Statement of Basis
Automotive Coating Operations General Permit

Permit to Construct P-2018.0024
Project No. 62024

Permittee
Idaho Collision Centers, Inc.
Meridian, Idaho

Facility ID No. 001-00353

Final

April 9, 2018
Christina Boulay
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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APPENDIX A – EMISSIONS INVENTORIES

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_2	nitrogen dioxide
NO_x	nitrogen oxides
NSPS	New Source Performance Standards
PC	permit condition
$PM_{2.5}$	particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers
PM_{10}	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_2	sulfur dioxide
SO_X	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

Idaho Collision Centers, Inc. is an automobile body repair and refinishing facility with paint spray booth(s) which are equipped with a paint booth heater. The paint booth(s) is a pressurized crossflow 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 heater to heat the paint booth(s). 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 6, 2018	DEQ received an application and an application fee and the processing fee.
March 13 – March 28, 2018	DEQ provided an opportunity to request a public comment period on the application and proposed permitting action.
March 9, 2018	DEQ received supplemental information from the applicant.
March 9, 2018	DEQ determined that the application was complete.
March 9, 2018	DEQ made available the draft permit and statement of basis for peer review.
April 9, 2018	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	Paint spray booth(s): Manufacturer(s): Ameri-Cure or equivalent Model(s): Conqueror or equivalent Note: The number of booths installed at the facility is not limited by this permit. Paint booth(s) heater: Manufacturer(s): Ameri-Cure Model(s): Conqueror Total Heat input capacity: up to 10.0 MMBtu/hr Fuel: Natural Gas	Paint spray booth(s) and/or preparation station filter system: Booth Type(s): Crossflow Particulate filtration method: Dry Filters Manufacturer(s): Andreae or equivalent Model(s): AF223 or equivalent PM/PM_{10} Efficiency: 98% or greater Coating spray gun(s): Manufacturer: Iwata and Sata, or equivalent Model: LPH400 Entech and RP, or equivalent Type: HVLP or equivalent Transfer Efficiency: 65% or greater	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	$PM_{10}/PM_{2.5}$ T/yr	SO_2 T/yr	NO_x T/yr	CO T/yr	VOC T/yr	Lead lb/quarter
Point Sources						
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	0.012
Total, Point Sources	**3.82**	**0.03**	**1.77**	**0.88**	**12.30**	**0.012**

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[a]

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
Total	**10.87**

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	$PM_{10}/PM_{2.5}$		SO_2		NO_x		CO		VOC		Lead	
	lb/hr[a]	T/yr[b]	lb/hr[a]	T/yr[b]	lb/hr[a]	T/yr[b]	lb/hr[a]	T/yr[b]	lb/hr[a]	T/yr[b]	lb/hr	T/yr
Point Sources												
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	5.0E-06	6.0E-06
Post-Project Totals	**0.10**	**0.15**	**0.01**	**0.03**	**1.70**	**1.77**	**0.84**	**0.88**	**2.85**	**12.30**	**5.0E-06**	**6.0E-06**

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[a]

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
Total	**10.87**

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

	$PM_{10}/PM_{2.5}$		SO_2		NO_x		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
Point Sources												
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	0.09	0.15	0.01	0.03	1.70	1.77	0.84	0.88	2.85	12.30	5.0E-06	6.0E-06
Changes in Potential to Emit	**0.09**	**0.15**	**0.01**	**0.03**	**1.70**	**1.77**	**0.84**	**0.88**	**2.85**	**12.30**	**5.0E-06**	**6.0E-06**

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

Pollutant	PTE (T/yr)	DEQ Modeling Guideline Thresholds (T/yr)	Exceeds Modeling Guideline Threshold?
PM_{10}	0.15	1.5	No
$PM_{2.5}$	0.15	1.0	No
SO_2	0.03	4.0	No
NO_x	1.77	4.0	No
CO	0.88	10.0	No
Lead	6.0E-06	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)

Idaho Collision Centers, Inc. is located in Ada County, which is designated as attainment or unclassifiable for $PM_{2.5}$, PM_{10}, SO_2, NO_2, 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_{10}, SO_2, NO_x, 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

Pollutant	PTE (T/yr)	10% of the Significance Threshold (T/yr)	Exceeds 10% of the Significance Threshold?
PM_{10}	0.15	1.5	No
$PM_{2.5}$	0.15	1.0	No
SO_2	0.03	4.0	No
NO_x	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_{10}) nonattainment area and the facility has the potential to emit seventy (70) T/yr or more of PM_{10}, 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 Idaho Collision Centers, Inc. facility is located in Ada County (AQCR 64), which is designated as unclassifiable/attainment for $PM_{2.5}$, PM_{10}, SO_2, NO_x, 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 not delegated authority to the State of Idaho. However, 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 or only those permit conditions that have been added, revised, modified or deleted as a result of this permitting action.

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_{10} 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 is allowed to be used as fuel in the paint booth heater(s) 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_{10} 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 were no comments on the application and 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

Coating Type: Bed Liner "Iso" Component (MDI-Based)

$L_{sp} = (V_{air}/359) * (273.15/T_{sp}) * 60 * (C_{MDI}/1000000) * MW * k_{MDI} * t_{sp}$

where:

L_{sp} = the annual emissions for spray coating operations	24.77	lb/yr[1]
V_{air} = the exhaust airflow rate	10,000	ft^3/min
359 = the molar volume of an ideal gas	359	ft^3/lbmol @ 0°C and 1-atm
T_{sp} = the spray temperature	308.15	K
$C_{MDI} = (VP_{MDI}/760) \times 10^6$ = the MDI concentration in the exhaust air	0.0458	ppmv
VP_{MDI} = MDI vapor pressure at exhaust temperature	3.48E-05	mmHg[2]
MW = the molecular weight of MDI (250.26)	250.26	lb/lbmol
k_{MDI} = the adjustment factor to the vapor pressure that is a function of MDI concentration i	1.00	
t_{sp} = hr/day x 365 day/yr = is the total time in hours/year that spray coating is occurring	1460	hr/yr
t_{hr} = is the total time in hours/day that spray coating is occurring	4.00	hr/day
T = the spray temperature	95	°F
Emission Rate (lb/hr, 24-hr average)	**2.83E-03**	
IDAPA TAP EL (lb/hr)	3.00E-03	
Below EL?	Yes	

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_2	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
$PM_{2.5}/PM_{10}$	0.0171	0.0760	0.0931	0.0749	0.0791	0.1540	1	T/yr	Yes
SO_X	0.000	0.008	0.008	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-08	5.E-08	0.E+00	6.E-08	6.E-08	0.05	T/yr	Yes
	lb/mo	lb/mo	lb/mo						
	0.000	0.004	0.004						
$PM_{2.5}$ / PM_{10} (uncontrolled)	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)	
Organic HAP PAH						
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	9.10E-05	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-Dimethylbenz(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
Organic HAP Non-PAH						
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
Methanol	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
Organic Non-HAP						
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-Butoxyethanol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E+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 Isoamyl Ketone	1.02E-01	0.00E+00	1.02E-01	4.48E-01	1.60E+01	Yes
Methyl Isobutyl Carbinol	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
Metal HAP						
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
Cadmium	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	2.46E-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
Metal Non-HAP						
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
Inorganic HAP						
Selenium	0.00E+00	2.40E-07	2.40E-07	2.50E-07	1.30E-02	Yes
Inorganic Non-HAP						
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
Magnesite	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_{TOT}	2.727	11.95		
		HAP_{MAX}	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	gr/100 ft^3 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	16.78	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	$PM_{10}/PM_{2.5}$	SO_2	NO_x	CO	VOC	Lead
	T/yr	T/yr	T/yr	T/yr	T/yr	lb/quarter
Point Sources						
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) *(if installed)*	0.079	0.03	1.77	0.88	0.06	0.0120
Total, Point Sources	**3.82**	**0.03**	1.77	**0.88**	**12.30**	**0.01**

Table 3 UNCONTROLLED POTENTIAL TO EMIT FOR HAPs[a)]

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
Total	**10.87**

Table 4 POST PROJECT POTENTIAL TO EMIT FOR CRITERIA POLLUTANTS

Emissions Unit	$PM_{10}/PM_{2.5}$		SO_2		NO_x		CO		VOC		Lead	
	lb/hr[a]	T/yr[b]	lb/hr[a]	T/yr[b]	lb/hr[a]	T/yr[b]	lb/hr[a]	T/yr[b]	lb/hr[a]	T/yr[b]	lb/hr	T/yr
Point Sources												
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) *(if installed)*	0.08	0.08	0.01	0.03	1.70	1.77	0.84	0.88	0.06	0.06	0.000005	0.000006
Post-Project Totals	**0.09**	**0.15**	**0.01**	**0.03**	**1.70**	**1.77**	**0.84**	**0.88**	**2.85**	**12.30**	**0.000005**	**0.000006**

Table 5 POST PROJECT POTENTIAL TO EMIT FOR HAPs[a)]

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
Total	**10.87**

Table 6 CHANGES IN POTENTIAL TO EMIT FOR CRITERIA POLLUTANTS

	$PM_{10}/PM_{2.5}$		SO_2		NO_x		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
Point Sources												
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
Changes in 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**

