

**Statement of Basis  
Automotive Coating Operations General Permit**

**Permit to Construct P-2020.0010  
Project No. 62401**

**Permittee  
Scott Shawver's Auto Body and RV, LLC  
Post Falls, Idaho**

**Facility ID No. 055-00128**

**Final**

**April 7, 2020  
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Permit Writer**



The purpose of this Statement of Basis is to satisfy the requirements of IDAPA 58.01.01.et seq, Rules for the Control of Air Pollution in Idaho, for issuing air permits.

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## ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE

AQCR	Air Quality Control Region
Btu	British thermal units
CAS No.	Chemical Abstracts Service registry number
CE	Control Efficiency
CFR	Code of Federal Regulations
CO	carbon monoxide
DEQ	Department of Environmental Quality
EL	screening emission levels
EPA	U.S. Environmental Protection Agency
gal/day	gallons per calendar day
gal/hr	gallons per hour
gal/yr	gallons per consecutive 12 calendar month period
gr	grain (1 lb = 7,000 grains)
HAP	hazardous air pollutants
hr/yr	hours per year
HVLP	high volume, low pressure (applies to paint guns)
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
lb/gal	pounds per gallon
lb/hr	pounds per hour
LPG	Liquefied Petroleum Gas
MMBtu	million British thermal units
NAICS	North American Industry Classification System
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>2</sub>	nitrogen dioxide
NO <sub>x</sub>	nitrogen oxides
NSPS	New Source Performance Standards
PC	permit condition
PM <sub>2.5</sub>	particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers
PM <sub>10</sub>	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
ppm	parts per million
PTC	permit to construct
PTE	potential to emit
Rules	Rules for the Control of Air Pollution in Idaho
scf	standard cubic feet
SDS	Safety Data Sheet
SIC	Standard Industrial Classification
SM80	synthetic minor facility with emissions greater than or equal to 80% of a major source threshold
SO <sub>2</sub>	sulfur dioxide
SO <sub>x</sub>	sulfur oxides
T/yr	tons per consecutive 12-calendar month period
T2	Tier II operating permit
TAP	toxic air pollutants
TE	Transfer Efficiency
UTM	Universal Transverse Mercator
VOC	volatile organic compounds

## **FACILITY INFORMATION**

### ***Description***

Scott Shawver's Auto Body and RV, LLC is an auto body and recreational vehicle repair and refinishing facility with paint spray booth(s) which are equipped with a paint booth heater. The paint booth(s) is a pressurized semi-downdraft and cross draft booth(s) with dry fiber filtration media for control of particulate emissions. Drying and paint curing is done in the paint booth(s). The booth(s) are equipped with a natural gas-fired burner to heat the paint booth. The process includes application of coatings via a HVLP (or equivalent) paint gun. In this case "or equivalent" means a paint gun that has a minimum 65% transfer efficiency as documented by the spray gun manufacturer.

### ***Permitting History***

This is the initial PTC for a new facility thus there is no permitting history.

### ***Application Scope***

This is the initial PTC for a new facility.

### ***Application Chronology***

March 5, 2020	DEQ received an application.
March 6, 2020	DEQ received an application fee.
March 10 – March 25, 2020	DEQ provided an opportunity to request a public comment period on the application and proposed permitting action.
March 9, 2020	DEQ determined that the application was complete.
March 9, 2020	DEQ made available the draft permit and statement of basis for peer review.
March 18, 2020	DEQ made available the draft permit and statement of basis for applicant review.
April 1, 2020	DEQ received the permit processing fee.
April 7, 2020	DEQ issued the final permit and statement of basis.

## **TECHNICAL ANALYSIS**

The facility utilizes dry fiber filtration media for control of particulate matter emissions from the automotive coating operation. In addition, HVLP paint guns (or equivalent) are used to minimize particulate matter and VOC emissions from painting. The HVLP (or equivalent) spray equipment will control all particulate matter and VOC emissions by having more paint transfer to the desired surfaces than traditional painting equipment.

## Emissions Units and Control Devices

Table 1 EMISSIONS UNIT AND CONTROL DEVICE INFORMATION

ID No.	Source Description	Control Equipment Description	Emissions Point ID No. and Description
Automotive Coating Operation	<p><u>Paint spray booth(s) and/or preparation station:</u>            Manufacturer(s): Global Finish Solutions or equivalent            Model(s): Ultra XL 12'x14'x30' or equivalent            Note: The number of booths installed at the facility is not limited by this permit.</p> <p><u>Paint booth heater(s):</u>            Manufacturer(s): Global Finishing Solutions or equivalent            Model(s): 1.433 Space Saver AHRC2400(SS-RC) or equivalent            Total Heat input capacity(s): 1.433 MMBtu/hr            Fuel: Natural Gas only</p>	<p><u>Paint spray booth(s) and/or preparation station filter system:</u>            Booth Type(s): Semi-down draft            Particulate filtration method: Dry Filters            Manufacturer(s): GFS Wave or equivalent            Model(s): PA 5 Cardline or equivalent            PM/PM<sub>10</sub> Control Efficiency: 98% or greater</p> <p><u>Coating spray gun(s):</u>            Manufacturer(s): SATA or equivalent            Model(s): Jet 5000 B or equivalent            Type: HVLP or equivalent            Transfer Efficiency: 65% or greater</p> <p><u>Coating spray gun(s):</u>            Manufacturer(s): ANEST IWATA or equivalent            Model(s): LPH-400 or equivalent            Type: HVLP or equivalent            Transfer Efficiency: 65% or greater</p>	Paint booth exhaust stack and/or preparation station exhaust stack
Automotive Coating Operation	<p><u>Paint spray booth(s) and/or preparation station:</u>            Manufacturer(s): M&amp;W or equivalent            Model(s): 16'x16'x56' or equivalent            Note: The number of booths installed at the facility is not limited by this permit.</p> <p><u>Paint booth heater(s):</u>            Manufacturer(s): Bananza Air Management System or equivalent            Model(s): Bananza B-2000 or equivalent            Total Heat input capacity(s): 2.7 MMBtu/hr            Fuel: Natural Gas only</p>	<p><u>Paint spray booth(s) and/or preparation station filter system:</u>            Booth Type(s): Cross draft            Particulate filtration method: Dry Filters            Manufacturer(s): Superior Fibers or equivalent            Model(s): PA 12-2020 or equivalent            PM/PM<sub>10</sub> Control Efficiency: 98% or greater</p> <p><u>Coating spray gun(s):</u>            Manufacturer(s): SATA X or equivalent            Model(s): 5500 HVLP or equivalent            Type: HVLP or equivalent            Transfer Efficiency: 65% or greater</p>	Paint booth exhaust stack and/or preparation station exhaust stack

## Emissions Inventories

### Potential to Emit

IDAPA 58.01.01.006 defines Potential to Emit as the maximum capacity of a facility or stationary source to emit an air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is state or federally enforceable. Secondary emissions do not count in determining the potential to emit of a facility or stationary source.

Using this definition of Potential to Emit an emission inventory was developed for the automotive coating operation associated with this proposed project (see Appendix A for detailed potential to emit calculations). Criteria pollutant and HAPs PTE were based on the worst-case VOC, particulate matter, and HAPs content for coatings as taken from the DEQ Automotive Coating EI spreadsheet (see the DEQ website).

### Uncontrolled Potential to Emit

Using the definition of Potential to Emit, uncontrolled Potential to Emit is then defined as the maximum capacity of a facility or stationary source to emit an air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall **not** be treated as part of its design **since** the limitation or the effect it would have on emissions **is not** state or federally enforceable.

The uncontrolled Potential to Emit is used to determine if a facility is a “Synthetic Minor” source of emissions. Synthetic Minor sources are facilities that have an uncontrolled Potential to Emit for criteria pollutants or HAPs above the applicable Major Source threshold without permit limits.

The following table presents the uncontrolled Potential to Emit for criteria pollutants as determined by DEQ staff. See Appendix A for a detailed presentation of the calculations and the assumptions used to determine emissions for each emissions unit. For this automotive coating operation uncontrolled Potential to Emit is based upon a worst-case for operation of the facility of 2,080 hrs/yr (8 hrs/day x 260 days/yr) with all coating operations occurring during this time. Since there is prep time (the time spent preparing the automobile for the application of coating) and paint drying time (the time the automobile spends in the booth with the burner operating to facilitate hardening of the coating) associated with applying coatings, this was considered to be the worst-case maximum for which emissions would occur.

**Table 2 UNCONTROLLED POTENTIAL TO EMIT FOR CRITERIA POLLUTANTS**

Emissions Unit	PM <sub>10</sub> /PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC	Lead
	T/yr	T/yr	T/yr	T/yr	T/yr	lb/quarter
<b>Point Sources</b>						
Paint spray booth(s) and/or preparation station(s)	3.74	0.0	0.0	0.0	12.24	0.0
Paint booth heater(s)	0.079	0.03	1.77	0.88	0.06	0.0120
<b>Total, Point Sources</b>	<b>3.82</b>	<b>0.03</b>	<b>1.77</b>	<b>0.88</b>	<b>12.30</b>	<b>0.01</b>

The following table presents the uncontrolled Potential to Emit for HAP pollutants as determined by DEQ staff. The table only lists those individual HAPs that are emitted in the greatest quantities; see Appendix A for a complete listing of all HAPs emitted. For this automotive coating operation uncontrolled HAP emissions were calculated by using the DEQ Automotive Coating EI spreadsheet (see the DEQ website) and setting paint use to 4.0 gallons per day (as limited by the permit). Then, the worst-case maximum HAPs Potential to Emit was determined for all paints listed in the spreadsheet. As discussed previously, HAP emissions were assumed to occur during the worst-case for operation of the facility of 2,080 hrs/yr.

**Table 3 UNCONTROLLED POTENTIAL TO EMIT FOR HAPs<sup>(a)</sup>**

HAP Pollutants	PTE (T/yr)
Ethyl benzene	0.61
Methyl Isobutyl Ketone (MIBK)	1.26
Naphthalene	2.34
Toluene	1.92
Styrene	2.51
Xylene (o-, m-, p-isomers)	2.22
<b>Total</b>	<b>10.86</b>

a) The table does not list all individual HAPs, however the total PTE value reflects all HAPs.

### **Pre-Project Potential to Emit**

Pre-project Potential to Emit is used to establish the change in emissions at a facility as a result of this project. This is a new facility. Therefore, pre-project emissions are set to zero for all criteria pollutants.

### **Post Project Potential to Emit**

Post project Potential to Emit is used to establish the change in emissions at a facility and to determine the facility’s classification as a result of this project. Post project Potential to Emit includes all permit limits resulting from this project.

The following table presents the post project Potential to Emit for criteria pollutants from all emissions units at the facility as determined by DEQ staff. See Appendix A for a detailed presentation of the calculations of these emissions for each emissions unit.

**Table 4 POST PROJECT POTENTIAL TO EMIT FOR CRITERIA POLLUTANTS**

Emissions Unit	PM <sub>10</sub> /PM <sub>2.5</sub>		SO <sub>2</sub>		NO <sub>x</sub>		CO		VOC		Lead	
	lb/hr <sup>a</sup>	T/yr <sup>b</sup>	lb/hr <sup>a</sup>	T/yr <sup>b</sup>	lb/hr <sup>a</sup>	T/yr <sup>b</sup>	lb/hr <sup>a</sup>	T/yr <sup>b</sup>	lb/hr <sup>a</sup>	T/yr <sup>b</sup>	lb/hr	T/yr
<b>Point Sources</b>												
Paint spray booth(s) and/or preparation station(s)	0.02	0.07	0.00	0.00	0.00	0.00	0.00	0.00	2.79	12.24	0	0
Paint booth heater(s)	0.08	0.08	0.01	0.03	1.70	1.77	0.84	0.88	0.06	0.06	0.000005	0.000006
<b>Post-Project Totals</b>	<b>0.10</b>	<b>0.15</b>	<b>0.01</b>	<b>0.03</b>	<b>1.70</b>	<b>1.77</b>	<b>0.84</b>	<b>0.88</b>	<b>2.85</b>	<b>12.30</b>	<b>0.000005</b>	<b>0.000006</b>

- a) Controlled average emission rate in pounds per hour is a daily average, based on the proposed daily operating schedule and daily limits.  
b) Controlled average emission rate in tons per year is an annual average, based on the proposed annual operating schedule and annual limits.

The following table presents the post project Potential to Emit for HAP pollutants from all emissions units at the facility as determined by DEQ staff. The table only lists those individual HAPs that are emitted in the greatest quantities; see Appendix A for a complete listing of all HAPs.

**Table 5 POST PROJECT POTENTIAL TO EMIT FOR HAPs<sup>(a)</sup>**

HAP Pollutants	PTE (T/yr)
Ethyl benzene	0.61
Methyl Isobutyl Ketone (MIBK)	1.26
Naphthalene	2.34
Toluene	1.92
Styrene	2.51
Xylene (o-, m-, p-isomers)	2.22
<b>Total</b>	<b>10.86</b>

- a) The table does not list all individual HAPs, however the total PTE value reflects all HAPs.

### Change in Potential to Emit

The project's change in Potential to Emit is used to determine if a public comment period may be required or if emissions modeling may be required, and to determine the processing fee per IDAPA 58.01.01.225.

The following table presents the change in the Potential to Emit for criteria pollutants as a result of this project.

**Table 6 CHANGES IN POTENTIAL TO EMIT FOR CRITERIA POLLUTANTS**

	PM <sub>10</sub> /PM <sub>2.5</sub>		SO <sub>2</sub>		NO <sub>x</sub>		CO		VOC		Lead	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
<b>Point Sources</b>												
Pre-Project Potential to Emit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Post Project Potential to Emit	0.10	0.15	0.01	0.03	1.70	1.77	0.84	0.88	2.85	12.30	0.000005	0.000006
<b>Changes in Potential to Emit</b>	<b>0.10</b>	<b>0.15</b>	<b>0.01</b>	<b>0.03</b>	<b>1.70</b>	<b>1.77</b>	<b>0.84</b>	<b>0.88</b>	<b>2.85</b>	<b>12.30</b>	<b>0.00</b>	<b>0.00</b>

### Non-Carcinogenic and Carcinogenic TAPs Potential to Emit

Because of the daily coating material use limits imposed by DEQ, and agreed to by the facility in applying for this Automotive Coating "General Permit", no ELs specified in IDAPA 58.01.01.585 or 586 are expected to be exceeded by the facility (see the DEQ Automotive Coating EI spreadsheet on the DEQ website).

**Ambient Air Quality Impact Analyses**

Because of the daily coating material use limits imposed by DEQ, and agreed to by the facility in applying for this Automotive Coating “General Permit”, it needs to be determined if the PTE for the automotive coating operation exceeds the DEQ modeling guideline thresholds. The following table compares the post-project facility-wide annual emissions to the DEQ modeling guideline thresholds (per the State of Idaho Air Quality Modeling Guideline, September 2013).

**Table 7 PTE FOR CRITERIA POLLUTANTS COMPARED TO THE DEQ MODELING GUIDELINE THRESHOLDS**

<b>Pollutant</b>	<b>PTE (T/yr)</b>	<b>DEQ Modeling Guideline Thresholds (T/yr)</b>	<b>Exceeds Modeling Guideline Threshold?</b>
PM <sub>10</sub>	0.15	1.5	No
PM <sub>2.5</sub>	0.15	1.0	No
SO <sub>2</sub>	0.03	4.0	No
NO <sub>x</sub>	1.77	4.0	No
CO	0.88	10.0	No
Lead	0.00	0.06	No

Therefore, the installation of the new automotive coating operation does not require criteria pollutant modeling.

