INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Carol S. Comer
Commissioner

NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding a
Signficant Modification to a
Part 70 Operating Permit

for the Braun Corporation in Pulaski County

Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017

The Indiana Department of Environmental Management (IDEM) has received an application from the Braun Corporation, located at 623 W. 11th Street, Winamac, Indiana 46996, for a significant modification of its Part 70 Operating Permit issued on August 14, 2014. If approved by IDEM's Office of Air Quality (OAQ), this proposed modification would allow the Braun Corporation to make certain changes at its existing source. The Braun Corporation has applied to rename and adjust the capacity of the existing booths; and add a new line and three natural gas-fired paint ovens.

The applicant intends to construct and operate new equipment that will emit air pollutants; therefore, the permit contains new or different permit conditions. In addition, some conditions from previously issued permits/approvals have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes (e.g. changes that add or modify synthetic minor emission limits). IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow the applicant to make this change.

A copy of the permit application and IDEM's preliminary findings are available at:

Pulaski County Public Library
121 South Riverside Drive
Winamac , IN 46996

A copy of the preliminary findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/.

How can you participate in this process?

The date that this notice is published in a newspaper marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number SSM131-36413-00017 and SPM131-36425-00017 in all correspondence.

Comments should be sent to:

Thomas Olmstead
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for extension 3-9664
Or dial directly: (317) 233-9664
Fax: (317) 232-6749 attn: Thomas Olmstead
E-mail: tolmstea@idem.IN.gov

All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor, or noise. For such issues, please contact your local officials.

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: http://www.in.gov/idem/5881.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.

If you have any questions, please contact Thomas Olmstead of my staff at the above address.

Jenny Acker, Section Chief
Permits Branch
Office of Air Quality

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Commissioner

DRAFT

Mr. John Bawcum
The Braun Corporation
623 W 11th Street
Winamac, IN 46996

Re: 131-36425-00017
Significant Permit Modification to
Part 70 Renewal No.: T131-31418-00017

Dear Mr. Bawcum:

The Braun Corporation was issued Part 70 Operating Permit Renewal No. T131-31418-00017 on August 14, 2014 for a stationary motor vehicle conversion plant located at 623 W. 11th Street, Winamac, Indiana 46996. An application requesting changes to this permit was received on October 26, 2015. Pursuant to the provisions of 326 IAC 2-7-12, a Significant Permit Modification to this permit is hereby approved as described in the attached Technical Support Document.

Please find attached the entire Part 70 Operating Permit as modified. The permit references the below listed attachment(s). Since these attachments have been provided in previously issued approvals for this source, IDEM OAQ has not included a copy of these attachments with this modification:

Attachment A: 40 CFR Part 63, Subpart HHHHHH, Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources
Attachment B: 326 IAC 8-10, Automobile Refinishing

Previously issued approvals for this source containing these attachments are available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/.

Federal rules under Title 40 of United States Code of Federal Regulations may also be found on the U.S. Government Printing Office's Electronic Code of Federal Regulations (eCFR) website, located on the Internet at: http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab_02.tpl.

A copy of the permit is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: http://www.in.gov/idem/5881.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5.

DRAFT

If you have any questions on this matter, please contact Thomas Olmstead, of my staff, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251 at 317-233-9664 or 1-800-451-6027, and ask for extension 3-9664.

Sincerely,

Jenny Acker, Section Chief
Permits Branch
Office of Air Quality

Attachments: Modified Permit and Technical Support Document
cc: File - Pulaski County
Pulaski County Health Department
U.S. EPA, Region 5
Compliance and Enforcement Branch

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Commissioner

DRAFT

Part 70 Operating Permit Renewal

OFFICE OF AIR QUALITY

The Braun Corporation
623 W. 11th Street
Winamac, Indiana 46996

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T131-31418-00017	
Issued by: Original Signed Jenny Acker, Section Chief Permits Branch, Office of Air Quality	Issuance Date: August 14, 2014 Expiration Date: August 14, 2019

First Significant Modification No.: 131-36425-00017	
Issued by: Jenny Acker, Section Chief, Permits Branch Office of Air Quality	 Issuance Date: Expiration Date: August 14, 2019

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary a motor vehicle conversion plant.

Source Address:	623 W. 11th Street, Winamac, Indiana 46996
General Source Phone Number:	(219) 946-6153
SIC Code:	3711 (Motor Vehicles and Passenger Car Bodies)
County Location:	Pulaski
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]

This stationary source consists of the following emission units and pollution control devices:

(a) Five (5) surface coating facilities and assembly areas for metal and plastic in Plant 6, described as follows:

(1) One (1) manufacturing line, identified as Bldg 6 Line No. 1, constructed in 1993, approved in 2016 for modification, transferred to Plant 6 in 2008, consisting of the following:

(A) One (1) repair area, identified as Bldg 6 Repair No. 1, exhausting inside, using manual application, capacity: 0.5 vans per day. This facility operates independently of all other assembly areas.

(B) One Prep booth, identified as Prep No. 1 (Prep 20012), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) priming booth, identified as Bldg 6 Prime No. 1 (Prime 20019), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. This facility operates independently of all other priming booth facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(D) One (1) Undercoating Operation (39039), identified as Bldg 6 Un. No. 1, exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. This facility operates independently of all other undercoating areas. Under 40

CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(E) One (1) surface coating booth, identified as Bldg 6 (Paint 20018), exhausting through Stack/Vent IDs P6Finish1 and P6Finish2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 WAV per day. This facility operates independently of all other surface coating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(b) Twelve (12) surface coating facilities and assembly areas for metal and plastic in Plant 4, described as follows:

(1) One (1) manufacturing line, identified as WAV-3, constructed in 1993, approved in 2016 for modification, consisting of the following:

(A) One (1) assembly area, identified as WAV-3, exhausting inside, manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas.

(B) Surface coating operations, identified as WAV-3, consisting of one (1) primer booth (Prime 20030) and two (2) paint booths (Paint 20008 & Paint 20031), using manual application and HVLP spray guns, exhausting through Stack/Vent ID W-3, utilizing dry filters for particulate control, capacity: 32.0 vans per day. These facilities operate independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-3 (39038), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(2) One (1) manufacturing line, identified as WAV-2, constructed in 1993, approved in 2016 for modification, consisting of the following:

(A) One (1) assembly area, identified as WAV-2, exhausting inside, using manual application, capacity: 24.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Surface coating operations, identified as WAV-2, consisting of one (1) paint booth (Prime 20032) and one (1) paint booth (Paint 20033), exhausting through Stack/Vent ID W-2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-2 (Booth 39040), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(3) One (1) manufacturing line, identified as WAV-1, constructed in 1993, approved in 2016 for modification, consisting of the following:

(A) One (1) assembly area, identified as WAV-1, exhausting inside, using manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Refinishing/surface coating operations, identified as WAV-1, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-1, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-1, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(4) One (1) manufacturing line, identified as WAV-4, approved in 2016 for construction, consisting of the following:

(A) One (1) assembly area, identified as WAV-4, exhausting inside, using manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Refinishing/surface coating operations, identified as WAV-4, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-4, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(c) One (1) Powder Coating Operation at Plant 3, identified as Booth 19002, approved in 1991 for construction, utilizing dry filters for particulate control.

(d) One (1) touch-up line, identified as Bldg 7, approved in 2016 for construction, consisting of the following:

(1) One (1) assembly area, identified as Bldg 7, exhausting inside, using manual application, capacity: 24.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(2) Refinishing/surface coating operations, identified as Bldg 7, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

(a) Two (2) cold cleaner degreasing operations using solvent that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

(b) The following welding operations, total combined capacity: 65 pounds of weld wire or rod per hour:

(1) WAV-3 welding operations at Plant 4.

(2) WAV-2 welding operations at Plant 4.

(3) WAV-1 welding operation at Plant 4.

(4) Bldg 6 welding operations at Plant 4.

(5) Bldg 7 welding operations.

(6) Axle/Door welding operations at Plant 4.

(7) Welding operations at Plant 3.

(c) The following natural gas-fired facilities, total heat input capacity: 1.56 million British thermal units per hour:

(1) One (1) natural gas-fired burn-off oven at Plant 3, equipped with two (2) burners, constructed in 1991, burning powder coating off of racks, capacity: 8.0 pounds powder coat per hour, heat input capacity: 1.56 million British thermal units per hour.

(d) The following surface coating operations for metal and plastic in:

(1) Touch-Up Booths No. 1 (#20013 and #20034) at Plant 4. [40 CFR 63, Subpart HHHHHH]

(2) Touch-Up Booth No. 2 (#20035) at Plant 4. [40 CFR 63, Subpart HHHHHH]

(3) PPL Line (#20014) Plant 4. [40 CFR 63, Subpart HHHHHH]

(4) Lift Assembly Plant 3.

(e) Paved and unpaved roads and parking lots with public access.

A.4 Insignificant Activities [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

This stationary source also includes the following insignificant activities:

(a) The following natural gas-fired facilities:

(1) One (1) natural gas-fired Touch-Up Oven No. 1 at Plant 4, heat input capacity: 1.00 million British thermal units per hour.

(2) One (1) natural gas-fired Touch-Up Oven No. 2 at Plant 4, heat input capacity: 1.00 million British thermal units per hour.

(3) One (1) natural gas-fired Powder Coating Oven at plant 3, heat input capacity: 2.00 million British thermal units per hour.

(4) Space heaters, each with natural gas-fired combustion of less than ten million (10,000,000) Btu per hour, total heat input capacity: 26.0 million British thermal units per hour.

(5) Eight (8) natural gas-fired prep/prime/paint ovens, heat input capacity: 1.00 million British thermal units per hour, each.

(6) Three (3) natural gas-fired paint ovens, heat input capacity: 2.00 million British thermal units per hour, each.

(7) Three (3) natural gas-fired paint ovens, heat input capacity: 0.6 million British thermal units per hour, each, approved in 2016 for construction.

(b) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.

(c) Combustion unit(s) flame safety purging on startup.

(d) Machining where an aqueous cutting coolant continuously floods the machining interface. The aqueous cutting coolant does not contain VOC or HAPs.

(e) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

(f) The following equipment related to manufacturing activities not resulting in the emission of HAPs:

(1) Soldering operations, capacity: 50 pounds solder per month.

(2) Brazing and cutting operations for small scale maintenance activities only, utilizing oxyacetylene torches.

(3) Laser cutting operations.

(g) VOC and HAP storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.

(h) VOC and HAP vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

(a) This permit, 131-31418-00017, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-7-7][IC 13-17-12]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

(a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

(1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(35), and

(2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

(c) A "responsible official" is defined at 326 IAC 2-7-1(35).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

(a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

The Permittee shall implement the PMPs.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(8) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

(g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to

be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]

(g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

(a) All terms and conditions of permits established prior to 131-31418-00017 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised under 326 IAC 2-7-10.5, or

(3) deleted under 326 IAC 2-7-10.5.

(b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(42). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

(b) A timely renewal application is one that is:

(1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

(a) No Part 70 permit revision or notice shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b) or (c) without a prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b)(1) and (c)(1). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-7-20(b)(1) and (c)(1).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(37)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ or U.S. EPA is required.

(e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.21 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1][IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.4 Incineration [326 IAC 4-2][326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Asbestos Abatement Projects [326 IAC 14-10][326 IAC 18][40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.7 Performance Testing [326 IAC 3-6]

(a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.8 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

C.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

(a) For new units:
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.

(b) For existing units:
Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If, due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.10 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. The analog instrument shall be capable of measuring values outside of the normal range.

(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]

C.11 Emergency Reduction Plans [326 IAC 1-5-2][326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

(a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.12 Risk Management Plan [326 IAC 2-7-5(11)][40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.13 Response to Excursions or Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to normal or usual manner of operation.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records; and/or

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall record the reasonable response steps taken.