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_{10}	0.15	1.5	No
$PM_{2.5}$	0.15	1	No
SO_2	0.03	4	No
NO_x	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_{10}	0.15	1.5	No
$PM_{2.5}$	0.15	1.0	No
SO_2	0.03	4.0	No
NO_x	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_{TOT}	HAP_{MAX}	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%	6.50%		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_{TOT}	HAP_{MAX}	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	0.60	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
Maximum (lb/gal)	**9.17**	**5.04**	**3.68**	**2.26**	**0.92**	**2.43**	**1.01**	**0.50**	**1.78**	**3.32**	**0.92**	**0.67**	**1.44**	**3.37**	**0.13**	**2.26**
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_{TOT}	HAP_{MAX}	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 DR-20		67%			10.00%	10.00%		1.50%	15.00%	5.00%	10.00%							5%	5.00%			7.70%
BASF DR-21		70%				20.00%		1.10%	20.00%	5.00%	5.00%											5.20%
BASF DR-25		59%			5.00%	20.00%		1.40%	15.00%		5.00%	5.00%	5.00%				5.00%	5%	5.00%		2.00%	5.20%
BASF DR-26		59%			5.00%	20.00%	5.00%	1.40%	15.00%		5.00%	5.00%	5.00%				5.00%		5.00%		2.00%	5.20%
BASF DR-27		59%			5.00%	20.00%	5.00%	1.40%	20.00%		5.00%	5.00%	5.00%						5.00%		2.00%	5.20%
BASF DR-31		66%			5.00%	15.00%		1.50%	10.00%	5.00%	5.00%		6.00%						5.00%			5.70%
BASF DR-200		66%			10.00%				20.00%	5.00%			10.00%	5.00%				5%	5.00%			
BASF DR-210		87%				10.00%				5.00%			10.00%						10.00%			
BASF DR-228		67%			5.00%	5.00%		0.20%	15.00%	5.00%	5.00%	10.00%						5%	5.00%			
BASF DR-238		79%									10.00%		5.00%					5%				
BASF DR-321		54%			10.00%				10.00%	5.00%			10.00%			40.00%			5.00%			
BASF DR-8330		52%			25.00%		5.00%	0.20%	5.00%					15.00%	1.00%				10.00%	10.00%		
BASF DR-8335		52%			25.00%		5.00%	0.20%	5.00%					15.00%	1.00%				10.00%	10.00%		
Dupont Nason 421-05		48.01%			1.00%	1.00%	1.00%	0.80%											1.00%	4.00%		3.00%
Dupont Nason 421-08		56.62%				1.00%	0.80%													8.00%		
Dupont Nason 421-09		54.07%			1.00%	1.00%	0.50%							1.00%						9.00%		
Dupont Nason 421-15		52.59%			1.00%	1.00%	0.30%	0.50%						1.00%					8.50%	2.00%		2.00%
Dupont Nason 421-17		62.36%				1.00%		5.80%												2.00%		21.00%
Dupont Nason 421-18		67.04%			1.00%			1.80%									1.00%		0.20%			7.00%
Dupont Nason 421-19		63.65%				1.00%																21.00%
Dupont Nason 421-20		61.52%				1.00%	0.20%						1.00%						0.30%			
Dupont Nason 421-21		51.59%			1.00%	1.00%	0.20%						1.00%						0.10%			
Dupont Nason 421-23		58.92%					0.20%	2.70%												16.00%		10.00%
Dupont Nason 421-30		84.77%			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_{TOT}	HAP_{MAX}	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 DR-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 DR-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 DR-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	0.58	0.00	0.23	0.72
BASF DR-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 DR-27	11.41	6.73	1.44	0.71	0.57	2.28	0.57	0.16	2.28	0.00	0.57	0.57	0.57	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.23	0.71
BASF DR-31	10.66	7.03	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 DR-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 DR-210	16.76	14.58	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.84	0.00	0.00	1.68	0.00	0.00	0.00	0.00	0.00	1.68	0.00	0.00	0.00
BASF DR-228	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 DR-238	16.04	12.87	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.80	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
BASF DR-321	12.08	8.51	0.00	0.00	1.21	0.00	0.00	0.00	1.21	0.60	0.00	0.00	1.21	0.00	0.00	4.82	0.00	0.00	0.60	0.00	0.00	0.00
BASF DR-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	0.00	1.38	0.09	0.00	0.00	0.00	0.92	0.92	0.00	0.00
BASF DR-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	0.00	1.38	0.09	0.00	0.00	0.00	0.92	0.92	0.00	0.00
Dupont Nason 42	9.52	4.67	0.74	0.36	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	0.00	0.10	0.36	0.00	0.28
Dupont Nason 42	10.28	5.82	0.82	0.82	0.00	0.10	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	0.00
Dupont Nason 42	9.94	5.57	0.89	0.89	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	0.89	0.00	0.00
Dupont Nason 42	9.94	5.28	0.95	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	0.05	0.20	0.00	0.20
Dupont Nason 42	11.88	7.41	3.43	2.48	0.00	0.12	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	2.48
Dupont Nason 42	13.83	9.27	1.22	0.97	0.14	0.00	0.00	0.25	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	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.54
Dupont Nason 42	11.62	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	12.92	8.35	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	3.5E-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		8.70E-02	8.67E-01	8.7E-03	2.5E+01	8.20E+00	2.9E+01
Below EL?					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 (%)
4.30	24	65.00%	95.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
95.00%	1,462.0	1.20

Coating Type: Base and Color

Content Weight %

Coating Material	Density	Solids (particulate)	HAP_{VOC}	HAP_{Wet}	Acetone	Aromatic Hydrocarbon	Barium Sulfate	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethylene Glycol Monobutyl Ether	Methyl n-Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isobutyl Ketone (MIBK)(HAP)	Naphthalene (HAP)	Silica Amorphous (particulate)	Silica Crystalline Quartz (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)
BASF HO10								52.00%	5.00%	3.40%			40.00%				13.00%		5.00%		5%		19.73%
BASF HO17										1.50%											7.10%		6.20%
BASF HO18										1.50%											6.70%		7.10%
BASF HO45																					5.90%		
BASF HO60										0.50%													2.30%
BASF HO61										0.70%													2.60%
BASF HO85										1.00%													4.10%
BASF HO87										1.00%													2.50%
BASF SC00										0.40%													1.50%
BASF SC01										1.30%											1.70%		5.30%
BASF SC03																				2.30%	1.90%		
BASF SC10										0.10%					4.00%						7.90%		
BASF SC20															4.00%						7.10%		
BASF SC25										0.20%					2.70%						5.90%		1.30%
BASF SC29															5.30%						7.30%		
BASF SC30										0.10%					2.00%						6.80%		
BASF SC40															5.50%						5.70%		
BASF SC403										0.40%					2.00%						5%		2.10%
BASF SC44															4.50%						6.60%		
BASF SC46										0.10%					7.50%						5.58%		
BASF SC54										0.10%					5.00%						6.40%		
BASF SC56										0.10%					4.30%						5.93%		
BASF SC59															5.00%						7.30%		
BASF SC61															4.00%						4.50%		
BASF SC62										0.40%					1.70%						5.80%		2.90%
BASF SC65										0.10%					2.70%						4.60%		
BASF SC67										0.40%					3.50%						6.40%		
BASF SC69															3.50%						7.20%		
BASF SC74															3.90%						4.90%		
BASF SC77															3.50%						6.10%		
BASF SC79															6.80%						7.30%		
BASF SC804										1.30%					4.20%						7.00%		7.30%
BASF SC82															6.40%						5.50%		
BASF SC85															1.10%						5.00%		
BASF SC96															1.10%						5.90%		
BASF SC98															5.60%						4.20%		
BASF SC90										0.70%													2.60%
BASF SC99															2.60%						7.00%		
Dupont Nason 422-23		33.61%			1.00%	1.00%			0.60%	0.60%	1.00%		1.00%					2.30%		3.00%				3.00%
Dupont Nason 422-29		72.31%			1.00%	1.00%			2.20%	0.30%			1.00%							1.00%				1.00%
Dupont Nason 422-33		76.92%							2.10%	1.00%					9.50%	0.30%								4.00%
Dupont Nason 422-46		64.67%						1.00%	1.40%	0.40%		1.00%			12.00%				1.00%	4.00%		1.00%		1.00%
Dupont Nason 422-48		61.17%					1.00%	1.00%		0.10%			1.00%	1.00%						1.00%				18.00%
Dupont ChromaBase®996K		32.28%						1.00%	2.40%	2.70%				1.00%						24.00%				7.00%
Dupont ChromaBase®100880K		24.15%			1.00%			1.00%		3.50%														20.00%
Dupont ChromaBase®101756K		25.12%			1.00%			1.00%	0.40%	5.30%														19.00%
Dupont ChromaBase®736625K		25.40%			1.00%			1.00%		5.50%														19.00%
Dupont ChromaBase®736766K		26.55%			1.00%			1.00%		5.70%														19.00%
Dupont ChromaBase®745101K		23.80%			1.00%			1.00%		5.80%														20.00%
Dupont ChromaBase®747402K		26.41%			1.00%			1.00%		6.30%														24.00%
Dupont ChromaBase®BB424K		40.45%			1.00%			1.00%		4.50%														1.00%
Dupont ChromaBase®BB448K		40.44%			1.00%			1.00%		4.80%														18.00%
Dupont ChromaBase®BB555K		38.63%			1.00%			1.00%		4.82%														18.00%
Dupont ChromaBase®BB713K		27.13%			1.00%			1.00%		7.30%														27.00%
Dupont ChromaBase®BB823K		45.57%			1.00%			1.00%		4.60%														18.00%
Dupont ChromaBase®BB825K		28.74%			1.00%			1.00%	0.10%	5.90%														22.00%
Dupont ChromaBase®BB831K		26.37%			1.00%			1.00%		6.80%														26.00%
Dupont ChromaBase®BB911BK		31.86%			1.00%			1.00%		4.80%														17.00%
Dupont ChromaBase®BB914SK		40.48%			1.00%			1.00%		5.70%														20.00%
Dupont ChromaBase®BB926K		30.05%			1.00%			1.00%		7.00%														26.00%
Dupont ChromaBase®BB944K		40.63%			1.00%			1.00%		4.82%														18.00%
Dupont ChromaBase®GB560K		28.17%			1.00%			1.00%		5.60%														29.00%
Dupont ChromaBase®P7999K		28.81%			1.00%			1.00%		6.70%														25.00%
Dupont ChromaBase®W915SK		28.45%			1.00%			1.00%		6.00%														20.00%
Dupont ChromaBase®W4744K		26.49%			1.00%			1.00%		6.10%														20.60%
Dupont ChromaBase®W6757K		31.90%			1.00%			1.00%	0.10%	5.70%														21.00%
Dupont ChromaBase®W9318K		28.68%			1.00%			1.00%	0.10%	5.10%														19.00%
Dupont ChromaBase®W9350K		26.68%			1.00%			1.00%		6.00%														20.00%
Dupont ChromaBase®P0931K		25.16%			1.00%			1.00%	0.40%	5.70%														28.00%
Dupont ChromaBase®P0932K		28.90%			1.00%			1.00%	0.30%	5.50%														20.00%
Dupont ChromaBase®P0950K		24.55%			1.00%			1.00%	0.60%	5.50%														19.00%
Dupont ChromaBase®P2236K		22.06%			1.00%			1.00%		5.30%														29.00%
Dupont ChromaBase®P4046K		23.92%			1.00%			1.00%	0.30%	5.90%														18.00%
Dupont ChromaBase®P4577K		24.44%			1.00%			1.00%		6.10%														21.00%
Dupont ChromaBase®P4646K		26.92%			1.00%			1.00%		6.10%														20.00%
Dupont ChromaBase®P4927K		24.18%			1.00%			1.00%	0.30%	5.60%														20.00%
Dupont ChromaBase®P5640K		26.71%			1.00%			1.00%		5.60%														18.00%
Dupont ChromaBase®P5647K		29.75%			1.00%			1.00%		6.30%														22.00%
Dupont ChromaBase®P6756K		25.11%			1.00%			1.00%		5.30%														20.00%
Dupont ChromaBase®P6834K		27.99%			1.00%			1.00%		5.10%														18.00%
Dupont ChromaBase®PT105K		27.49%			1.00%			1.00%		5.90%										1.00%				19.00%
Dupont ChromaBase®PT304K		24.11%			1.00%			1.00%		5.30%														19.00%
Dupont ChromaBase®PT333K		24.06%			1.00%			1.00%	0.10%	5.70%														22.00%
Dupont ChromaBase®W9340K		40.67%			1.00%			1.00%		4.80%										1.00%				18.00%

