



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

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

C.L. "Butch" Otter, Governor
Curt Fransen, Director

August 23, 2012

Bruce M. Smith, Colonel, USAF
US Air Force – Mountain Home AFB
366 Gunfighter Avenue, Suite 331
Mountain Home AFB, ID 83648

RE: Facility ID No. 039-00001, US Air Force – Mountain Home AFB, Mountain Home
Final Permit Letter

Dear Colonel Smith:

The Department of Environmental Quality (DEQ) is issuing Permit to Construct (PTC) No. P-2012.0029 Project 61056 to the US Air Force – Mountain Home AFB located at Mountain Home for the replacement of two emergency generators and requirement for the hospital boilers to use natural gas exclusively. 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 May 18, 2012.

This permit is effective immediately and replaces PTC No. P-060068, issued on May 24, 2007. This permit does not release the US Air Force – Mountain Home AFB from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

As requested, in accordance with IDAPA 58.01.01.209.05.a, the terms of the PTC will be incorporated into the Tier I permit at the time of renewal. US Air Force – Mountain Home AFB may operate the source after the PTC is issued so long as it does not violate any terms or conditions of the existing Tier I operating permit.

Pursuant to the Construction and Operation Notification General Provision of your permit, it is required that construction and operation notification be provided. Please provide this information as listed to DEQ's Boise Regional Office, 1445 N. Orchard, Boise, ID 83706, Fax (208) 373-0287.

In order to fully understand the compliance requirements of this permit, DEQ highly recommends that you schedule a meeting with J.R. Fuentes, Area Source Specialist, at (208) 373-0550 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 Kelli Wetzel at (208) 373-0502 or kelli.wetzel@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

MSKW

Permit No. P-2012.0029 PROJ 61056

Enclosures

Air Quality

PERMIT TO CONSTRUCT

Permittee US Air Force - Mountain Home AFB

Permit Number P-2012.0029

Project ID 61056

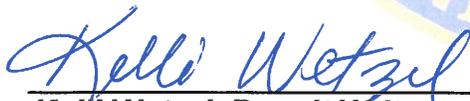
Facility ID 039-00001

Facility Location 90 Hope Dr. Building 6000
Mountain Home AFB, ID 83648

Permit Authority

This permit (a) is issued according to the *Rules for the Control of Air Pollution in Idaho (Rules)*, IDAPA 58.01.01.200-228; (b) 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; (c) has been granted on the basis of design information presented with its application; (d) does not affect the title of the premises upon which the equipment is to be located; (e) 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; (f) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; (g) 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. Changes in design, equipment or operations may be considered a modification subject to DEQ review in accordance with IDAPA 58.01.01.200-228.

Date Issued August 23, 2012


Kelli Wetzel, Permit Writer


Mike Simon, Stationary Source Manager

1. PERMIT SCOPE.....	3
2. HOSPITAL BOILERS.....	4
3. EMERGENCY GENERATORS	6
4. HUSH HOUSE I, BUILDING 1344; AND HUSH HOUSE II, BUILDING 270	10
5. BEAD-BLASTING UNIT – BUILDING 1330.....	12
6. FLIGHT LINE AREA SPRAY PAINTING.....	13
7. VEHICLE SPRAY PAINT BOOTH	14
8. AIRCRAFT AND AIRCRAFT PARTS SURFACE COATING SPRAY BOOTHS	16
9. GENERAL PROVISIONS	18

1. PERMIT SCOPE

Purpose

- 1.1 This is a modified permit to construct for the operation of the four permitted hospital boilers on natural gas exclusively and to eliminate the use of diesel fuel as a backup option. It is also for replacement of the three existing 750 kW diesel emergency generators with two new 800 kW diesel emergency generators.
- 1.2 Those permit conditions that have been modified or revised by this permitting action are identified by the permit issue date citation located directly under the permit condition and on the right hand margin.
- 1.3 This PTC replaces Permit to Construct No. P-060068, issued on May 24, 2007.