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ no later than seventy-five (75) days after the date of the test.

(b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]

C.15 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2004 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(33) (“Regulated pollutant, which is used only for purposes of Section 19 of this rule”) from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.16 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following, where applicable:

(AA) All calibration and maintenance records.
(BB) All original strip chart recordings for continuous monitoring instrumentation.
(CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following, where applicable:

(AA) The date, place, as defined in this permit, and time of sampling or measurements.
(BB) The dates analyses were performed.
(CC) The company or entity that performed the analyses.
(DD) The analytical techniques or methods used.
(EE) The results of such analyses.
(FF) The operating conditions as existing at the time of sampling or measurement.

These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.17 General Reporting Requirements [326 IAC 2-7-5(3)(C)][326 IAC 2-1.1-11]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B -Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

(b) The address for report submittal is:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.18 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with applicable standards for recycling and emissions reduction.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) Five (5) surface coating facilities and assembly areas for metal and plastic in Plant 6, described as follows:

(1) One (1) manufacturing line, identified as Bldg 6 Line No. 1, constructed in 1993, approved in 2016 for modification, transferred to Plant 6 in 2008, consisting of the following:

(A) One (1) repair area, identified as Bldg 6 Repair No. 1, exhausting inside, using manual application, capacity: 0.5 vans per day. This facility operates independently of all other assembly areas.

(B) One Prep booth, identified as Prep No. 1 (Prep 20012), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) priming booth, identified as Bldg 6 Prime No. 1 (Prime 20019), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. This facility operates independently of all other priming booth facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(D) One (1) Undercoating Operation (39039), identified as Bldg 6 Un. No. 1, exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(E) One (1) surface coating booth, identified as Bldg 6 (Paint 20018), exhausting through Stack/Vent IDs P6Finish1 and P6Finish2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 WAV per day. This facility operates independently of all other surface coating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(b) Twelve (12) surface coating facilities and assembly areas for metal and plastic in Plant 4, described as follows:

(1) One (1) manufacturing line, identified as WAV-3, constructed in 1993, approved in 2016 for modification, consisting of the following:

(A) One (1) assembly area, identified as WAV-3, exhausting inside, manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas.

(B) Surface coating operations, identified as WAV-3, consisting of one (1) primer booth (Prime 20030) and two (2) paint booths (Paint 20008 & Paint 20031), using manual application and HVLP spray guns, exhausting through Stack/Vent ID W-3, utilizing dry filters for particulate control, capacity: 32.0 vans per day. These facilities operate independently of all other surface

coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-3 (39038), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(2) One (1) manufacturing line, identified as WAV-2, constructed in 1993, approved in 2016 for modification, consisting of the following:

(A) One (1) assembly area, identified as WAV-2, exhausting inside, using manual application, capacity: 24.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Surface coating operations, identified as WAV-2, consisting of one (1) paint booth (Prime 20032) and one (1) paint booth (Paint 20033), exhausting through Stack/Vent ID W-2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-2 (Booth 39040), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(3) One (1) manufacturing line, identified as WAV-1, constructed in 1993, approved in 2016 for modification, consisting of the following:

(A) One (1) assembly area, identified as WAV-1, exhausting inside, using manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Refinishing/surface coating operations, identified as WAV-1, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-1, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-1, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(4) One (1) manufacturing line, identified as WAV-4, approved in 2016 for construction, consisting of the following:

(A) One (1) assembly area, identified as WAV-4, exhausting inside, using manual

application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Refinishing/surface coating operations, identified as WAV-4, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-4, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(c) One (1) Powder Coating Operation at Plant 3, identified as Booth 19002, approved in 1991 for construction, utilizing dry filters for particulate control.

(d) One (1) touch-up line, identified as Bldg 7, approved in 2016 for construction, consisting of the following:

(1) One (1) assembly area, identified as Bldg 7, exhausting inside, using manual application, capacity: 24.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(2) Refinishing/surface coating operations, identified as Bldg 7, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

Insignificant Activities:

(d) The following surface coating operations for metal and plastic in:

(1) Touch-Up Booths No. 1 (#20013 and #20034) at Plant 4. [40 CFR 63, Subpart HHHHHH]

(2) Touch-Up Booth No. 2 (#20035) at Plant 4. [40 CFR 63, Subpart HHHHHH]

(3) PPL Line (#20014) Plant 4. [40 CFR 63, Subpart HHHHHH]

(4) Lift Assembly Plant 3.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Volatile Organic Compound (VOC) Limits [326 IAC 8-10-3][326 IAC 8-10-4]

Pursuant to 326 IAC 8-10-4, for refinishing operations subject to the requirements of 326 IAC 8-10, the Permittee shall comply with the following:

(a) The Permittee shall limit emissions of VOCs from Bldg 6 Repair No. 1, Prep No. 1 (Prep 20012), Bldg 6 Prime No. 1 (Prime 20019), Bldg 6 Un. No. 1, Bldg 6 (Paint 20018), WAV-3, WAV-3 (39038), WAV-2, WAV-2 (Booth 39040), WAV-1, WAV-4, Bldg 7 and PPL are subject to 326 IAC 8-10 by using coatings or surface preparation products with VOC limits based on the VOC content as applied.

The VOC content shall not exceed the following limits:

	VOC Content Limit	
Coating Category	grams/liter	pounds/gallon
Pretreatment wash primer	780	6.5
Precoat	660	5.5
Primer/primer surfacer	576	4.8
Primer sealer	552	4.6
Topcoat		
Single and two stage	600	5.0
Three and four stage	624	5.2
Multicolored topcoat	680	5.7
Specialty	840	7.0

For surface preparation products:

	VOC Content Limit	
Type of Substrate	grams/liter	pounds/gallon
Plastic	780	6.5
Other	168	1.4

(b) Application of all specialty coatings except anti-glare/safety coatings shall not exceed five percent (5%) by volume of all coatings applied on a monthly basis.

D.1.2 Work Practice Standards [326 IAC 8-10-3][326 IAC 8-10-5]

For refinishing operations subject to the requirements of 326 IAC 8-10, the Permittee shall comply with the work practice standards contained in 326 IAC 8-10-5 (included as Attachment B of this permit).

D.1.3 Hazardous Air Pollutants (HAPs) Limitations

(a) The total usage of each individual HAP at the coating operations, degreasing operations and miscellaneous solvent usage, shall be limited to less than a total of 9.60 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) The total usage of any combination of HAPs at the coating operations, degreasing operations and miscellaneous solvent usage, shall be limited to less than a total of 24.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limits, in conjunction with the PTE from all other emission units, shall limit the potential to emit of any individual HAP to less than ten (10) tons per twelve (12) consecutive month period, any combination of HAPs to less than twenty-five (25) tons per twelve (12) consecutive month period, shall render the entire source an area source of HAP emissions under Section 112 of the Clean Air Act (CAA).

D.1.4 Particulate [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2(d), particulate from the surface coating facilities and assembly areas, identified as Bldg 6 Repair No. 1, Prep No. 1 (Prep 20012), Bldg 6 Prime No. 1 (Prime 20019), Bldg 6 Un. No. 1, Bldg 6 (Paint 20018), WAV-3, WAV-3 (39038), WAV-2, WAV-2 (Booth 39040), WAV-1, WAV-4, and Bldg 7 shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

(b) Pursuant to 326 IAC 6-3-2(e)(1) particulate from the Powder Coating Operation at Plant 3 shall be controlled by dry particulate filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.1.6 Volatile Organic Compounds (VOC) [326 IAC 8-10-3][326 IAC 8-10-7][326 IAC 8-1-4]

Pursuant to 326 IAC 8-10-7, compliance with the VOC content limits contained in Condition D.1.1 shall be determined pursuant to the applicable test methods and requirements of 326 IAC 8-1-4 and 40 CFR 60, Appendix A. The Permittee may use data provided with coatings or surface preparation products formulation information such as the container label, product data sheets, and MSDS sheet. IDEM, OAQ and the U.S. EPA may require VOC content determination and verification of any coating or surface preparation product using 40 CFR 60, Appendix A, Method 24. In the event of any inconsistency between 40 CFR 60, Appendix A, Method 24 and formulation data, 40 CFR 60, Appendix A, Method 24 shall govern.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

D.1.7 Operator Training Program

The Permittee shall demonstrate compliance with 326 IAC 6-3 by the implementation of an Operator Training Program as follows:

(a) All operators that perform surface coating operations using spray equipment or booth maintenance, shall be trained in the proper set-up and operation of the particulate control system. All existing operators shall be trained within 60 days of the date of permit issuance. All new operators shall be trained upon hiring or transfer.

(b) Training shall include proper filter alignment, filter inspection and maintenance, and troubleshooting practices. The training program shall be written and retained on site. The training program shall include a description of the methods to be used at the completion of initial and refresher training to demonstrate and document successful completion. Copies of the training program, the list of trained operators and training records shall be maintained on site or available within one (1) hour for inspection by IDEM.

(c) All operators shall be given refresher training annually.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]

D.1.8 Record Keeping Requirements [326 IAC 8-10-3][326 IAC 8-10-5(d)(4)][326 IAC 8-10-9]

For refinishing operations subject to the requirements of 326 IAC 8-10, the Permittee shall comply with the record keeping requirements contained in 326 IAC 8-10-9 (included as Attachment B of this permit).

D.1.9 Record Keeping Requirements

(a) To document the compliance status with Condition D.1.3, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the HAPs usage limits established in Condition D.1.3. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.

(1) The HAPs content of each coating material and solvent used.

(2) The amount of coating material and solvent less water used on a monthly basis.

(A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.

(B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.

(3) The calculated HAP usage for each month.

(b) To document the compliance status with Condition D.1.7, the Permittee shall maintain a copy of the Operator Training Program, training records, and those additional inspections prescribed by the Preventive Maintenance Plan.

(c) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required to be maintained by this condition.

D.1.10 Reporting Requirements [326 IAC 8-10-3][326 IAC 8-10-6(c)][326 IAC 8-10-9(e)]

For refinishing operations subject to the requirements of 326 IAC 8-10, the Permittee shall comply with the reporting requirements contained in 326 IAC 8-10-6(c) and 326 IAC 8-10-9(e) (included as Attachment B of this permit).

D.1.11 Reporting Requirements

A quarterly summary of the information to document the compliance status with D.1.3 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee’s obligation with regard to the reporting required by this condition.

The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official,” as defined by 326 IAC 2-7-1(35).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Activities

(b) One (1) natural gas-fired burn-off oven at Plant 3, equipped with two (2) burners, constructed in 1991, burning powder coating off of racks, capacity: 8.0 pounds powder coat per hour, heat input capacity: 1.56 million British thermal units per hour.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Incinerator [326 IAC 4-2-2]

Pursuant to 326 IAC 4-2-2, the one (1) natural gas-fired burn-off oven, shall:

(a) Consist of primary and secondary chambers or the equivalent.

(b) Be equipped with a primary burner unless burning only wood products.

(c) Comply with 326 IAC 5-1 and 326 IAC 2.

(d) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in subsection (c).

(e) Not emit particulate matter in excess of five-tenths (0.5) pound of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators with solid waste capacity less than two hundred (200) pounds per hour.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) Two (2) cold cleaner degreasing operations using solvent that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2]

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Cold Cleaner Degreaser Control Equipment and Operating Requirements [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control and Equipment Operating Requirements), the Permittee shall:

(a) Ensure the following control equipment and operating requirements are met:

(1) Equip the degreaser with a cover.

(2) Equip the degreaser with a device for draining cleaned parts.

(3) Close the degreaser cover whenever parts are not being handled in the degreaser.