Content Ibs/gal

Coating Material	Density	Solids (particulate)	HAP_{VOC}	HAP_{Wet}	Acetone	Aromatic Hydrocarbon	Barium Sulfate	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethylene Glycol Monobutyl Ether	Methyl n-Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isobutyl Ketone (MIBK)(HAP)	Naphthalene (HAP)	Silica Amorphous (particulate)	Silica Crystalline Quartz (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)
BASF HO10	11.9	0.00	2.54	1.63	0.00	0.00	0.00	5.95	0.60	0.40	0.00	0.00	7.14	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.64	0.00	1.63
BASF HO17	11.9	0.00	0.92	0.74	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.74
BASF HO18	11.9	0.00	1.06	0.84	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.84
BASF HO45	11.9	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	0.70	0.00	0.00
BASF HO60	11.9	0.00	0.30	0.24	0.00	0.00	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	0.24
BASF HO61	11.9	0.00	0.42	0.33	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
BASF HO85	11.9	0.00	0.61	0.49	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	0.00	0.00	0.00	0.49
BASF HO87	11.9	0.00	0.57	0.45	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	0.00	0.00	0.00	0.45
BASF SC00	11.9	0.00	0.23	0.19	0.00	0.00	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	0.19
BASF SC01	11.9	0.00	0.79	0.63	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.63
BASF SC03	11.9	0.00	0.27	0.27	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	0.27	0.23	0.00	0.00
BASF SC10	11.9	0.00	0.49	0.49	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00
BASF SC20	11.9	0.00	0.54	0.34	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	0.84	0.00	0.00
BASF SC25	11.9	0.00	0.50	0.32	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.15
BASF SC29	11.9	0.00	0.62	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.97	0.00	0.00
BASF SC30	11.9	0.00	0.25	0.24	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.81	0.00	0.00
BASF SC40	11.9	0.00	0.65	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.93	0.00	0.00
BASF SC403	11.9	0.00	0.54	0.28	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.71	0.00	0.25
BASF SC44	11.9	0.00	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.79	0.00	0.00
BASF SC46	11.9	0.00	0.80	0.80	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.79	0.00	0.00
BASF SC54	11.9	0.00	0.68	0.67	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.76	0.00	0.00
BASF SC56	11.9	0.00	0.60	0.58	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.78	0.00	0.00
BASF SC59	11.9	0.00	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.87	0.00	0.00
BASF SC61	11.9	0.00	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.64	0.00	0.00
BASF SC62	11.9	0.00	0.49	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.69	0.00	0.24
BASF SC65	11.9	0.00	0.33	0.32	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.55	0.00	0.00
BASF SC67	11.9	0.00	0.43	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.76	0.00	0.00
BASF SC69	11.9	0.00	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.86	0.00	0.00
BASF SC74	11.9	0.00	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.88	0.00	0.00
BASF SC77	11.9	0.00	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.73	0.00	0.00
BASF SC79	11.9	0.00	0.81	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.97	0.00	0.00
BASF SC804	11.9	0.00	1.52	0.87	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.83	0.00	0.87
BASF SC82	11.9	0.00	0.64	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.85	0.00	0.00
BASF SC85	11.9	0.00	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
BASF SC96	11.9	0.00	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.78	0.00	0.00
BASF SC98	11.9	0.00	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.74	0.00	0.00
BASF SC90	11.9	0.00	0.42	0.33	0.00	0.00	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	0.33
BASF SC99	11.9	0.00	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.83	0.00	0.00
Dupont Nason 422	8.34	2.77	0.56	0.25	0.08	0.08	0.00	0.08	0.05	0.07	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.19	0.00	0.29	0.00	0.00	0.08
Dupont Nason 422	10.57	7.64	1.29	0.95	0.11	0.11	0.00	0.00	0.23	0.03	0.00	0.00	0.11	0.00	0.00	0.00	0.95	0.03	0.00	0.00	0.00	0.11	0.00
Dupont Nason 422	11.47	8.63	1.96	1.36	0.00	0.00	0.00	0.00	0.24	0.11	0.00	0.00	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00	0.00	0.46
Dupont Nason 422	10.35	8.69	0.56	0.41	0.00	0.00	0.00	0.10	0.14	0.04	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.10	0.10
Dupont Nason 422	10.62	8.62	2.72	1.95	0.00	0.00	0.11	0.11	0.00	0.55	0.00	0.00	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	1.95
Dupont ChromaBase®996K		7.81	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	0.00
Dupont ChromaBase®100880K		7.68	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	0.00
Dupont ChromaBase®101756K		7.79	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	0.00
Dupont ChromaBase®736625K		7.76	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	0.00
Dupont ChromaBase®736766K		7.82	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	0.00
Dupont ChromaBase®745101K		7.69	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	0.00
Dupont ChromaBase®747402K		7.63	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	0.00

Coating Type: Base and Color

Dupont ChromaBase#6B6424K	9.17	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	0.00
Dupont ChromaBase#6B4469K	9.17	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	0.00
Dupont ChromaBase#6B4656K	9.00	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	0.00	0.00
Dupont ChromaBase#6B4713K	7.80	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	0.00
Dupont ChromaBase#6B4833K	9.18	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	0.00
Dupont ChromaBase#6B9025K	7.64	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	0.00
Dupont ChromaBase#6B9031K	7.79	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	0.00
Dupont ChromaBase#6B9116K	10.40	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	0.00
Dupont ChromaBase#6B9145K	9.17	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	0.00
Dupont ChromaBase#6B9328K	7.66	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	0.00
Dupont ChromaBase#6B9444K	9.18	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	0.00
Dupont ChromaBase#6D4589K	7.98	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	0.00
Dupont ChromaBase#6F7999K	7.81	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	0.00
Dupont ChromaBase#6M5159K	7.78	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	0.00
Dupont ChromaBase#6M8744K	7.71	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	0.00
Dupont ChromaBase#6N8757K	8.00	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	0.00	0.00
Dupont ChromaBase#6N9316K	7.96	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	0.00
Dupont ChromaBase#6N8369K	7.75	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	0.00
Dupont ChromaBase#6P0931K	7.72	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	0.00
Dupont ChromaBase#6P0932K	7.80	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	0.00
Dupont ChromaBase#6P0960K	7.69	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	0.00
Dupont ChromaBase#6P2236K	7.65	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	0.00
Dupont ChromaBase#6P4049K	7.67	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	0.00
Dupont ChromaBase#6P4877K	7.85	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	0.00
Dupont ChromaBase#6P4846K	7.83	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	0.00
Dupont ChromaBase#6P4827K	7.68	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	0.00
Dupont ChromaBase#6P9640K	7.63	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	0.00
Dupont ChromaBase#6P8647K	7.88	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	0.00
Dupont ChromaBase#6P8759K	7.78	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	0.00
Dupont ChromaBase#6P8534K	7.92	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	0.00
Dupont ChromaBase#6P7105K	7.74	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	0.00
Dupont ChromaBase#6P7304K	7.67	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	0.00
Dupont ChromaBase#6P7333K	7.74	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	0.00
Dupont ChromaBase#W8430K	9.18	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	0.00
Maximum (lb/gal)	**11.88**	**10.40**	**2.72**	**1.86**	**0.11**	**0.11**	**0.11**	**6.96**	**0.80**	**0.55**	**0.08**	**0.16**	**7.14**	**0.11**	**1.39**	**0.09**	**1.19**	**0.16**	**0.89**	**0.41**	**0.84**	**0.10**	**1.96**
Emission Rate (lb/hr)		**1.2E-02**	**6.4E-01**	**3.9E-01**	**2.1E-02**	**2.1E-02**	**2.2E-02**	**1.2E+00**	**8.3E-04**	**1.1E-01**	**1.4E-02**	**2.1E-02**	**1.4E+00**	**2.2E-02**	**2.9E-01**	**6.3E-03**	**1.7E-03**	**2.7E-04**	**1.2E-01**	**8.2E-02**	**1.6E-01**	**2.1E-02**	**3.8E-01**
IDAPA TAP EL (lb/hr)					**1.19E+02**			**4.73E+01**	**2.3E-01**	**2.6E+01**			**1.57E+01**	**3.83E+01**	**1.37E+01**	**3.33E+00**	**6.67E-01**	**6.7E-03**	**3.59E+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**

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)
50.00%	1,460.0	1.20

Costing Type: Clearcoat

Coating Weight %

Coating Material	Density	Solids (particulate)	MW_{ave}	MW_{ave}	Acetone	n-Amyl Acetate	Aromatic Hydrocarbon	Butyl Acetate	Ethyl Benzene (HAP)	Ethyl Dethexy Propionate	Ethyl Acetate	Ethylene Glycol Monobutyl Ether	Hexamethylene Diisocyanate (HDI,HAP)	Isobutyl Acetate	Isophorone Diisocyanate	Isopropyl Alcohol (IPA)	Methyl Acetate	Methyl n-Amyl Ketone	Methyl Chloroform (HAP)	Methyl Ethyl Ketone (MEK,HAP)	Methyl Isobutyl Ketone	Methyl Isobutyl Ketone (MIBK,HAP)	Methyl Propyl Ketone	Naphthalene (HAP)	Propionic Acid	Propylene Glycol Monomethyl Ether Acetate	Silica Amorphous (particulate)	Toluene (HAP)	Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)
AASF DC7804		5%			25%				1.10%									35.00%					1.70%								6.70%
AASF DC82		48%			15.00%				0.60%									40.00%													6.80%
AASF DC88		35%							1.10%							51.40%															
AASF DC7852		74%			10.00%			5.00%						5.00%						10.00%							15.00%		29.40%		6.00%	4.40%
AASF DC8104		40%			30.00%				0.80%									35.00%				3.60%									5.60%
AASF DC8109		70%			25.00%				0.10%									20.00%				1.80%									1.30%
AASF DC8098		69%			5.00%			10.00%										15.00%						0.20%					6.20%		
AASF DC8076		43%			20.00%												15.00%	30.00%			5.00%	1.20%									1.00%
AASF DC8069		69%			20.00%			15.00%	0.40%		10.00%						15.00%	15.00%				1.20%	10.00%								1.20%
AASF DC8703		38%						40.00%	2.10%													5.10%				10.00%					11.00%
AASF DC8775		35%			10.00%			10.00%	1.10%								10.00%									10.00%					1.40%
AASF DC8485		57%			10.00%												10.00%														
Dupont Chromaflow® 74400		35.00%			1.00%				1.20%								10.00%	1.80%						1.20%							5.00%
Dupont Chromaflow® 75402		59.10%									1.00%		0.10%					1.80%													13.00%
Dupont Chromaflow® 78010		3.72%					1.00%	1.00%	3.20%									1.00%								1.40%		29.80%	2.60%		13.00%
Dupont Chromaflow® 78103		39.12%					1.00%	1.00%																				27.00%			
Dupont Chromaflow® 78700		37.62%					1.00%	1.00%																		1.00%					
Dupont Chromaflow® 78902		37.78%					1.00%	1.00%		5.00%																			6.00%		
Dupont Chromaflow® 79901		38.10%						1.00%		1.00%																					
Dupont Chromaflow® 77602		47.05%						1.00%						5.00%														13.00%			
Dupont Chromaflow® 77702		47.91%				1.00%		1.00%	1.20%	1.00%				1.00%														7.00%			5.00%
Dupont Chromaflow® 77902		46.97%						1.00%	1.20%	1.00%	1.00%			1.00%																	5.00%
Dupont Chromaflow® 77902		48.97%						1.00%		1.00%				1.00%																	
Dupont Chromaflow® 78702		71.70%									1.00%		0.10%															8.00%			
Dupont Chromaflow® 78902		69.10%										5.00%	0.10%																		
Dupont Chromaflow® 02-48902		48.97%			1.00%													1.00%			1.00%										24.00%
Dupont Chromaflow® 03-47502		50.62%																													
Dupont Chromaflow® 02-77702		38.22%			1.00%		1.00%		3.00%									1.00%			1.00%							3.00%			12.00%
Dupont Chromaflow® 04-48902		51.30%						1.00%	4.00%									1.00%			1.00%										20.00%
Dupont Chromaflow® 04-47502		51.40%						1.00%	5.00%									1.00%			1.00%										33.00%
Dupont Chromaflow® 02-77702		34.80%			1.00%				3.00%									1.00%			1.00%	6.00%						3.00%			16.00%
Dupont Chromaflow® LH7775		47.00%				1.00%		1.00%		1.00%					1.00%						1.00%										
Dupont Chromaflow® LH7779		39.00%			1.00%			1.00%		1.00%								1.00%													
Dupont Chromaflow® LH7795		47.00%						1.00%		1.00%					1.00%																

