

Excess Emissions

154. The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions due to startup, shutdown, scheduled maintenance, safety measures, upsets and breakdowns.

[IDAPA 58.01.01.130-136, 4/5/00]

Certification

155. All documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

[IDAPA 58.01.01.123, 5/1/94]

False Statements

156. No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.
[IDAPA 58.01.01.125, 3/23/98]

Tampering

157. No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.
[IDAPA 58.01.01.126, 3/23/98]

Transferability

158. This permit is transferable in accordance with procedures listed in IDAPA 58.01.01.209.06.
[IDAPA 58.01.01.209.06, 4/11/06]

Severability

159. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
[IDAPA 58.01.01.211, 5/1/94]