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DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE A.Q. PROGRAM

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

Emissions Units – Automotive Coating Information **Form EU6**

Revision 5
2/22/11

Complete this form for each paint booth. Please see instructions on page 2 before filling out the form.

IDENTIFICATION

1. Company Name	2. Facility Name:
NORTHWEST AUTOBODY & TOWING INC.	NORTHWEST AUTOBODY & TOWING INC

3. Brief Project Description: Permit an existing automotive coating operation

PAINT BOOTH INFORMATION

4. Booth Data:
☐ New Booth ☒ Unpermitted Existing Booth If an existing booth, when was it installed? 2002
☐ Modification to a Permitted Booth, Permit #: _____ Date Permit Issued: _____
☐ Dry Filters? ☐ Dry Filters w/ a Wet Wall? ☐ Wet Wall only? ☒ Other, provide details: sprinkled water plant
Booth Airflow Type: ☒ Down draft ☐ Semi-Downdraft ☐ Side draft ☐ Other, provide details: _____

5. Booth Information: Manufacturer: Nova Verta Model: 52100 Date Manufactured: 2002

6. Planned Construction Date (if applicable): _____

7. Is the booth equipped with a heater? No ☐ Go to the next section Yes ☒ If "yes", answer the following questions.
Heating method: ☐ Electricity, Go to the next section ☒ Combustion
Who is the manufacturer of the booth heater? Power Flame MMBtu/hr What is the model number of the booth heater? JR30A-10U
What is the heat input rating of the booth heater? 800000 MMBtu/hr What fuel is used in the booth heater (i.e., natural gas or LPG)? Natural Gas
Is the worst-case operation of the booth heater **greater than 2,080** hours per year? No ☒ Go to the next section Yes ☐
If "Yes", what is the worse-case annual operation of the burner? _____ hrs/yr

8. Are bed lining spray operations performed at this facility? No ☒ Go to the next section ☐ Yes, I am requesting an additional 4.0 gal/day limit for component "A" of a two stage "A + B" bed lining material.

SPRAY GUN DESCRIPTION AND SPECIFICATIONS

Gun No.	9. Manufacturer	10. Model	11. Type (e.g. HVLP, airless, conventional)	12. Gun Transfer Efficiency % per the manufacturer
1	Anest-Iwata	LPH400	HVLP	99
2	SATA	NR2000	HVLP	unk
3	SATA	JET90-2	HVLP	unk
4	Anest-Iwata	LPH400	HVLP	99

REQUEST FOR PERMIT LIMITATIONS

13. Are you requesting a daily coating materials use permit limit (e.g. gallons per day)?
☒ Yes, I am requesting a limit of 4.0 gal/day for all coating materials used at the facility. Note: In order to receive an Automotive Coating general permit a daily materials use limit of **4.0 gal/day** is required.
☐ No, Note: You will need to apply for a permit tailored to the situation at your facility, not an Automotive Coating general permit (see previous question).

EMISSIONS CONTROL DEVICE (FILTER) DESCRIPTION AND SPECIFICATIONS

Stack Served	14. Filter Manufacturer	15. Model	16. PM_{10} Control Efficiency(%)[a]
1	Nova Verta	Sprinkled Water Plant	98
2	SEE ATTACHED		
3			
4			

Note: a. Provide the filter manufacturer's documentation to support the control efficiency specified above.

PAINT STRIPPING ACTIVITIES

17. Is Methylene Chloride (MeCl) (CAS #75-09-2) used for paint stripping activities at this facility?
☒ No, Note: In order to receive an Automotive Coating general permit **no MeCl** paint stripping activities can be performed at the facility.
☐ Yes, Note: In order to receive an Automotive Coating general permit no MeCl paint stripping activities can be performed at the facility (see previous question). You will need to apply for a permit tailored to the situation at your facility, not an Automotive Coating general permit.

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Please see instructions on back page before filling out the form. All information is required. If information is missing, the application will not be processed.