Regulated Sources

- 1.4 Table 1.1 lists all sources of regulated emissions in this permit.

Table 1.1 REGULATED SOURCES

Permit Section	Source	Control Equipment
2	<u>Hurst Hospital Boiler (1)</u> Heat Input Rating: 1.05 MMBtu/hr Allowable fuel type: natural gas <u>Kewance Hospital Boilers (3)</u> Heat Input Rating: 5.231 MMBtu/hr Allowable fuel type: natural gas	None
3	<u>Cummins Emergency Generators (2)</u> Maximum Rating: 800 kW and 1.05 MMBtu/hr Allowable fuel type: Ultra Low Sulfur Diesel (ULSD)	None
4	Hush Houses I and II	None
5	Bead-Blasting Unit	Dust Collector
6	Flight Line Area Spray Painting	None
7	Vehicle Spray Paint Booth	Spray Booth Filters
8	Aircraft and Aircraft Parts Spray Booths	Spray Booth Filters

2. HOSPITAL BOILERS

2.1 Process Description

One Hurst boiler and three Kewanee boilers provide space heat and other heat needs at the base hospital. The hospital boilers operate on natural gas exclusively.

[August 23, 2012]

2.2 Control Device Descriptions

Table 2.1 HOSPITAL BOILERS DESCRIPTION

Emissions Units / Processes	Control Devices
Hurst Boiler (1)	None
Kewanee Boilers (3)	None

Emission Limits

2.3 Emission Limit

The permittee shall not discharge to the atmosphere from any fuel burning equipment with a maximum rated input of ten million BTU per hour, PM in excess of 0.015 gr/dscf corrected to 3% oxygen, in accordance with IDAPA 58.01.01.677.

[August 23, 2012]

2.4 Opacity Limit

Emissions from the hospital boiler stacks, or any other stack, vent, or functionally equivalent opening associated with the hospital boilers, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements

2.5 Fuel Type Restriction

The hospital boilers shall be fired on natural gas exclusively.

[August 23, 2012]

Monitoring and Recordkeeping Requirements

2.6 Opacity Monitoring

The permittee shall conduct a quarterly inspection of each of the hospital boiler stacks, during daylight hours and under normal operating conditions. The inspection shall consist of a see/no see evaluation for each potential source of visible emissions. If any visible emissions are present from any point of emission, the permittee shall either

- a) take appropriate corrective action as expeditiously as practicable to eliminate the visible emissions. Within 24 hours of the initial see/no see evaluation and after the corrective action, the permittee shall conduct a see/no see evaluation of the emissions point in question. If the visible emissions are not eliminated, the permittee shall comply with b).

or

- b) 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%, as measured using Method 9, 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 emission 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.

[August 23, 2012]

3. EMERGENCY GENERATORS

3.1 Process Description

Two diesel-fired 800 kW emergency standby IC (internal combustion) engines powering two emergency generators provide emergency power to the base hospital in the event of a power failure.

[August 23, 2012]

3.2 Control Device Descriptions

Table 3.1 EMERGENCY GENERATORS DESCRIPTION

Emissions Units / Processes	Control Devices	Emission Points
(2) Emergency Generators	None	IC Engine exhaust

Emission Limits

3.3 Emission Limits

The emissions from the two emergency generator stacks combined shall not exceed any corresponding emissions rate limits listed in Table 3.2.

Table 3.2 EMERGENCY GENERATORS EMISSION LIMITS^(a)

Source Description	SO ₂ T/yr ^(b)	NO _x T/yr ^(b)
Emergency Generator IC Engines	0.01	5.80

- a) In absence of any other credible evidence, compliance is assured by complying with permit operating, monitoring, and record keeping requirements.
b) Tons per any consecutive 12-calendar month period.

[August 23, 2012]

3.4 Opacity Limit

Emissions from the emergency generator stacks, or any other stack, vent, or functionally equivalent opening associated with the emergency generators, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements

3.5 Fuel Oil Sulfur Content

No diesel fuel oil containing sulfur in excess of 15 ppm (0.0015% by weight) shall be burned in the Emergency Generators IC Engines.