(4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).

(6) Store waste solvent only in closed containers.

(7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

(b) Ensure the following additional control equipment and operating requirements are met:

(1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
(B) A water cover when solvent used is insoluble in, and heavier than, water.
(C) A refrigerated chiller.
(D) Carbon adsorption.
(E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.

(2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.

(3) If used, solvent spray:

(A) must be a solid, fluid stream; and
(B) shall be applied at a pressure that does not cause excessive splashing.

D.3.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), on and after January 1, 2015, the Permittee shall not operate a cold cleaning degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)][326 IAC 2-8-16]

D.3.3 Record Keeping Requirements

To document the compliance status with Condition D.3.2, on and after January 1, 2015, the Permittee shall maintain the following records for each purchase of solvent used in the cold cleaner degreasing operations. These records shall be retained on-site or accessible electronically for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

(a) The name and address of the solvent supplier.

(b) The date of purchase.

(c) The type of solvent purchased.

(d) The total volume of the solvent purchased.

(e) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

SECTION E.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]:

(a) Five (5) surface coating facilities and assembly areas for metal and plastic in Plant 6, described as follows:

(1) One (1) manufacturing line, identified as Bldg 6 Line No. 1, constructed in 1993, approved in 2016 for modification, transferred to Plant 6 in 2008, consisting of the following:

(A) One (1) repair area, identified as Bldg 6 Repair No. 1, exhausting inside, using manual application, capacity: 0.5 vans per day. This facility operates independently of all other assembly areas.

(B) One Prep booth, identified as Prep No. 1 (Prep 20012), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) priming booth, identified as Bldg 6 Prime No. 1 (Prime 20019), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. This facility operates independently of all other priming booth facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(D) One (1) Undercoating Operation (39039), identified as Bldg 6 Un. No. 1, exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(E) One (1) surface coating booth, identified as Bldg 6 (Paint 20018), exhausting through Stack/Vent IDs P6Finish1 and P6Finish2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 WAV per day. This facility operates independently of all other surface coating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(b) Twelve (12) surface coating facilities and assembly areas for metal and plastic in Plant 4, described as follows:

(1) One (1) manufacturing line, identified as WAV-3, constructed in 1993, approved in 2016 for modification, consisting of the following:

(A) One (1) assembly area, identified as WAV-3, exhausting inside, manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas.

(B) Surface coating operations, identified as WAV-3, consisting of one (1) primer booth (Prime 20030) and two (2) paint booths (Paint 20008 & Paint 20031), using manual application and HVLP spray guns, exhausting through Stack/Vent ID W-3, utilizing dry filters for particulate control, capacity: 32.0 vans per day. These facilities operate independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-3 (39038), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(2) One (1) manufacturing line, identified as WAV-2, constructed in 1993, approved in 2016 for modification, consisting of the following:

(A) One (1) assembly area, identified as WAV-2, exhausting inside, using manual application, capacity: 24.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Surface coating operations, identified as WAV-2, consisting of one (1) paint booth (Prime 20032) and one (1) paint booth (Paint 20033), exhausting through Stack/Vent ID W-2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-2 (Booth 39040), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(3) One (1) manufacturing line, identified as WAV-1, constructed in 1993, approved in 2016 for modification, consisting of the following:

(A) One (1) assembly area, identified as WAV-1, exhausting inside, using manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Refinishing/surface coating operations, identified as WAV-1, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-1, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-1, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(4) One (1) manufacturing line, identified as WAV-4, approved in 2016 for construction, consisting of the following:

(A) One (1) assembly area, identified as WAV-4, exhausting inside, using manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Refinishing/surface coating operations, identified as WAV-4, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-4, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(d) One (1) touch-up line, identified as Bldg 7, approved in 2016 for construction, consisting of the following:

(1) One (1) assembly area, identified as Bldg 7, exhausting inside, using manual application, capacity: 24.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(2) Refinishing/surface coating operations, identified as Bldg 7, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

Insignificant Activities:

(d) The following surface coating operations for metal and plastic in:

(1) Touch-Up Booths No. 1 (#20013 and #20034) at Plant 4. [40 CFR 63, Subpart HHHHHH]

(2) Touch-Up Booth No. 2 (#20035) at Plant 4. [40 CFR 63, Subpart HHHHHH]

(3) PPL Line (#20014) Plant 4. [40 CFR 63, Subpart HHHHHH]

(4) Lift Assembly Plant 3.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements

E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1][40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-

1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart HHHHHH.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

E.1.2 Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources NESHAP [40 CFR Part 63, Subpart HHHHHH]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart HHHHHH (included as Attachment A to the operating permit), for the emission unit(s) listed above:

(1) 40 CFR 63.11169 (b)
(2) 40 CFR 63.11170 (a) (2) and (b)
(3) 40 CFR 63.11171 (b)(2),(3),(4) and (e)
(4) 40 CFR 63.11172 (b)
(5) 40 CFR 63.11173 (e), (g)
(6) 40 CFR 63.11174
(7) 40 CFR 63.11175 (a)
(8) 40 CFR 63.11176 (a)
(8) 40 CFR 63.11177 (a), (b), (c), (d), (g)
(9) 40 CFR 63.11178
(10) 40 CFR 63.11179
(11) 40 CFR 63.11180

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: The Braun Corporation
Source Address: 623 W. 11th Street, Winamac, Indiana 46996
Part 70 Permit No.: T131-31418-00017

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)

☐ Report (specify)

☐ Notification (specify)

☐ Affidavit (specify)

☐ Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: The Braun Corporation
Source Address: 623 W. 11th Street, Winamac, Indiana 46996
Part 70 Permit No.: T131-31418-00017

This form consists of 2 pages **Page 1 of 2**

□ This is an emergency as defined in 326 IAC 2-7-1(12) • The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and • The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name:	The Braun Corporation
Source Address:	623 W. 11th Street, Winamac, Indiana 46996
Part 70 Permit No.:	T131-31418-00017
Facilities:	Coating operations at Bldg 6, WAV-3, WAV-2, WAV-1, WAV-4, Touch Up Booth/Oven No. 1, Touch Up Booth/ Oven No. 2, Bldg 7, and Powder Coating at Plant 3, degreasing operations and solvent usage.
Parameter:	Total combined HAPs usage.
Limit:	Less than a total of 24.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER :_____ YEAR: _____

Month	**Total HAPs Usage (tons)**	**Total HAPs Usage (tons)**	**Total HAPs Usage (tons)**
	This Month	Previous 11 Months	12 Month Total

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature:_____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: The Braun Corporation
Source Address: 623 W. 11th Street, Winamac, Indiana 46996
Part 70 Permit No.: T131-31418-00017
Facilities: Coating operations at Bldg 6, WAV-3, WAV-2, WAV-1, WAV-4, Touch Up Booth/Oven No. 1, Touch Up Booth/ Oven No. 2, Bldg7, and Powder Coating at Plant 3, degreasing operations and solvent usage.
Parameter: Worst case of any individual HAP usage.
Limit: Less than a total of 9.60 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER :_____ YEAR: _____

Month	**Individual HAP Usage (tons)**	**Individual HAP Usage (tons)**	**Individual HAP Usage (tons)**
	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature:_____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: The Braun Corporation
Source Address: 623 W. 11th Street, Winamac, Indiana 46996
Part 70 Permit No.: T131-31418-00017

Months: _____ **to** _____ **Year:** _____

This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B -Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C-General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)

Date of Deviation:	**Duration of Deviation:**

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation:	**Duration of Deviation:**

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Significant Source and Permit Modification

Source Description and Location

Source Name:	The Braun Corporation
Source Location:	623 W. 11th Street, Winamac, Indiana 46996
County:	Pulaski
SIC Code:	3711 (Motor Vehicles and Passenger Car Bodies)
Operation Permit No.:	T131-31418-00017
Operation Permit Issuance Date:	August 14, 2014
Significant Source Modification No.:	131-36413-00017
Significant Permit Modification No.:	131-36425-00017
Permit Reviewer:	Thomas Olmstead

Existing Approvals

The source was issued Part 70 Operating Permit No. T131-31418-00017 on August 14, 2014. There have been no subsequent approvals issued.

County Attainment Status

The source is located in Pulaski County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O_3	Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard.[1]
$PM_{2.5}$	Unclassifiable or attainment effective April 5, 2005, for the annual $PM_{2.5}$ standard.
$PM_{2.5}$	Unclassifiable or attainment effective December 13, 2009, for the 24-hour $PM_{2.5}$ standard.
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.

[1]Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Pulaski County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) $PM_{2.5}$

Pulaski County has been classified as attainment for $PM_{2.5}$. Therefore, direct $PM_{2.5}$, SO_2, and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(c) Other Criteria Pollutants
Pulaski County has been classified as attainment or unclassifiable in Indiana for SO2, CO, PM10, and NO2. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Source Status - Existing Source

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

Pollutant	**Emissions** (ton/yr)
PM	Less than 100
PM_{10}	Less than 100
$PM_{2.5}$	Less than 100
SO_2	Less than 100
NO_X	Less than 100
VOC	Greater than 100, Less than 250
CO	Less than 100
Single HAP	Less than 10
Total HAP	Less than 25

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHGs emissions to determine operating permit applicability or PSD applicability to a source or modification.

(a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no PSD regulated pollutant is emitted at a rate of two hundred fifty (250) tons per year or more and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).

(b) This existing source is not a major source of HAPs, as defined in 40 CFR 63.2, because HAPs emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by The Braun Corporation on October 26, 2015, relating to renaming and adjusting the capacity of the existing booths; and the addition of a new line and three natural gas-fired paint ovens.

The following is a list of the modified emission units and pollution control devices:

(a) Five (5) surface coating facilities and assembly areas for metal and plastic in Plant 6, described as follows:

(1) One (1) manufacturing line, identified as Bldg 6 Line No. 1, constructed in 1993, approved in 2016 for modification, transferred to Plant 6 in 2008, consisting of the following:

(A) One (1) repair area, identified as Bldg 6 Repair No. 1, exhausting inside, using manual application, capacity: 0.5 vans per day. This facility operates independently of all other assembly areas.

(B) One Prep booth, identified as Prep No. 1 (Prep 20012), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) priming booth, identified as Bldg 6 Prime No. 1 (Prime 20019), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. This facility operates independently of all other priming booth facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(D) One (1) Undercoating Operation (39039), identified as Bldg 6 Un. No. 1, exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(E) One (1) surface coating booth, identified as Bldg 6 (Paint 20018), exhausting through Stack/Vent IDs P6Finish1 and P6Finish2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 WAV per day. This facility operates independently of all other surface coating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(b) Twelve (12) surface coating facilities and assembly areas for metal and plastic in Plant 4, described as follows:

(1) One (1) manufacturing line, identified as WAV-3, constructed in 1993, approved in 2016 for modification, consisting of the following:

(A) One (1) assembly area, identified as WAV-3, exhausting inside, manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas.