As presented previously in the DEQ Automotive Coatings EI Spreadsheet (see the DEQ website) there are no TAPs that required facility modeling for exceeding the pounds per hour screening levels provided in IDAPA 58.01.01.585 and .586. Therefore, the installation of a new automotive coating operation does not require TAPs modeling.

**REGULATORY ANALYSIS**

**Attainment Designation (40 CFR 81.313)**

Scott Shawver’s Auto Body and RV, LLC is located in Kootenai County, which is designated as attainment or unclassifiable for PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>2</sub>, CO, and Ozone. Refer to 40 CFR 81.313 for additional information.

**Facility Classification AIRS/AFS**

As demonstrated in Table 2 the facility has an uncontrolled potential to emit for PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, and VOC emissions are less than the Major Source thresholds of 100 T/yr for each pollutant. In addition, as demonstrated in Table 3 the facility has an uncontrolled potential for each HAP less than the Major Source threshold of 10 T/yr and for all HAPs combined less than the Major Source threshold of 25 T/yr. Therefore, this facility is classified as a natural minor source and is classified as a “B” source.

**PTC Permit to Construct (IDAPA 58.01.01.201)**

IDAPA 58.01.01.201..... Permit to Construct Required

The PTC rules under IDAPA 58.01.01.201 require that “No owner or operator may commence construction or modification of any stationary source, facility, major facility, or major modification without first obtaining a permit to construct from the Department which satisfies the requirements of Sections 200 through 228 unless the source is exempted in any of Sections 220 through 223.” Therefore, DEQ staff analyzed the data from the permit application for the installation of this automotive coating operation to determine if it is exempt from obtaining a PTC according to Sections 220 through 223.



IDAPA 58.01.01.220..... General Exemption Criteria for Permit to Construct Exemptions

In accordance with IDAPA 58.01.01.220.01.a, the maximum capacity of the source to emit an air pollutant under its physical and operational design without consideration of limitations on emissions such as air pollution control equipment, restrictions on hours of operation and restrictions on the type and amount of material combusted, stored, or processed shall not equal or exceed 100 tons/yr for all regulated air pollutants. As previously presented in Table 2, the proposed project results in uncontrolled potential emissions of less than 100 tons/yr for all regulated air pollutants. Therefore, the project meets the criteria set forth in Section 220 and may be exempt from PTC requirements. In addition, the criteria set forth in Section 221, 222, or 223 must be met to be exempt from PTC requirements.

IDAPA 58.01.01.221..... Category I Exemption Criteria

In accordance with IDAPA 58.01.01.221.01, the maximum capacity of a source to emit an air pollutant under its physical and operational design considering limitations on emissions such as air pollution control equipment, restrictions on hours of operation and restrictions on the type and amount of material combusted, stored or processed shall be less than ten percent (10%) of the significant emission rates set out in the definition of significant at Section 006. The following table compares the post-project facility-wide annual PTE to 10% of the significance threshold listed in IDAPA 58.01.01.006 in order to determine if the project may qualify for a Category I exemption.

**Table 8 PTE FOR CRITERIA POLLUTANTS COMPARED TO THE SIGNIFICANCE THRESHOLDS**

<b>Pollutant</b>	<b>PTE (T/yr)</b>	<b>10% of the Significance Threshold (T/yr)</b>	<b>Exceeds 10% of the Significance Threshold?</b>
PM <sub>10</sub>	0.15	1.5	No
PM <sub>2.5</sub>	0.15	1.0	No
SO <sub>2</sub>	0.03	4.0	No
NO <sub>x</sub>	1.77	4.0	No
CO	0.88	10.0	No
VOC	12.30	4.0	Yes

The potential VOC emission rate of the proposed project is indicated in Table 10 above, which is above 10% of the significant emission rate listed in IDAPA 58.01.01.006. Therefore, the installation of a new automotive coating operation does not qualify for a Category I exemption.

**Tier II Operating Permit (IDAPA 58.01.01.401)**

IDAPA 58.01.01.401..... Tier II Operating Permit

The application was submitted for a permit to construct (refer to the Permit to Construct section), and an optional Tier II operating permit has not been requested. Therefore, the procedures of IDAPA 58.01.01.400–410 were not applicable to this permitting action.

**Visible Emissions (IDAPA 58.01.01.625)**

IDAPA 58.01.01.625..... Visible Emissions

The emissions from the automotive coating process are subject to the State of Idaho visible emissions standard of 20% opacity. This requirement is assured by Permit Condition 6.

**Rules for the Control of Odors (IDAPA 58.01.01.775-776)**

IDAPA 58.01.01.775-776..... Rules for the Control of Odors

The facility is subject to the general restrictions for the control of odors from the facility. This requirement is assured by Permit Conditions 7 and 12.

**Title V Classification (IDAPA 58.01.01.300, 40 CFR Part 70)**

IDAPA 58.01.01.301..... Requirement to Obtain Tier I Operating Permit

IDAPA 58.01.01.006 defines a Tier I source as “Any source located at a major facility as defined in Section 008.”

IDAPA 58.01.01.008 defines a Major Facility as either:

- For HAPS a facility with the potential to emit ten (10) tons per year (T/yr) or more of any hazardous air pollutant, other than radionuclides, or
- The facility emits or has the potential to emit twenty-five (25) T/yr or more of any combination of any hazardous air pollutants, other than radionuclides.

Or, for non-attainment areas:

- The facility is located in a “serious” particulate matter (PM<sub>10</sub>) nonattainment area and the facility has the potential to emit seventy (70) T/yr or more of PM<sub>10</sub>, or
- The facility is located in a “serious” carbon monoxide nonattainment area in which stationary sources are significant contributors to carbon monoxide levels and the facility has the potential to emit fifty (50) T/yr or more of carbon monoxide, or
- The facility is located in an ozone transport region established pursuant to 42 U.S.C. Section 7511c and the facility has the potential to emit fifty (50) T/yr or more of volatile organic compounds, or
- The facility is located in an ozone nonattainment area and, depending upon the classification of the nonattainment area, the facility has the potential to emit the following amounts of volatile organic compounds or oxides of nitrogen; provided that oxides of nitrogen shall not be included if the facility has been identified in accordance with 42 U.S.C. Section 7411a(f)(1) or (2) if the area is “marginal” or “moderate,” one hundred (100) T/yr or more, if the area is “serious,” fifty (50) T/yr or more, if the area is “severe,” twenty-five (25) T/yr or more, and if the area is “extreme,” ten (10) T/yr or more.
- The facility emits or has the potential to emit one hundred (100) T/yr or more of any regulated air pollutant. The fugitive emissions shall not be considered in determining whether the facility is major unless the facility is a “Designated Facility.”

Uncontrolled HAP emissions were calculated by using the DEQ Automotive Coating EI spreadsheet (see the DEQ website) and setting paint use to 4.0 gallons per day (as limited by the permit). Then worst-case HAP emissions were determined for all paints listed in the spreadsheet. Then emissions were assumed to occur 2,080 hours per year as a worst-case assumption.

As presented in Table 5 the PTE for each HAP is less than 10 T/yr and the PTE for all HAPs combined is less than 25 T/yr. Therefore, this facility is not a HAPs Major Source subject to Tier I permitting requirements.

As discussed previously the Scott Shawver’s Auto Body and RV, LLC facility is located in Kootenai County (AQCR 62), which is designated as attainment for PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, and Ozone for federal and state criteria air pollutants.

As presented in Table 4 the PTE for each criteria pollutant is less than 100 T/yr. Therefore, this facility is not a criteria pollutant Major Source subject to Tier I permitting requirements.

**PSD Classification (40 CFR 52.21)**

40 CFR 52.21..... Prevention of Significant Deterioration of Air Quality

The facility is not a major stationary source as defined in 40 CFR 52.21(b)(1), nor is it undergoing any physical change at a stationary source, not otherwise qualifying under paragraph 40 CFR 52.21(b)(1) as a major stationary source, that would constitute a major stationary source by itself as defined in 40 CFR 52. Therefore, in accordance with 40 CFR 52.21(a)(2), the PSD requirements do not apply.

**NSPS Applicability (40 CFR 60)**

The facility is not subject to any NSPS requirements.

**NESHAP Applicability (40 CFR 61)**

The facility is not subject to any NESHAP requirements in 40 CFR 61.

**MACT Applicability (40 CFR 63)**

**40 CFR 63, Subpart HHHHHH National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources**

§ 63.11169.....What is the purpose of this subpart?

In accordance with §63.11169, subpart HHHHHH establishes national emission standards for hazardous air pollutants (HAP) for area sources involved in auto body refinishing operations that encompass motor vehicle and mobile equipment spray-applied surface coating operations.

§ 63.11170..... Am I subject to this subpart?

In accordance with §63.11170(a), this automotive coating operation is subject to this subpart because the facility will be operated as an area source of HAP. The facility is a source of HAP that is not a major source of HAP, is not located at a major source, and is not part of a major source of HAP emissions. In addition, the facility will perform one or more activities listed in this section, including spray application of coatings, as defined in §63.11180, to motor vehicles and mobile equipment including operations that are located in stationary structures at fixed locations.

§ 63.11171..... How do I know if my source is considered a new source or an existing source?

In accordance with §63.11171(b), the automotive coating operation is the collection of mixing rooms and equipment; spray booths, curing ovens, and associated equipment; spray guns and associated equipment; spray gun cleaning equipment; and equipment used for storage, handling, recovery, or recycling of cleaning solvent or waste paint. Paint stripping was not proposed as a business activity.

In accordance with §63.11171(c), this automotive coating operation is a new source because it will commence construction after September 17, 2007, by installing new paint stripping or surface coating equipment, and the new surface coating equipment will be used at a source that was not actively engaged in paint stripping and/or miscellaneous surface coating prior to September 17, 2007.

§ 63.11172.....When do I have to comply with this subpart?

In accordance with §63.11172(a)(2), because the initial startup of the facility will occur after January 9, 2008, the compliance date is the date of initial startup of the automotive coating operation.

§ 63.11173.....What are my general requirements for complying with this subpart?

Because the facility has not proposed paint-stripping activities, the requirements of §63.11173(a) through (f) are not applicable. Because the facility is an automotive coating operation, in accordance with §63.11173(e), the permittee must meet the requirements of in paragraphs (e)(1) through (e)(5) of this section.

In accordance with §63.11173(f), each owner or operator of an affected automotive coating operation must ensure and certify that all new and existing personnel, including contract personnel, who spray apply surface coatings, as defined in §63.11180, are trained in the proper application of surface coatings as required by paragraph (e)(1) of this section. The training program must include, at a minimum, the items listed in paragraphs (f)(1) through (f)(3) of this section.

In accordance with §63.11173(g), as required by paragraph (e)(1) of this section, all new and existing personnel at an affected motor vehicle and mobile equipment or miscellaneous surface coating source, including contract personnel, who spray apply surface coatings, as defined in §63.11180, must be trained by the dates specified in paragraphs (g)(1) and (2) of this section. Employees who transfer within a company to a position as a painter are subject to the same requirements as a new hire.

Compliance with these requirements is assured by Permit Condition 17.

§ 63.11174.....What parts of the General Provisions apply to me?

In accordance with §63.11174(a), Table 1 of this subpart shows which parts of the General Provisions in subpart A apply. Compliance with these requirements is assured by Permit Condition 16.

In accordance with §63.11174(b), an owner or operator of an area source subject to this subpart is exempt from the obligation to obtain a permit under 40 CFR part 70 or 71 provided that a permit under 40 CFR 70.3(a) or 71.3(a) is not required for a reason other than becoming area source subject to this subpart. This permit application and permitting action involve a Permit to Construct, and will not utilize the requirements and procedures in IDAPA 58.01.01.300-399 for the issuance of Tier I operating permits.

§ 63.11175.....What notifications must I submit?

In accordance with §63.11175(a), because the facility is a surface coating operation subject to this subpart, the initial notification required by §63.9(b) must be submitted. For this new operation, the Initial Notification must be submitted no later than 180 days after initial startup.

In accordance with §63.11175(b), because the facility is a new source, the permittee is not required to submit a separate notification of compliance status in addition to the initial notification specified in paragraph (a) of this subpart 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. The permittee must submit a Notification of Compliance Status on or before March 11, 2011. The permittee is required to submit the information specified in paragraphs (b)(1) through (4) of this section with the Notification of Compliance Status.

Compliance with these requirements is assured by Permit Condition 18.

§ 63.11176..... What reports must I submit?

In accordance with §63.11176(a), because the permittee is an owner or operator of a paint stripping, motor vehicle or mobile equipment, or miscellaneous surface coating affected source, the permittee is required to submit a report in each calendar year in which information previously submitted in either the initial notification required by §63.11175(a), Notification of Compliance, or a previous annual notification of changes report submitted under this paragraph, has changed. Deviations from the relevant requirements in §63.11173(a) through (d) or §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 information specified in paragraphs (a)(1) through (2) of this section.

Compliance with these requirements is assured by Permit Condition 19.

Because the facility has not proposed to conduct paint stripping operations, the MeCl minimization plan requirements are not applicable (see Permit Condition 9).

§ 63.11177.....What records must I keep?

In accordance with §63.11177, because the permittee is the owner or operator of a surface coating operation, the permittee must keep the records specified in paragraphs (a) through (d) and (g) of this section. Because the permittee has not proposed to conduct paint stripping operations, the requirements of paragraphs (e) and (f) of this section are not applicable. Compliance with these requirements is assured by Permit Condition 17.

§ 63.11178.....In what form and for how long must I keep my records?

In accordance with 40 CFR 63.11178(a) because the permittee is the owner or operator of an affected source, the permittee must maintain copies of the records specified in §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. Compliance with these requirements is assured by Permit Condition 17.

§ 63.11179.....Who implements and enforces this subpart?

In accordance with §63.11179(a), this subpart can be implemented and enforced by the U.S. Environmental Protection Agency (EPA), or a delegated authority. At the time of this permitting action, the EPA has delegated authority to the State of Idaho. IDAPA 58.01.01.107.03.i incorporates by reference all Federal Clean Air Act requirements including 40 CFR 63, Subpart HHHHHH. Therefore, the requirements of this subpart have been placed in the permit.

§ 63.11180.....What definitions do I need to know?

Terms used in this subpart are defined in accordance with §63.11180.

### ***Permit Conditions Review***

This section describes the permit conditions for this initial permit.

Permit Condition 1 establishes the permit to construct scope.

Permit Condition 2 provides a description of the purpose of the permit and the regulated sources, the process, and the control devices used at the facility.

Permit Condition 3 provides a process description of the facility.

Permit Condition 4 provides a description of the control devices used at the facility.

Permit Condition 5 establishes hourly and annual emissions limits for PM<sub>10</sub> and VOC emissions from the automotive coating operation.

As mentioned previously, Permit Condition 6 establishes a 20% opacity limit for the paint booth stacks, vents, or functionally equivalent openings associated with the automotive coating operation.

As mentioned previously, Permit Condition 7 establishes that the permittee shall not allow, suffer, cause, or permit the emission of odorous gasses, liquids, or solids to the atmosphere in such quantities as to cause air pollution.

Permit Condition 8 establishes that only natural gas or LPG is allowed to be used as fuel in the paint booth heater as proposed by the applicant.