[August 23, 2012]

3.6 Operating Limit

To demonstrate compliance with the Emissions Limits permit condition and in accordance with 40 CFR 60.4211 the Emergency Generators IC engines shall be operated only for testing and maintenance of the engines, for required regulatory purposes, and during emergency situations. Combined operation of the engines for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per consecutive 12 months.

[August 23, 2012]

3.7 Operation and Maintenance Requirement

In accordance with 40 CFR 60.4206, the permittee shall operate and maintain the Emergency Generator IC engines according to the manufacturer's written instructions, or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engines.

[August 23, 2012]

3.8 Engine Replacement

If the facility decides to change out/replace the IC engines at the facility they shall meet the engine replacement requirements of 40 CFR 60.4208 at that time.

[August 23, 2012]

3.9 IC Engine Hour Meter Requirement

In accordance with 40 CFR 60.4209, the Emergency Generator IC engines shall be equipped with a non-resettable hour meter.

[August 23, 2012]

3.10 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:

- Standards of Performance for New Stationary Sources (NSPS), 40 CFR Part 60, Subpart III

For permit conditions referencing or cited in accordance with any document incorporated by reference (including permit conditions identified as NSPS), 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.

[August 23, 2012]

3.11 NSPS 40 CFR 60, Subpart A – General Provisions

The permittee shall comply with the requirements of 40 CFR 60 – General Provisions according to the requirements of 40 CFR 60, Subpart III for Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

Table 3.3 SUBPART A – GENERAL PROVISIONS

Section	Section Title	Summary of Section Requirements
60.4	Address	<ul style="list-style-type: none">• <u>All requests, reports, applications, submittals, and other communications associated with 40 CFR 60, Subparts A & III shall be submitted to:</u> Department of Environmental Quality Boise Regional Office 1445 N. Orchard Boise, ID 83706
60.7(a),(b),(c), (d) and (f)	Notification and Record Keeping	<ul style="list-style-type: none">• Notification of physical or operational change that may increase emissions postmarked 60 days before the change is made.• Maintain records of the occurrence and duration of any: startup, shutdown or malfunction of the affected source; malfunction of air pollution control device; and any period when a monitoring device is inoperative.• Maintain in a permanent form records suitable for inspection of all Monitoring and Recordkeeping permit condition requirements, performance testing measurements, operation and maintenance manual, adjustments/maintenance performed and other required information. Records shall be maintained for a period of five years, with the exception of the O & M manual, which shall be updated as needed for the life of the equipment. Records are to be made available to DEQ representatives upon request and within four hours.

60.8	Performance Tests	<ul style="list-style-type: none"> The owner or operator shall provide notice at least 30 days prior to any performance test to afford an opportunity for an observer to be present during testing. Within 60 days of achieving maximum production, but not later than 180 days after startup the permittee shall conduct performance test(s) and furnish a written report of the results of the test(s).
60.11(b), (c), and (e)	Compliance with Standards and Maintenance Requirements (Opacity)	<ul style="list-style-type: none"> Compliance with opacity standards shall be determined by Method 9 in Appendix A of 40 CFR 60. The permittee may elect to use COM measurements in lieu of Method 9, provided notification is made at least 30 days before the performance test. The opacity standards shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided. Opacity observations shall be conducted concurrently with the initial performance test required in 40 CFR 60.8 in accordance with the requirements and exceptions in 40 CFR 60.11(e).
60.12	Circumvention	<ul style="list-style-type: none"> No owner or operator shall build, erect, install or use any article or method, including dilution, to conceal an emission which would otherwise constitute a violation.
60.14	Modification	<ul style="list-style-type: none"> A physical or operational change which results in an increase in the emission rate to the atmosphere or any pollutant to which a standard applies shall be considered a modification, and upon modification an existing facility shall become an affected facility in accordance with the requirements and exemptions in 40 CFR 60.14. Within 180 days of the completion of any physical or operational change, compliance with all applicable standards must be achieved.
60.15	Reconstruction	<ul style="list-style-type: none"> An existing facility, upon reconstruction, becomes an affected facility, irrespective of any change in emission rate in accordance with the requirements of 40 CFR 60.15.