(B) Surface coating operations, identified as WAV-3, consisting of one (1) primer booth (Prime 20030) and two (2) paint booths (Paint 20008 &

Paint 20031), using manual application and HVLP spray guns, exhausting through Stack/Vent ID W-3, utilizing dry filters for particulate control, capacity: 32.0 vans per day. These facilities operate independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-3 (39038), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(2) One (1) manufacturing line, identified as WAV-2, constructed in 1993, approved in 2016 for modification, consisting of the following:

(A) One (1) assembly area, identified as WAV-2, exhausting inside, using manual application, capacity: 24.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Surface coating operations, identified as WAV-2, consisting of one (1) paint booth (Prime 20032) and one (1) paint booth (Paint 20033), exhausting through Stack/Vent ID W-2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-2 (Booth 39040), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(3) One (1) manufacturing line, identified as WAV-1, constructed in 1993, approved in 2016 for modification, consisting of the following:

(A) One (1) assembly area, identified as WAV-1, exhausting inside, using manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Refinishing/surface coating operations, identified as WAV-1, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-1, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-1, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

The following is a list of the proposed emission units and pollution control devices:

(a) Twelve (12) surface coating facilities and assembly areas for metal and plastic in Plant 4, described as follows:

(1) One (1) manufacturing line, identified as WAV-4, approved in 2016 for construction, consisting of the following:

(A) One (1) assembly area, identified as WAV-4, exhausting inside, using manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Refinishing/surface coating operations, identified as WAV-4, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-4, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(b) One (1) touch-up line, identified as Bldg 7, approved in 2016 for construction, consisting of the following:

(1) One (1) assembly area, identified as Bldg 7, exhausting inside, using manual application, capacity: 24.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(2) Refinishing/surface coating operations, identified as Bldg 7, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(c) The following natural gas-fired facilities:

(1) Three (3) natural gas-fired paint ovens, heat input capacity: 0.6 million British thermal units per hour, each, approved in 2016 for construction.

Enforcement Issues

There are no pending enforcement actions.

Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

Permit Level Determination – Part 70 Modification to an Existing Source

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency."

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit. If the control equipment has been determined to be integral, the table reflects the PTE after consideration of the integral control device.

Increase in PTE Before Controls of the Modification (New Units)	
Pollutant	**Potential To Emit** (ton/yr)
PM	11.34
PM_{10}	11.39
$PM_{2.5}$	11.39
SO_2	4.73E-03
VOC	43.57
CO	0.66
NO_X	0.79
Single HAPs	> 10
Total HAPs	< 25

Appendix A of this TSD reflects the unrestricted potential emissions of the modification.

PTE Change of the Modified Process			
Pollutant	**PTE Before Modification** (ton/yr)	**PTE After Modification** (ton/yr)	**Increase from Modification** (ton/yr)
PM	25.99	31.50	10.70
PM_{10}	25.99	31.50	10.70
$PM_{2.5}$	25.99	31.50	10.70
SO_2	-	-	-
VOC	135.66	196.80	67.16
CO	-	-	-
NO_X	-	-	-
HAPs	> 25	> 25	> 25

Total PTE Increase due to the Modification			
Pollutant	**PTE New Emission Units** (ton/yr)	**Increase to PTE of Modified Emission Units** (ton/yr)	**Total PTE for New and Modified Units** (ton/yr)
PM	11.34	10.70	22.04
PM_{10}	11.39	10.70	22.04
$PM_{2.5}$	11.39	10.70	22.04
SO_2	4.73E-03	-	4.73E-03

Total PTE Increase due to the Modification			
Pollutant	**PTE New Emission Units** (ton/yr)	**Increase to PTE of Modified Emission Units** (ton/yr)	**Total PTE for New and Modified Units** (ton/yr)
VOC	43.57	67.16	110.74
CO	0.66	-	0.66
NO_X	0.79	-	0.79
HAPs	> 25	> 25	> 25

This source modification is subject to 326 IAC 2-7-10.5(g)(4)(D) because this modification has the potential to emit greater than 25 tons per year of VOC. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d)(1), because this modification does not qualify as minor permit modifications or as administrative amendments. The modification has a significant change in existing monitoring, reporting or record keeping permit terms or conditions.

Permit Level Determination – PSD

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 source and permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

	Project Emissions (ton/yr)						
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$***	**SO_2**	**NO_X**	**VOC**	**CO**
Total for Modification	22.04	22.09	22.09	4.73E-03	0.79	110.74	0.66
PSD Major Source Thresholds	250	250	250	250	250	250	250

*$PM_{2.5}$ listed is direct $PM_{2.5}$.

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHGs emissions to determine operating permit applicability or PSD applicability to a source or modification.

This modification to an existing minor PSD stationary source is not major because the emissions increase of each PSD regulated pollutant are less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Federal Rule Applicability Determination

The following federal rules are applicable to the source due to this modification:

NSPS:

(a) This source is not subject to the requirements of the New Source Performance Standard for Surface Coating of Metal Furniture, (40 CFR 60.310, Subpart EE), because the source does not coat metal furniture. Therefore, the requirements of the NSPS are not included in the permit.

(b) The requirements of the New Source Performance Standard for Automobile and Light Duty Truck Surface Coating Operations, (40 CFR 60.310, Subpart MM), are not included in the permit for this source because this source does not assemble automobile or light-duty trucks. Vehicles are modified at this facility have already been assembled. Therefore, the requirements of the NSPS are not included in the permit.

(c) This source is not subject to the requirements of the New Source Performance Standard for Pressure Sensitive Tape and Label Surface Coating Operations, (40 CFR 60.440, Subpart RR), because the source does not coat pressure sensitive tape and label. Therefore, the requirements of the NSPS are not included in the permit.

(d) This source is not subject to the requirements of the New Source Performance Standard for Industrial Surface Coating: Large Appliances, (40 CFR 60.450, Subpart SS), because the source does not coat large appliances. Therefore, the requirements of the NSPS are not included in the permit.

(e) This source is not subject to the requirements of the New Source Performance Standard for the Beverage Can Surface Coating Industry, (40 CFR 60.490, Subpart TT), because the source does not coat beverage cans. Therefore, the requirements of the NSPS are not included in the permit.

(f) This source is not subject to the requirements of the New Source Performance Standard for Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines, (40 CFR 60.720, Subpart TTT), because the source does not coat plastic parts for business machines. Therefore, the requirements of the NSPS are not included in the permit.

NESHAP:

(g) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Paper and Other Web Coating, Subpart JJJJ, are not included in the permit because this source does not coat paper. Therefore, the requirements of the NESHAP are not included in the permit.

(h) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Metal Cans, Subpart KKKK, are not included in the permit for this source does not coat metal cans. Therefore, the requirements of the NESHAP are not included in the permit.

(i) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Large Appliances, Subpart NNNN, are not included in the permit for this source does not coat large appliances. Therefore, the requirements of the NESHAP are not included in the permit.

(j) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Wood Building Products, Subpart QQQQ, are not included in the permit for this source does not coat wood building products. Therefore, the requirements of the NESHAP are not included in the permit.

(k) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Metal Furniture, Subpart RRRR, are not included in the permit for this source does not coat metal furniture. Therefore, the requirements of the NESHAP are not included in the permit.

(l) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Metal Coil, Subpart SSSS, are not included in the permit for this source does not coat metal coils. Therefore, the requirements of the NESHAP are not included in the permit.

(m) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Automobiles and Light-Duty Trucks, Subpart IIII, are not included in the permit for this source because this source has been limited to an area source of HAPs. Therefore, the requirements of the NESHAP are not included in the permit.

(n) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Miscellaneous Metal Parts and Products, Subpart MMMM, are not included in the permit for this source because this source has been limited to an area source of HAPs. Therefore, the requirements of the NESHAP are not included in the permit.

(o) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Plastic Parts and Products, Subpart PPPP, are not included in the permit for this source because this source has been limited to an area source of HAPs. Therefore, the requirements of the NESHAP are not included in the permit.

(p) This source is subject to the National Emission Standards for Hazardous Air Pollutants for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources (40 CFR 63, Subpart HHHHHH). Braun applies coatings to modified vehicles subsequent to the original OEM coating and repairs damages incurred as part of the modification process. Therefore, pursuant to 326 IAC 8-10-1(a)(2), the Braun Corporation is a facility that refinishes motor vehicles, parts, and components. The emission units subject to this rule include the following:

- Five (5) surface coating facilities and assembly areas for metal and plastic in Plant 6, described as follows:
  - One (1) manufacturing line, identified as Bldg 6 Line No. 1, approved in 1993 for construction, transferred to Plant 6 in 2008, consisting of the following:
    - One (1) repair area, identified as Bldg 6 Repair No. 1, exhausting inside, using manual application, capacity:0.5 vans per day. This facility operates independently of all other assembly areas.
    - One Prep booth, identified as Prep No. 1 (Prep 20012), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.
    - One (1) priming booth, identified as Bldg 6 Prime No. 1 (Prime 20019), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. This facility operates independently of all other priming booth facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.
    - One (1) Undercoating Operation (39039), identified as Bldg 6 Un. No. 1, exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 vans per day. This facility

operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

- One (1) surface coating booth, identified as Bldg 6 (Paint 20018), exhausting through Stack/Vent IDs P6Finish1 and P6Finish2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 0.5 WAV per day. This facility operates independently of all other surface coating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

- Twelve (12) surface coating facilities and assembly areas for metal and plastic in Plant 4, described as follows:

  - One (1) manufacturing line, identified as WAV-3, approved in 1993 for construction, consisting of the following:

    - One (1) assembly area, identified as WAV-3, exhausting inside, manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas.

    - Surface coating operations, identified as WAV-3, consisting of one (1) primer booth (Prime 20030) and two (2) paint booths (Paint 20008 & Paint 20031), using manual application and HVLP spray guns, exhausting through Stack/Vent ID W-3, utilizing dry filters for particulate control, capacity: 32.0 vans per day. These facilities operate independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

    - One (1) undercoating area, identified as WAV-3 (39038), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

  - One (1) manufacturing line, identified as WAV-2, approved in 1993 for construction, consisting of the following:

    - One (1) assembly area, identified as WAV-2, exhausting inside, using manual application, capacity: 24.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

    - Surface coating operations, identified as WAV-2, consisting of one (1) paint booth (Prime 20032) and one (1) paint booth (Paint 20033), exhausting through Stack/Vent ID W-2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

    - One (1) undercoating area, identified as WAV-2 (Booth 39040), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

  - One (1) manufacturing line, identified as WAV-1, approved in 2008 for construction, consisting of the following:

- One (1) assembly area, identified as WAV-1, exhausting inside, using manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

- Refinishing/surface coating operations, identified as WAV-1, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-1, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

- One (1) undercoating area, identified as WAV-1, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

- One (1) manufacturing line, identified as WAV-4, approved in 2016 for construction, consisting of the following:

  - One (1) assembly area, identified as WAV-4, exhausting inside, using manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

  - Refinishing/surface coating operations, identified as WAV-4, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

  - One (1) undercoating area, identified as WAV-4, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

- One (1) touch-up line, identified as Bldg 7, approved in 2016 for construction, consisting of the following:

  - One (1) assembly area, identified as Bldg 7, exhausting inside, using manual application, capacity: 24.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

  - Refinishing/surface coating operations, identified as Bldg 7, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

Nonapplicable portions of the NESHAP will not be included in the permit. This source is subject to the following portions of Subpart HHHHHH:

(1) 40 CFR 63.11169(b)
(2) 40 CFR 63.11170 (a) (2) and (b)
(3) 40 CFR 63.11171 (b)(2),(3),(4) and (e)
(4) 40 CFR 63.11172 (b)
(5) 40 CFR 63.11173 (e), (g)
(6) 40 CFR 63.11174
(7) 40 CFR 63.11175 (a)
(8) 40 CFR 63.11176 (a)
(8) 40 CFR 63.11177 (a), (b), (c), (d), (g)
(9) 40 CFR 63.11178
(10) 40 CFR 63.11179
(11) 40 CFR 63.11180

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63 Subpart HHHHHH.