Permit Condition 9 establishes that the facility will not use MeCl to remove paint from vehicles at the facility. This was done because MeCl was not proposed to be used at this facility by the Applicant and the emissions were not included in the DEQ Automotive Coating EI Spreadsheet (see the DEQ website). In addition, Subpart HHHHHH has additional requirements for facilities that use MeCl to remove paint as mentioned previously in the discussion of Subpart HHHHHH in the MACT Applicability Section.

Permit Condition 10 establishes a daily use limit for all coating materials used in the automotive coating process as proposed by the Applicant. This limit was established because it was the easiest way for the Applicant to demonstrate compliance with the PM<sub>10</sub> and VOC emissions limit specified in permit condition 5 and the TAPs emissions limits specified in the DEQ Automotive Coating EI Spreadsheet (see the DEQ website).

Permit Condition 11 establishes that the permittee conduct all automotive coating operations in the paint booth or preparation station with the filters in place, exhaust fan(s) operating, and door(s) or curtain(s) closed, that the operation shall use a HVLP spray gun, and that the permittee shall maintain and operate the paint booth and preparation station exhaust filter system in accordance with the manufacturer's specifications. This condition also defines what a booth and preparation station used for applying coating is.

Permit Condition 12 establishes that the permittee shall maintain records of all odor complaints received, perform appropriate corrective actions, and maintain records of corrective actions taken at the facility for the automotive coating process. This was required because automotive operation operations are expected to have odors that might be offensive to their immediate neighbors.

Permit Condition 13 establishes that the permittee shall maintain material purchase records and Safety Data Sheets (SDSs) for the automotive coating process. This condition was placed in the permit to ensure compliance with the Coating Materials Use Limit Permit Condition.

Permit Condition 14 establishes that the permittee shall maintain daily usage records of pre-treatment wash primer, primer, topcoat, clear coat, and thinner/reducer materials used for the automotive coating process. This condition was placed in the permit to ensure compliance with the Coating Materials Use Limit permit condition.

Permit Condition 15 establishes that the permittee shall maintain records as required by the General Provision recordkeeping requirements.

Permit Condition 16 establishes parameters that will allow the facility to comply with the general operating requirements of 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Coating Operations unless the facility is exempt from HHHHHH.

Permit Condition 17 establishes parameters that will allow the facility to comply with the monitoring and recordkeeping requirements of 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Coating Operations unless the facility is exempt from HHHHHH.

Permit Condition 18 establishes parameters that will allow the facility to comply with the initial notification and reporting requirements of 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Coating Operations unless the facility is exempt from HHHHHH.

Permit Condition 19 establishes parameters that will allow the facility to comply with the annual notification and reporting requirements of 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Coating Operations unless the facility is exempt from HHHHHH.

Permit Condition 20 establishes that the federal requirements of 40 CFR Part 63 are incorporated by reference into the requirements of this permit per current DEQ guidance.

## **PUBLIC REVIEW**

### ***Public Comment Opportunity***

An opportunity for public comment period on the application was provided in accordance with IDAPA 58.01.01.209.01.c or IDAPA 58.01.01.404.01.c. During this time, there was not a request for a public comment period on DEQ's proposed action. Refer to the chronology for public comment opportunity dates.

## APPENDIX A – EMISSIONS INVENTORIES

**Facility Data Input:**

- Exempt? No
- Fuel type natural gas
- Heaters single/maximum
- Maximum gas-fired heater size 10.00 MMBtu/hr (total heat input of all gas-fired)
- Maximum oil-fired heater size 0.00 MMBtu/hr (total heat input of all oil-fired)
- Daily coating 4.00 gal/day
- Bed lining No
- Safety factor 1.20 (applied to TAP)
- Natural gas gross heating value 1,000 MMBtu/MMscf



**General PTC Emission Inventories for Automotive Coating Operations**  
*maximum emission estimates of all coatings analyzed and including booth heater emissions*

Criteria Air Pollutants	Booth Emissions	Heater Emissions	Combined Emissions	Booth Emissions	Heater Emissions	Combined Emissions	BRC Threshold		Below Threshold?
	lb/hr	lb/hr	lb/hr	T/yr	T/yr	T/yr			
NO <sub>2</sub>	0.000	1.700	1.700	0.00	1.77	1.77	4	T/yr	Yes
CO	0.000	0.840	0.840	0.00	0.88	0.88	10	T/yr	Yes
PM <sub>2.5</sub> /PM <sub>10</sub>	0.0171	0.0760	0.0931	0.0749	0.0791	0.1540	1	T/yr	Yes
SO <sub>x</sub>	0.000	0.006	0.006	0.00	0.03	0.03	4	T/yr	Yes
VOC	2.794	0.055	2.849	12.24	0.06	12.30	4	T/yr	No
Lead	0.E+00	5.E-06	5.E-06	0.E+00	6.E-06	6.E-06	0.06	T/yr	Yes
	lb/mo	lb/mo	lb/mo						
PM <sub>2.5</sub> / PM <sub>10</sub> (uncontrolled)	0.000	0.004	0.004						
	0.8550	0.0760	0.9310	3.7449	0.08	3.8240			

Hazardous Air Pollutants (HAP) and Toxic Air Pollutants (TAP)	Booth Emissions	Heater Emissions	Combined Emissions	Combined Emissions	Modeling Threshold	Below Threshold?
	lb/hr	lb/hr	lb/hr	T/yr	EL (lb/hr)	
<b>Organic HAP PAH</b>						
2-Methylnaphthalene	0.00E+00	5.70E-08	5.70E-08	5.93E-08	9.10E-05	Yes
3-Methylchloranthrene	0.00E+00	4.27E-09	4.27E-09	4.44E-09	2.50E-06	Yes
Acenaphthene	0.00E+00	4.27E-09	4.27E-09	4.44E-09	9.10E-05	Yes
Acenaphthylene	0.00E+00	4.27E-09	4.27E-09	4.44E-09	9.10E-05	Yes
Anthracene	0.00E+00	5.70E-09	5.70E-09	5.93E-09	9.10E-05	Yes
Benzo(a)anthracene	0.00E+00	4.27E-09	4.27E-09	4.44E-09	See POM	
Benzo(a)pyrene	0.00E+00	2.85E-09	2.85E-09	2.96E-09	2.00E-06	See POM
Benzo(b)fluoranthene	0.00E+00	4.27E-09	4.27E-09	4.44E-09	See POM	
Benzo(g,h,i)perylene	0.00E+00	2.85E-09	2.85E-09	2.96E-09	9.10E-05	Yes
Benzo(k)fluoranthene	0.00E+00	4.27E-09	4.27E-09	4.44E-09	See POM	
Chrysene	0.00E+00	4.27E-09	4.27E-09	4.44E-09	See POM	
Dibenzo(a,h)anthracene	0.00E+00	2.85E-09	2.85E-09	2.96E-09	See POM	
7,12-Dimethylbenzo(a)anthracene	0.00E+00	1.60E-07	1.60E-07	1.66E-07	9.10E-05	Yes
Fluoranthene	0.00E+00	7.12E-09	7.12E-09	7.41E-09	9.10E-05	Yes
Fluorene	0.00E+00	6.65E-09	6.65E-09	6.91E-09	9.10E-05	Yes
Indeno(1,2,3-cd)pyrene	0.00E+00	4.27E-09	4.27E-09	4.44E-09	See POM	
Naphthalene	5.34E-01	1.45E-06	5.34E-01	2.34E+00	3.33E+00	Yes
Phenanthrene	0.00E+00	4.04E-08	4.04E-08	4.20E-08	9.10E-05	Yes
Pyrene	0.00E+00	1.19E-08	1.19E-08	1.23E-08	9.10E-05	Yes
Polycyclic Organic Matter (POM, 7-PAH)	0.00E+00	2.71E-08	2.71E-08	2.82E-08	2.00E-06	Yes
<b>Organic HAP Non-PAH</b>						
1,4-Dichlorobenzene	0.00E+00	2.85E-06	2.85E-06	2.96E-06	3.00E+01	Yes
Ethyl Benzene	1.40E-01	0.00E+00	1.40E-01	6.14E-01	2.90E+01	Yes
Hexamethylene Diisocyanate	2.00E-03	0.00E+00	2.00E-03	8.74E-03	2.00E-03	Yes
n-Hexane	4.00E-01	1.80E-02	4.18E-01	1.77E+00	1.20E+01	Yes
Hexane	3.72E-02	0.00E+00	3.72E-02	1.63E-01	1.73E+01	Yes
1-Methoxy-2-Propanol Acetate	3.21E-01	0.00E+00	3.21E-01	1.41E+00	2.40E+01	Yes
Methyl Chloroform	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E+02	Yes
Methyl Isobutyl Ketone	2.87E-01	0.00E+00	2.87E-01	1.26E+00	1.37E+01	Yes
Methyl Methacrylate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E+01	Yes
Phenol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E+00	Yes
Styrene	5.73E-01	0.00E+00	5.73E-01	2.51E+00	6.67E+00	Yes
Toluene	4.38E-01	3.40E-05	4.38E-01	1.92E+00	2.50E+01	Yes
Xylene	5.07E-01	0.00E+00	5.07E-01	2.22E+00	2.90E+01	Yes
<b>Organic Non-HAP</b>						
Acetone	5.58E-01	0.00E+00	5.58E-01	2.44E+00	1.19E+02	Yes
n-Amyl Acetate	1.66E-02	0.00E+00	1.66E-02	7.29E-02	3.53E+01	Yes
2-Butylacetone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E+00	Yes
Butyl Acetate	1.19E+00	0.00E+00	1.19E+00	5.21E+00	4.73E+01	Yes
Carbon Black	8.33E-04	0.00E+00	8.33E-04	3.65E-03	2.30E-01	Yes
Cyclohexane	1.29E-02	0.00E+00	1.29E-02	5.64E-02	7.00E+01	Yes
Cyclohexanone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E+00	Yes
Diethyl Phthalate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-01	Yes
Dimethyl Phthalate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-01	Yes
Ethyl Alcohol	6.66E-02	0.00E+00	6.66E-02	2.92E-01	1.25E+02	Yes
Heptane	9.30E-02	0.00E+00	9.30E-02	4.07E-01	1.09E+02	Yes
Isobutanol	3.55E-01	0.00E+00	3.55E-01	1.56E+00	1.00E+01	Yes
Isobutyl Acetate	7.33E-02	0.00E+00	7.33E-02	3.21E-01	4.67E+01	Yes
Isobutyl Alcohol	3.55E-01	0.00E+00	3.55E-01	1.56E+00	1.00E+01	Yes
Isophorone Diisocyanate	2.50E-03	0.00E+00	2.50E-03	1.10E-02	6.00E-03	Yes
Isopropyl Alcohol (IPA)	6.63E-01	0.00E+00	6.63E-01	2.91E+00	6.53E+01	Yes
Isopropyl Acetate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E+01	Yes
Methyl Acetate	3.32E-01	0.00E+00	3.32E-01	1.45E+00	4.07E+01	Yes
Methyl Ethyl Ketone	2.76E-01	0.00E+00	2.76E-01	1.21E+00	3.93E+01	Yes
Methyl Isobutyl Ketone	1.02E-01	0.00E+00	1.02E-01	4.49E-01	1.60E+01	Yes
Methyl Isobutyl Carbonyl	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E+00	Yes
Methyl Propyl Ketone	1.58E-01	0.00E+00	1.58E-01	6.90E-01	4.67E+01	Yes
Propionic Acid	1.51E-02	0.00E+00	1.51E-02	6.61E-02	2.00E+00	Yes
Propyl Acetate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E+01	Yes
Propyl Alcohol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E+01	Yes
Trimethyl Benzene	1.88E-01	0.00E+00	1.88E-01	8.24E-01	8.20E+00	Yes
<b>Metal HAP</b>						
Antimony	1.86E-03	0.00E+00	1.86E-03	8.17E-03	3.30E-02	Yes
Arsenic	0.00E+00	4.75E-07	4.75E-07	4.94E-07	1.50E-06	Yes
Beryllium	0.00E+00	2.85E-08	2.85E-08	2.96E-08	2.80E-05	Yes
Calcium	0.00E+00	2.61E-06	2.61E-06	2.72E-06	3.70E-06	Yes
Chromium	5.63E-04	1.40E-05	5.77E-04	2.48E-03	3.30E-02	Yes
Cobalt	0.00E+00	8.40E-07	8.40E-07	8.74E-07	3.30E-03	Yes
Copper	0.00E+00	8.50E-06	8.50E-06	8.84E-06	1.30E-02	Yes
Iron Oxide Fume	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-01	Yes
Manganese	0.00E+00	3.80E-06	3.80E-06	3.95E-06	3.33E-01	Yes
Nickel	0.00E+00	4.99E-06	4.99E-06	5.19E-06	2.70E-05	Yes
Vanadium	0.00E+00	2.30E-05	2.30E-05	2.39E-05	3.00E-03	Yes
<b>Metal Non-HAP</b>						
Aluminum - Metal & Oxide	3.26E-03	0.00E+00	3.26E-03	1.43E-02	6.67E-01	Yes
Aluminum - Soluble Salts	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-01	Yes
Barium	2.17E-04	4.40E-05	2.61E-04	9.96E-04	3.30E-02	Yes
Molybdenum	0.00E+00	1.10E-05	1.10E-05	1.14E-05	3.33E-01	Yes
<b>Inorganic HAP</b>						
Selenium	0.00E+00	2.40E-07	2.40E-07	2.50E-07	1.30E-02	Yes
<b>Inorganic Non-HAP</b>						
Calcium Carbonate	1.30E-03	0.00E+00	1.30E-03	5.70E-03	6.67E-01	Yes
Kaolin	3.93E-03	0.00E+00	3.93E-03	1.72E-02	1.33E-01	Yes
Maonesite	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-01	Yes
Mica	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	Yes
Silica - Amorphous	1.67E-03	0.00E+00	1.67E-03	7.30E-03	6.67E-01	Yes
Silica - Crystalline Cristobalite	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-03	Yes
Silica - Crystalline Quartz	2.35E-03	0.00E+00	2.35E-03	1.03E-02	6.70E-03	Yes
Zinc and Zinc Oxide Dust	0.00E+00	2.90E-04	2.90E-04	3.02E-04	6.67E-01	Yes
		HAP <sub>TOT</sub>	2.727	11.95		
		HAP <sub>MAX</sub>	0.574	2.52		

**TAP EL Modeling Threshold Multiple** 100% Level II / Level III

**Assumptions when estimating spray booth heater emissions:**

- Maximum gas-fired heater size 10.00 MMBtu/hr
- Maximum oil-fired heater size 0.00 MMBtu/hr
- Annual heater operation 2080 hr/yr
- Natural gas heat content 1,000 MMBtu/MMscf
- Natural gas sulfur content 15 air/100 ft<sup>3</sup> sulfur weight content
- Fuel type natural gas only
- Heaters single/maximum

**Assumptions when estimating spray booth emissions:**

- Maximum coating use rates 4.00 gal/day for all coatings (excluding "B" component)
- Averaging period 24 hr/day average
- Annual booth operation 8,760 hr/yr
- Safety factor 1.20 allowance for coatings not analyzed
- Transfer efficiency 65% control for particulates
- Filter removal efficiency 98% control for particulates
- Isocyanate reaction factor 85% control for isocyanates (not applied to MDI)
- Maximum coating density 16.76 lb/gal
- % of monomer in mixture 1% for diisocyanates in hardener mixture
- If no % of TAP was listed in the MSDS, then 1.0% was assumed