[August 23, 2012]

Monitoring and Recordkeeping Requirements

3.12 Operation Recordkeeping

In accordance with 40 CFR 60.4214, the permittee shall monitor and record operation of the IC engine in hours per month to demonstrate compliance with the IC Engine Operating Limit permit condition.

Consecutive 12-months operation of the IC engine shall be determined by summing the monthly operation over the previous consecutive 12 month period to demonstrate compliance with the consecutive 12-months IC Engine Operating Limit permit condition.

[August 23, 2012]

3.13 Sulfur Content Monitoring

The permittee shall maintain purchase records or equivalent from the manufacturer that show the sulfur content of the fuel oil delivered to the facility. Records of this information shall be kept on site for the most recent five year period and shall be made available to DEQ representatives upon request.

[August 23, 2012]

3.14 Operation and Maintenance Recordkeeping

The permittee shall maintain records of the operation and maintenance of the IC engine to demonstrate compliance with the Operation and Maintenance Requirement permit condition.

[August 23, 2012]

3.15 Opacity Monitoring

The permittee shall conduct a quarterly inspection of each of the emergency generator stacks, during daylight hours and under normal operating conditions. The inspection shall consist of a see/no see evaluation for each potential source of visible emissions. If any visible emissions are present from any point of emission, the permittee shall either

- a) take appropriate corrective action as expeditiously as practicable to eliminate the visible emissions. Within 24 hours of the initial see/no see evaluation and after the corrective action, the permittee shall conduct a see/no see evaluation of the emissions point in question. If the visible emissions are not eliminated, the permittee shall comply with b).

or

- b) 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%, as measured using Method 9, 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 emission 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.

[August 23, 2012]

4. HUSH HOUSE I, BUILDING 1344; AND HUSH HOUSE II, BUILDING 270

4.1 Process Description

Two hush houses are used to test jet engines. The hush houses are used to minimize noise from the engine test operations.

4.2 Control Device Descriptions

Table 4.1 HUSH HOUSE I and II DESCRIPTION

Emissions Units / Processes	Control Devices
Hush House I and II	None

Emission Limits

4.3 Emission Limits

The emissions from the Hush House I and II augmentor tubes shall not exceed any corresponding emissions rate limits listed in Table 4.2.

Table 4.2 HUSH HOUSE I and II EMISSION LIMITS^(a)

Source Description	PM T/yr ^(c)	PM ₁₀ ^(b) T/yr ^(c)	SO ₂ T/yr ^(c)	NO _x T/yr ^(c)	CO T/yr ^(c)	VOC T/yr ^(c)
Hush Houses I and II combined	4.0	4.0	1.5	85	13	63

- a) In absence of any other credible evidence, compliance is assured by complying with permit operating, monitoring, and record keeping requirements.
- b) Particulate matter with an aerodynamic diameter less than or equal to a nominal ten (10) micrometers, including condensable particulate as defined in IDAPA 58.01.01.006.
- c) Tons per any consecutive 12-calendar month period.

4.4 Opacity Limit

Emissions from the augmentor tube, or any other stack, vent, or functionally equivalent opening associated with Hush House I and II, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements

4.5 Operating Hours Limits

The permittee shall not operate the stationary engines for more than 690 hours per any consecutive 12-month period.

Testing of stationary engines in the Military power setting is limited to 103.5 hours per any consecutive 12-month period.

Testing of stationary engines in the Afterburner power setting is limited to 75.9 hours per any consecutive 12-month period.

4.6 Engine Models

Any aircraft engine may be tested in Hush Houses I and II.

4.7 Testing Locations

All stationary engines to be tested shall be tested inside a Hush House.

Monitoring and Recordkeeping Requirements

4.8 Visible Emissions Monitoring

No specific compliance demonstration is required other than the quarterly facility-wide visible emissions inspection requirement in the facility's Tier I operating permit.