CAM

(q) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:

(1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant; and

(3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each new or modified emission unit involved:

Emission Units	Pollutant	Control Device	Emission Limitation (Applicable Rule)	Control Device necessary to comply with limit?	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	CAM Applicable	Large Unit
Prep No. 1 (Prep 20012)	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (1)	N
Bldg 6 Prime No. 1 (Prime 20019)	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (1)	N
Bldg 6 Un. No. 1	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (1)	N
Bldg 6 (Paint 20018)	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (1)	N
WAV-3	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (1)	N

WAV-3 (Booth 39038)	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (1)	N
WAV-2	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (1)	N
WAV-2 (Booth 39040)	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (1)	N
WAV-1	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (1)	N
WAV-4	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (1)	N
Bldg 7	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (1)	N

Notes:
Uncontrolled PTE (tpy) and controlled PTE (tpy) are evaluated against the Major Source Threshold for each pollutant. Where the Major Source Threshold for criteria pollutants (PM10, PM2.5, SO2, NOX, VOC and CO) is 100 tpy, for a single HAP ten (10) tpy, and for total HAPs twenty-five (25) tpy.
PM* : PM is limited as a surrogate for a Part 70 regulated pollutant, PM10. The uncontrolled PTE and controlled PTE reflect the emissions of PM10.
(1) Has a PTE before controls less than the major source threshold for the pollutant involved, or is not subject to an emission limitation for the pollutant involved, or is not equipped with a control device for the pollutant involved. No further evaluation is need for this unit. CAM does not apply.

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to any of the modified or new units as part of this modification.

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

326 IAC 2-2 (PSD)
PSD and Emission Offset applicability is discussed under the Permit Level Determination – PSD.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The operation of the paint booths will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply. This source has been limited to an area source of HAPs pursuant to SPM 131-23199-00017, issued on December 27, 2006. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6 (Emission Reporting)
Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is subject to 326 IAC 2-6 (Emission Reporting). In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted triennially. The first report is due no later than July 1, 2004, and subsequent reports are due every three (3) years thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 2-7-6(5) (Annual Compliance Certification)
The U.S. EPA Federal Register 79 FR 54978 notice does not exempt Title V Permittees from the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D), but the submittal of the Title V

annual compliance certification to IDEM satisfies the requirement to submit the Title V annual compliance certifications to EPA. IDEM does not intend to revise any permits since the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D) still apply, but Permittees can note on their Title V annual compliance certification that submission to IDEM has satisfied reporting to EPA per Federal Register 79 FR 54978. This only applies to Title V Permittees and Title V compliance certifications.

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2(d), the particulate matter (PM) from the Bldg 6 Repair No. 1, Prep No. 1 (Prep 20012), Bldg 6 Prime No. 1 (Prime 20019), Bldg 6 Un. No. 1, Bldg 6 (Paint 20018), WAV-3, WAV-3 (39038), WAV-2, WAV-2 (Booth 39040), WAV-1, Bldg 7, and WAV-4 shall be controlled by a particulate filter, waterwash, or an equivalent control device, and the Permittee shall operate each control device in accordance with manufacturer's specifications.

326 IAC 8-1 (General Provisions)
8-1-6 doesn't apply to the Bldg 6 Repair No. 1, Prep No. 1 (Prep 20012), Bldg 6 Prime No. 1 (Prime 20019), Bldg 6 Un. No. 1, Bldg 6 (Paint 20018), WAV-3, WAV-3 (39038), WAV-2, WAV-2 (Booth 39040), WAV-1, Bldg 7, and WAV-4 because 326 IAC 8-10 applies to these facilities.

326 IAC 8-2 (Surface Coating Emission Limitations)
Bldg 6 Repair No. 1, Prep No. 1 (Prep 20012), Bldg 6 Prime No. 1 (Prime 20019), Bldg 6 Un. No. 1, Bldg 6 (Paint 20018), WAV-3, WAV-3 (39038), WAV-2, WAV-2 (Booth 39040), WAV-1, Bldg 7, and WAV-4 are not subject to 326 IAC 8-2-9 because the requirements of 326 IAC 8-10 apply to these facilities.

326 IAC 8-10 (Automobile Refinishing)
Pursuant to 326 IAC 8-10-4, for refinishing operations subject to the requirements of 326 IAC 8-10, the Permittee shall comply with the following:

(a) The Permittee shall limit emissions of VOCs from Bldg 6 Repair No. 1, Prep No. 1 (Prep 20012), Bldg 6 Prime No. 1 (Prime 20019), Bldg 6 Un. No. 1, Bldg 6 (Paint 20018), WAV-3, WAV-3 (39038), WAV-2, WAV-2 (Booth 39040), WAV-1, Bldg 7, and WAV-4 are subject to 326 IAC 8-10 by using coatings or surface preparation products with VOC limits based on the VOC content as applied.

The VOC content shall not exceed the following limits:

Coating Category	VOC Content Limit	
	grams/liter	pounds/gallon
Pretreatment wash primer	780	6.5
Precoat	660	5.5
Primer/primer surfacer	576	4.8
Primer sealer	552	4.6
Topcoat		
Single and two stage	600	5.0
Three and four stage	624	5.2
Multicolored topcoat	680	5.7
Specialty	840	7.0

For surface preparation products:

Type of Substrate	VOC Content Limit	
	grams/liter	pounds/gallon
Plastic	780	6.5
Other	168	1.4

(b) Application of all specialty coatings except anti-glare/safety coatings shall not exceed five percent (5%) by volume of all coatings applied on a monthly basis.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The Compliance Determination Requirements applicable to this modification are as follows:

Pursuant to 326 IAC 8-10-7, compliance with the VOC content limits shall be determined pursuant to the applicable test methods and requirements of 326 IAC 8-1-4 and 40 CFR 60, Appendix A.

The compliance monitoring requirements applicable to this modification are as follows:

Operator Training Program			
Training Type	Existing operators	New operators	Refresher
proper set-up and operation of the particulate control system	trained within 60 days of the date of permit issuance	upon hiring or transfer	Annually
proper filter alignment, filter inspection and maintenance, and troubleshooting practices			

These monitoring conditions are necessary because the dry filters must operate properly to ensure compliance with 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-7 (Part 70)).

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T131-31418-00017. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**. These corrections, changes, and removals may include Title I changes (ex changes that add or modify synthetic minor emission limits).

Summary of IDEM Updates Throughout the Permit

(a) The emission unit descriptions have been up dated with this modification. Each line now has a new name; this change is outlined in the table below. WAV-4 has also been added to the permit. The source is also adding 3 new natural gas-fired paint ovens, which has been added.

Old Line Name	**New Line Name**

Bus/ParaTransit Van Line No. 1	Bldg 6 Line No. 1
EnterVan Line No. 1	WAV-3
EnterVan Line No.2	WAV-2
EnterVan Line No. 3	WAV-1
-	WAV-4
-	Bldg 7

(b) On October 27, 2010, the Indiana Air Pollution Control Board issued revisions to 326 IAC 2. These revisions resulted in changes to the rule citations listed in the permit. These changes are not changes to the underlining provisions. The change is only to cite of these rules in Section B - Permit Renewal and Section C - Risk Management Plan.

(c) **Section C - Compliance Monitoring**
IDEM, OAQ has revised Section C - Compliance Monitoring. The reference to recordkeeping has been removed due to the fact that other conditions already address recordkeeping. The voice of the condition has been changed to clearly indicate that it is the Permittee that must follow the requirements of the condition.

Section A - Revisions

Section A has been revised to incorporate the appropriate IDEM updates detailed above under "Summary of IDEM Updates Throughout the Permit."

Section A has been revised as follows:

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary a motor vehicle conversion plant.

Source Address:	623 W. 11th Street, Winamac, Indiana 46996
General Source Phone Number:	**(**219**-)** 946-6153
SIC Code:	3711 **(Motor Vehicles and Passenger Car Bodies)**
County Location:	Pulaski
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD **and Emission Offset Rules** Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]

***

(a) ***

(1) One (1) manufacturing line, identified as ~~Bus/ParaTransit Van~~**Bldg 6** Line No. 1, **constructed in 1993,** approved in ~~1993~~**2016** for ~~construction~~**modification**, transferred to Plant 6 in 2008, consisting of the following:

(A) One (1) ~~assembly~~**repair** area, identified as ~~Para/Assem.~~**Bldg 6 Repair** No. 1, exhausting inside, using manual application, capacity: ~~12.~~0**.5** vans per day. This facility operates independently of all other assembly areas.

(B) One Prep booth, identified as Prep No. 1 (Prep 20012), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, , ~~utilitzing~~**utilizing** dry filters for particulate control, capacity: ~~12.~~0**.5** vans per day. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) priming booth, identified as ~~Para/~~**Bldg 6** Prime No. 1 (Prime 20019), exhausting through Stack/Vent ID P6Prime, using manual

application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~12.~~0**.5** vans per day. This facility operates independently of all other priming booth facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(D) One (1) Undercoating Operation (39039), identified as ~~Para/~~**Bldg 6** Un. No. 1, exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~12.~~0**.5** vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(E) One (1) surface coating booth, identified as ~~Para/Ref. No. 1~~**Bldg 6** (Paint 20018), exhausting through Stack/Vent IDs P6Finish1 and P6Finish2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~12.~~0 ~~vans~~**.5 WAV** per day. This facility operates independently of all other surface coating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(b) ~~Nine (9~~**Twelve (12**) surface coating facilities and assembly areas for metal and plastic in Plant 4, described as follows:

(1) One (1) manufacturing line, identified as ~~EnterVan Line No. 1~~**WAV-3, constructed in 1993**, approved in ~~1993~~**2016** for ~~construction~~**modification**, consisting of the following:

(A) One (1) assembly area, identified as ~~Enter/Assem. No. 1~~**WAV-3**, exhausting inside, manual application, capacity: ~~18~~**32**.0 vans per day. This facility operates independently of all other assembly areas.

(B) Surface coating operations, identified as ~~Enter/Ref. No. 1~~**WAV-3**, consisting of one (1) primer booth (Prime 20030) and two (2) paint booths (Paint 20008 & Paint 20031), using manual application and HVLP spray guns, exhausting through Stack/Vent ID ~~Enter 1~~**W-3**, utilizing dry filters for particulate control, capacity: ~~18~~**32**.0 vans per day. These facilities operate independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as ~~Enter/Un. No. 1~~**WAV-3** (39038), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~18~~**32**.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(2) One (1) manufacturing line, identified as ~~EnterVan Line No.~~ **WAV-**2, **constructed in 1993,** approved in ~~1993~~**2016** for ~~construction~~**modification**, consisting of the following:

(A) One (1) assembly area, identified as ~~Enter/Assem. No.~~ **WAV-**2, exhausting inside, using manual application, capacity: ~~18~~**24**.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Surface coating operations, identified as ~~Enter/Ref. No.~~ **WAV-**2, consisting of one (1) paint booth (Prime 20032) and one (1) paint booth

(Paint 20033), exhausting through Stack/Vent ID ~~Enter~~ **W-**2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~18~~**24**.0 vans per day. This facility operates independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as ~~Enter/Un. No.~~ **WAV-**2 (Booth 39040), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~18~~**24**.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(3) One (1) manufacturing line, identified as ~~EnterVan Line No. 3~~**WAV-1, constructed in 1993**, approved in ~~2008~~**2016** for ~~construction~~**modification**, consisting of the following:

(A) One (1) assembly area, identified as ~~Enter/Assem. No. 3~~**WAV-1**, exhausting inside, using manual application, capacity: ~~24~~**32**.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Refinishing/surface coating operations, identified as ~~Enter/Ref.~~ **WAV-1**~~3~~, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID ~~Enter 3~~**W-1**, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~24~~**32**.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as ~~Enter/Un. No. 3~~**WAV-1**, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: ~~24.0 vans per day.~~**32.0 vans per day**. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(4) One (1) manufacturing line, identified as WAV-4, approved in 2016 for construction, consisting of the following:

(A) One (1) assembly area, identified as WAV-4, exhausting inside, using manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Refinishing/surface coating operations, identified as WAV-4, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-4, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40

CFR 63, Subpart HHHHHH, this is considered an existing affected source.