**Table 2 UNCONTROLLED POTENTIAL TO EMIT FOR CRITERIA POLLUTANTS**

Emissions Unit	PM <sub>10</sub> /PM <sub>2.5</sub>		SO <sub>2</sub>		NO <sub>x</sub>		CO	VOC		Lead	
	T/yr	T/yr	T/yr	T/yr	T/yr	T/yr	T/yr	T/yr	T/yr	lb/quarter	lb/quarter
<b>Point Sources</b>											
Paint spray booth(s) and/or preparation station(s)	3.74	0.0	0.0	0.0	0.0	0.0	0.0	12.24	0.0		
Paint booth heater(s) <i>(if installed)</i>	0.079	0.03	1.77	0.88	0.06	0.0120					
<b>Total, Point Sources</b>	<b>3.82</b>	<b>0.03</b>	<b>1.77</b>	<b>0.88</b>	<b>12.30</b>	<b>0.01</b>					

**Table 3 UNCONTROLLED POTENTIAL TO EMIT FOR HAPs<sup>a)</sup>**

HAP Pollutants	PTE (T/yr)
Ethyl benzene	0.61
Methyl Isobutyl Ketone (MIBK)	1.26
Naphthalene	2.34
Toluene	1.92
Styrene	2.51
Xylene (o-, m-, p-isomers)	2.22
<b>Total</b>	<b>10.87</b>

**Table 4 POST PROJECT POTENTIAL TO EMIT FOR CRITERIA POLLUTANTS**

Emissions Unit	PM <sub>10</sub> /PM <sub>2.5</sub>		SO <sub>2</sub>		NO <sub>x</sub>		CO		VOC		Lead	
	lb/hr <sup>a</sup>	T/yr <sup>b</sup>	lb/hr <sup>a</sup>	T/yr <sup>b</sup>	lb/hr <sup>a</sup>	T/yr <sup>b</sup>	lb/hr <sup>a</sup>	T/yr <sup>b</sup>	lb/hr <sup>a</sup>	T/yr <sup>b</sup>	lb/hr	T/yr
	<b>Point Sources</b>											
Paint spray booth(s) and/or preparation station(s)	0.02	0.07	0.00	0.00	0	0.00	0	0.00	2.79	12.24	0	0
Paint booth heater(s) <i>(if installed)</i>	0.08	0.08	0.01	0.03	1.70	1.77	0.84	0.88	0.06	0.06	0.000005	0.000006
<b>Post-Project Totals</b>	<b>0.09</b>	<b>0.15</b>	<b>0.01</b>	<b>0.03</b>	<b>1.70</b>	<b>1.77</b>	<b>0.84</b>	<b>0.88</b>	<b>2.85</b>	<b>12.30</b>	<b>0.000005</b>	<b>0.000006</b>

**Table 5 POST PROJECT POTENTIAL TO EMIT FOR HAPs<sup>a)</sup>**

HAP Pollutants	PTE (T/yr)
Ethyl benzene	0.61
Methyl Isobutyl Ketone (MIBK)	1.26
Naphthalene	2.34
Toluene	1.92
Styrene	2.51
Xylene (o-, m-, p-isomers)	2.22
<b>Total</b>	<b>10.87</b>

**Table 6 CHANGES IN POTENTIAL TO EMIT FOR CRITERIA POLLUTANTS**

	PM <sub>10</sub> /PM <sub>2.5</sub>		SO <sub>2</sub>		NO <sub>x</sub>		CO		VOC		Lead	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
	<b>Point Sources</b>											
Pre-Project Potential to Emit	0	0	0	0	0	0	0	0	0	0	0	0
Post Project Potential to Emit	0.09	0.15	0.01	0.03	1.70	1.77	0.84	0.88	2.85	12.30	0.00	0.00
<b>Changes in Potential to Emit</b>	<b>0.09</b>	<b>0.15</b>	<b>0.01</b>	<b>0.03</b>	<b>1.70</b>	<b>1.77</b>	<b>0.84</b>	<b>0.88</b>	<b>2.85</b>	<b>12.30</b>	<b>0.00</b>	<b>0.00</b>

**Table 7 PTE FOR CRITERIA POLLUTANTS COMPARED TO THE DEQ MODELING GUIDELINE THRESHOLDS**

Pollutant	PTE (T/yr)	DEQ Modeling Guideline Thresholds (T/yr)	Exceeds Modeling Guideline Threshold?
PM <sub>10</sub>	0.15	1.5	No
PM <sub>2.5</sub>	0.15	1	No
SO <sub>2</sub>	0.03	4	No
NO <sub>x</sub>	1.77	4	No
CO	0.88	10	No
Lead	0.00	0.06	No

**Table 8 PTE FOR CRITERIA POLLUTANTS COMPARED TO THE SIGNIFICANCE THRESHOLDS**

Pollutant	PTE (T/yr)	10% of the Significance Threshold (T/yr)	Exceeds 10% of the Significance Threshold?
PM <sub>10</sub>	0.15	1.5	No
PM <sub>2.5</sub>	0.15	1.0	No
SO <sub>2</sub>	0.03	4.0	No
NO <sub>x</sub>	1.77	4.0	No
CO	0.88	10.0	No
VOC	12.30	4.0	Yes

**Coating Type: Surface Prep**

Content Weight %																
Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>	Acetone	n-Butyl Alcohol	Dipropylene Glycol Methyl Ether	Ethyl Benzene (HAP)	Isobutanol	Isopropyl Alcohol (IPA)	1-Methoxy-2-Propanol Acetate (HAP)	Methyl n-Amyl Ketone	Methyl Isobutyl Ketone (MIBK)(HAP)	Stoddard Solvent Mineral Spirits	Trimethyl Benzene	Xylene (HAP)
BASF DE17		55%			10%	6.80%		5.50%	10.00%		10.00%					24.60%
BASF DE18		18%							24.10%	45.00%			19.50%			
BASF '902		0%				36.00%	15.00%					10.00%		50.00%	2.00%	
Content lb/gal																
Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>	Acetone	n-Butyl Alcohol	Dipropylene Glycol Methyl Ether	Ethyl Benzene (HAP)	Isobutanol	Isopropyl Alcohol (IPA)	1-Methoxy-2-Propanol Acetate (HAP)	Methyl n-Amyl Ketone	Methyl Isobutyl Ketone (MIBK)(HAP)	Stoddard Solvent Mineral Spirits	Trimethyl Benzene	Xylene (HAP)
BASF DE17	9.17	5.04	3.68	2.26	0.92	0.62	0.00	0.50	0.92	0.00	0.92	0.00	0.00	0.00	0.00	2.26
BASF DE18	7.37	1.33	1.44	1.44	0.00	0.00	0.00	0.00	1.78	3.32	0.00	0.00	1.44	0.00	0.00	0.00
BASF '902	6.74	0.00	0.00	0.00	0.00	2.43	1.01	0.00	0.00	0.00	0.00	0.67	0.00	3.37	0.13	0.00
<b>Maximum (lb/gal)</b>	<b>9.17</b>	<b>5.04</b>	<b>3.68</b>	<b>2.26</b>	<b>0.92</b>	<b>2.43</b>	<b>1.01</b>	<b>0.50</b>	<b>1.78</b>	<b>3.32</b>	<b>0.92</b>	<b>0.67</b>	<b>1.44</b>	<b>3.37</b>	<b>0.13</b>	<b>2.26</b>
Emission Rate (lb/hr)		5.9E-03	7.4E-01	4.5E-01	1.8E-01	4.9E-01	2.0E-01	1.0E-01	3.6E-01	6.6E-01	1.8E-01	1.3E-01	2.9E-01	6.7E-01	2.7E-02	4.5E-01
IDAPA TAP EL (lb/hr)					1.19E+02	1.00E+01	4.00E+01	2.9E+01	1.00E+01	6.53E+01	2.40E+01	1.57E+01	1.37E+01	3.50E+01	8.20E+00	2.9E+01
Below EL?					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)		Filter Control Efficiency (%)												
4.00	24	65.00%	98.00%													
Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)														
85.00%	1,460.0	1.20														

Coating Type: Primer

Content Weight %																						
Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>	Acetone	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Kaolin (particulate)	Magnesium Carbonate	1-Methoxy-2-Propanol Acetate (HAP)	Methyl Acetate	Methyl n-Amyl Ketone	Methyl Ethyl Ketone (MEK/HAP)	Naphthalene (HAP)	PCBTf	Phosphoric Acid Salt	Silica Amorphous (particulate)	Silica Crystalline Quartz (particulate)	Toluene (HAP)	Trimethyl Benzene	Xylene (HAP)
BASF DP-20	67%	10.00%			10.00%	10.00%		1.80%	15.00%	5.00%	10.00%							5%	5.00%			7.70%
BASF DP-21	70%				20.00%	20.00%		1.10%	20.00%	5.00%	5.00%											5.20%
BASF DP-25	59%	5.00%			20.00%	20.00%		1.40%	15.00%	5.00%	5.00%	5.00%	5.00%				5.00%	5%	5.00%	10.00%	2.00%	8.20%
BASF DP-26	59%	5.00%			20.00%	20.00%	5.00%	1.40%	15.00%	5.00%	5.00%	5.00%	5.00%				5.00%		5.00%	10.00%	2.00%	6.20%
BASF DP-27	59%	5.00%			20.00%	20.00%	5.00%	1.40%	20.00%	5.00%	5.00%	5.00%	5.00%						5.00%		2.00%	6.20%
BASF DP-31	66%	5.00%			15.00%	15.00%		1.50%	10.00%	5.00%	5.00%							5%	5.00%			6.70%
BASF DP-200	68%	10.00%							20.00%	5.00%												5.00%
BASF DP-210	87%				5.00%	10.00%			15.00%	5.00%	5.00%	10.00%							5%	10.00%		
BASF DP-226	79%				5.00%	5.00%		0.20%	15.00%	5.00%	5.00%	10.00%							5%	5.00%		
BASF DP-238	79%																					
BASF DP-321	54%	10.00%			25.00%	25.00%	5.00%	0.20%	10.00%	5.00%			10.00%						5.00%	10.00%	10.00%	
BASF DP-8330	52%	1.00%			25.00%	25.00%	5.00%	0.20%	5.00%	5.00%				15.00%	1.00%	40.00%			10.00%	10.00%	10.00%	
BASF DP-8335	52%	1.00%			25.00%	25.00%	5.00%	0.20%	5.00%	5.00%				15.00%	1.00%				10.00%	10.00%	10.00%	
Dupont Nason 421-05	49.01%	1.00%			1.00%	1.00%	1.00%	0.80%											1.00%	4.00%		3.00%
Dupont Nason 421-08	56.62%	1.00%			1.00%	1.00%	1.00%	0.60%											1.00%	9.00%		
Dupont Nason 421-09	54.07%	1.00%			1.00%	1.00%	0.50%							1.00%					4.00%	8.00%		
Dupont Nason 421-15	52.89%	1.00%			1.00%	1.00%	0.30%	0.50%						1.00%					6.50%	2.00%		2.00%
Dupont Nason 421-17	62.36%	1.00%			1.00%	1.00%	5.30%	1.80%									1.00%		0.20%	2.00%		21.00%
Dupont Nason 421-18	67.04%	1.00%			1.00%	1.00%	0.20%	2.70%											0.20%	7.00%		7.00%
Dupont Nason 421-19	63.65%	1.00%			1.00%	1.00%	0.20%	0.40%					1.00%						0.30%	21.00%		21.00%
Dupont Nason 421-20	61.62%	1.00%			1.00%	1.00%	0.20%	0.40%					1.00%						0.10%			
Dupont Nason 421-21	51.56%	1.00%			1.00%	1.00%	0.20%	2.70%											16.00%			10.00%
Dupont Nason 421-23	58.92%	1.00%			1.00%	1.00%	0.20%	0.40%														1.00%
Dupont Nason 421-30	64.77%	1.00%			1.00%	1.00%	0.20%	0.40%						1.00%								
Dupont Nason 421-40	53.78%	1.00%			1.00%	1.00%																

Content (lb/gal)																						
Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>	Acetone	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Kaolin (particulate)	Magnesium Carbonate	1-Methoxy-2-Propanol Acetate (HAP)	Methyl Acetate	Methyl n-Amyl Ketone	Methyl Ethyl Ketone (MEK/HAP)	Naphthalene (HAP)	PCBTf	Phosphoric Acid Salt	Silica Amorphous (particulate)	Silica Crystalline Quartz (particulate)	Toluene (HAP)	Trimethyl Benzene	Xylene (HAP)
BASF DP-20	12.62	8.46	2.46	1.26	1.26	1.26	0.00	0.23	1.89	0.63	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.63	0.00	0.00	0.97
BASF DP-21	12.75	8.93	1.44	0.66	0.00	2.55	0.00	0.14	2.55	0.64	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66
BASF DP-25	11.58	6.83	1.46	0.72	0.58	2.32	0.00	0.16	1.74	0.00	0.58	0.58	0.58	0.00	0.00	0.00	0.58	0.58	0.00	0.23	0.72	0.72
BASF DP-26	11.56	6.82	1.46	0.72	0.58	2.31	0.58	0.16	1.73	0.00	0.58	0.58	0.58	0.00	0.00	0.00	0.58	0.00	0.58	0.00	0.23	0.72
BASF DP-27	11.41	6.73	1.44	0.71	0.57	2.28	0.57	0.16	1.73	0.00	0.57	0.57	0.57	0.00	0.00	0.00	0.00	0.57	0.00	0.23	0.71	0.71
BASF DP-31	10.95	7.23	1.45	0.73	0.55	1.64	0.00	0.16	1.10	0.55	0.55	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.73
BASF DP-200	14.04	9.55	0.70	0.70	1.40	0.00	0.00	0.00	2.81	0.70	0.00	0.00	1.40	0.70	0.00	0.00	0.00	0.70	0.70	0.00	0.00	0.00
BASF DP-210	16.76	14.58	0.00	0.00	0.00	1.68	0.00	0.00	0.84	0.00	0.84	0.00	1.68	0.00	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
BASF DP-226	13.73	9.20	0.71	0.69	0.69	0.69	0.00	0.03	2.06	0.69	0.69	1.37	0.00	0.00	0.00	0.00	0.00	0.69	0.69	0.00	0.00	0.00
BASF DP-238	16.04	12.67	1.60	1.60	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.80	0.00	0.80	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
BASF DP-321	12.06	6.51	0.00	0.00	1.21	0.00	0.00	0.00	1.21	0.60	0.00	0.00	1.21	0.60	0.00	4.82	0.00	0.60	0.00	0.00	0.00	0.00
BASF DP-8330	9.19	4.78	2.41	1.38	2.30	0.00	0.46	0.02	0.46	0.00	0.00	0.00	1.38	0.09	0.00	0.46	0.00	0.00	0.92	0.00	0.00	0.00
BASF DP-8335	9.19	4.78	2.41	1.38	2.30	0.00	0.46	0.02	0.46	0.00	0.00	0.00	1.38	0.09	0.00	0.46	0.00	0.00	0.92	0.00	0.00	0.00
Dupont Nason 42	9.52	4.67	0.74	0.38	0.10	0.10	0.10	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10	0.38	0.29
Dupont Nason 42	10.28	5.82	0.82	0.82	0.00	0.10	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.00
Dupont Nason 42	9.94	5.37	0.99	0.89	0.10	0.10	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00
Dupont Nason 42	9.94	5.26	0.55	0.20	0.10	0.10	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.20
Dupont Nason 42	11.88	7.41	3.43	2.49	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	2.49
Dupont Nason 42	13.83	9.27	1.22	0.97	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.03	0.00	0.00	0.97
Dupont Nason 42	12.08	7.69	2.54	2.54	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.54
Dupont Nason 42	11.82	7.16	0.00	0.00	0.00	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Dupont Nason 42	12.32	6.35	0.00	0.00	0.12	0.12	0.02	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Dupont Nason 42	11.15	6.57	3.20	1.78	0.00	0.00	0.02	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78	0.00	1.12
Dupont Nason 42	10.91	7.07	0.15	0.11	0.11	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
Dupont Nason 42	10.24	5.51	3.07	2.87	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Maximum (lb/gal) 16.76 14.58 3.43 2.87 2.30 2.55 0.58 0.70 2.81 0.84 1.60 1.37 1.68 1.38 0.09 4.82 0.58 0.80 1.68 1.78 0.23 2.54