4.9 Operations Monitoring

The permittee shall monitor and record the operating hours and power settings of stationary jet engines on a monthly and annual basis. A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

5. BEAD-BLASTING UNIT – BUILDING 1330

5.1 Process Description

The bead-blast unit in Building 1330 is used to strip paint from small components such as fuel tanks and bomb racks.

5.2 Control Device Descriptions

Table 5.1 BEAD-BLASTING UNIT DESCRIPTION

Emissions Units / Processes	Control Devices
Bead-blast Booth	Dust Collector

Emission Limits

5.3 Hexavalent Chromium Emissions Limit

Hexavalent chromium emissions (reported as Cr⁺⁶) from the bead-blast unit vent shall not exceed 0.137 pounds per any consecutive 12-month period.

5.4 Opacity Limit

Emissions from the bead-blast unit stack, or any other stack, vent, or functionally equivalent opening associated with the bead-blast unit, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements

5.5 Operating Hours Limit

The permittee shall not operate the bead-blast unit for more than 4,500 hours per any consecutive 12-month period.

5.6 Hexavalent Chromium Weight Percent

The annual average weight percent of Cr⁺⁶ shall not exceed 1.075% of the particulate matter controlled by the dust collector assembly per any consecutive 12-month period.

5.7 Pollution Control Equipment

The permittee shall operate and maintain the dust collector assembly in accordance with manufacturer specifications.

Monitoring and Recordkeeping Requirements

5.8 Visible Emissions Monitoring

No specific compliance demonstration is required other than the quarterly facility-wide visible emissions inspection requirement in the facility's Tier I operating permit.

5.9 Operating Hours

The permittee shall monitor and record the bead-blast unit hours of operation on a monthly and annual basis. A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

5.10 Hexavalent Chromium Sampling

The permittee shall monitor and record the Cr⁺⁶ weight percent of the particulate matter collected by the dust collector assembly. The material shall be sampled and analyzed prior to disposal. A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

6. FLIGHT LINE AREA SPRAY PAINTING

6.1 Process Description

The flight line area spray painting is open-air spray painting operations that are conducted in the flight line area.

6.2 Control Device Descriptions

Table 6.1 FLIGHT LINE AREA SPRAY PAINTING DESCRIPTION

Emissions Units / Processes	Control Devices
Flight Line Area Spray Painting	HVLP Spray Guns

Emission Limits

6.3 VOC Emission Limits

The VOC emissions from open-air spray painting operations in the flight line area, which includes, but is not limited to, aircraft ramps, aprons, open hangers, and static display aircraft on the air force base, shall not exceed 1.5 tons per year (T/yr).

6.4 Opacity Limit

Emissions from the flight line area spray painting, or any other stack, vent, or functionally equivalent opening associated with the flight line area spray painting, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements

6.5 Paint Throughput Limit

The maximum throughput of all coatings and solvents applied in open-air spray painting operations in the flight line area shall not exceed 16.1 gallons per day (gal/day), nor shall it exceed 300 gallons per any consecutive 12-month period.

6.6 Spray Paint Guns

The permittee shall use high-volume, low-pressure (HVLP) spray paint guns or equivalent low-emissions spray guns for bulk paint applications.

Monitoring and Recordkeeping Requirements

6.7 Throughput Monitoring

The permittee shall monitor and record the throughput (type and amount) of all coatings and solvents applied in open-air spray painting operations in the flight line area.

Throughput shall be recorded in gallons per day (gal/day) and gallons per any consecutive 12-month period. The consecutive 12-month period throughput shall be calculated monthly.

A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

7. VEHICLE SPRAY PAINT BOOTH

7.1 Process Description

Building 1100 contains a vehicle spray paint booth that is used to paint base vehicles (trucks, buses, etc.) and parts as needed.