***

(d) One (1) touch-up line, identified as Bldg 7, approved in 2016 for construction, consisting of the following:

(1) One (1) assembly area, identified as Bldg 7, exhausting inside, using manual application, capacity: 24.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(2) Refinishing/surface coating operations, identified as Bldg 7, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

***

(b) ***

(1) ~~EnterVan Line No. 1~~**WAV-3** welding operations at Plant 4.

(2) ~~EnterVan Line No. ~~**WAV-**2 welding operations at Plant 4.

~~(3) EnterVan Line No. (~~3**)** **WAV-1** welding operation at Plant 4.

(4) ~~Bus/ParaTransit Van Line~~ **Bldg 6**~~1~~ welding operations at Plant 4.

(5) ~~Bus/ParaTransit Van Line No. 2~~**Bldg 7** welding operations~~ at Plant 4~~.

***

(d) ***

(3) ~~Touch-Up Booth No 3 (#20011) at~~**PPL Line (#20014)** Plant ~~6.~~**4.** [40 CFR 63, Subpart HHHHHH]

~~(4) PPL Line (#20014) Plant 4. [40 CFR 63, Subpart HHHHHH]~~

(~~5~~**(4**) Lift Assembly Plant 3.

***

A.4 Insignificant Activities [326 IAC 2-7-~~1(21)][326 IAC 2-7-~~4(c)][326 IAC 2-7-5(14)]

***

(a) The following natural gas-fired facilities~~, total heat input capacity: 45.56 million British thermal units per hour~~:

***

(7) Three (3) natural gas-fired paint ovens, heat input capacity: 0.6 million British thermal units per hour, each, approved in 2016 for construction.

***

Section B and C - Revisions

Section B and C have been revised to incorporate the appropriate IDEM updates detailed above under "Summary of IDEM Updates Throughout the Permit."

Section B and C have been revised as follows:

B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(~~40~~**42**). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

***

C.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

***

(b) ***

~~Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.~~

C.12 Risk Management Plan [326 IAC 2-7-5(~~12~~**11**)][40 CFR 68]

***

Section D.1 - Revisions

(a) VOC limit in D.1.1 has been updated to include WAV-4. The booth names have also been updated.

(b) The HAPs limitations in D.1.3 have been updated to ensure that the source stays an area source of HAPs.

(c) The particulate limit in D.1.4 has been updated to include WAV-4. The booth names have also been updated.

(d) IDEM, OAQ has included the replacement of an instrument as an acceptable action in the Parametric Monitoring Condition.

(e) After discussions with EPA, OAQ decided to add a rule cite for the Compliance Determination Requirements subsection title in the D Sections. The addition of this rule cite is to satisfy EPA's concerns.

(f) Section D.1 has been revised to incorporate the appropriate IDEM updates detailed above under "Summary of IDEM Updates Throughout the Permit."

Section D.1 has been revised as follows:

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) Five (5) surface coating facilities and assembly areas for metal and plastic in Plant 6, described as follows:

(1) One (1) manufacturing line, identified as ~~Bus/ParaTransit Van~~**Bldg 6** Line No. 1, **constructed in 1993,** approved in ~~1993~~**2016** for ~~construction~~**modification**, transferred to Plant 6 in 2008, consisting of the following:

(A) One (1) ~~assembly~~**repair** area, identified as ~~Para/Assem.~~**Bldg 6 Repair** No. 1, exhausting inside, using manual application, capacity: ~~12.~~0**.5** vans per day. This facility operates independently of all other assembly areas.

(B) One Prep booth, identified as Prep No. 1~~,~~ (Prep 20012), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~12.~~0**.5** vans per day. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) priming booth, identified as ~~Para/~~**Bldg 6** Prime No. 1 (Prime 20019), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~12.~~0**.5** vans per day. This facility operates independently of all other priming ~~coating~~**booth** facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(D) One (1) Undercoating Operation (39039), identified as ~~Para/~~**Bldg 6** Un. No. 1, exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~12.~~0**.5** vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(E) One (1) surface coating booth, identified as ~~Para/Ref. No. 1~~**Bldg 6** (Paint 20018), exhausting through Stack/Vent IDs P6Finish1 and P6Finish2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~12.~~0 ~~vans~~**.5 WAV** per day. This facility operates independently of all other surface coating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(b) ~~Nine (9~~**Twelve (12**) surface coating facilities and assembly areas for metal and plastic in Plant 4, described as follows:

(1) One (1) manufacturing line, identified as ~~EnterVan Line No. 1~~**WAV-3, constructed in 1993**, approved in ~~1993~~**2016** for ~~construction, consisting~~**modification, consisting** of the following:

(A) One (1) assembly area, identified as ~~Enter/Assem. No. 1~~**WAV-3**, exhausting inside, manual application, capacity: ~~18~~**32**.0 vans per day. This facility operates independently of all other assembly areas.

(B) Surface coating operations, identified as ~~Enter/Ref. 1~~**WAV-3**~~1~~, consisting of one (1) primer booth (Prime 20030) and two (2) paint booths (Paint 20008 & Paint 20031), using manual application and HVLP spray guns, exhausting through Stack/Vent ID ~~Enter 1~~**W-3**, utilizing dry filters for particulate control, capacity: ~~18~~**32**.0 vans per day. These facilities operate independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as ~~Enter/Un. No. 1~~**WAV-3** (39038), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~18~~**32**.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(2) One (1) manufacturing line, identified as ~~EnterVan Line No.~~ **WAV-**2, **constructed in 1993,** approved in ~~1993~~**2016** for ~~construction~~**modification**, consisting of the following:

(A) One (1) assembly area, identified as ~~Enter/Assem. No.~~ **WAV-**2, exhausting inside, using manual application, capacity: ~~18~~**24**.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Surface coating operations, identified as ~~Enter/Ref. No.~~ **WAV-**2, consisting of one (1) paint booth (Prime 20032) and one (1) paint booth (Paint 20033), exhausting through Stack/Vent ID ~~Enter~~ **W-**2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~18~~**24**.0 vans per day. This facility operates independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as ~~Enter/Un. No.~~ **WAV-**2~~,~~ **(Booth 39040),** exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~18~~**24**.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(3) One (1) manufacturing line, identified as ~~EnterVan Line No. 3~~**WAV-1, constructed in 1993**, approved in ~~2008~~**2016** for ~~construction~~**modification**, consisting of the following:

(A) One (1) assembly area, identified as ~~Enter/Assem. No. 3~~**WAV-1**, exhausting inside, using manual application, capacity: ~~24~~**32**.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Refinishing/surface coating operations, identified as ~~Enter/Ref. No. 3~~**WAV-1**, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID ~~Enter 3~~**W-1**, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~24~~**32**.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as ~~Enter/Un. No. 3~~**WAV-1**, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: ~~24~~**32**.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(4) One (1) manufacturing line, identified as WAV-4, approved in 2016 for construction, consisting of the following:

(A) One (1) assembly area, identified as WAV-4, exhausting inside, using manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Refinishing/surface coating operations, identified as WAV-4, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-4, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(c) One (1) Powder Coating Operation at Plant 3, identified as Booth 19002, approved in 1991 for construction, utilizing ~~a~~ dry filters for particulate control.

(d) One (1) touch-up line, identified as Bldg 7, approved in 2016 for construction, consisting of the following:

(1) One (1) assembly area, identified as Bldg 7, exhausting inside, using manual application, capacity: 24.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(2) Refinishing/surface coating operations, identified as Bldg 7, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

Insignificant Activities:

(d) The following surface coating operations for metal and plastic in:

(1) Touch-Up Booths No. 1 (#20013 and #20034) at Plant 4. ~~Under~~ **[**40 CFR 63, Subpart HHHHHH~~, this is considered an existing affected source.~~**]**

(2) Touch-Up Booth No. 2 (#20035) at Plant 4. ~~[326 IAC 2-2] Under~~ **[**40 CFR 63, Subpart HHHHHH~~, this is considered an existing affected source.~~**]**

(3) ~~Touch-Up Booth No 3 (#20011) at Plant 6. [326 IAC 2-2](4)~~ PPL Line ~~(~~**(#**20014) Plant 4. ~~[326 IAC 2-2] Under~~ **[**40 CFR 63, Subpart HHHHHH~~, this is considered an existing affected source.~~**]**

(~~5~~**4**) Lift Assembly Plant 3.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Volatile Organic Compound (VOC) Limits [326 IAC 8-10-3][326 IAC 8-10-4]

Pursuant to 326 IAC 8-10-4, for refinishing operations subject to the requirements of 326 IAC 8-10, the Permittee shall comply with the following:

(a) The Permittee shall limit emissions of VOCs from **Bldg 6 Repair No.** 1, Prep No. **1 (Prep 20012), Bldg 6 Prime No. 1 (Prime 20019), Bldg 6 Un.** No. ~~Para/Assem. No. 1, Para/Prime No.1, Para/Un. No.~~ **1, Bldg 6 (Paint 20018), WAV-3, WAV-3 (39038), WAV-2, WAV-2 (Booth 39040), WAV-1, WAV-4, Bldg 7**~~1, Para/Ref. No. 1, Enter/Assem. No. 1, Enter/Ref. No. 1, Enter/Un. No. 1, Enter/Assem. No. 2, Enter/Ref. No. 2, Enter/Un. No. 2, Enter/Assem. No. 3, Enter/Ref. No. 3, Enter/Un. No. 3~~ and PPL are subject to 326 IAC 8-10 by using coatings or surface preparation products with VOC limits based on the VOC content as applied.

***

D.1.2 Work Practice Standards [326 IAC 8-10-3][326 IAC 8-10-5]

***

D.1.3 Hazardous Air Pollutants (HAPs) Limitations

(a) The total usage of each individual HAP at the coating operations, degreasing operations and miscellaneous solvent usage, shall be limited to less than a total of 9.6~~3~~**60** tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) The total usage of any combination of HAPs at the coating operations, degreasing operations and miscellaneous solvent usage, shall be limited to less than a total of 24.~~3~~**0** tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limits ~~shall ensure that~~**, in conjunction with** the ~~source is an area source for HAPs, including the unrestricted~~ **PTE from all other emission units, shall limit the** potential to emit ~~HAPs from all other facilities at the source, and~~**of any individual HAP to less than ten (10) tons per twelve (12) consecutive month period, any combination of HAPs to less than twenty-five (25) tons per twelve (12) consecutive month period,** shall render the **entire** source an area source ~~for HAPs requirements~~**of HAP emissions under Section 112** of the ~~NESHAP 40 CFR 63, Subpart MMMM not applicable to the source.~~**Clean Air Act (CAA).**

D.1.4 Particulate [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2(d), particulate from the ~~thirteen (13)~~ surface coating facilities and assembly areas, identified as ~~Enter/Assem.~~**Bldg 6 Repair** No. 1, ~~Enter/Ref.~~**Prep** No. 1~~, Enter/~~ **(Prep 20012), Bldg 6 Prime No. 1 (Prime 20019), Bldg 6** Un. ~~No. 1, Enter/Assem.~~ No. **1, Bldg 6 (Paint 20018), WAV-3, WAV-3 (39038), WAV-**2, ~~Enter/Ref. No.~~ **WAV-**2~~, Enter/Un. No. 2, Para/Assem. No. 1, Para/Ref.~~ **(Booth 39040), WAV-**1, ~~Para/Un. No. 1, Enter/Assem. No. 3, Enter/Ref. No. 3, Enter/Un. No. 3~~**WAV-4**, and ~~Para/Prime No. 1,~~**Bldg 7** shall be controlled by a dry particulate filter, ~~waterwash, or an equivalent control device,~~ and the Permittee shall operate the control device in accordance with manufacturer's specifications.