Emission Rate (lb/hr) 1.7E-02 6.9E-01 5.7E-01 4.6E-01 5.1E-01 8.1E-04 1.4E-01 3.9E-03 1.7E-01 3.2E-01 2.7E-01 3.4E-01 2.8E-01 1.8E-02 9.6E-01 4.1E-02 1.1E-03 2.3E-03 3.6E-01 4.6E-02 5.1E-01

IDAPA TAP EL (lb/hr) 1.19E+02 4.73E+01 2.3E-01 2.9E+01 1.33E-01 2.40E+01 4.07E+01 1.57E+01 3.93E+01 3.33E+00 6.70E-02 6.67E-01 6.7E-03 2.5E+01 8.20E+00 2.9E+01

Below EL? Yes

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating Type: Primer

Content Weights %	Density	Solids (particulate)	HAP <sub>tot</sub>	HAP <sub>max</sub>
BASF DP-20		67%		
BASF DP-21		70%		
BASF DP-25		59%		
BASF DP-26		59%		
BASF DP-27		59%		
BASF DP-31		66%		
BASF DP-200		68%		
BASF DP-210		87%		
BASF DP-226		67%		
BASF DP-238		79%		
BASF DP-321		54%		
BASF DP-8330		52%		
BASF DP-8335		52%		
Dupont Nason 421-05		49.01%		
Dupont Nason 421-08		56.62%		
Dupont Nason 421-09		54.07%		
Dupont Nason 421-15		52.89%		
Dupont Nason 421-17		62.36%		
Dupont Nason 421-18		67.04%		
Dupont Nason 421-19		63.65%		
Dupont Nason 421-20		61.62%		
Dupont Nason 421-21		51.56%		
Dupont Nason 421-23		58.92%		
Dupont Nason 421-30		64.77%		
Dupont Nason 421-40		53.78%		

Content (lb/gal)	Density	Solids (particulate)	HAP <sub>tot</sub>	HAP <sub>max</sub>
BASF DP-20	12.62	8.46	2.46	1.26
BASF DP-21	12.75	8.93	1.44	0.66
BASF DP-25	11.58	6.83	1.46	0.72
BASF DP-26	11.56	6.82	1.46	0.72
BASF DP-27	11.41	6.73	1.44	0.71
BASF DP-31	10.95	7.23	1.45	0.73
BASF DP-200	14.04	9.55	0.70	0.70
BASF DP-210	16.76	14.58	0.00	0.00
BASF DP-226	13.73	9.20	0.71	0.69
BASF DP-238	16.04	12.67	1.60	1.60
BASF DP-321	12.86	6.51	0.00	0.00
BASF DP-8330	9.19	4.78	2.41	1.38
BASF DP-8335	9.19	4.78	2.41	1.38
Dupont Nason 42	9.52	4.67	0.74	0.38
Dupont Nason 42	10.28	5.82	0.82	0.82
Dupont Nason 42	9.94	5.37	0.99	0.89
Dupont Nason 42	9.94	5.26	0.55	0.20
Dupont Nason 42	11.88	7.41	3.43	2.49
Dupont Nason 42	13.83	9.27	1.22	0.97
Dupont Nason 42	12.08	7.69	2.54	2.54
Dupont Nason 42	11.62	7.16	0.00	0.00
Dupont Nason 42	12.32	6.35	0.00	0.00
Dupont Nason 42	11.15	6.57	3.20	1.78
Dupont Nason 42	10.91	7.07	0.15	0.11
Dupont Nason 42	10.24	5.51	3.07	2.87
<b>Maximum (lb/gal)</b>	<b>16.76</b>	<b>14.58</b>	<b>3.43</b>	<b>2.87</b>

Emission Rate (lb/hr)	1.7E-02	6.9E-01	5.7E-01
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IDAPA TAP EL (lb/hr)

Below EL?

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20





Coating Type: Base and Color

Content Weight %	Density	Solids (particulate)	HAP <sub>107</sub>	HAP <sub>600</sub>
BASF HD10				
BASF HD17				
BASF HD18				
BASF HD45				
BASF HD60				
BASF HD81				
BASF HD85				
BASF HD97				
BASF SC00				
BASF SC01				
BASF SC03				
BASF SC10				
BASF SC20				
BASF SC25				
BASF SC29				
BASF SC30				
BASF SC40				
BASF SC403				
BASF SC44				
BASF SC46				
BASF SC54				
BASF SC56				
BASF SC59				
BASF SC61				
BASF SC62				
BASF SC66				
BASF SC67				
BASF SC69				
BASF SC74				
BASF SC77				
BASF SC79				
BASF SC804				
BASF SC82				
BASF SC85				
BASF SC86				
BASF SC88				
BASF SC90				
BASF SC99				
Dupont Nason 422-23		33.61%		
Dupont Nason 422-28		72.31%		
Dupont Nason 422-33		76.92%		
Dupont Nason 422-46		64.87%		
Dupont Nason 422-48		61.17%		
Dupont ChromaBase@9K		32.29%		
Dupont ChromaBase@100990K		24.15%		
Dupont ChromaBase@101756K		25.12%		
Dupont ChromaBase@736620K		25.40%		
Dupont ChromaBase@738766K		29.55%		
Dupont ChromaBase@745101K		23.80%		
Dupont ChromaBase@747402K		26.41%		
Dupont ChromaBase@B8424K		40.45%		
Dupont ChromaBase@B8469K		40.44%		
Dupont ChromaBase@B8550K		38.60%		
Dupont ChromaBase@B8713K		27.13%		
Dupont ChromaBase@B8833K		40.57%		
Dupont ChromaBase@B9025K		25.74%		
Dupont ChromaBase@B9031K		25.37%		
Dupont ChromaBase@B9118K		51.86%		
Dupont ChromaBase@B9145K		40.48%		
Dupont ChromaBase@B9329K		30.05%		
Dupont ChromaBase@B9444K		40.63%		
Dupont ChromaBase@D8590K		28.17%		
Dupont ChromaBase@F7999K		25.81%		
Dupont ChromaBase@M5150K		26.45%		
Dupont ChromaBase@M8744K		26.49%		
Dupont ChromaBase@M8757K		31.90%		
Dupont ChromaBase@M8519K		25.69%		
Dupont ChromaBase@M9369K		26.69%		
Dupont ChromaBase@P0531K		25.16%		
Dupont ChromaBase@P0932K		25.90%		
Dupont ChromaBase@P0960K		24.55%		
Dupont ChromaBase@P2236K		22.66%		
Dupont ChromaBase@P4040K		23.93%		
Dupont ChromaBase@P4577K		24.84%		
Dupont ChromaBase@P4446K		25.52%		
Dupont ChromaBase@P4927K		24.18%		
Dupont ChromaBase@P6409K		26.71%		
Dupont ChromaBase@P6474K		29.75%		
Dupont ChromaBase@P6755K		25.11%		
Dupont ChromaBase@P6834K		27.36%		
Dupont ChromaBase@P7105K		27.49%		
Dupont ChromaBase@P7304K		24.11%		
Dupont ChromaBase@P7333K		24.66%		
Dupont ChromaBase@W8430K		40.67%		



Coating Type: Base and Color

Coating Material	Density	Solids (particulate)	HAP <sub>100</sub>	HAP <sub>2.5</sub>
BASF HD10	11.9	0.00	2.04	1.63
BASF HD17	11.9	0.00	0.92	0.74
BASF HD18	11.9	0.00	1.06	0.84
BASF HD45	11.9	0.00	0.00	0.00
BASF HD60	11.9	0.00	0.30	0.24
BASF HD81	11.9	0.00	0.42	0.33
BASF HD85	11.9	0.00	0.81	0.49
BASF HD97	11.9	0.00	0.57	0.45
BASF SC00	11.9	0.00	0.23	0.18
BASF SC01	11.9	0.00	0.79	0.63
BASF SC03	11.9	0.00	0.27	0.22
BASF SC10	11.9	0.00	0.49	0.48
BASF SC20	11.9	0.00	0.54	0.54
BASF SC25	11.9	0.00	0.50	0.32
BASF SC29	11.9	0.00	0.62	0.62
BASF SC30	11.9	0.00	0.25	0.24
BASF SC40	11.9	0.00	0.65	0.65
BASF SC403	11.9	0.00	0.54	0.25
BASF SC44	11.9	0.00	0.57	0.57
BASF SC46	11.9	0.00	0.92	0.90
BASF SC54	11.9	0.00	0.88	0.67
BASF SC56	11.9	0.00	0.60	0.58
BASF SC59	11.9	0.00	0.71	0.71
BASF SC61	11.9	0.00	0.48	0.48
BASF SC62	11.9	0.00	0.45	0.24
BASF SC66	11.9	0.00	0.33	0.32
BASF SC67	11.9	0.00	0.43	0.38
BASF SC69	11.9	0.00	0.42	0.42
BASF SC74	11.9	0.00	0.36	0.36
BASF SC77	11.9	0.00	0.39	0.39
BASF SC79	11.9	0.00	0.81	0.81
BASF SC804	11.9	0.00	1.52	0.87
BASF SC82	11.9	0.00	0.64	0.64
BASF SC85	11.9	0.00	0.13	0.13
BASF SC86	11.9	0.00	0.13	0.13
BASF SC88	11.9	0.00	0.60	0.60
BASF SC90	11.9	0.00	0.42	0.33
BASF SC99	11.9	0.00	0.31	0.31
Dupont Nason 422	8.24	2.77	0.56	0.25
Dupont Nason 422	10.57	7.64	1.23	0.95
Dupont Nason 422	11.47	8.62	1.95	1.38
Dupont Nason 422	10.30	6.68	0.91	0.41
Dupont Nason 422	10.82	6.62	2.72	1.95
Dupont ChromaBase®K		7.81	0.00	0.00
Dupont ChromaBase®10090K		7.68	0.00	0.00
Dupont ChromaBase®101756K		7.76	0.00	0.00
Dupont ChromaBase®173622K		7.76	0.00	0.00
Dupont ChromaBase®1738766K		7.82	0.00	0.00
Dupont ChromaBase®174510K		7.69	0.00	0.00
Dupont ChromaBase®1747402K		7.63	0.00	0.00
Dupont ChromaBase®18424K		9.17	0.00	0.00
Dupont ChromaBase®18496K		9.17	0.00	0.00
Dupont ChromaBase®18525K		9.00	0.00	0.00
Dupont ChromaBase®18713K		7.80	0.00	0.00
Dupont ChromaBase®18833K		9.18	0.00	0.00
Dupont ChromaBase®189025K		7.84	0.00	0.00
Dupont ChromaBase®19031K		7.79	0.00	0.00
Dupont ChromaBase®19118K		10.40	0.00	0.00
Dupont ChromaBase®19145K		9.17	0.00	0.00
Dupont ChromaBase®19329K		7.86	0.00	0.00
Dupont ChromaBase®19444K		9.18	0.00	0.00
Dupont ChromaBase®19590K		7.98	0.00	0.00
Dupont ChromaBase®1999K		7.81	0.00	0.00
Dupont ChromaBase®M5150K		7.75	0.00	0.00
Dupont ChromaBase®M6744K		7.71	0.00	0.00
Dupont ChromaBase®M6757K		8.00	0.00	0.00
Dupont ChromaBase®M6519K		7.86	0.00	0.00
Dupont ChromaBase®M6369K		7.75	0.00	0.00
Dupont ChromaBase®P0531K		7.72	0.00	0.00
Dupont ChromaBase®P0932K		7.80	0.00	0.00
Dupont ChromaBase®P0960K		7.69	0.00	0.00
Dupont ChromaBase®P2296K		7.65	0.00	0.00
Dupont ChromaBase®P4040K		7.67	0.00	0.00
Dupont ChromaBase®P4577K		7.66	0.00	0.00
Dupont ChromaBase®P4946K		7.69	0.00	0.00
Dupont ChromaBase®P4927K		7.68	0.00	0.00
Dupont ChromaBase®P4640K		7.68	0.00	0.00
Dupont ChromaBase®P647K		7.68	0.00	0.00
Dupont ChromaBase®P6755K		7.78	0.00	0.00
Dupont ChromaBase®P6534K		7.82	0.00	0.00
Dupont ChromaBase®P7105K		7.74	0.00	0.00
Dupont ChromaBase®P7304K		7.67	0.00	0.00
Dupont ChromaBase®P7333K		7.74	0.00	0.00
Dupont ChromaBase®W8430K		9.18	0.00	0.00
<b>Maximum (lb/gal)</b>	<b>11.90</b>	<b>10.40</b>	<b>2.72</b>	<b>1.95</b>

Emission Rate (lb/hr) 1.2E-02 5.4E-01 3.9E-01

IDAPA TAP EL (lb/hr)

Below EL?