7.2 Control Device Descriptions

Table 7.1 VEHICLE SPRAY PAINT BOOTH DESCRIPTION

Emissions Units / Processes	Control Devices
Vehicle Spray Paint Booth	Particulate Filters

Emission Limits

7.3 VOC Emission Limits

The VOC emissions from the vehicle spray paint booth stack shall not exceed 4 T/yr.

7.4 Process Weight Limits

No person shall discharge to the atmosphere from any source operating on or after October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emission from the entire source in pounds per hour, and PW is the process weight in pounds per hour:

- a. If PW is less than 9,250 lb/hr,

$$E = 0.045 (PW)^{0.60}$$

- b. If PW is equal to or greater than 9,250 lb/hr,

$$E = 1.10 (PW)^{0.25}$$

7.5 Opacity Limit

Emissions from the vehicle spray paint booth stack, or any other stack, vent, or functionally equivalent opening associated with the vehicle spray paint booth, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements

7.6 Paint Throughput Limit

The maximum throughput of all coatings and solvents applied in the spray paint booth shall not exceed 300 gallons per any consecutive 12-month period.

7.7 Filtration System

The pressure drop across the spray paint booth filters shall be maintained within manufacturer specifications.

7.8 Maintain Efficiency of the Booth

The permittee shall conduct inspections of the particulate-matter filtration system on days the paint booth is in operation. The filtration system shall be maintained in accordance with manufacturer specifications.

7.9 Spray Paint Guns

The permittee shall use HVLP spray paint guns or equivalent low-emissions spray guns for bulk-paint applications.

Monitoring and Recordkeeping Requirements

7.10 Visible Emissions Monitoring

No specific compliance demonstration is required other than the quarterly facility-wide visible emissions inspection requirement in the facility's Tier I operating permit.

7.11 Throughput Monitoring

The permittee shall monitor and record the throughput (type and amount) of all coatings and solvents, applied in the paint booth on a daily and annual basis.

Throughput shall be recorded in gallons per day (gal/day) and gallons per any consecutive 12-month period. The consecutive 12-month period throughput shall be calculated monthly.

A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

7.12 Filter System Inspection and Maintenance

The permittee shall maintain records of all inspections and maintenance performed on the particulate-matter filtration system. The records shall contain, but are not limited to, the date of the inspection and/or maintenance performed, the relative condition of the filter pads, and the type of maintenance performed (e.g., replacement of pads, etc.). A compilation of the most recent five years of inspection and maintenance records shall be kept onsite and shall be made available to DEQ representatives upon request.

8. AIRCRAFT AND AIRCRAFT PARTS SURFACE COATING SPRAY BOOTHS

8.1 Process Description

Corrosion control treating and surface preparation and painting aircraft and aircraft parts are performed in two spray paint booths. Aircraft and some parts are treated in the large paint booth (LPB 1330) and parts are then painted in the small spray paint booth (SPB 1330).

8.2 Control Device Descriptions

Table 8.1 AIRCRAFT AND AIRCRAFT PART SURFACE COATING DESCRIPTION

Emissions Units / Processes	Control Devices
Aircraft and Aircraft Parts Surface Coating Spray Booths	Carbon adsorption filter (LPB 1330) and PM filters

Emission Limits

8.3 Process Weight Limits

No person shall discharge to the atmosphere from any source operating on or after October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emission from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

- a. If PW is less than 9,250 lb/hr,
 $E=0.045(PW)^{0.6}$
- b. If PW is equal to or greater than 9,250 lb/hr,
 $E=1.10(PW)^{0.25}$

8.4 Opacity Limit

Emissions from the LPB 1130 stack, SPB 1330 stack, or any other stack, vent, or functionally equivalent opening associated with the paint booths at Hangar 1330, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements

8.5 LPB-1330 Throughput Limit

The maximum throughput of all coatings and solvents in the aircraft painting booth (LPB-1330) shall not exceed 684 gal/day or 1,250 gallons per any consecutive 12-month period.

8.6 SPB-1330 Throughput Limits

The maximum throughput of coatings and solvents in the aircraft parts painting booth (SPB-1330) shall not exceed 140 gal/day or 350 gallons per any consecutive 12-month period.