Identification

1. Facility name: NORTHWEST AUTOBODY & TOWING INC

2. Existing facility identification number:

☐ **Check if new facility (not yet operating)**

3. Brief project description: Permit an existing automotive coating operation

Facility Information

4. Primary facility permitting contact name: Eric Donenfeld

Contact type: Responsible official

Telephone number: 208-263-6931

E-mail: nwautobody@hotmail.com

5. Alternate facility permitting contact name: Stacy Lukac

Alternate contact type: Facility permitting contact

Telephone number: 208-263-6931

E-mail: nwautobody@hotmail.com

6. Mailing address where permit will be sent (street/city/county/state/zip code): P.O. Box 1692 Sandpoint , Bonner County , ID , 83864

7. Physical address of permitted facility (if different than mailing address) (street/ city/county/state/zip code): 1305 Michigan st , Sandpoint , Bonner County , ID , 83864

8. Is the equipment portable? ☐ **Yes*** ☒ **No** ***If yes, complete and attach PERF; see instructions.**

9. NAICS codes: **Primary NAICS**: 81112 **Secondary NAICS**:

10. Brief business description and principal product produced: Auto Body

11. Identify any adjacent or contiguous facility this company owns and/or operates: Detail and Towing Departments

12. Specify type of application ☒ **Permit to construct (PTC); application fee of $1,000 required. See instructions.**

☐ **Tier I permit** ☐ **Tier II permit** ☐ **Tier II/Permit to construct**

For Tier I permitted facilities only: If you are applying for a PTC then you must also specify how the PTC will be incorporated into the Tier I permit.

☐ **Co-process Tier I modification and PTC** ☐ **Incorporate PTC at the time of Tier I renewal** ☐ **Administratively amend the Tier I permit to incorporate the PTC upon applicant's request (IDAPA 58.01.01.209.05.a, b, or c)**

Certification

In accordance with IDAPA 58.01.01.123 (Rules for the Control of Air Pollution in Idaho), I certify based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

13. Responsible official's name: Eric Donenfeld **Official's title**: Manager

Official's address: 1305 Michigan st. Sandpoint , ID. 83864

Telephone number: 208-263-6931 **E-mail**: nwautobody@hotmail.com

Official's signature: Eric Donenfeld **Date**: 7/10/12

☐ **14. Check here to indicate that you want to review the draft permit before final issuance.**

PARTICULARS OF EQUIPMENT AND POLLUTION-PREVENTING TECHNOLOGIES

Washing becomes effective by forcing air to follow a special circuit in which it is sprinkled with water several times.

Air is separated from water by means of a drop-separation filter specially designed for use in purifiers.

The airflow is split into individual currents by means of a series of special shaped walls struck by individual droplets out of inertia, thus forming a liquid film that is brought back into the purifier by gravity while air is emitted into the atmosphere in a purified form.

CHARACTERISTICS OF PAINT USED:
highly solid paint consisting of 70% solid and 30% solvent
QUANTITY OF PAINT USED:
100 g for every 1,000 m^3 of rated airflow/h = 1,7 kg/h
RATED AIRFLOW OF EJECTION UNIT:
17,000 m^3/h

CALCULATION OF POLLUTANT CONCENTRATION

SOLVENTS

30% - i.e. 0.51 kg/h of the 1.7 kg/h of paint sprayed - consists of solvent that largely evaporates during spraying in the preparation area.

According to sound experience and data indicated in literature, approximately 70% of solvent evaporates during spraying in the preparation area.

Therefore 70% of the 0.51 kg/h sprayed will evaporate, amounting to:

approximately 0.36 kg/h of solvent.

This solvent is diluted in 17,000 m/h of flow rate of air under emission and, therefore, has the following concentration:

$$\frac{360.000\ mg/h}{17.000\ m;/h} = 20\ mg/m^3\ ca.$$

Sprinkling and washing solvents with water halves emissions, reducing the concentration of solvents of 50% in the air under emission to approximately 10 mg/m^3.

SOLID PARTICLES

70% of the 1.7 kg/h of paint used consists of solid parts and amounts to 1.19 kg/h of solid particles.

Sound experience has proven that approximately 80% of it sticks while the remaining 20%, equal to 0.24 kg/h, forms overspray;

IT IS SPLIT UP AS FOLLOWS:

- 5% of the 1.19 kg/h ends up on top of the water
-15% of the 1.19 kg/h, amounting to 0.18 kg/h, is driven towards the booth's sprinkling plant. As the sprinkled-water plant is 98% efficient for solid particles, the concentration of solids in the air under emission will amount to less than 1 mg/m^3.

NOVA VERTA International S.p.A.
Technical Department
Engineer Marco Massi