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20



Coating Type: Tints, Toners, and Binders

Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>	Aromatic Hydrocarbon	Barium Sulfate	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethylene Glycol Monobutyl Ether	Heptane	Naphthalene (HAP)	Stoddard Solvent Mineral Solids	Toluene (HAP)	Trimethyl Benzene	VMA&P Naphtha	Xylene (HAP)
430-01	44.25%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	6.60%	0.60%	1.00%	1.00%	1.00%	0.40%	4.00%	4.00%	1.00%	2.00%	
430-02	40.95%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.30%	0.60%	1.00%	1.00%	1.00%	0.50%	5.00%	5.00%	1.00%	2.00%	
430-03	74.89%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.70%	0.60%	1.00%	1.00%	1.00%	0.40%	2.00%	2.00%	1%	2.00%	
430-04	60.77%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.40%	3.00%	3.00%	1%	2.00%	
430-05	48.84%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.40%	4.00%	4.00%	1%	12.00%	
430-06	44.34%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.20%	1.00%	1.00%	1%	4.00%	
430-07	51.19%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.40%	5.00%	5.00%	1%	5.00%	
430-08	49.09%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.40%	2.00%	2.00%	1%	18.00%	
430-09	51.31%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.40%	2.00%	2.00%	1%	2.00%	
430-10	49.80%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	0.40%	2.00%	2.00%	1%	2.00%	
430-11	43.37%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.30%	4.00%	4.00%	1%	2.00%	
430-12	52.71%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.40%	5.00%	5.00%	1%	2.00%	
430-13	46.66%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.50%	5.00%	5.00%	1%	2.00%	
430-14	40.53%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.40%	4.00%	4.00%	1%	2.00%	
430-15	42.39%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.40%	5.00%	5.00%	1%	2.00%	
430-16	48.65%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.70%	0.70%	1.00%	1.00%	1.00%	0.30%	4.00%	4.00%	1%	2.00%	
430-17	50.93%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.40%	3.00%	3.00%	1%	2.00%	
430-18	53.26%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.40%	2.00%	2.00%	1%	2.00%	
430-19	54.70%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	0.30%	2.00%	2.00%	1%	2.00%	
430-20	51.70%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.60%	2.00%	2.00%	1%	2.00%	
430-21	49.90%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	0.40%	2.00%	2.00%	1%	2.00%	
Dupont Nason 430-22	51.24%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.30%	2.00%	2.00%	1%	2.00%	
Dupont Nason 430-23	50.23%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.40%	0.40%	1.00%	1.00%	1.00%	0.40%	4.00%	4.00%	1%	2.00%	
Dupont Nason 430-24	51.17%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	0.20%	2.00%	2.00%	1%	2.00%	
Dupont Nason 430-25	48.38%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.40%	2.00%	2.00%	1%	2.00%	
Dupont Nason 430-26	56.66%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	0.40%	2.00%	2.00%	1%	2.00%	
Dupont Nason 430-27	53.83%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	0.40%	2.00%	2.00%	1%	2.00%	
Dupont Nason 430-28	53.31%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	2.00%	2.00%	1.00%	0.40%	5.00%	5.00%	1%	2.00%	
Dupont Nason 430-29	53.11%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	0.20%	0.20%	1.00%	0.20%	5.00%	5.00%	1%	2.00%	
Dupont Nason 430-30	43.95%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	1.00%	4.00%	4.00%	1%	2.00%	
Dupont Nason 430-31	44.96%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	1.00%	4.00%	4.00%	1%	2.00%	
Dupont Nason 430-32	45.72%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.40%	0.40%	1.00%	1.00%	1.00%	1.00%	3.00%	3.00%	1%	2.00%	
Dupont Nason 430-33	46.88%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	1.00%	4.00%	4.00%	1%	2.00%	
Dupont Nason 430-34	45.57%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.40%	0.40%	1.00%	1.00%	1.00%	1.00%	4.00%	4.00%	1.00%	4.00%	
Dupont Nason 430-35	47.16%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.40%	4.00%	4.00%	1%	4.00%	
Dupont Nason 430-36	52.81%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.40%	2.00%	2.00%	1%	2.00%	
Dupont Nason 430-37	46.95%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.30%	4.00%	4.00%	1%	2.00%	
Dupont Nason 430-38	45.07%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	0.40%	2.00%	2.00%	1%	2.00%	
Dupont Nason 430-39	41.25%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.20%	1.00%	1.00%	1%	2.00%	
Dupont Nason 430-40	40.98%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.40%	0.40%	1.00%	1.00%	1.00%	0.20%	7.00%	7.00%	1%	2.00%	
Dupont Nason 430-41	47.84%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	0.20%	2.00%	2.00%	1%	2.00%	
Dupont Nason 430-42	50.12%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	0.40%	2.00%	2.00%	1%	2.00%	
Dupont Nason 430-43	42.85%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	0.40%	2.00%	2.00%	1%	2.00%	
Dupont Nason 430-44	45.36%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	0.40%	3.00%	3.00%	1%	2.00%	
Dupont Nason 430-45	46.84%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.30%	0.30%	1.00%	1.00%	1.00%	0.40%	3.00%	3.00%	1%	1.00%	
Dupont Nason 430-46	48.85%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.30%	1.30%	1.00%	1.00%	1.00%	0.40%	3.00%	3.00%	1%	5.00%	
Dupont Nason 430-47	48.62%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.40%	0.40%	1.00%	1.00%	1.00%	0.30%	7.00%	7.00%	1%	2.00%	
Dupont Nason 430-48	45.30%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	4.00%	4.00%	1%	4.00%	
Dupont Nason 430-49	44.68%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	1.00%	3.00%	3.00%	1%	2.00%	
Dupont Nason 430-50	56.01%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	2.00%	2.00%	1.00%	0.20%	1.00%	6.00%	6.00%	1%	2.00%
Dupont Nason 430-51	51.59%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.40%	0.40%	1.00%	1.00%	1.00%	0.30%	1.00%	8.00%	8.00%	1%	2.00%
Dupont Nason 430-52	34.84%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.80%	0.80%	1.00%	1.00%	1.00%	0.780%	1.00%	1.00%	1%	28.00%	
Dupont Nason 430-53	55.78%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.80%	0.80%	1.00%	1.00%	1.00%	0.80%	1.00%	1.00%	1%	3.00%	
Dupont Nason 430-54	54.11%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	2.00%	2.00%	1.00%	0.20%	1.00%	3.00%	3.00%	1%	2.00%
Dupont Nason 430-55	47.70%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.40%	2.00%	2.00%	1%	3.00%	
Dupont Nason 430-56	52.74%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	0.60%	0.60%	1.00%	1.00%	1.00%	0.30%	1.00%	3.00%	3.00%	1%	2.00%

Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>	Aromatic Hydrocarbon	Barium Sulfate	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethylene Glycol Monobutyl Ether	Heptane	Naphthalene (HAP)	Stoddard Solvent Mineral Solids	Toluene (HAP)	Trimethyl Benzene	VMA&P Naphtha	Xylene (HAP)
430-01	8.14	3.60	0.57	0.33	0.00	0.00	0.08	0.54	0.05	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.16
430-02	7.94	3.25	0.64	0.40	0.08	0.00	0.08	0.10	0.04	0.00	0.00	0.08	0.04	0.00	0.40	0.00	0.00	0.16
430-03	9.98	0.36	0.27	0.08	0.00	0.00	0.00	0.13	0.03	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.16
430-04	10.47	6.36	0.48	0.21	0.00	0.00	0.10	0.00	0.06	0.00	0.00	0.10	0.00	0.00	0.21	0.00	0.10	0.21
430-05	8.85	4.30	2.87	1.88	0.09	0.00	0.09	0.00	0.51	0.00	0.00	0.09	0.04	0.00	0.27	0.00	0.09	1.88
430-06	9.35	1.64	1.00	0.30	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.08	0.00	1.64	0.00	0.00	1.64
430-07	8.10	4.66	0.48	0.36	0.09	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.36
430-08	8.81	4.32	1.04	0.44	0.09	0.00	0.08	0.00	0.12	0.00	0.00	0.09	0.04	0.00	0.44	0.00	0.09	0.44
430-09	9.20	2.11	1.68	0.90	0.00	0.00	0.00	0.90	0.45	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	1.68
430-10	8.43	4.20	0.41	0.17	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.17	0.00	0.08	0.17
430-11	8.19	0.55	0.40	0.16	0.08	0.00	0.00	0.08	0.04	0.00	0.00	0.00	0.04	0.00	0.16	0.00	0.08	0.16
430-12	8.50	4.48	0.25	0.17	0.09	0.00	0.09	0.00	0.05	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.09	0.17
430-13	8.30	3.86	0.57	0.33	0.08	0.00	0.											

**Coating Type: Reducer**

Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>	Butyl Acetate	Stoddard Solvent Mineral Spirits	Trimethyl Benzene	VM&P Naphtha
BASF UR50		0%			65.00%	15.00%	2.00%	5.00%

Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>	Butyl Acetate	Stoddard Solvent Mineral Spirits	Trimethyl Benzene	VM&P Naphtha
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BASF UR50	7.28	0.00	0.00	0.00	4.73	1.09	0.15	0.36
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<b>Maximum (lb/gal)</b>	<b>7.28</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>4.73</b>	<b>1.09</b>	<b>0.15</b>	<b>0.36</b>
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Emission Rate (lb/hr)		0.0E+00	0.0E+00	0.0E+00	9.5E-01	2.2E-01	2.9E-02	7.3E-02
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IDAPA TAP EL (lb/hr)					4.73E+01	3.50E+01	8.20E+00	9.13E+01
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Below EL?					Yes	Yes	Yes	Yes
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Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating Type: Activators, Reducers, Solvents, and Additives

Content Weight %																									
Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>	Acetone	Aromatic Hydrocarbon	Butyl Acetate	n-Butyl Alcohol	Cyclohexane	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Alcohol	Ethylene Glycol Monoethyl Ether	Heptane	n-Hexane (HAP)	Isopropyl Alcohol (IPA)	Methyl n-Amyl Ketone	Methyl Ethyl Ketone (MEK/HAP)	Naphthalene (HAP)	Phosphoric Acid Salt	Stoddard Solvent Mineral Spirits	Toluene (HAP)	Trimethyl Benzene	VMAP Naphtha	Xylene (HAP)
Dupont Nason 441-00		0.00%				1.00%				1.00%												13.00%			
Dupont Nason 441-01		0.00%				2.00%				0.20%			2.00%	1.00%	1.00%	1.00%					13.00%				
Dupont Nason 441-02		0.00%				1.00%			1.00%												1.00%	12.00%	1.00%		
Dupont Nason 441-05		0.00%				1.00%															1.00%	15.00%		1%	
Dupont Nason 441-20		0.00%			1.00%					0.40%	1.00%		1.00%	1.00%	1.00%	1.00%					1.00%	22.00%	0.20%		2.00%
Dupont Nason 441-21		0.00%			1.00%					1.30%	1.00%		1.00%	1.00%	1.00%	1.00%					1.00%	16.00%			5.00%
Dupont Nason 441-22		0.00%			1.00%					1.00%	1.00%		8.00%	1.00%	1.00%						1.00%	15.00%	2.00%		5.00%
Dupont Nason 441-29		0.00%			1.00%					1.30%	1.00%		12.00%	1.00%	1.00%						1.00%	9.00%		1.00%	5.00%
Dupont Nason 441-43		2.22%						80.00%																	
Dupont Nason 441-49		0.00%			1.00%						1.00%		20.00%								1.00%				
Dupont Nason 441-49		0.00%			1.00%															1.00%					
Dupont Nason 441-62		0.00%			1.00%			1.00%																	
Dupont Nason 441-66		0.00%			1.00%																				
Dupont Nason 441-72		0.00%			1.00%				1.00%																

Content (lb/gal)																									
Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>	Acetone	Aromatic Hydrocarbon	Butyl Acetate	n-Butyl Alcohol	Cyclohexane	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Alcohol	Ethylene Glycol Monoethyl Ether	Heptane	n-Hexane (HAP)	Isopropyl Alcohol (IPA)	Methyl n-Amyl Ketone	Methyl Ethyl Ketone (MEK/HAP)	Naphthalene (HAP)	Phosphoric Acid Salt	Stoddard Solvent Mineral Spirits	Toluene (HAP)	Trimethyl Benzene	VMAP Naphtha	Xylene (HAP)
Dupont Nason 44	6.42	0.00	1.00	0.83	0.00	0.06	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.06	0.06	0.06	0.00	0.00	0.04	0.00	0.06	0.83	0.00	0.00	0.00
Dupont Nason 44	6.68	0.00	3.49	2.67	0.00	0.13	0.00	0.00	0.00	0.13	0.00	0.00	0.13	0.00	0.00	0.07	0.00	0.00	2.67	0.00	0.07	0.80	0.07	0.00	0.00
Dupont Nason 44	6.28	0.00	1.10	0.94	0.00	0.06	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.06	0.13	0.06	0.00	0.00	0.03	0.00	0.06	0.94	0.00	0.06	0.00
Dupont Nason 44	6.49	0.00	0.49	0.45	0.00	0.06	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.06	0.45	0.01	0.00	0.00
Dupont Nason 44	6.63	0.00	1.70	1.46	0.07	0.00	0.00	0.00	0.00	0.04	0.07	0.00	0.00	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	1.46	0.00	0.00	0.13
Dupont Nason 44	6.71	0.00	1.56	1.07	0.07	0.00	0.07	0.00	0.00	0.09	0.07	0.00	0.00	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.34
Dupont Nason 44	6.91	0.00	1.11	1.94	0.07	0.07	0.07	0.00	0.00	0.05	0.07	0.00	0.00	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.14	0.00	0.00
Dupont Nason 44	7.40	0.00	1.21	0.67	0.00	0.00	0.07	0.00	0.00	0.10	0.07	0.00	0.89	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.67	0.00	0.07	0.00	0.37
Dupont Nason 44	6.96	0.15	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Nason 44	7.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Nason 44	6.61	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Nason 44	6.67	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Nason 44	8.75	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Nason 44	6.44	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Maximum (lb/gal)	8.75	0.15	3.49	2.67	0.09	0.13	0.07	5.49	0.06	0.10	0.08	0.07	1.59	0.07	0.13	0.07	0.07	0.07	2.67	0.07	0.07	1.46	0.14	0.07	0.37
Emission Rate (lb/hr)		1.8E-04	7.0E-01	5.3E-01	1.8E-02	2.7E-02	1.5E-02	1.1E+00	1.3E-02	1.9E-02	1.6E-02	1.4E-02	3.2E-01	1.4E-02	2.5E-02	1.3E-02	1.3E-02	1.5E-02	5.3E-01	4.8E-03	1.3E-02	2.9E-01	2.8E-02	1.5E-02	7.4E-02
IDAPA TAP EL (lb/hr)					1.19E+02		4.73E+01	1.00E+01	7.00E+01	2.9E+01		1.25E+02		1.09E+02	1.20E+01	6.53E+01	1.57E+01	3.93E+01	3.33E+00	6.70E-02	3.50E+01	2.5E+01	8.20E+00	9.13E+01	2.9E+01
Below EL?					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	60.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating Type: Activators, Reducers, Solvents, and Additives

Content Weight %				
Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>
Dupont Nason 441-00		0.00%		
Dupont Nason 441-01		0.00%		
Dupont Nason 441-02		0.00%		
Dupont Nason 441-05		0.00%		
Dupont Nason 441-20		0.00%		
Dupont Nason 441-21		0.00%		
Dupont Nason 441-22		0.00%		
Dupont Nason 441-29		0.00%		
Dupont Nason 441-43		2.23%		
Dupont Nason 441-49		0.00%		
Dupont Nason 441-49		0.00%		
Dupont Nason 441-62		0.00%		
Dupont Nason 441-66		0.00%		
Dupont Nason 441-72		0.00%		

Content Weight %				
Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>
Dupont Nason 44	6.42	0.00	1.00	0.83
Dupont Nason 44	6.68	0.00	3.49	2.67
Dupont Nason 44	6.28	0.00	1.10	0.94
Dupont Nason 44	6.49	0.00	0.49	0.45
Dupont Nason 44	6.63	0.00	1.70	1.46
Dupont Nason 44	6.71	0.00	1.56	1.07
Dupont Nason 44	6.91	0.00	1.11	1.94
Dupont Nason 44	7.40	0.00	1.21	0.67
Dupont Nason 44	6.96	0.15	0.00	0.00
Dupont Nason 44	7.97	0.00	0.00	0.00
Dupont Nason 44	6.61	0.00	0.00	0.00
Dupont Nason 44	6.67	0.00	0.00	0.00
Dupont Nason 44	8.75	0.00	0.00	0.00
Dupont Nason 44	6.44	0.00	0.00	0.00
<b>Maximum (lb/gal)</b>	<b>8.75</b>	<b>0.15</b>	<b>3.49</b>	<b>2.67</b>

Emission Rate (lb/hr)	1.8E-04	7.0E-01	5.3E-01
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IDAPA TAP EL (lb/hr)

Below EL?

Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	60.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

**Coating Type: Hardener**

Content Weight %																	
Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>	Aromatic Hydrocarbon	Butyl Acetate	Carbon Black (particulate)	Diisobutyl Ketone	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Acetate	Hexamethylene Diisocyanate (HDI)(HAP)	Isophorone Diisocyanate	Methyl Acetate	Methyl n-Amyl Ketone	Toluene (HAP)	Trimethyl Benzene
BASF DH-16	8.5	56%			1.00%	25.00%	0.60%			1.00%		0.45%	0.20%				3%
BASF DH-18	8.5	56%				20.00%						0.45%	0.20%				
BASF DH-42	8.87	72%				20.00%						0.75%				13.50%	
BASF DH-55	8.16	38%				20.00%		5.00%			15.00%	0.40%	0.10%	20.00%	5.00%	10.00%	
BASF DH-57	8.25	38%				15.00%		5.00%	0.10%			0.40%	0.10%	20.00%			6.30%
BASF DH-59	8.3	38%				5.00%		5.00%				0.40%	0.10%	20.00%			10.00%
BASF DH-62	8.44	55%				35.00%			0.20%			0.60%				13.40%	

Content lb/gal																	
Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>	Aromatic Hydrocarbon	Butyl Acetate	Carbon Black (particulate)	Diisobutyl Ketone	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Acetate	Hexamethylene Diisocyanate (HDI)(HAP)	Isophorone Diisocyanate	Methyl Acetate	Methyl n-Amyl Ketone	Toluene (HAP)	Trimethyl Benzene
BASF DH-16	8.5	4.76	0.04	0.04	0.09	2.13	0.05	0.00	0.00	0.09	0.00	0.04	0.02	0.00	0.00	0.00	0.21
BASF DH-18	8.5	4.76	0.04	0.04	0.00	1.70	0.00	0.00	0.00	0.00	0.00	0.04	0.02	0.00	0.00	0.00	0.00
BASF DH-42	8.87	6.39	1.26	1.20	0.00	1.77	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	1.20	0.00
BASF DH-55	8.16	3.10	0.85	0.82	0.00	1.63	0.00	0.41	0.00	0.00	1.22	0.03	0.01	1.63	0.41	0.82	0.00
BASF DH-57	8.25	3.14	0.04	0.03	0.00	1.24	0.00	0.41	0.01	0.00	0.00	0.03	0.01	1.65	0.00	0.00	0.52
BASF DH-59	8.3	3.15	0.03	0.03	0.00	0.42	0.00	0.42	0.00	0.00	0.00	0.03	0.01	1.66	0.00	0.00	0.83
BASF DH-62	8.44	4.64	1.20	1.13	0.00	2.95	0.00	0.00	0.02	0.00	0.00	0.05	0.00	0.00	0.00	1.13	0.00

<b>Maximum (lb/gal)</b>	<b>8.87</b>	<b>6.39</b>	<b>1.26</b>	<b>1.20</b>	<b>0.09</b>	<b>2.95</b>	<b>0.05</b>	<b>0.42</b>	<b>0.02</b>	<b>0.09</b>	<b>1.22</b>	<b>0.07</b>	<b>0.02</b>	<b>1.66</b>	<b>0.41</b>	<b>1.20</b>	<b>0.83</b>
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Emission Rate (lb/hr)		7.5E-03	2.5E-01	2.4E-01	1.7E-02	5.9E-01	7.1E-05	8.3E-02	3.4E-03	1.7E-02	2.4E-01	2.0E-03	5.1E-04	3.3E-01	8.2E-02	2.4E-01	1.7E-01
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IDAPA TAP EL (lb/hr)						4.73E+01	2.3E-01	9.67E+00	2.9E+01		9.33E+01	2.0E-03	6.0E-03	4.07E+01	1.57E+01	2.5E+01	8.20E+00
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Below EL?						Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes
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Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
85.00%	1,460.0	1.20

Coating Type: Urethanes

Coating Material	Density	Solids (particulate)	HAP <sub>tot</sub>	HAP <sub>acc</sub>	Acetone	Aluminum - Metal & Oxide	Antimony & Compounds (particulate)	Aromatic Hydrocarbon	Barium (Sulfate) (particulate)	Butyl Acetate	n-Butyl Alcohol	Carbon Black (particulate)	Chromium III (particulate) (HAP)	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Acetate	Ethylene Glycol Monoethyl Ether	Hexamethylene Diisocyanate (HDI/MDI)	Kaolin (particulate)	Methyl n-Butyl Ketone	Methyl Ethyl Ketone (MEK/MAK)	Propylene Glycol Monomethyl Ether-Acetate	Silica Amorphous (particulate)	Silica Crystalline Quartz (inhalable)	Stoddard Solvent Mineral Solids	Toluene (HAP)	Timethyle Benzene	VMP/Naphtha	Xylene (HAP)				
Dipont Clearcoat 5000 369B		25.01%						1.00%		1.00%																							
Dipont Clearcoat 5000 389B		1.00%																															
Dipont Clearcoat 5000 501H		52.26%										0.60%		0.20%							1.00%												
Dipont Clearcoat 5000 502H		71.79%																															
Dipont Clearcoat 5000 503H		77.54%																															
Dipont Clearcoat 5000 504H		49.89%																															
Dipont Clearcoat 5000 505H		48.82%										4.10%															2.00%		2.00%				
Dipont Clearcoat 5000 506H		44.39%																															
Dipont Clearcoat 5000 507H		48.62%																									1.00%		1.00%				
Dipont Clearcoat 5000 508H		52.24%																															
Dipont Clearcoat 5000 510H		76.30%																									1.00%		1.00%				
Dipont Clearcoat 5000 512H		75.76%																															
Dipont Clearcoat 5000 513H		42.29%				1.50%			1.00%																								
Dipont Clearcoat 5000 514H		47.13%							1.00%																								
Dipont Clearcoat 5000 515H		66.39%																									2.00%						
Dipont Clearcoat 5000 516H		77.59%																															
Dipont Clearcoat 5000 518H		52.24%																															
Dipont Clearcoat 5000 519H		48.50%													0.40%															3.00%			1.00%
Dipont Clearcoat 5000 520H		51.40%																															
Dipont Clearcoat 5000 525H		62.70%																															
Dipont Clearcoat 5000 527H		44.00%																															
Dipont Clearcoat 5000 528H		48.94%																															
Dipont Clearcoat 5000 529H		51.47%																															
Dipont Clearcoat 5000 538H		72.17%					9.00%																										
Dipont Clearcoat 5000 542H		48.81%																															
Dipont Clearcoat 5000 545H		54.32%																															
Dipont Clearcoat 5000 551H		52.75%																															
Dipont Clearcoat 5000 569H		59.60%																															
Dipont Clearcoat 5000 577H		54.39%																															
Dipont Clearcoat 5000 590H		49.62%																															
Dipont Clearcoat 5000 773A		75.25%																															
Dipont Clearcoat 5000 774A		68.54%																															
Dipont Clearcoat 5000 775A		83.59%																															
Dipont Clearcoat 5000 785S		80.00%																															
Dipont Clearcoat 5000 795S		80.76%																															
Dipont Clearcoat 5000 8685S		0.00%																															
Dipont Clearcoat 5000 8785S		0.00%																															
Dipont Clearcoat 5000 8909S		86.00%																															
Dipont Clearcoat 5000 8920S		93.67%																															
Dipont Clearcoat 5000 8925S		71.90%																															
Dipont Clearcoat 5000 8930S		0.00%																															
Dipont Clearcoat 5000 8985S		6.00%																															
Dipont Clearcoat 5000 VGF70950		59.98%																															
Dipont Imilon 5200 Clear		31.40%																															
Dipont Imilon 520U		47.70%																															
Dipont Imilon 521U		49.43%																															
Dipont Imilon 522U		51.00%																															
Dipont Imilon 523U		46.94%																															
Dipont Imilon 524U		35.10%																															
Dipont Imilon 525U		57.19%																															
Dipont Imilon 533U		38.89%																															
Dipont Imilon 534U		42.89%																															
Dipont Imilon 535U		37.08%																															
Dipont Imilon 536U		42.26%																															
Dipont Imilon 537U		49.16%																															
Dipont Imilon 538U		42.81%																															
Dipont Imilon 541U		42.62%																															
Dipont Imilon 542U		42.90%																															
Dipont Imilon 543U		42.47%																															
Dipont Imilon 544U		41.77%																															
Dipont Imilon 547U		57.16%																															
Dipont Imilon 548U		48.81%																															
Dipont Imilon 550U		37.06%																															
Dipont Imilon 553U		37.91%																															
Dipont Imilon 554U		52.60%																															
Dipont Imilon 555U		54.20%																															
Dipont Imilon 556U		47.64%																															
Dipont Imilon 557U		38.14%																															
Dipont Imilon 558U		38.48%																															
Dipont Imilon 559U		38.01%																															
Dipont Imilon 560U		40.32%																															
Dipont Imilon 561U		38.62%																															
Dipont Imilon 562U		38.00%																															
Dipont Imilon 564U		36.69%																															
Dipont Imilon 565U		36.42%																															





Coating Type: Urethanes

Coating Material	Density	Solids (particulate)	HAP <sub>50%</sub>	HAP <sub>100%</sub>
Dipont Clearcoat 5000 368S		25.01%		
Dipont Clearcoat 5000 389S		1.00%		
Dipont Clearcoat 5000 501H		52.26%		
Dipont Clearcoat 5000 502H		71.79%		
Dipont Clearcoat 5000 503H		77.54%		
Dipont Clearcoat 5000 504H		49.85%		
Dipont Clearcoat 5000 505H		48.82%		
Dipont Clearcoat 5000 506H		44.39%		
Dipont Clearcoat 5000 507H		48.82%		
Dipont Clearcoat 5000 508H		52.24%		
Dipont Clearcoat 5000 510H		76.30%		
Dipont Clearcoat 5000 512H		75.76%		
Dipont Clearcoat 5000 513H		42.20%		
Dipont Clearcoat 5000 514H		47.13%		
Dipont Clearcoat 5000 515H		66.39%		
Dipont Clearcoat 5000 516H		77.59%		
Dipont Clearcoat 5000 518H		52.20%		
Dipont Clearcoat 5000 519H		48.50%		
Dipont Clearcoat 5000 520H		51.00%		
Dipont Clearcoat 5000 525H		52.70%		
Dipont Clearcoat 5000 527H		44.00%		
Dipont Clearcoat 5000 528H		48.94%		
Dipont Clearcoat 5000 529H		51.47%		
Dipont Clearcoat 5000 538H		72.17%		
Dipont Clearcoat 5000 542H		48.81%		
Dipont Clearcoat 5000 545H		54.32%		
Dipont Clearcoat 5000 551H		52.75%		
Dipont Clearcoat 5000 569H		59.60%		
Dipont Clearcoat 5000 577H		54.39%		
Dipont Clearcoat 5000 590H		49.82%		
Dipont Clearcoat 5000 773A		75.25%		
Dipont Clearcoat 5000 774A		68.54%		
Dipont Clearcoat 5000 775A		85.59%		
Dipont Clearcoat 5000 785S		80.00%		
Dipont Clearcoat 5000 795S		80.76%		
Dipont Clearcoat 5000 888S		0.00%		
Dipont Clearcoat 5000 878S		0.00%		
Dipont Clearcoat 5000 890S		86.00%		
Dipont Clearcoat 5000 892S		93.67%		
Dipont Clearcoat 5000 892S		71.50%		
Dipont Clearcoat 5000 893S		0.00%		
Dipont Clearcoat 5000 898S		5.00%		
Dipont Clearcoat 5000 VGF70050		59.89%		
Dipont Imilon 500S Silver		31.60%		
Dipont Imilon 520U		47.70%		
Dipont Imilon 521U		49.47%		
Dipont Imilon 522U		51.06%		
Dipont Imilon 523U		46.94%		
Dipont Imilon 531U		35.15%		
Dipont Imilon 532U		57.19%		
Dipont Imilon 533U		38.86%		
Dipont Imilon 534U		42.89%		
Dipont Imilon 535U		37.68%		
Dipont Imilon 536U		42.28%		
Dipont Imilon 537U		49.16%		
Dipont Imilon 538U		42.81%		
Dipont Imilon 540U		42.82%		
Dipont Imilon 541U		42.80%		
Dipont Imilon 543U		42.47%		
Dipont Imilon 544U		41.77%		
Dipont Imilon 547U		57.16%		
Dipont Imilon 548U		48.84%		
Dipont Imilon 550U		37.06%		
Dipont Imilon 553U		37.91%		
Dipont Imilon 554U		52.80%		
Dipont Imilon 555U		54.20%		
Dipont Imilon 556U		47.54%		
Dipont Imilon 557U		38.14%		
Dipont Imilon 558U		38.48%		
Dipont Imilon 559U		38.01%		
Dipont Imilon 560U		40.32%		
Dipont Imilon 561U		38.62%		
Dipont Imilon 562U		38.07%		
Dipont Imilon 564U		39.69%		
Dipont Imilon 565U		36.42%		
Dipont Imilon 567U		35.81%		
Dipont Imilon 568U		37.82%		
Dipont Imilon 570U		55.47%		
Dipont Imilon 571U		35.09%		
Dipont Imilon 572U		35.44%		