Coating Solid

Coating Material	Density	Solids (particulate)	MW_{ave}	MW_{ave}	Acetone	n-Amyl Acetate	Aromatic Hydrocarbon	Butyl Acetate	Ethyl Benzene (HAP)	Ethyl Dethexy Propionate	Ethyl Acetate	Ethylene Glycol Monobutyl Ether	Hexamethylene Diisocyanate (HDI,HAP)	Isobutyl Acetate	Isophorone Diisocyanate	Isopropyl Alcohol (IPA)	Methyl Acetate	Methyl n-Amyl Ketone	Methyl Chloroform (HAP)	Methyl Ethyl Ketone (MEK,HAP)	Methyl Isobutyl Ketone	Methyl Isobutyl Ketone (MIBK,HAP)	Methyl Propyl Ketone	Naphthalene (HAP)	Propionic Acid	Propylene Glycol Monomethyl Ether Acetate	Silica Amorphous (particulate)	Toluene (HAP)	Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)
AASF DC7804	7.03	2.65	0.39	0.49	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.45	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	0.40
AASF DC82	8	3.84	0.43	0.56	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.20	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
AASF DC88	10.26	3.62	0.11	0.11	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15	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
AASF DC7852	7.33	1.03	0.14	0.06	0.73	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.94	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.02
AASF DC8104	7.79	3.11	0.71	0.44	1.04	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	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	0.04
AASF DC8109	9.51	3.73	0.38	0.14	2.13	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
AASF DC8098	9.2	4.04	0.00	0.02	0.47	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	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
AASF DC8076	7.85	1.38	0.28	0.15	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
AASF DC8703	7.69	2.62	0.25	0.15	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
AASF DC8775	8.57	3.57	1.37	0.46	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AASF DC8775	8.28	3.52	0.19	0.13	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	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	0.13
AASF DC8485	8.46	3.51	0.59	1.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Chromaflo	7.55	2.94	0.47	0.58	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Chromaflo	8.48	4.83	1.11	1.33	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Chromaflo	7.19	0.27	0.19	2.01	0.00	0.00	0.07	0.07	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	2.01	0.14	0.00	0.00
Dupont Chromaflo	8.11	3.17	2.19	2.19	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Chromaflo	8.23	3.13	0.50	2.50	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Chromaflo	8.39	3.17	0.00	2.50	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Chromaflo	8.26	3.14	0.00	2.50	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Chromaflo	8.20	3.08	1.09	1.09	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Chromaflo	8.22	3.81	1.11	0.56	0.00	0.00	0.00	0.00	0.11	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	0.00	0.00	0.00
Dupont Chromaflo	8.24	1.62	0.65	0.42	0.00	0.00	0.00	0.00	0.11	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	0.00	0.00	0.00
Dupont Chromaflo	8.23	3.31	0.16	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Chromaflo	8.60	4.25	0.72	0.71	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Chromaflo	9.04	5.25	0.00	0.21	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Chromaflo	7.87	2.89	2.34	1.91	0.00	0.00	0.00	0.00	0.47	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	0.00	0.00	0.00
Dupont Chromaflo	8.54	4.08	0.85	0.85	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Chromaflo	7.65	2.52	1.22	0.52	0.00	0.00	0.00	0.00	0.22	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	0.00	0.00	0.00
Dupont Chromaflo	8.10	4.33	2.16	1.62	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Chromaflo	8.64	4.14	2.39	1.77	0.00	0.00	0.00	0.00	0.46	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	0.00	0.00	0.00
Dupont Chromaflo	7.65	2.65	2.25	1.15	0.00	0.00	0.00	0.00	0.29	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	0.00	0.00	0.00
Dupont Chromaflo	8.24	3.87	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Chromaflo	7.40	2.04	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	0.00	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 Chromaflo	8.32	3.91	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minimum (lb/gal)	10.26	0.35	0.19	0.13	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emission Rate (lb/hr)		7.48-03	5.46-01	5.46-01	6.30-01	1.75-02	1.75-02	5.53-01	5.46-02	1.88-02	1.88-01	9.98-02	2.76-04	7.39-03	2.58-03	5.35-01	1.96-01	5.46-01	5.46+00	1.08-01	7.98-02	1.25-01	1.88-01	3.30-02	1.52-02	2.28-01	1.38-03	6.46-01	1.92-01	2.28-01	5.46-01
IDAPA TAP EL (lb/hr)					1.66+02	3.33E+01		4.73E+01	2.4E+01		8.33E+01		2.06+03	4.67E+01	9.55+03	5.33E+01	4.67E+01	1.57E+01	1.27E+02	3.83E+01	1.83E+01	1.17E+01	4.67E+01	3.33E+00	2.0E+03		6.67E+01	2.4E+01	8.20E+00	9.13E+01	2.4E+01
Below EL?					Yes	Yes		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 (hours/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	95.00%	95.00%

Nonvolatile Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
95.00%	1,460.0	1.20

Coating Type: Tints, Toners, and Binders

Content Weight %

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	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 Spirits	Toluene (HAP)	Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)
430-01		44.25%			1.00%		1.00%	6.60%	0.60%				0.40%		4.00%		1.00%	2.00%
430-02		40.95%			1.00%		1.00%	1.30%	0.50%			1.00%	0.50%		5.00%		1.00%	2.00%
430-03		74.88%					1.00%		0.70%									2.00%
430-04		60.77%					1.00%		0.60%			1.00%			2.00%		1%	2.00%
430-05		48.64%			1.00%		1.00%		5.80%			1.00%	0.40%		3.00%		1%	21.00%
430-06		44.34%			1.00%		1.00%		3.30%			1.00%	0.40%		4.00%		1%	12.00%
430-07		51.19%			1.00%		1.00%		1.10%				0.20%				1%	4.00%
430-08		49.09%			1.00%		1.00%		1.40%			1.00%	0.40%		5.00%		1%	5.00%
430-09		51.31%					1.00%		4.90%								1%	18.00%
430-10		49.80%			1.00%		1.00%		0.50%				0.40%		2.00%		1%	2.00%
430-11		43.37%			1.00%		1.00%		0.50%			1.00%	0.40%		2.00%		1%	2.00%
430-12		52.71%			1.00%		1.00%		0.60%				0.30%				1%	2.00%
430-13		46.56%			1.00%		1.00%		0.60%			1.00%	0.30%		4.00%		1%	2.00%
430-14		40.53%			1.00%		1.00%		0.60%			1.00%	0.40%		5.00%		1%	2.00%
430-15		42.39%			1.00%		1.00%		0.70%			1.00%	0.50%		5.00%		1%	3.00%
430-16		46.65%			1.00%		1.00%		0.70%			1.00%	0.40%		4.00%		1%	2.00%
430-17		50.93%			1.00%		1.00%		0.50%				0.30%				1%	2.00%
430-18		53.26%			1.00%		1.00%		0.60%				0.30%				1%	2.00%
430-19		54.70%			1.00%		1.00%		0.50%				0.30%		2.00%		1%	2.00%
430-20		51.75%			1.00%		1.00%		0.60%			1.00%	0.30%		2.00%		1%	2.00%
430-21		44.90%			1.00%		1.00%		0.50%			1.00%	0.40%		2.00%		1%	2.00%
Dupont Nason 430-22		51.24%			1.00%	1.00%	1.00%		0.60%				0.30%		2.00%		1%	2.00%
Dupont Nason 430-23		50.94%			1.00%	1.00%	1.00%		0.70%			1.00%	0.40%		4.00%		1%	3.00%
Dupont Nason 430-24		51.17%			1.00%		1.00%		0.50%				0.20%				1%	2.00%
Dupont Nason 430-25		48.38%			1.00%		1.00%		0.60%			1.00%	0.40%		2.00%		1%	2.00%
Dupont Nason 430-26		56.66%					1.00%		0.50%								1%	2.00%
Dupont Nason 430-27		53.83%			1.00%		1.00%		0.50%			1.00%	0.40%		2.00%		1%	2.00%
Dupont Nason 430-28		53.31%			1.00%		1.00%		0.50%		2.00%				5.00%		1%	2.00%
Dupont Nason 430-29		53.11%			1.00%		1.00%		0.50%		0.20%		0.20%		5.00%		1%	2.00%
Dupont Nason 430-30		43.95%			1.00%		1.00%		0.50%			1.00%		1.00%	4.00%		1%	2.00%
Dupont Nason 430-31		44.96%			1.00%		1.00%		0.50%			1.00%		1.00%	4.00%		1%	2.00%
Dupont Nason 430-32		45.72%					1.00%		0.40%			1.00%			3.00%		1%	2.00%
Dupont Nason 430-33		46.88%			1.00%		1.00%		0.50%			1.00%			4.00%		1%	2.00%
Dupont Nason 430-34		45.57%			1.00%		1.00%		1.00%			1.00%			4.00%	1.00%	1%	4.00%
Dupont Nason 430-35		47.16%					1.00%		1.00%			1.00%			4.00%		1%	4.00%
Dupont Nason 430-36		52.81%			1.00%		1.00%		0.50%				0.40%		2.00%		1%	2.00%
Dupont Nason 430-37		46.95%			1.00%		1.00%		0.60%			1.00%	0.30%		4.00%		1%	2.00%
Dupont Nason 430-38		45.07%			1.00%		1.00%		0.50%			1.00%	0.40%		2.00%		1%	2.00%
Dupont Nason 430-39		41.25%			1.00%		1.00%		0.50%			1.00%	0.20%		1.00%		1%	2.00%
Dupont Nason 430-40		40.98%			1.00%		1.00%		0.40%	1.00%		1.00%	0.20%		7.00%		1%	2.00%
Dupont Nason 430-41		47.84%			1.00%		1.00%		0.50%				0.20%				1%	2.00%
Dupont Nason 430-42		50.12%			1.00%		1.00%		1.20%				0.40%				1%	4.00%
Dupont Nason 430-43		42.85%			1.00%		1.00%		0.50%				0.40%		2.00%		1%	2.00%
Dupont Nason 430-44		45.36%			1.00%		1.00%		0.50%				0.40%		3.00%		1%	2.00%
Dupont Nason 430-45		44.64%		1.00%			1.00%		0.20%								1%	1.00%
Dupont Nason 430-46		48.35%			1.00%		1.00%		1.30%				0.40%		3.00%		1%	5.00%
Dupont Nason 430-47		49.62%			1.00%		1.00%		0.40%		1.00%		0.30%		7.00%		1%	2.00%
Dupont Nason 430-48		45.30%					1.00%		1.00%			1.00%		1.00%	4.00%		1%	4.00%
Dupont Nason 430-49		44.68%					1.00%		0.50%			1.00%		1.00%	3.00%		1%	2.00%
Dupont Nason 430-50		56.01%			1.00%		1.00%		0.50%		2.00%	1.00%	0.20%	1.00%	6.00%		1%	2.00%
Dupont Nason 430-51		51.59%			1.00%		1.00%		0.40%		1.00%		0.30%		8.00%		1%	2.00%
Dupont Nason 430-52		34.84%					1.00%		7.90%								1%	28.00%
Dupont Nason 430-53		55.78%					1.00%		0.80%								1%	3.00%
Dupont Nason 430-54		54.11%			1.00%		1.00%		0.50%		2.00%		0.20%				1%	2.00%
Dupont Nason 430-55		47.70%			1.00%		1.00%		0.60%			1.00%			3.00%		1%	3.00%
Dupont Nason 430-56		52.74%			1.00%		1.00%		0.60%				0.30%				1%	2.00%