8.7 Hexamethylene Diisocyanate (HDI)

The maximum daily throughput of materials containing not more than 1% by weight HDI (CAS No. 82-06-0) shall be limited to the quantities listed in the appendix. The maximum daily throughput of materials containing in excess of 1% by weight HDI shall be determined on a case-by-case basis.

8.8 Maintain Efficiency of the Booth

The permittee shall conduct inspections of the LPB-1330 particulate-matter filtration system, the LPB-1330 VOC adsorption system, and the SPB-1330 particulate-matter filtration system on days the paint booths are in operation. The filtration systems shall be maintained in accordance with manufacturer specifications and the filtration system Operations and Maintenance (O&M) Manual.

8.9 Filtration System

The pressure drop across the LPB-1330 and SPB-1330 particulate-matter filtration systems shall be maintained within the manufacturer or O&M Manual specifications.

8.10 Spray Paint Guns

The permittee shall use HVLP spray paint guns or equivalent low-emissions spray guns for bulk-paint applications.

Monitoring and Recordkeeping Requirements

8.11 Visible Emissions Monitoring

No specific compliance demonstration is required other than the quarterly facility-wide visible emissions inspection requirement in the facility's Tier I operating permit.

8.12 Throughput Monitoring

The permittee shall monitor and record the throughput (type and amount) of all coatings and solvents applied in painting booth LPB-1330 and painting booth SPB-1330 on days of application. Throughput shall be recorded in gallons per day (gal/day) and gallons per any consecutive 12-month period. The consecutive 12-month period throughput shall be calculated monthly. A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

8.13 Filtration System Inspection and Maintenance

The permittee shall maintain records of all inspections and maintenance performed on the LPB-1330 particulate-matter filtration system, the LPB-1330 VOC adsorption system, and the SPB-1330 particulate-matter filtration system. The records shall contain, but are not limited to, the date of the inspection and/or maintenance performed, the relative condition of the filter pads, and the type of maintenance performed (e.g., replacement of pads, etc.). A compilation of the most recent five years of inspection and maintenance records shall be kept onsite and shall be made available to DEQ representatives upon request.

8.14 Monitoring of HDI-Containing Materials

The permittee shall record the days of application for all materials used in the booths that contain quantifiable amounts of HDI. The records shall contain, but are not limited to, the following information: the name and identification number of each HDI-containing product used, its content of HDI in percent by weight (wt%), the density of each HDI-containing product in pounds per gallon (lb/gal), throughput calculations for materials containing more than 1% by weight HDI, and the amount used in gallons of each product. A compilation of the most recent five years of records shall be kept onsite and shall be made available to DEQ representatives upon request.

8.15 Operation and Maintenance Manual

The permittee shall have developed an O&M Manual for the LPB-1330 particulate-matter filtration system and VOC adsorption system, and the SPB-1330 particulate-matter filtration system. The manual shall describe the procedures that will be followed to comply with General Provision 9.2 and the manufacturer specifications for the air pollution control devices. This manual shall remain onsite at all times and shall be made available to DEQ representatives upon request.

9. GENERAL PROVISIONS

General Compliance

9.1 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.]

9.2 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]

9.3 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

9.4 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

9.5 This permit shall expire if construction has not begun within two years of its issue date, or if construction is suspended for one year.

[IDAPA 58.01.01.211.02, 5/1/94]

9.6 The permittee shall furnish DEQ written notifications as follows:

- A notification of the date of initiation of construction, within five working days after occurrence; except in the case where pre-permit construction approval has been granted then notification shall be made within five working days after occurrence or within five working days after permit issuance whichever is later;
- 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; and
- 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.

[IDAPA 58.01.01.211.03, 5/1/94]

Performance Testing

- 9.7 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 may, at its option, 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.
- 9.8 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.
- 9.9 Within 30 days, or up to 60 days when requested 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

- 9.10 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

- 9.11 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

- 9.12 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

- 9.13 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

- 9.14 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

- 9.15 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

- 9.16 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]