Coating Type: Urethanes

Coating Material	Density	Solids (particulate)	HAP <sub>min</sub>	HAP <sub>max</sub>
Dupont Ceramyl 52	7.67	1.02	0.15	0.15
Dupont Ceramyl 52	8.14	0.09	0.00	0.00
Dupont Ceramyl 52	8.22	4.30	0.02	0.02
Dupont Ceramyl 52	14.20	10.19	0.00	0.00
Dupont Ceramyl 52	16.71	12.98	0.05	0.05
Dupont Ceramyl 52	8.55	4.27	0.02	0.02
Dupont Ceramyl 52	8.24	4.02	0.28	0.18
Dupont Ceramyl 52	8.20	3.64	0.00	0.00
Dupont Ceramyl 52	8.58	4.17	0.09	0.09
Dupont Ceramyl 52	8.16	4.88	0.00	0.00
Dupont Ceramyl 52	15.80	11.74	0.23	0.23
Dupont Ceramyl 52	15.82	12.07	0.00	0.00
Dupont Ceramyl 52	8.65	3.68	0.17	0.17
Dupont Ceramyl 52	8.46	3.99	0.00	0.00
Dupont Ceramyl 52	12.47	8.28	0.25	0.25
Dupont Ceramyl 52	14.96	11.61	0.00	0.00
Dupont Ceramyl 52	8.41	4.45	0.12	0.08
Dupont Ceramyl 52	8.27	4.02	0.00	0.00
Dupont Ceramyl 52	9.32	4.78	0.00	0.00
Dupont Ceramyl 52	8.55	5.03	0.00	0.00
Dupont Ceramyl 52	8.81	3.88	0.26	0.26
Dupont Ceramyl 52	9.17	4.49	0.00	0.00
Dupont Ceramyl 52	9.43	4.85	0.00	0.00
Dupont Ceramyl 52	14.80	10.88	1.48	1.33
Dupont Ceramyl 52	8.30	4.05	0.00	0.00
Dupont Ceramyl 52	9.32	5.06	0.00	0.00
Dupont Ceramyl 52	8.57	5.05	0.02	0.02
Dupont Ceramyl 52	9.68	5.77	0.01	0.01
Dupont Ceramyl 52	8.09	2.78	0.09	0.08
Dupont Ceramyl 52	9.18	4.56	0.00	0.00
Dupont Ceramyl 52	8.93	6.72	0.21	0.18
Dupont Ceramyl 52	8.77	6.10	0.21	0.18
Dupont Ceramyl 52	8.65	8.48	0.02	0.02
Dupont Ceramyl 52	9.24	8.32	0.02	0.02
Dupont Ceramyl 52	8.58	5.89	0.01	0.01
Dupont Ceramyl 52	7.55	0.00	0.08	0.08
Dupont Ceramyl 52	8.75	0.00	0.07	0.07
Dupont Ceramyl 52	9.44	8.97	0.11	0.09
Dupont Ceramyl 52	8.57	8.03	0.02	0.02
Dupont Ceramyl 52	11.89	9.59	0.33	0.14
Dupont Ceramyl 52	6.57	0.00	0.07	0.07
Dupont Ceramyl 52	8.16	0.41	0.00	0.00
Dupont Ceramyl 52	8.26	4.87	0.00	0.00
Dupont Imron 602	8.25	2.61	0.26	0.25
Dupont Imron 620	8.64	4.13	0.44	0.35
Dupont Imron 621	8.74	4.32	0.45	0.35
Dupont Imron 622	9.32	4.76	0.00	0.00
Dupont Imron 623	8.62	4.05	0.44	0.34
Dupont Imron 631	8.38	2.94	0.27	0.25
Dupont Imron 632	11.18	6.30	0.91	0.66
Dupont Imron 633	8.60	3.34	0.36	0.34
Dupont Imron 634	8.69	3.70	0.97	0.86
Dupont Imron 635	8.32	3.09	0.57	0.25
Dupont Imron 636	9.29	4.02	0.30	0.28
Dupont Imron 637	10.06	4.95	1.91	0.91
Dupont Imron 638	8.77	3.75	0.37	0.35
Dupont Imron 640	8.71	3.71	0.37	0.35
Dupont Imron 641	8.93	3.89	0.47	0.36
Dupont Imron 643	8.84	3.75	0.37	0.35
Dupont Imron 644	8.60	3.59	0.62	0.60
Dupont Imron 647	11.50	6.58	0.35	0.23
Dupont Imron 648	10.32	5.12	0.23	0.21
Dupont Imron 650	8.28	3.07	0.25	0.25
Dupont Imron 653	8.54	3.24	0.27	0.26
Dupont Imron 654	10.62	5.52	0.32	0.31
Dupont Imron 655	10.89	5.73	0.33	0.32
Dupont Imron 656	9.77	4.64	0.31	0.29
Dupont Imron 657	8.56	3.26	0.38	0.26
Dupont Imron 658	8.46	3.09	0.27	0.25
Dupont Imron 659	8.50	3.23	0.47	0.26
Dupont Imron 662	9.63	4.46	0.31	0.29
Dupont Imron 661	8.59	3.31	0.58	0.26
Dupont Imron 663	8.44	3.21	0.70	0.42
Dupont Imron 664	8.66	3.43	0.28	0.26
Dupont Imron 665	8.54	3.11	0.27	0.26
Dupont Imron 667	8.39	3.00	0.27	0.25
Dupont Imron 668	8.41	3.25	0.28	0.26
Dupont Imron 670	8.18	4.54	0.26	0.25
Dupont Imron 671	8.14	2.85	0.25	0.24
Dupont Imron 672	8.16	2.89	0.41	0.41
<b>Maximum (RPP)</b>	<b>16.71</b>	<b>12.96</b>	<b>1.91</b>	<b>1.33</b>
<b>Emission Rate (B/hr)</b>		<b>1.5E-02</b>	<b>3.8E-01</b>	<b>2.7E-01</b>

IDAPA TAP EL (B/hr)

Below EL7

Daily Use Rates (gal/Day)	Averaging Period (hr)	Transfer Efficiency (%)	Fiber Content Efficiency (%)
4.00	24	65.00%	98.00%

Isocyanate Reaction Factor (ppm)	Annual Usage Rate (gal/yr)	Safety Factor (ppm)
85.00%	1,460.0	1.20

Coating Type: Rubberized Undercoating

Content Weight %																			
Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>	Acetone	Calcium Carbonate (particulate)	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl Alcohol	Heptane	n-Hexane (HAP)	Kaolin (particulate)	Methanol (HAP)	Silica Crystalline Quartz (particulate)	Stoddard Solvent Mineral Solvents	Toluene (HAP)	VM&P Naphtha	Xylene (HAP)	
Dupont 492-01						1.00%	0.70%				13.00%	1.00%		0.10%	1.00%	18.00%	1.00%		
Dupont 492-51						1.00%			5.00%		30.00%				5.00%	13.00%			
3M Body Schutz						12.00%		0.50%				19.00%	2.00%		10.00%	0.00%		3.00%	
SW DUPLI-COLOR Undercoat															15.00%		15.00%		
DURO KOTE Undercoat																5.00%	5.00%	2.00%	
Quick Dry Rubberized					30.00%	10.00%	5.00%	1.00%		5.00%	13.00%		2.00%	1.00%		20.00%	2.85%	1.57%	
Transfer 4363-F					30.00%	2.33%	5.00%	1.00%						1.00%					
Content lb/gal																			
Coating Material	Density	Solids (particulate)	HAP <sub>TOT</sub>	HAP <sub>MAX</sub>	Acetone	Calcium Carbonate (particulate)	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl Alcohol	Heptane	n-Hexane (HAP)	Kaolin (particulate)	Methanol (HAP)	Silica Crystalline Quartz (particulate)	Stoddard Solvent Mineral Solvents	Toluene (HAP)	VM&P Naphtha	Xylene (HAP)	
Dupont 492-01	9.52	0.00	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.10	1.71	0.10	0.00	
Dupont 492-51	8.68	0.00	2.26	1.13	0.00	0.09	0.06	0.00	0.00	0.00	1.13	0.09	0.00	0.01	0.09	1.13	0.00	0.00	
3M Body Schutz	6.66	0.00	2.00	2.00	0.00	0.07	0.00	0.00	0.33	0.00	2.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	
SW DUPLI-COLOR	7.38	0.00	0.41	0.22	0.00	0.89	0.00	0.04	0.00	0.00	0.00	1.40	0.15	0.00	0.74	0.00	0.00	0.22	
DURO KOTE Und	8.16	0.00	1.22	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	1.22	0.00	0.00	
Quick Dry Rubberi	9.30	0.00	2.14	1.21	2.79	0.93	0.46	0.09	0.00	0.46	1.21	0.00	0.19	0.09	0.00	0.46	0.46	0.19	
Transfer 4363-F	7.53	0.00	1.70	1.51	2.26	0.18	0.38	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.00	1.51	0.21	0.12	
<b>Maximum (lb/gal)</b>	<b>9.52</b>	<b>0.00</b>	<b>2.26</b>	<b>2.00</b>	<b>2.79</b>	<b>0.93</b>	<b>0.46</b>	<b>0.09</b>	<b>0.33</b>	<b>0.46</b>	<b>2.00</b>	<b>1.40</b>	<b>0.19</b>	<b>0.09</b>	<b>1.22</b>	<b>1.71</b>	<b>1.22</b>	<b>0.22</b>	
Emission Rate (lb/hr)		0.0E+00	4.5E-01	4.0E-01	5.6E-01	1.3E-03	6.5E-04	1.9E-02	6.7E-02	9.3E-02	4.0E-01	2.0E-03	3.7E-02	1.3E-04	2.4E-01	3.4E-01	2.4E-01	4.4E-02	
IDAPA TAP EL (lb/hr)					1.19E+02	6.67E-01	2.3E-01	2.9E+01	1.25E+02	1.09E+02	1.20E+01	1.33E-01	1.73E+01	6.7E-03	3.50E+01	2.5E+01	9.13E+01	2.9E+01	
Below EL?					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Daily Use Rates (gal/day)	Averaging Period (hr/day)	Transfer Efficiency (%)		Filter Control Efficiency (%)															
4.00	24	65.00%		98.00%															
Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)																	
85.00%	1,460.0	1.20																	

**General PTC Emission Inventories for Automotive Coating Operations**  
*spray booth heater emissions for natural gas and LPG combustion, AP-42 Sections 1.4 and 1.5*

(7/98, 7/08)

Heat Input Capacity:  
10.00 MMBtu/hr

Operating Assumptions:  
24 hr/day  
2,080 hr/yr  
1,000 MMBtu/MMscf

Fuel Use:  
1.00E-02 MMscf/hr  
15 gr/100 ft<sup>3</sup> sulfur weight content  
91,500 Btu/gal

Criteria Air Pollutants	Emission Factor	Emissions		BRC Threshold		Below Threshold?	Modeling Threshold	
		lb/MMscf	lb/hr	T/yr				2002 Guidance
NO <sub>2</sub>	170	1.70E+00	1.77E+00	<b>4</b>	T/yr	Yes	<b>1</b>	T/yr
CO	84	8.40E-01	8.74E-01	<b>10</b>	T/yr	Yes	<b>14</b>	lb/hr
PM <sub>2.5</sub> /PM <sub>10</sub>	7.6	7.60E-02	7.90E-02	<b>1</b>	T/yr	Yes	<b>0.2</b>	lb/hr
SO <sub>x</sub>	0.6	6.00E-03	6.24E-03	<b>4</b>	T/yr	Yes	<b>1</b>	T/yr
VOC	5.5	5.50E-02	5.72E-02	<b>4</b>	T/yr	Yes	<b>0.2</b>	lb/hr
Lead	0.0005	5.00E-06	5.20E-06	<b>0.06</b>	T/yr	Yes	<b>4.00</b>	T/yr
			lb/mo					
			3.72E-03					<b>10</b>

Hazardous Air Pollutants (HAP) and Toxic Air Pollutants (TAP)	lb/MMscf	lb/hr	T/yr	Modeling Threshold	Below Threshold?
				EL (lb/hr)	
<b>Organic HAP PAH</b>					
2-Methylnaphthalene	2.40E-05	<b>5.70E-08</b>	<b>2.50E-07</b>	<b>9.10E-05</b>	Yes
3-Methylchloranthrene	1.80E-06	<b>4.27E-09</b>	<b>1.87E-08</b>	<b>2.50E-06</b>	Yes
Acenaphthene	1.80E-06	<b>4.27E-09</b>	<b>1.87E-08</b>	<b>9.10E-05</b>	Yes
Acenaphthylene	1.80E-06	<b>4.27E-09</b>	<b>1.87E-08</b>	<b>9.10E-05</b>	Yes
Anthracene	2.40E-06	<b>5.70E-09</b>	<b>2.50E-08</b>	<b>9.10E-05</b>	Yes
Benzo(a)anthracene	1.80E-06	<b>4.27E-09</b>	<b>1.87E-08</b>	<b>9.10E-05</b>	See POM
Benzo(a)pyrene	1.20E-06	<b>2.85E-09</b>	<b>1.25E-08</b>	<b>2.00E-06</b>	See POM
Benzo(b)fluoranthene	1.80E-06	<b>4.27E-09</b>	<b>1.87E-08</b>		See POM
Benzo(g,h,i)perylene	1.20E-06	<b>2.85E-09</b>	<b>1.25E-08</b>	<b>9.10E-05</b>	Yes
Benzo(k)fluoranthene	1.80E-06	<b>4.27E-09</b>	<b>1.87E-08</b>		See POM
Chrysene	1.80E-06	<b>4.27E-09</b>	<b>1.87E-08</b>		See POM
Dibenzo(a,h)anthracene	1.20E-06	<b>2.85E-09</b>	<b>1.25E-08</b>		See POM
7,12-Dimethylbenz(a)anthracene	1.60E-05	1.60E-07	1.66E-07		
Fluoranthene	3.00E-06	<b>7.12E-09</b>	<b>3.12E-08</b>	<b>9.10E-05</b>	Yes
Fluorene	2.80E-06	<b>6.65E-09</b>	<b>2.91E-08</b>	<b>9.10E-05</b>	Yes
Indeno(1,2,3-cd)pyrene	1.80E-06	<b>4.27E-09</b>	<b>1.87E-08</b>		See POM
Naphthalene	6.10E-04	<b>1.45E-06</b>	<b>6.34E-06</b>	<b>3.33</b>	Yes
Phenanthrene	1.70E-05	<b>4.04E-08</b>	<b>1.77E-07</b>	<b>9.10E-05</b>	Yes
Pyrene	5.00E-06	<b>1.19E-08</b>	<b>5.20E-08</b>	<b>9.10E-05</b>	Yes
Polycyclic Organic Matter (POM, 7-PAH Group)		<b>2.71E-08</b>	<b>1.19E-07</b>	<b>2.00E-06</b>	Yes
<b>Organic HAP Non-PAH</b>					
Benzene	2.10E-03	<b>4.99E-06</b>	<b>2.18E-05</b>	<b>8.00E-04</b>	Yes
Dichlorobenzene	1.20E-03	<b>2.85E-06</b>	<b>1.25E-05</b>	<b>9.10E-05</b>	Yes
Ethyl benzene		0.00E+00	<b>0.00E+00</b>	<b>2.90E+01</b>	Yes
Formaldehyde	7.50E-02	<b>1.78E-04</b>	<b>7.80E-04</b>	<b>5.10E-04</b>	Yes
n-Hexane	1.80E+00	1.80E-02	<b>1.87E-02</b>	<b>12</b>	Yes
Methyl Chloroform		0.00E+00	<b>0.00E+00</b>	<b>127</b>	Yes
Styrene		0.00E+00	<b>0.00E+00</b>	<b>6.67</b>	Yes
Toluene	3.40E-03	3.40E-05	<b>3.54E-05</b>	<b>25</b>	Yes
Xylene		0.00E+00	<b>0.00E+00</b>	<b>29</b>	Yes
<b>Organic Non-HAP</b>					
Butane	2.10E+00	2.10E-02	<b>2.18E-02</b>		
Ethane	3.10E+00	3.10E-02	<b>3.22E-02</b>		
OCDD (TEQ=0.0003)		<b>0.00E+00</b>	<b>0.00E+00</b>	<b>1.50E-10</b>	Yes
Pentane	2.60E+00	2.60E-02	<b>2.70E-02</b>	<b>118</b>	Yes
Propane	1.60E+00	1.60E-02	<b>1.66E-02</b>		
<b>Metal HAP</b>					
Arsenic	2.00E-04	<b>4.75E-07</b>	<b>2.08E-06</b>	<b>1.50E-06</b>	Yes
Beryllium	1.20E-05	<b>2.85E-08</b>	<b>1.25E-07</b>	<b>2.80E-05</b>	Yes
Cadmium	1.10E-03	<b>2.61E-06</b>	<b>1.14E-05</b>	<b>3.70E-06</b>	Yes
Chromium	1.40E-03	1.40E-05	<b>1.46E-05</b>	<b>0.033</b>	Yes
Cobalt	8.40E-05	8.40E-07	<b>8.74E-07</b>	<b>0.0033</b>	Yes
Copper	8.50E-04	8.50E-06	<b>8.84E-06</b>	<b>0.013</b>	Yes
Manganese	3.80E-04	3.80E-06	<b>3.95E-06</b>	<b>0.067</b>	Yes
Mercury	2.60E-04	2.60E-06	<b>2.70E-06</b>	<b>0.003</b>	Yes
Nickel	2.10E-03	<b>4.99E-06</b>	<b>2.18E-05</b>	<b>2.70E-05</b>	Yes
Vanadium	2.30E-03	2.30E-05	<b>2.39E-05</b>	<b>0.003</b>	Yes
<b>Metal Non-HAP</b>					
Barium	4.40E-03	4.40E-05	<b>4.58E-05</b>	<b>0.033</b>	Yes
Molybdenum	1.10E-03	1.10E-05	<b>1.14E-05</b>	<b>0.333</b>	Yes
<b>Inorganic HAP</b>					
Selenium	2.40E-05	2.40E-07	<b>2.50E-07</b>	<b>0.013</b>	Yes
<b>Inorganic non-HAP</b>					
Zinc	2.90E-02	2.90E-04	<b>3.02E-04</b>	<b>0.667</b>	Yes

NOTE: TAP emissions are based on 24-hour averages unless shown in **bold**, which are based on annual averages.