Content lb/gal

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	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 Spirits	Toluene (HAP)	Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)
430-01	8.14	3.60	0.57	0.33	0.08	0.00	0.08	0.54	0.05	0.00	0.00	0.00	0.03	0.00	0.33	0.00	0.08	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	0.08	0.16
430-03	13.30	9.96	0.36	0.27	0.00	0.00	0.13	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
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	2.67	1.86	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	1.86
430-06	8.35	3.70	1.64	1.00	0.08	0.00	0.08	0.00	0.28	0.00	0.00	0.08	0.03	0.00	0.33	0.00	0.08	1.00
430-07	9.10	4.66	0.48	0.36	0.09	0.00	0.09	0.00	0.10	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.09	0.36
430-08	8.81	4.32	1.04	0.44	0.09	0.00	0.09	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	4.72	2.11	1.66	0.00	0.00	0.09	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	1.66
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	3.55	0.40	0.16	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.08	0.03	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	0.08	0.00	0.05	0.00	0.00	0.08	0.02	0.00	0.33	0.00	0.08	0.17
430-14	7.95	3.22	0.64	0.40	0.08	0.00	0.08	0.00	0.05	0.00	0.00	0.08	0.03	0.00	0.40	0.00	0.08	0.16
430-15	7.97	3.38	0.73	0.40	0.08	0.00	0.08	0.00	0.06	0.00	0.00	0.08	0.04	0.00	0.40	0.00	0.08	0.24
430-16	8.86	4.21	0.61	0.35	0.09	0.00	0.09	0.00	0.06	0.00	0.00	0.09	0.03	0.00	0.35	0.00	0.09	0.17
430-17	8.62	4.39	0.24	0.17	0.09	0.00	0.09	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.09	0.17
430-18	8.50	4.58	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
430-19	8.95	4.73	0.42	0.17	0.09	0.00	0.09	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.17	0.00	0.09	0.17
430-20	8.56	4.42	0.42	0.17	0.09	0.00	0.09	0.00	0.05	0.00	0.00	0.00	0.03	0.00	0.17	0.00	0.09	0.17
430-21	8.16	3.66	0.40	0.16	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.08	0.03	0.00	0.16	0.00	0.08	0.16
Dupont Nason 43(	8.54	4.38	0.42	0.17	0.09	0.09	0.09	0.00	0.05	0.00	0.00	0.00	0.03	0.00	0.17	0.00	0.09	0.17
Dupont Nason 43(	8.48	4.32	0.69	0.34	0.08	0.08	0.08	0.00	0.06	0.00	0.00	0.08	0.03	0.00	0.34	0.00	0.08	0.25
Dupont Nason 43(	8.44	4.32	0.23	0.17	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.08	0.17
Dupont Nason 43(	8.35	4.04	0.42	0.17	0.08	0.00	0.08	0.00	0.05	0.00	0.00	0.08	0.03	0.00	0.17	0.00	0.08	0.17
Dupont Nason 43(	8.82	5.00	0.22	0.18	0.00	0.00	0.09	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.18
Dupont Nason 43(	8.78	4.73	0.43	0.18	0.09	0.00	0.09	0.00	0.04	0.00	0.00	0.09	0.04	0.00	0.18	0.00	0.09	0.18
Dupont Nason 43(	9.22	4.92	0.69	0.46	0.09	0.00	0.09	0.00	0.05	0.00	0.18	0.00	0.00	0.00	0.46	0.00	0.09	0.18
Dupont Nason 43(	9.26	4.92	0.71	0.46	0.09	0.00	0.09	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.46	0.00	0.09	0.19
Dupont Nason 43(	8.07	3.55	0.52	0.32	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.08	0.00	0.08	0.32	0.00	0.08	0.16
Dupont Nason 43(	8.10	3.64	0.53	0.32	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.08	0.00	0.08	0.32	0.00	0.08	0.16
Dupont Nason 43(	8.21	3.75	0.44	0.25	0.08	0.00	0.08	0.00	0.03	0.00	0.00	0.08	0.00	0.00	0.25	0.00	0.08	0.16
Dupont Nason 43(	8.32	3.90	0.54	0.33	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.08	0.00	0.00	0.33	0.00	0.08	0.17
Dupont Nason 43(	8.35	3.81	0.75	0.33	0.08	0.00	0.08	0.00	0.08	0.00	0.00	0.08	0.00	0.00	0.33	0.08	0.08	0.33
Dupont Nason 43(	8.42	3.97	0.76	0.34	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.08	0.00	0.00	0.34	0.00	0.08	0.34
Dupont Nason 43(	8.51	4.49	0.42	0.17	0.09	0.00	0.09	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.17	0.00	0.09	0.17
Dupont Nason 43(	8.25	3.87	0.57	0.33	0.08	0.00	0.08	0.00	0.05	0.00	0.00	0.08	0.02	0.00	0.33	0.00	0.08	0.17
Dupont Nason 43(	8.12	3.86	0.40	0.16	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.08	0.03	0.00	0.16	0.00	0.08	0.16
Dupont Nason 43(	8.00	3.30	0.30	0.16	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.08	0.02	0.00	0.08	0.00	0.08	0.16
Dupont Nason 43(	7.87	3.23	0.76	0.55	0.08	0.00	0.08	0.00	0.03	0.08	0.00	0.08	0.02	0.00	0.55	0.00	0.08	0.16
Dupont Nason 43(	8.37	4.00	0.23	0.17	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.08	0.17
Dupont Nason 43(	8.44	4.23	0.47	0.34	0.08	0.00	0.08	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.08	0.34
Dupont Nason 43(	8.15	3.49	0.40	0.16	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.16	0.00	0.08	0.16
Dupont Nason 43(	8.23	3.73	0.49	0.25	0.08	0.00	0.08	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.25	0.00	0.08	0.16
Dupont Nason 43(	8.37	3.92	0.11	0.08	0.00	0.08	0.08	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08
Dupont Nason 43(	8.39	4.10	0.81	0.42	0.08	0.00	0.08	0.00	0.11	0.00	0.00	0.00	0.03	0.00	0.25	0.00	0.08	0.42
Dupont Nason 43(	8.72	4.33	0.85	0.61	0.09	0.00	0.09	0.00	0.03	0.00	0.09	0.00	0.03	0.00	0.61	0.00	0.09	0.17
Dupont Nason 43(	8.34	3.78	0.75	0.33	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.08	0.00	0.08	0.33	0.00	0.08	0.33
Dupont Nason 43(	8.13	3.63	0.45	0.24	0.00	0.00	0.08	0.00	0.04	0.00	0.00	0.08	0.00	0.08	0.24	0.00	0.08	0.16
Dupont Nason 43(	9.52	5.33	0.83	0.57	0.10	0.00	0.10	0.00	0.05	0.00	0.19	0.10	0.02	0.10	0.57	0.00	0.10	0.19
Dupont Nason 43(	8.92	4.60	0.95	0.71	0.09	0.00	0.09	0.00	0.04	0.00	0.09	0.00	0.03	0.00	0.71	0.00	0.09	0.18
Dupont Nason 43(	7.96	2.77	2.86	2.23	0.00	0.00	0.08	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	2.23
Dupont Nason 43(	10.51	5.86	0.40	0.32	0.00	0.00	0.11	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.32
Dupont Nason 43(	9.32	5.04	0.26	0.19	0.09	0.00	0.09	0.00	0.05	0.00	0.19	0.00	0.02	0.00	0.00	0.00	0.09	0.19

Coating Type: Tints, Toners, and Binders

Dupont Nason 43C	8.79	4.19	0.60	0.26	0.09	0.00	0.09	0.00	0.07	0.00	0.00	0.08	0.00	0.00	0.26	0.00	0.09	0.26
Dupont Nason 43C	8.54	4.50	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
Maximum (lb/gal)	**13.30**	**9.96**	**2.66**	**2.23**	**0.10**	**0.09**	**0.13**	**0.54**	**0.53**	**0.08**	**0.19**	**0.10**	**0.04**	**0.10**	**0.71**	**0.08**	**0.11**	**2.23**
Emission Rate (lb/hr)		1.2E-02	5.7E-01	4.6E-01	1.9E-02	1.7E-02	2.7E-02	7.5E-04	1.3E-01	1.6E-02	3.8E-02	2.1E-02	8.0E-03	1.9E-02	1.4E-01	1.7E-02	2.1E-02	4.6E-01
IDAPA TAP EL (lb/hr)							4.73E+01	2.3E-01	2.9E+01			1.09E+02	3.33E+00	9.50E+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

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: Reducer

Content Weight %

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	Butyl Acetate	Stoddard Solvent Mineral Spirits	Trimethyl Benzene	VM&P Naphtha
BASF UR50		0%			65.00%	15.00%	2.00%	5.00%

Content lb/gal

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	Butyl Acetate	Stoddard Solvent Mineral Spirits	Trimethyl Benzene	VM&P Naphtha
BASF UR50	7.28	0.00	0.00	0.00	4.73	1.09	0.15	0.36
Maximum (lb/gal)	**7.28**	**0.00**	**0.00**	**0.00**	**4.73**	**1.09**	**0.15**	**0.36**
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**
IDAPA TAP EL (lb/hr)					4.73E+01	3.50E+01	8.20E+00	9.13E+01
Below EL?					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: Activators, Reducers, Solvents, and Additives

Coating Material	Density	Solids (particulate)	HAP_{WT}	HAP_{MAX}	Acetone	Aromatic Hydrocarbon	Butyl Acetate	n-Butyl Alcohol	Cyclohexane	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Alcohol	Ethylene Glycol Monobutyl 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	VM&P Naphtha	Xylene (HAP)
Content Weight %																									
Dupont Nason 44 1-02		0.00%				1.00%				1.00%				1.00%	1.00%	1.00%			0.50%		1.00%	13.00%			
Dupont Nason 44 1-01		0.00%				2.00%				0.20%			2.00%			1.00%			40.00%		1.00%	12.00%	1.00%		
Dupont Nason 44 1-02		0.00%				1.00%			1.00%					1.00%	2.00%	1.00%			0.50%		1.00%	10.00%		1%	
Dupont Nason 44 1-03		0.00%				1.00%				0.40%				1.00%					0.25%		1.00%	7.00%	0.20%		
Dupont Nason 44 1-05		0.00%			1.00%					0.60%	1.00%			1.00%	1.00%							23.00%			2.00%
Dupont Nason 44 1-21		0.00%			1.00%		1.00%			1.30%	1.00%			1.00%	1.00%							10.00%			5.00%
Dupont Nason 44 1-22		0.00%			1.00%	1.00%	1.00%						5.00%	1.00%	1.00%							10.00%	2.00%		
Dupont Nason 44 1-26		0.00%					1.00%			1.30%	1.00%		12.00%					1.00%				9.30%		1.00%	5.00%
Dupont Nason 44 1-43		2.23%						50.00%				1.00%								1.00%					
Dupont Nason 44 1-49		0.00%									1.00%		20.00%												
Dupont Nason 44 1-50		0.00%			1.00%																				
Dupont Nason 44 1-42		0.00%			1.00%		1.00%										1.00%								
Dupont Nason 44 1-06		0.00%			1.00%																				
Dupont Nason 44 1-70		0.00%			1.00%				1.00%					1.00%											