***

D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan~~,~~ is required for ~~the thirteen (13) surface coating~~**these** facilities and ~~assembly areas, identified as Enter/Assem. No. 1, Enter/Ref. No. 1, Enter/Un. No. 1, Enter/Assem. No. 2, Enter/Ref. No. 2, Enter/Un. No. 2, Para/Assem. No. 1, Para/Ref. 1, Para/Un. No. 1, Enter/Assem. No. 3, Enter/Ref. No. 3, Enter/Un. No. 3, and Para/Prime No. 1, and the associated~~**any** control devices. Section B - ~~Preventative~~**Preventive** Maintenance Plan contains the Permittee's obligation with regard to the ~~preventative~~**preventive** maintenance plan required by this condition.

Compliance Determination Requirements **[326 IAC 2-7-5(1)]**

D.1.6 Volatile Organic Compounds (VOC) [326 IAC 8-10-3][326 IAC 8-10-7][326 IAC 8-1-4]

***

Compliance Monitoring Requirements [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

D.1.7 Operator Training Program

***

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]

D.1.8 Record Keeping Requirements [326 IAC 8-10-3][326 IAC 8-10-5(d)(4)][326 IAC 8-10-9]

***

D.1.9 Record Keeping Requirements

***

D.1.10 Reporting Requirements [326 IAC 8-10-3][326 IAC 8-10-6(c)][326 IAC 8-10-9(e)]

***

D.1.11 Reporting Requirements

~~(a) The Permittee shall submit~~ A quarterly summary of the information to document the compliance status with ~~Condition~~ D.1.3~~. These reports~~ shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the ~~Permittee's~~**Permittee's** obligation with regard to the reporting required by this condition.

The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official~~"~~**,"** as defined by 326 IAC 2-7-1(35).

E Section and forms - Revisions

(a) A standardized version of the E Sections was added. OAQ added rule cites to the NSPS and NESHAP E sections.

(b) The Quarterly Report form has been modified to remove the numbered months. The Permittee should state which months are being reported.

(c) E Section and forms have been revised to incorporate the appropriate IDEM updates detailed above under "Summary of IDEM Updates Throughout the Permit."

E Section and forms have been revised as follows:

SECTION E.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]:

(a) Five (5) surface coating facilities and assembly ~~area~~**areas** for metal and plastic in Plant 6, described as follows:

(1) One (1) manufacturing line, identified as ~~Bus/ParaTransit Van~~ **Bldg 6** Line No. 1, **constructed in 1993,** approved in ~~1993~~**2016** for ~~construction~~**modification**, transferred to Plant 6 in 2008, consisting of the following:

(A) One (1) repair area, identified as Bldg 6 Repair No. 1, exhausting inside, using manual application, capacity: 0.5 vans per day. This facility operates independently of all other assembly areas.

(B) One Prep booth, identified as Prep No. 1~~,~~ (Prep 20012), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~12.~~0**.5** vans per day. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) priming booth, identified as ~~Para/~~**Bldg 6** Prime No. 1 (Prime 20019), exhausting through Stack/Vent ID P6Prime, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~12.~~0**.5** vans per day. This facility operates independently of all other priming **booth** facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(D) One (1) Undercoating Operation (39039), identified as ~~Para/~~**Bldg 6** Un. No. 1, exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~12.~~0**.5** vans per day. This facility operates

independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(E) One (1) surface coating booth, identified as ~~Para/Ref. No. 1~~**Bldg 6** (Paint 20018), exhausting through Stack/Vent IDs P6Finish1 and P6Finish2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~12.0 vans~~**.5 WAV** per day. This facility operates independently of all other surface coating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(b) ~~Nine (9~~**Twelve (12**) surface coating facilities and assembly areas for metal and plastic in Plant 4, described as follows:

(1) One (1) manufacturing line, identified as ~~EnterVan Line No. 1~~**WAV-3, constructed in 1993**, approved in ~~1993~~**2016** for ~~construction, consisting~~**modification, consisting** of the following:

(A) One (1) assembly area, identified as WAV-3, exhausting inside, manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas.

(B) Surface coating operations, identified as ~~Enter/Ref. No. 1~~**WAV-3**, consisting of one (1) primer booth (Prime 20030) and two (2) paint booths (Paint 20008 & Paint 20031), using manual application and HVLP spray guns, exhausting through Stack/Vent ID ~~Enter 1~~**W-3**, utilizing dry filters for particulate control, capacity: ~~18~~**32**.0 vans per day. These facilities operate independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as ~~Enter/Un. No. 1~~**WAV-3** (39038), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~18~~**32**.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(2) One (1) manufacturing line, identified as ~~EnterVan Line No.~~ **WAV-**2, **constructed in 1993,** approved in ~~1993~~**2016** for ~~construction~~**modification**, consisting of the following:

(A) One (1) assembly area, identified as ~~Enter/Assem. No.~~ **WAV-**2, exhausting inside, using manual application, ~~utilizing dry filters for particulate control,~~ capacity: ~~18~~**24**.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Surface coating operations, identified as ~~Enter/Ref. No.~~ **WAV-**2, consisting of one (1) paint booth (Prime 20032) and one (1) paint booth (Paint 20033), exhausting through Stack/Vent ID ~~Enter~~ **W-**2, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~18~~**24**.0 vans per day. This facility operates independently of all other surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as ~~Enter/Un. No.~~ **WAV-**2 (Booth 39040), exhausting inside, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~18~~**24**.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(3) One (1) manufacturing line, identified as ~~EnterVan Line No. 3~~**WAV-1, constructed in 1993**, approved in ~~2008~~**2016** for ~~construction~~**modification**, consisting of the following:

(A) One (1) assembly area, identified as ~~Enter/Assem. No. 3~~**WAV-1**, exhausting inside, using manual application, capacity: ~~24~~**32**.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Refinishing/surface coating operations, identified as ~~Enter/Ref. No. 3~~**WAV-1**, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID ~~Enter 3~~**W-1**, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: ~~24~~**32**.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as ~~Enter/Un. No. 3~~**WAV-1**, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: ~~24~~**32**.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(4) One (1) manufacturing line, identified as WAV-4, approved in 2016 for construction, consisting of the following:

(A) One (1) assembly area, identified as WAV-4, exhausting inside, using manual application, capacity: 32.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(B) Refinishing/surface coating operations, identified as WAV-4, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(C) One (1) undercoating area, identified as WAV-4, exhausting inside, using manual application and HVLP spray guns utilizing dry filters for particulate control, capacity: 32.0 vans per day. This facility operates independently of all other undercoating areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(d) One (1) touch-up line, identified as Bldg 7, approved in 2016 for construction, consisting of the following:

(1) One (1) assembly area, identified as Bldg 7, exhausting inside, using manual application, capacity: 24.0 vans per day. This facility operates independently of all other assembly areas. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

(2) Refinishing/surface coating operations, identified as Bldg 7, consisting of one (1) primer booth (Prime 20036), exhausting through Stack/Vent ID W-4, using manual application and HVLP spray guns, utilizing dry filters for particulate control, capacity: 24.0 vans per day. This facility operates independently of all other refinishing/surface coating facilities. Under 40 CFR 63, Subpart HHHHHH, this is considered an existing affected source.

Insignificant Activities:

(d) The following surface coating operations for metal and plastic in:

(1) Touch-Up Booths No. 1 (#20013 and #20034) at Plant 4. [40 CFR 63, Subpart HHHHHH]

(2) Touch-Up Booth No. 2 (#20035) at Plant 4. [40 CFR 63, Subpart HHHHHH]

(3) ~~Touch-Up Booth No 3 (#20011) at~~**PPL Line (#20014)** Plant ~~6.~~ **4.** [40 CFR 63, Subpart HHHHHH]

(4) ~~PPL Line (#20014)~~**Lift Assembly** Plant ~~4. [40 CFR 63, Subpart HHHHHH]~~**3.**

(The information describing the process contained in this ~~facility~~**emissions unit** description box is descriptive information and does not constitute enforceable conditions.)

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements

E.1.1 General Provisions Relating to ~~NESHAP HHHHHH~~**National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63** [326 IAC 20-1][40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.~~11174,~~**1** the Permittee shall comply with the provisions of 40 CFR **Part** 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1~~-1,~~**, for the emission unit(s) listed above, except** as **otherwise** specified in ~~Table 1 of~~ 40 CFR **Part** 63, Subpart HHHHHH ~~in accordance with the schedule in~~**.**

(b) **Pursuant to** 40 CFR 63~~, Subpart HHHHHH.~~**.10, the Permittee shall submit all required notifications and reports to:**

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

E.1.2 Paint Stripping and Miscellaneous Surface Coating Operations **at Area Sources** NESHAP [40 CFR Part 63, Subpart HHHHHH]

The Permittee ~~which operates surface coating booths~~ shall comply with the following provisions of 40 CFR **Part** 63, Subpart HHHHHH (included as Attachment A ~~of~~**to** this permit~~):~~**), for the emission unit(s) listed above:**

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Part 70 Quarterly Report

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Facilities: Coating operations at ~~EnterVan Line No.~~ **Bldg 6, WAV-3, WAV-2, WAV-**1, ~~EnterVan Line No. 2, Bus/ParaTransit Line No. 1, EnterVan Line No. 3,~~ **WAV-4,** Touch Up Booth/Oven No. 1, Touch Up Booth/ Oven No. 2**, Bldg 7**, and Powder Coating at Plant 3, degreasing operations and solvent usage.

***

Limit: Less than a total of 24.~~3~~**0** tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Month	Total HAPs Usage (tons)	Total HAPs Usage (tons)	Total HAPs Usage (tons)
	This Month	Previous 11 Months	12 Month Total
~~Month 1~~			
~~Month 2~~			
~~Month 3~~			

****

***

Part 70 Quarterly Report

***

Facilities: Coating operations at ~~EnterVan Line No.~~ **Bldg 6, WAV-3, WAV-2, WAV-**1, ~~EnterVan Line No. 2, Bus/ParaTransit Line No. 1, EnterVan Line No. 3,~~ **WAV-4,** Touch Up Booth/Oven No. 1, Touch Up Booth/ Oven No. 2**, Bldg7**, and Powder Coating at Plant 3, degreasing operations and solvent usage.

***

Limit: Less than a total of 9.~~63~~**60** tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Month	Individual HAP Usage (tons)	Individual HAP Usage (tons)	Individual HAP Usage (tons)
	This Month	Previous 11 Months	12 Month Total
~~Month 1~~			
~~Month 2~~			
~~Month 3~~			

****

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 131-36413-00017 and Significant Permit Modification No. 131-36425-00017. The staff recommends to the Commissioner that this Part 70 Significant Source and Significant Permit Modification be approved.

IDEM Contact

(a) Questions regarding this proposed permit can be directed to Thomas Olmstead at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-9664 or toll free at 1-800-451-6027 extension 3-9664.

(b) A copy of the findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/

(c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: http://www.in.gov/idem/5881.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.