Coating Material	Density	Solids (particulate)	HAP_{WT}	HAP_{MAX}	Acetone	Aromatic Hydrocarbon	Butyl Acetate	n-Butyl Alcohol	Cyclohexane	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Alcohol	Ethylene Glycol Monobutyl 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	VM&P Naphtha	Xylene (HAP)
Content Total																									
Dupont Nason 44	5.42	0.00	1.00	0.83	0.00	0.26	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.04	0.00	0.00	0.83	0.00	0.00	0.00
Dupont Nason 44	5.56	0.00	3.49	2.67	0.00	2.13	0.00	0.00	0.00	0.01	0.00	0.00	0.13	0.00	0.00	0.07	0.00	0.00	2.67	0.00	0.07	0.00	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	6.48	0.00	0.48	0.48	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	0.46	0.01	0.00	0.00
Dupont Nason 44	6.53	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	1.58	1.07	0.07	0.00	0.07	0.00	0.00	0.00	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	1.04	0.07	0.07	0.07	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.67	0.00	0.07	0.07
Dupont Nason 44	6.86	0.15	0.00	0.00	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
Dupont Nason 44	7.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	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	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Nason 44	6.78	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	0.06	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)	**6.79**	**0.15**	**3.49**	**2.67**	**0.09**	**0.13**	**0.07**	**5.49**	**0.06**	**0.13**	**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**	**0.27**
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**	**4.6E-03**	**1.3E-02**	**2.9E-01**	**2.9E-02**	**1.9E-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		1.66E+02	1.20E+01	5.53E+01	1.57E+01	3.53E+01	3.33E+00	6.70E-02	3.50E+01	2.5E+01	5.20E+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

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)
65.00%	1,460.0	1.20

Coating Type: Hardener

Content Weight %

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	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_{TOT}	HAP_{MAX}	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
Maximum (lb/gal)	**8.87**	**6.39**	**1.26**	**1.20**	**0.09**	**2.95**	**0.05**	**0.42**	**0.02**	**0.09**	**1.22**	**0.07**	**0.02**	**1.66**	**0.41**	**1.20**	**0.83**
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
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
Below EL?						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: Urethanes

Coating Material	Density	Solids (particulates)	HAP_{TOT}	HAP_{EXT}	Acetone	Aluminum - Metal & Oxide	Antimony & Compounds (particulate) (HAP)	Aromatic Hydrocarbon	Barium (soluble) (particulate)	Butyl Acetate	n-Butyl Alcohol	Carbon Black (particulate)	Chromium III (particulate) (HAP)	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Acetate	Ethylene Glycol Monobutyl Ether	Hexamethylene Diisocyanate (HDI)(HAP)	Kaolin (particulate)	Methyl n-Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Propylene Glycol Monomethyl Ether Acetate	Silica Amorphous (particulate)	Silica Crystalline Quartz (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)
Dupont Centari 5000 3333		25.01%						1.00%		1.00%																	7%		2.00%
Dupont Centari 5000 3850		1.00%																											
Dupont Centari 5000 5014		52.28%								1.00%		0.50%		0.20%						1.00%									
Dupont Centari 5000 5024		71.79%								1.00%												1.00%							
Dupont Centari 5000 5034		70.04%												0.10%						1.00%		1.00%							
Dupont Centari 5000 5044		48.87%						1.00%		1.00%				0.20%						1.00%		1.00%					2.00%		
Dupont Centari 5000 5054		48.62%								1.00%		4.10%		1.10%						1.00%						3.00%			
Dupont Centari 5000 5064		44.38%								1.00%										1.00%						1.00%	2.00%		
Dupont Centari 5000 5074		48.62%						1.00%		1.00%										1.00%		1.00%					1.00%		
Dupont Centari 5000 3091		53.24%								1.00%										1.00%		1.00%							
Dupont Centari 5000 5194		74.39%								1.00%										1.00%		1.00%							
Dupont Centari 5000 5124		73.78%					1.50%	1.00%	0.50%	1.00%										1.00%		1.00%							
Dupont Centari 5000 5134		42.58%						1.00%	1.00%	1.00%										1.00%		1.00%					2.00%		
Dupont Centari 5000 5144		47.19%								1.00%										1.00%									
Dupont Centari 5000 5154		66.36%																		1.00%		1.00%					2.00%		
Dupont Centari 5000 5164		77.59%				1.00%				1.00%										1.00%		1.00%		1.00%					
Dupont Centari 5000 5184		52.60%						1.00%		1.00%				0.40%						1.00%		1.00%					3.00%		1.00%
Dupont Centari 5000 5194		49.58%						1.00%		1.00%										1.00%		1.00%					3.00%		
Dupont Centari 5000 5234		51.06%				35.00%		1.00%		1.00%												1.00%					4.00%		
Dupont Centari 5000 5254		52.70%						1.00%		1.00%										1.00%							1.00%		
Dupont Centari 5000 5274		44.06%							1.00%	1.00%										1.00%		1.00%							
Dupont Centari 5000 5284		48.94%								1.00%										1.00%		1.00%					3.00%		
Dupont Centari 5000 5294		51.47%							1.00%											1.00%		1.00%							
Dupont Centari 5000 3391		72.17%					8.00%			1.00%										1.00%		1.00%					1.00%		
Dupont Centari 5000 5434		48.81%						1.00%												1.00%									
Dupont Centari 5000 5454		54.32%						1.00%		1.00%										1.00%							2.00%		
Dupont Centari 5000 5514		52.75%								1.00%				0.20%						1.00%		1.00%							
Dupont Centari 5000 5684		52.60%								1.00%				0.10%						1.00%		1.00%							
Dupont Centari 5000 5774		54.34%						1.00%		1.00%				0.10%						1.00%	1.00%						2.00%		
Dupont Centari 5000 5804		49.62%				34.00%		1.00%		1.00%												1.00%					2.00%		
Dupont Centari 5000 7714		75.25%												0.40%		2.00%				1.00%									2.00%
Dupont Centari 5000 7764		68.54%												0.40%		4.00%				1.00%									2.00%
Dupont Centari 5000 7784		93.58%												0.20%															
Dupont Centari 5000 7854		80.00%														1.00%				1.00%									
Dupont Centari 5000 7965		98.79%								1.00%						1.00%	6.00%	0.10%											
Dupont Centari 5000 8893		0.00%														1.00%	40.00%				1.00%								
Dupont Centari 5000 8783		0.00%															20.00%				1.00%								
Dupont Centari 5000 8905		65.00%																0.20%											
Dupont Centari 5000 8835		93.67%												0.20%		1.00%													
Dupont Centari 5000 8836		71.30%							1.00%					0.40%		1.00%	10.00%		1.00%		1.00%								1.00%
Dupont Centari 5000 8832		0.00%														1.00%				1.00%	1.00%								
Dupont Centari 5000 8886		5.00%																											
Dupont Centari 5000 VOF 7050		56.89%													1.00%					1.00%									
Dupont Imron 5000 (blue)		31.40%		1.00%										0.20%								1.00%				3.00%			
Dupont Imron 524U		47.75%				38.00%		1.00%			2.00%			1.10%								1.00%			0.30%				4.00%
Dupont Imron 525U		49.43%				34.50 %				1.00%	3.00%			1.10%								1.00%			0.30%				4.00%
Dupont Imron 532U		51.08%				26.50 %		1.00%		1.00%	2.00%											1.00%					4.00%		
Dupont Imron 523U		46.34%				33.00%		1.00%			3.00%			1.10%								1.00%			0.20%				4.00%
Dupont Imron 531U		35.15%										0.10%		0.20%		0.50%						1.00%				3.00%			
Dupont Imron 533U		57.19%					5.00%							0.10%		1.00%						1.00%				3.00%			
Dupont Imron 535U		59.95%												0.20%		1.00%						1.00%				4.00%			
Dupont Imron 534U		42.63%												0.20%		1.00%						1.00%				11.00%			
Dupont Imron 535U		57.09%								1.00%		1.50%		0.20%		1.00%						1.00%				3.00%			3.00%
Dupont Imron 536U		43.28%												0.20%		1.00%						1.00%				3.00%			
Dupont Imron 537U		49.16%					5.00%						4.00%	2.00%		1.00%						1.00%				4.00%			
Dupont Imron 538U		42.81%												0.20%		1.00%						1.00%				4.00%			
Dupont Imron 540U		42.92%												0.20%		1.00%						1.00%				4.00%			
Dupont Imron 541U		43.59%							5.00%					0.20%		1.00%						1.00%				4.00%			1.00%
Dupont Imron 543U		42.47%												0.20%		1.00%						1.00%				4.00%			
Dupont Imron 544U		41.77%												0.20%		1.00%						1.00%				4.00%			
Dupont Imron 547U		57.19%					5.00%		5.00%					0.10%		1.00%						1.00%				2.50%			
Dupont Imron 549U		49.54%												0.20%		1.00%						1.00%				3.00%			
Dupont Imron 550U		37.08%				2.00%										1.00%						1.00%				3.00%		1.00%	
Dupont Imron 553U		37.91%												0.20%		1.00%						1.00%				2.00%			
Dupont Imron 554U		52.90%												0.10%		1.00%						1.00%	5.00%			5.00%			
Dupont Imron 555U		54.20%												0.10%		1.00%						1.00%	5.00%			3.00%			
Dupont Imron 556U		47.54%												0.20%		1.00%						1.00%				2.00%			
Dupont Imron 557U		28.14%												0.40%		1.00%						1.00%				3.00%			1.00%
Dupont Imron 558U		38.48%												0.20%		1.00%						1.00%				3.00%			
Dupont Imron 559U		38.01%												0.50%		1.00%				1.00%		1.00%				3.00%			2.00%
Dupont Imron 560U		46.02%												0.20%		1.00%						1.00%				2.00%			
Dupont Imron 561U		38.52%								1.00%				0.80%		1.00%						1.00%				3.00%			3.00%
Dupont Imron 563U		35.03%								1.00%				1.00%		1.00%						1.00%				3.00%		1.00%	3.00%
Dupont Imron 564U		39.53%												0.20%		1.00%						1.00%				3.00%		1.00%	
Dupont Imron 565U		36.42%												0.20%		1.00%						1.00%				3.00%			
Dupont Imron 567U		35.81%												0.20%		1.00%						1.00%				3.00%			
Dupont Imron 568U		37.62%												0.20%		1.00%						1.00%				3.00%			
Dupont Imron 570U		35.47%								1.00%				0.20%		1.00%				1.00%		1.00%				3.00%			
Dupont Imron 571U		35.06%												0.10%		1.00%						1.00%				3.00%		1.00%	
Dupont Imron 572U		33.44%														1.00%						1.00%				5.00%		1.00%	

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{EXT}	Acetone	Aluminum - Metal & Oxide	Antimony & Compounds (particulate) (HAP)	Aromatic Hydrocarbon	Barium (soluble) (particulate)	Butyl Acetate	n-Butyl Alcohol	Carbon Black (particulate)	Chromium III (particulate) (HAP)	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Acetate	Ethylene Glycol Monobutyl Ether	Hexamethylene Diisocyanate (HDI)(HAP)	Kaolin (particulate)	Methyl n-Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Propylene Glycol Monomethyl Ether Acetate	Silica Amorphous (particulate)	Silica Crystalline Quartz (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)
Dupont Centari 5C	7.97	1.82	0.15	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.15
Dupont Centari 5C	8.19	0.08	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.22	4.37	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	14.20	10.18	0.05	0.05	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	14.71	12.46	0.06	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	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.55	4.27	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.28	4.02	0.28	0.18	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.28	3.64	0.09	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	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.58	4.17	0.09	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	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.19	4.89	0.09	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	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	15.62	13.27	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	15.53	11.79	0.23	0.23	0.00	0.00	0.23	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.60	3.88	0.17	0.17	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	0.00	0.00	0.17	0.00	0.00
Dupont Centari 5C	8.48	3.84	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	13.47	9.29	0.25	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	0.12	0.00	0.00	0.00	0.00	0.25	0.00	0.00
Dupont Centari 5C	14.88	11.01	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	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.41	4.45	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00
Dupont Centari 5C	8.27	4.22	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.53	4.75	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	0.00	0.00	0.00	0.00	0.57	0.00	0.00
Dupont Centari 5C	8.55	5.03	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.51	3.89	0.26	0.26	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	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.27	4.49	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.17	4.49	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.43	4.89	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	14.49	10.68	1.44	1.32	0.00	0.00	1.23	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.30	4.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Centari 5C	8.32	5.08	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.57	5.05	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Centari 5C	8.58	5.27	0.01	0.01	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	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.59	3.79	0.59	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	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 Centari 5C	8.18	4.58	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Centari 5C	8.65	4.72	0.21	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00
Dupont Centari 5C	8.77	5.19	0.21	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00
Dupont Centari 5C	8.68	4.48	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.24	4.52	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.24	5.24	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	7.95	5.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Centari 5C	8.79	4.60	0.87	0.87	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	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.44	5.07	0.11	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	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.57	4.93	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Centari 5C	13.89	8.99	0.23	0.14	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.57	5.08	0.47	0.47	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	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.18	5.41	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Centari 5C	8.29	4.87	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Imron 5000	8.65	3.61	0.26	0.26	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	0.00	0.00	0.00	0.00	0.00
Dupont Imron 520	8.94	4.53	0.44	0.25	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	0.00	0.00	0.00	0.00	0.00
Dupont Imron 521	8.79	5.43	0.65	0.00	0.00	0.00	1.22	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	0.00	0.00
Dupont Imron 522	8.32	4.79	0.00	0.00	0.00	2.63	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dupont Imron 523	8.82	4.00	0.44	0.34	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	0.00	0.00	0.00	0.00	0.00
Dupont Imron 531	8.39	2.64	0.27	0.25	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	0.00	0.00	0.00	0.00	0.00
Dupont Imron 532	11.

Coating Type: Urethanes

EKPA TAP EL (lb/hr)	1.99E-03	6.67E-06	3.3E-02	8.3E-03	4.73E-04	1.40E-04	8.2E-06	3.3E-03	2.9E-04	4.88E-04	8.0E-03	1.32E-03	1.57E-04	3.33E-04	6.67E-03	4.76E-03	8.50E-04	2.5E-04	8.30E-06	4.72E-04	3.9E-04
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 (lb/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	91.00%	94.00%

Maximum Reaction Factor (unitless)	Annual Usage Rate (gal/yr)	Safety Factor (unitless)
94.00%	1,460.0	1.25

Coating Type: Rubberized Undercoating

Content Weight %

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	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 Spirits	Toluene (HAP)	VM&P Naphtha	Xylene (HAP)
Dupont 492-01												1.00%			1.00%	18.00%	1.00%	
Dupont 492-51						1.00%	0.70%				13.00%	1.00%		0.10%	1.00%	13.00%		
3M Body Schutz						1.00%			5.00%		30.00%				5.00%	0.00%		
SW DUPLI-COLOR Undercoat						12.00%		0.50%				19.00%	2.00%		10.00%			3.00%
DURO KOTE Undercoat															15.00%	15.00%	15.00%	
Quick Dry Rubberized					30.00%	10.00%	5.00%	1.00%		5.00%	13.00%		2.00%	1.00%		5.00%	5.00%	2.00%
Transtar 4363-F					30.00%	2.33%	5.00%	1.00%						1.00%		20.00%	2.85%	1.57%

Content lb/gal

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	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 Spirits	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	0.19	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-COLO	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	1.22	0.00
Quick Dry Rubber	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
Transtar 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
Maximum (lb/gal)	**9.52**	**0.00**	**2.26**	**2.00**	**2.79**	**0.93**	**0.46**	**0.09**	**0.33**	**0.46**	**2.00**	**1.40**	**0.19**	**0.09**	**1.22**	**1.71**	**1.22**	**0.22**
Emission Rate (lb/hr)		**0.0E+00**	**4.5E-01**	**4.0E-01**	**5.5E-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)					1.10E+02	8.67E-01	2.3E-01	2.9E+01	1.25E+02	1.09E+02	1.20E+01	1.33E-01	1.72E+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)
65.00%	1,460.0	1.20

Coating Type: Bed Liner "Iso" Component

Content Weight %

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	Hexamethylene Diisocyanate (HDI)(HAP)	Methylene Diisocyanate (MDI)(HAP)
BASF XS-310						39.00%
Vortex						60.00%
Rhino 2170 A						60.00%
Monstaliner					0.10%	
Morton 999623					0.35%	
Speedliner 1000						9.66%
Speedliner Primer 450 & 460						11.09%
Langeman 700 A						15.00%
Pro-Tex Black					0.32%	

Content lb/gal

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	Hexamethylene Diisocyanate (HDI)(HAP)	Methylene Diisocyanate (MDI)(HAP)
BASF XS-310	9.80	0.00	3.82	3.82	0.00	3.82
Vortex	8.12	0.00	4.87	4.87	0.00	4.87
Rhino 2170 A	10.33	0.00	6.20	6.20	0.00	6.20
Monstaliner	9.77	0.00	0.01	0.01	0.01	0.00
Morton 999623	9.58	0.00	0.03	0.03	0.03	0.00
Speedliner 1000	8.33	0.00	0.80	0.80	0.00	0.80
Speedliner Primer	8.33	0.00	0.92	0.92	0.00	0.92
Langeman 700 A	9.10	0.00	1.37	1.37	0.00	1.37
Pro-Tex Black	9.50	0.00	0.03	0.03	0.03	0.00
Maximum (lb/gal)	**10.33**	**0.00**	**6.20**	**6.20**	**0.03**	**6.20**
Emission Rate (lb/hr)		**0.0E+00**	**1.2E+00**	**1.2E+00**	**1.0E-03**	**1.2E+00**
IDAPA TAP EL (lb/hr)					2.0E-03	3.0E-03
Below EL?					Yes	**No**

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: Bed Liner B Component

Content Weight %

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	Acetone	Butyl Acetate	Carbon Black (particulate)	Diethyl toluene diamine (DETA)	Dipropylene Glycol Methyl Ether	Methyl Isoamyl Ketone	Polyether Polyols	Silica Crystalline Quartz (particulate)	Xylene (HAP)
BASF XS-350 Resin								25.00%			70.00%		
Rhino 2170 B								5.00%	60.00%				
Rhino Duraspray B													
Langeman Reflex Colorant								20.00%			80.00%		
Langeman 700 B								20.00%			80.00%		
Langeman Reflex 700RA											100.00%		
Pro-Tex Black		73.80%			10.00%	7.00%	1.50%			5.00%		1.50%	1.50%

Content lb/gal

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	Acetone	Butyl Acetate	Carbon Black (particulate)	Diethyl toluene diamine (DETA)	Dipropylene Glycol Methyl Ether	Methyl Isoamyl Ketone	Polyether Polyols	Silica Crystalline Quartz (particulate)	Xylene (HAP)
BASF XS-350 Res	8.39	0.00	0.00	0.00	0.00	0.00	0.00	2.10	0.00	0.00	5.87	0.00	0.00
Rhino 2170 B	8.83	0.00	0.00	0.00	0.00	0.00	0.00	0.44	5.30	0.00	0.00	0.00	0.00
Rhino Duraspray E	8.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Langeman Reflex	8.58	0.00	0.00	0.00	0.00	0.00	0.00	1.72	0.00	0.00	6.86	0.00	0.00
Langeman 700 B	8.58	0.00	0.00	0.00	0.00	0.00	0.00	1.72	0.00	0.00	6.86	0.00	0.00
Langeman Reflex	8.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.41	0.00	0.00
Pro-Tex Black	10.24	7.56	0.15	0.15	1.02	0.72	0.15	0.00	0.00	0.51	0.00	0.15	0.15
Maximum (lb/gal)	**10.24**	**7.56**	**0.15**	**0.15**	**1.02**	**0.72**	**0.15**	**2.10**	**5.30**	**0.51**	**8.41**	**0.15**	**0.15**
Emission Rate (lb/hr)		**8.8E-03**	**3.1E-02**	**3.1E-02**	**2.0E-01**	**1.4E-01**	**2.2E-04**	**4.2E-01**	**1.1E+00**	**1.0E-01**	**1.7E+00**	**2.2E-04**	**3.1E-02**
IDAPA TAP EL (lb/hr)					1.19E+02	4.73E+01	2.3E-01		4.00E+01	1.60E+01		6.7E-03	2.9E+01
Below EL?					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: Other

Content Weight %

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	Acetone	Aluminum - Metal & Oxide	Antimony & Compounds (particulate) (HAP)	Aromatic Hydrocarbon	Barium (insoluble) (particulate)	Butyl Acetate	n-Butyl Alcohol	Carbon Black (particulate)	Chromium III (particulate) (HAP)	Ethyl Benzene (HAP)	Ethyl Acetate	Methyl n-Amyl Ketone	Propylene Glycol Monomethyl Ether Acetate	Silica Amorphous (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)

Content lb/gal

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	Acetone	Aluminum - Metal & Oxide	Antimony & Compounds (particulate) (HAP)	Aromatic Hydrocarbon	Barium (insoluble) (particulate)	Butyl Acetate	n-Butyl Alcohol	Carbon Black (particulate)	Chromium III (particulate) (HAP)	Ethyl Benzene (HAP)	Ethyl Acetate	Methyl n-Amyl Ketone	Propylene Glycol Monomethyl Ether Acetate	Silica Amorphous (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	Trimethyl Benzene	VM&P Naphtha	Xylene (HAP)
0		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	0.00	0.00
0		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	0.00	0.00
0		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	0.00	0.00
0		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	0.00	0.00
0		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	0.00	0.00
Maximum (lb/gal)	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	0.00	0.00	0.00
Emission Rate (lb/hr)		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
IDAPA TAP EL (lb/hr)					1.19E+02	6.67E-01	3.3E-02		3.3E-02	4.73E+01	1.00E+01	2.3E-01	3.3E-02	2.9E+01	9.33E+01	1.67E+01		6.67E-01	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

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)
65.00%	1,460.0	1.20

Coating Type: Other

Content Weight %

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	Acetone	n-Amyl Acetate	Aromatic Hydrocarbon	Butyl Acetate	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Acetate	Ethylene Glycol Monobutyl Ether	Hexamethylene Diisocyanate (HDI)(HAP)	Isophorone Diisocyanate	Methyl n-Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isobutyl Ketone (MIBK)(HAP)	Propionic Acid	Propylene Glycol Monomethyl Ether Acetate	Toluene (HAP)	Trimethyl Benzene	Xylene (HAP)

Content lb/gal

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	Acetone	n-Amyl Acetate	Aromatic Hydrocarbon	Butyl Acetate	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Acetate	Ethylene Glycol Monobutyl Ether	Hexamethylene Diisocyanate (HDI)(HAP)	Isophorone Diisocyanate	Methyl n-Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isobutyl Ketone (MIBK)(HAP)	Propionic Acid	Propylene Glycol Monomethyl Ether Acetate	Toluene (HAP)	Trimethyl Benzene	Xylene (HAP)
0		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	0.00
0		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	0.00
0		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	0.00
0		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	0.00
0		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	0.00
Maximum (lb/gal)	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	0.00	0.00
Emission Rate (lb/hr)		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
IDAPA TAP EL (lb/hr)					1.19E+02	3.53E+01		4.73E+01	2.9E+01		9.33E+01		2.9E-03	6.6E-03	1.57E+01	3.93E+01	1.37E+01	2.0E+00		2.5E+01	8.20E+00	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 (hrs/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	85.00%	98.00%

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

Coating Type: Other

Content Weight %

Coating Material	Density	Solids (particulate)	HAP_{tot}	HAP_{max}	Acetone	Aromatic Hydrocarbon	Barium Sulfate	Butyl Acetate	n-Butyl Alcohol	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Alcohol	Ethylene Glycol Monobutyl Ether	Heptane	Isopropyl Alcohol (IPA)	Methyl n-Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isobutyl Ketone (MIBK)(HAP)	Phosphoric Acid Salt	Silica Crystalline Quartz (particulate)	Styrene (HAP)	Toluene (HAP)	VM&P Naphtha	Xylene (HAP)

Content (lb/gal)

Coating Material	Density	Solids (particulate)	HAP_{tot}	HAP_{max}	Acetone	Aromatic Hydrocarbon	Barium Sulfate	Butyl Acetate	n-Butyl Alcohol	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethyl Alcohol	Ethylene Glycol Monobutyl Ether	Heptane	Isopropyl Alcohol (IPA)	Methyl n-Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isobutyl Ketone (MIBK)(HAP)	Phosphoric Acid Salt	Silica Crystalline Quartz (particulate)	Styrene (HAP)	Toluene (HAP)	VM&P Naphtha	Xylene (HAP)
0		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	0.00	0.00	0.00	0.00
0		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	0.00	0.00	0.00	0.00
0		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	0.00	0.00	0.00	0.00
0		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	0.00	0.00	0.00	0.00
0		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	0.00	0.00	0.00	0.00
Maximum (lb/gal)	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	0.00	0.00	0.00	0.00	0.00
Emission Rate (lb/hr)		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
IDAPA TAP EL (lb/hr)					1.16E+02			4.73E+01	8.00E+01	2.3E-01	2.9E+01			1.25E+02		1.02E+02	6.53E+01	1.57E+01	3.93E+01	1.77E+01	6.70E-02	6.7E-03	6.67E+00	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	Yes	Yes	Yes

Daily Use Rates (lb/day)	Averaging Period (hr/day)	Transfer Efficiency (%)	Filter Control Efficiency (%)
4.00	24	65.00%	94.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
65.00%	1,460.0	1.20

Coating Type: Other

Content Weight %

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	Acetone	Aromatic Hydrocarbon	Barium Sulfate	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethylene Glycol Monobutyl Ether	Methyl n-Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isobutyl Ketone (MIBK)(HAP)	Naphthalene (HAP)	Silica Crystalline Quartz (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	VM&P Naphtha	Xylene (HAP)
3		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
3		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
3		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
0		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
0		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

Content lb/gal

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	Acetone	Aromatic Hydrocarbon	Barium Sulfate	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Ethyl 3-Ethoxy Propionate	Ethylene Glycol Monobutyl Ether	Methyl n-Amyl Ketone	Methyl Ethyl Ketone (MEK)(HAP)	Methyl Isobutyl Ketone (MIBK)(HAP)	Naphthalene (HAP)	Silica Crystalline Quartz (particulate)	Stoddard Solvent Mineral Spirits	Toluene (HAP)	VM&P Naphtha	Xylene (HAP)
3		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
3		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
3		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
0		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
0		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
Maximum (lb/gal)	**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**	**0.00**
Emission Rate (lb/hr)		**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**0.0E+00**
IDAPA TAP EL (lb/hr)					1.19E+02			4.73E+01	2.3E-01	2.9E+01			1.57E+01	3.83E+01	1.37E+01	3.33E+00	6.7E-03	3.50E+01	2.5E+01	9.13E+01	2.3E+01
Below EL?					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	55.00%	98.00%

Isocyanate Reaction Factor (ratio)	Annual Usage Rate (gal/yr)	Safety Factor (ratio)
50.00%	1,460.0	1.20

Coating Type: Other

Content Weight %

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	Acetone	Aluminum - Metal & Oxide	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Isobutanol	Methyl Ethyl Ketone (MEK)(HAP)	Mica (particulate)	Silica Crystalline Quartz (particulate)	Toluene (HAP)	Xylene (HAP)

Content lb/gal

Coating Material	Density	Solids (particulate)	HAP_{TOT}	HAP_{MAX}	Acetone	Aluminum - Metal & Oxide	Butyl Acetate	Carbon Black (particulate)	Ethyl Benzene (HAP)	Isobutanol	Methyl Ethyl Ketone (MEK)(HAP)	Mica (particulate)	Silica Crystalline Quartz (particulate)	Toluene (HAP)	Xylene (HAP)
0		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		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		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		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		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)	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
Emission Rate (lb/hr)		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
IDAPA TAP EL (lb/hr)					1.19E+02	6.67E-01	4.73E+01	2.3E-01	2.9E+01	1.00E+01	3.93E+01	2.0E-01	6.7E-03	2.5E+01	2.9E+01
Below EL?					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^3 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_2	170	1.70E+00	1.77E+00	4	T/yr	Yes	1	T/yr
CO	84	8.40E-01	8.74E-01	10	T/yr	Yes	14	lb/hr
$PM_{2.5}/PM_{10}$	7.6	7.60E-02	7.90E-02	1	T/yr	Yes	0.2	lb/hr
							1	T/yr
SO_X	0.6	6.00E-03	6.24E-03	4	T/yr	Yes	0.2	lb/hr
							4.00	T/yr
VOC	5.5	5.50E-02	5.72E-02	4	T/yr	Yes	40	T/yr
Lead	0.0005	5.00E-06	5.20E-06	0.06	T/yr	Yes	0.6	T/yr
			lb/mo					
			3.72E-03				10	lb/mo

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

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

General PTC Emission Inventories for Automotive Coating Operations

spray booth heater emissions for oil combustion, AP-42 Section 1.3

(5/10)

Heat Input Capacity:
0.00 MMBtu/hr

Operating Assumptions:
24 hr/day
2,080 hr/yr

Fuel Use:
0.00 gal/hr
0.50% sulfur weight content
137,030 Btu/gal

Criteria Air Pollutants	Emission Factor	Emissions		BRC Threshold		Below Threshold?
	lb/gal	lb/hr	T/yr			
NO_2	0.02	0.00E+00	0.00E+00	4	T/yr	Yes
CO	0.005	0.00E+00	0.00E+00	10	T/yr	Yes
$PM_{2.5}/PM_{10}$	0.0033	0.00E+00	0.00E+00	1	T/yr	Yes
SO_x	0.00071	0.00E+00	0.00E+00	4	T/yr	Yes
VOC	0.002493	0.00E+00	0.00E+00	4	T/yr	Yes
Lead	1.51E-06	0.00E+00	0.00E+00	0.06	T/yr	Yes
			lb/mo			
			0.00E+00			

Hazardous Air Pollutants (HAP) and Toxic Air Pollutants (TAP)				Modeling Threshold	Below Threshold?
	lb/gal	lb/hr	T/yr	EL (lb/hr)	
Organic HAP PAH					
2-Methylnaphthalene		**0.00E+00**	**0.00E+00**	9.10E-05	Yes
3-Methylchloranthrene		**0.00E+00**	**0.00E+00**	2.50E-06	Yes
Acenaphthene	2.11E-08	**0.00E+00**	**0.00E+00**	9.10E-05	Yes
Acenaphthylene	2.53E-10	**0.00E+00**	**0.00E+00**	9.10E-05	Yes
Anthracene	1.22E-09	**0.00E+00**	**0.00E+00**	9.10E-05	Yes
Benzo(a)anthracene	4.01E-09	**0.00E+00**	**0.00E+00**	9.10E-05	See POM
Benzo(a)pyrene		**0.00E+00**	**0.00E+00**	2.00E-06	See POM
Benzo(b)fluoranthene	7.40E-10	**0.00E+00**	**0.00E+00**		See POM
Benzo(g,h,i)perylene	2.26E-09	**0.00E+00**	**0.00E+00**	9.10E-05	Yes
Benzo(k)fluoranthene	7.40E-10	**0.00E+00**	**0.00E+00**		See POM
Chrysene	2.38E-09	**0.00E+00**	**0.00E+00**		See POM
Dibenzo(a,h)anthracene	1.67E-09	**0.00E+00**	**0.00E+00**		See POM
7,12-Dimethylbenz(a)anthracene		0.00E+00	**0.00E+00**		
Fluoranthene	4.84E-09	**0.00E+00**	**0.00E+00**	9.10E-05	Yes
Fluorene	4.47E-09	**0.00E+00**	**0.00E+00**	9.10E-05	Yes
Indeno(1,2,3-cd)pyrene	2.14E-09	**0.00E+00**	**0.00E+00**		See POM
Naphthalene	1.13E-06	**0.00E+00**	**0.00E+00**	3.33	Yes
Phenanthrene	1.05E-08	**0.00E+00**	**0.00E+00**	9.10E-05	Yes
Pyrene	4.25E-09	**0.00E+00**	**0.00E+00**	9.10E-05	Yes
Polycyclic Organic Matter (POM, 7-PAH Group)	3.30E-06	**0.00E+00**	**0.00E+00**	2.00E-06	Yes
Organic HAP Non-PAH					
Benzene	2.14E-07	**0.00E+00**	**0.00E+00**	8.00E-04	Yes
Dichlorobenzene		**0.00E+00**	**0.00E+00**	9.10E-05	Yes
Ethyl benzene	6.36E-08	0.00E+00	**0.00E+00**	2.90E+01	Yes
Formaldehyde	3.30E-05	**0.00E+00**	**0.00E+00**	5.10E-04	Yes
n-Hexane		0.00E+00	**0.00E+00**	12	Yes
Methyl Chloroform	2.36E-07	0.00E+00	**0.00E+00**	127	Yes
Styrene		0.00E+00	**0.00E+00**	6.67	Yes
Toluene	6.20E-06	0.00E+00	**0.00E+00**	25	Yes
Xylene	1.09E-07	0.00E+00	**0.00E+00**	29	Yes
Organic Non-HAP					
Butane		0.00E+00	**0.00E+00**		
Ethane		0.00E+00	**0.00E+00**		
OCDD (TEQ=0.0003)	9.30E-16	**0.00E+00**	**0.00E+00**	1.50E-10	Yes
Pentane		0.00E+00	**0.00E+00**	118	Yes
Propane		0.00E+00	**0.00E+00**		
Metal HAP					
Arsenic	5.48E-07	**0.00E+00**	**0.00E+00**	1.50E-06	Yes
Beryllium	4.11E-07	**0.00E+00**	**0.00E+00**	2.80E-05	Yes
Cadmium	4.11E-07	**0.00E+00**	**0.00E+00**	3.70E-06	Yes
Chromium	4.11E-07	0.00E+00	**0.00E+00**	0.033	Yes
Cobalt	4.11E-07	0.00E+00	**0.00E+00**	0.0033	Yes
Copper	8.22E-07	0.00E+00	**0.00E+00**	0.013	Yes
Manganese	8.22E-07	0.00E+00	**0.00E+00**	0.067	Yes
Mercury	4.11E-07	0.00E+00	**0.00E+00**	0.003	Yes
Nickel	4.11E-07	**0.00E+00**	**0.00E+00**	2.70E-05	Yes
Vanadium		0.00E+00	**0.00E+00**	0.003	Yes
Metal Non-HAP					
Barium		0.00E+00	**0.00E+00**	0.033	Yes
Molybdenum		0.00E+00	**0.00E+00**	0.333	Yes
Inorganic HAP					
Selenium	2.06E-06	0.00E+00	**0.00E+00**	0.013	Yes
Inorganic non-HAP					
Zinc	5.48E-07	0.00E+00	**0.00E+00**	0.667	Yes

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