Appendix A: Emission Calculations
PTE Summary

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Uncontrolled Potential to Emit (tons/yr)

Emission Unit	PM	PM10	PM2.5 *	SO_2	NOx	VOC	CO	Total HAPs
WAV-3	10.37	10.37	10.37	-	-	60.18	-	41.27
WAV-2	7.12	7.12	7.12	-	-	62.86	-	16.53
WAV-1	10.18	10.18	10.18	-	-	58.49	-	22.38
WAV-4	10.18	10.18	10.18	-	-	40.63	-	22.38
Bldg 6	3.83	3.83	3.83	-	-	15.28	-	0.15
Bldg 7	1.15	1.15	1.15	-	-	2.90	-	-
PPL	0.08	0.08	0.08	-	-	0.44	-	0.32
Touch-Up Booth 1 and 2	0.91	0.91	0.91	-	-	1.99	-	0.32
Powder Coating	125.09	125.09	125.09	-	-	-	-	-
Natural Gas Combustion	0.40	1.61	1.61	0.13	21.18	1.16	17.79	0.40
Welding Operations	6.01	6.01	6.01	-	-	-	-	0.26
Burn-off Oven (waste emissions)	0.12	0.12	0.12	0.04	0.18	0.05	0.05	-
Lift Assembly	-	-	-	-	-	2.46	-	-
Degreasers	-	-	-	-	-	1.04	-	2.09E-03
Total	**175.43**	**176.64**	**176.64**	**0.17**	**21.36**	**247.49**	**17.85**	**104.01**

** PM2.5 listed is direct PM2.5*

Potential to Emit after Control (tons/yr)

Emission Unit	PM	PM10	PM2.5 *	SO_2	NOx	VOC	CO	Total HAPs
WAV-3	0.52	0.52	0.52	-	-	60.18	-	41.27
WAV-2	0.36	0.36	0.36	-	-	62.86	-	16.53
WAV-1	0.51	0.51	0.51	-	-	58.49	-	22.38
WAV-4	0.51	0.51	0.51	-	-	40.63	-	22.38
Bldg 6	0.19	0.19	0.19	-	-	15.28	-	0.15
Bldg 7	0.91	0.91	0.91	-	-	2.90	-	-
PPL	3.83E-03	3.83E-03	3.83E-03	-	-	0.44	-	0.32
Touch-Up Booth 1 and 2	0.05	0.05	0.05	-	-	1.99	-	0.32
Powder Coating	6.25	6.25	6.25	-	-	-	-	-
Natural Gas Combustion	0.40	1.61	1.61	0.13	21.18	1.16	17.79	0.40
Welding Operations	6.01	6.01	6.01	-	-	-	-	0.26
Burn-off Oven (waste emissions)	0.12	0.12	0.12	0.04	0.18	0.05	0.05	-
Lift Assembly	-	-	-	-	-	2.46	-	-
Degreasers	-	-	-	-	-	1.04	-	2.09E-03
Total	**15.83**	**17.03**	**17.03**	**0.17**	**21.36**	**247.49**	**17.85**	**104.01**

** PM2.5 listed is direct PM2.5*

Potential to Emit after Issuance (tons/yr)

Emission Unit	PM	PM10	PM2.5 *	SO_2	NOx	VOC	CO	Total HAPs
WAV-3	0.52	0.52	0.52	-	-	60.18	-	
WAV-2	0.36	0.36	0.36	-	-	62.86	-	
WAV-1	0.51	0.51	0.51	-	-	58.49	-	
WAV-4	0.51	0.51	0.51	-	-	40.63	-	
Bldg 6	0.19	0.19	0.19	-	-	15.28	-	24.00
Bldg 7	0.91	0.91	0.91	-	-	2.90	-	
PPL	3.83E-03	3.83E-03	3.83E-03	-	-	0.44	-	
Touch-Up Booth 1 and 2	0.05	0.05	0.05	-	-	1.99	-	
Powder Coating	6.25	6.25	6.25	-	-	-	-	
Natural Gas Combustion	0.40	1.61	1.61	0.13	21.18	1.16	17.79	0.40
Welding Operations	6.01	6.01	6.01	-	-	-	-	0.26
Burn-off Oven (waste emissions)	0.12	0.12	0.12	0.04	0.18	0.05	0.05	-
Lift Assembly	-	-	-	-	-	2.46	-	-
Degreasers	-	-	-	-	-	1.04	-	2.09E-03
Total	**15.83**	**17.03**	**17.03**	**0.17**	**21.36**	**247.49**	**17.85**	**24.66**

** PM2.5 listed is direct PM2.5*

Note: Pursuant to 326 IAC 6-3-2(d), the particulate emissions from surface coating operations shall be controlled by dry particulate filters and the Permittee shall operate the control devices in accordance with the manufacturer's specifications. Compliance with this standard, in conjunction with a conservative assumption of 95% capture and control, shall limit PM, PM10, and PM2.5 emissions from the surface coating operations to the values shown.

Appendix A: Emission Calculations
PTE Summary

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Permit Level Determination - TV									
Emission Unit		**PM**	**PM10**	**PM2.5**	**SO2**	**NOX**	**VOC**	**CO**	**Total HAPs**
Modified Units									
Bldg 6 (Bus/ParaTransit Van Line No. 1)	Emissions Before Modification	9.02	9.02	9.02	-	-	21.30	-	> 25
	Emissions After Modification	3.83	3.83	3.83	-	-	15.28	-	
	Change in PTE	0.00	0.00	0.00	-	-	0.00	-	
WAV-3 (EnterVan Line No. 1)	Emissions Before Modification	5.89	5.89	5.89	-	-	34.23	-	
	Emissions After Modification	10.37	10.37	10.37	-	-	60.18	-	
	Change in PTE	4.48	4.48	4.48	-	-	25.94	-	
WAV-2 (EnterVan Line No. 2)	Emissions Before Modification	5.34	5.34	5.34	-	-	47.15	-	
	Emissions After Modification	7.12	7.12	7.12	-	-	62.86	-	
	Change in PTE	1.78	1.78	1.78	-	-	15.72	-	
WAV-1 (EnterVan Line No. 3)	Emissions Before Modification	5.74	5.74	5.74	-	-	32.98	-	
	Emissions After Modification	10.18	10.18	10.18	-	-	58.49	-	
	Change in PTE	4.44	4.44	4.44	-	-	25.51	-	
Total Change from Modified Units	Emissions Before Modification	25.99	25.99	25.99	-	-	135.66	-	
	Emissions After Modification	31.50	31.50	31.50	-	-	196.80	-	
	Change in PTE	10.70	10.70	10.70	-	-	67.16	-	
New Units									
WAV-4		10.18	10.18	10.18	-	-	40.63	-	22.38
Bldg 7		1.15	1.15	1.15	-	-	2.90	-	-
Space Heaters		0.01	0.06	0.06	4.73E-03	0.79	0.04	0.66	0.01
Total from New Units		**11.34**	**11.39**	**11.39**	**4.73E-03**	**0.79**	**43.57**	**0.66**	**22.39**
Total PTE		**22.04**	**22.09**	**22.09**	**4.73E-03**	**0.79**	**110.74**	**0.66**	**47.39**

Appendix A: Emission Calculations
HAPs Summary

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Uncontrolled Potential to Emit (tons/yr)

Emission Unit	Benzene	Dichlorobenzene	Formaldehyde	Lead	Cadmium	Chromium	Ethylbenzene	Styrene
WAV-3	-	-	-	-	-	-	6.57	0.07
WAV-2	-	-	-	-	-	-	2.65	0.06
WAV-1	-	-	-	-	-	-	3.56	0.07
WAV-4	-	-	-	-	-	-	3.56	0.07
Bldg 6	-	-	-	-	-	-	0.02	-
Bldg 7	-	-	-	-	-	-	-	-
PPL	-	-	-	-	-	-	0.06	5.44E-04
Touch-Up Booth 1 and 2	-	-	-	-	-	-	0.04	-
Powder Coating	-	-	-	-	-	-	-	-
Natural Gas Combustion	4.45E-04	2.54E-04	0.02	1.06E-04	2.33E-04	2.97E-04	-	-
Welding Operations	-	-	-	-	-	-	-	-
Burn-off Oven	-	-	-	-	-	-	-	-
Lift Assembly	-	-	-	-	-	-	-	-
Degreasers	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03
Total	2.53E-03	2.34E-03	0.02	2.19E-03	2.32E-03	2.38E-03	16.46	0.28

Potential to Emit after Issuance (tons/yr)

Emission Unit	Benzene	Dichlorobenzene	Formaldehyde	Lead	Cadmium	Chromium	Ethylbenzene	Styrene
WAV-3	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60
WAV-2								
WAV-1								
WAV-4								
Bldg 6								
Bldg 7								
PPL								
Touch-Up Booth 1 and 2								
Powder Coating								
Natural Gas Combustion	4.45E-04	2.54E-04	0.02	1.06E-04	2.33E-04	2.97E-04	-	-
Welding Operations	-	-	-	-	-	-	-	-
Burn-off Oven	-	-	-	-	-	-	-	-
Lift Assembly	-	-	-	-	-	-	-	-
Degreasers	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03
Total	9.60	9.60	9.62	9.60	9.60	9.60	9.60	9.60

Appendix A: Emission Calculations
HAPs Summary

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Uncontrolled Potential to Emit (tons/yr)

Emission Unit	Ethylene Glycol	Methyl isobutyl ketone	Toluene	Hexane	Xylene	Hexamethylene 1,6-Diisocyanate	Manganese	Nickel	Total
WAV-3	2.91	1.41	3.14	-	27.16	-	-	-	41.27
WAV-2	-	0.66	1.76	-	11.41	-	-	-	16.53
WAV-1	-	1.34	1.66	-	15.75	-	-	-	22.38
WAV-4	-	1.34	1.66	-	15.75	-	-	-	22.38
Bldg 6	-	-	1.20E-03	-	0.13	2.39E-04	-	-	0.15
Bldg 7	-	-	-	-	-	-	-	-	-
PPL	-	0.01	0.01	-	0.24	-	-	-	0.32
Touch-Up Booth 1 and 2	-	-	2.49E-03	-	0.27	4.98E-04	-	-	0.32
Powder Coating	-	-	-	-	-	-	-	-	-
Natural Gas Combustion	-	-	7.20E-04	0.38	-	-	8.05E-05	4.45E-04	0.40
Welding Operations	-	-	-	-	-	-	0.26	-	0.26
Burn-off Oven	-	-	-	-	-	-	-	-	-
Lift Assembly	-	-	-	-	-	-	-	-	-
Degreasers	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03
Total	2.91	4.75	8.24	0.38	70.71	2.83E-03	0.26	2.53E-03	104.04

Potential to Emit after Issuance (tons/yr)

Emission Unit	Ethylene Glycol	Methyl isobutyl ketone	Toluene	Hexane	Xylene	Hexamethylene 1,6-Diisocyanate	Manganese	Nickel	Total
WAV-3									
WAV-2									
WAV-1									
WAV-4									
Bldg 6	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	24.00
Bldg 7									
PPL									
Touch-Up Booth 1 and 2									
Powder Coating									
Natural Gas Combustion	-	-	7.20E-04	0.38	-	-	8.05E-05	4.45E-04	0.40
Welding Operations	-	-	-	-	-	-	0.26	-	0.26
Burn-off Oven	-	-	-	-	-	-	-	-	-
Lift Assembly	-	-	-	-	-	-	-	-	-
Degreasers	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03
Total	9.60	9.60	9.60	9.98	9.60	9.60	9.86	9.60	24.66

Appendix A: Emissions Calculations
VOC and Particulate
WAV - 3 (formerly EnterVan Line No. 1)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
WAV - 3 Assembly															
DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	9.34	0.40	0%	0.40	0%	0.60	0.33	1.33	3.73	3.73	1.63	39.17	7.15	0	100%
PPG, DX103G, MULTI-PREP	6.57	100%	0%	100%	0%	0%	0.02	1.33	6.57	6.57	0.14	3.36	0.61	0	100%
Accumetric Seam Sealer 18876	12.34	0.13%	0%	0%	0%	100%	0.33	1.33	0.02	0.02	6.75E-03	0.16	0.03	0	100%
PPG, DX330G, WAX AND GREASE REMOVER	6.36	100%	0%	100%	0%	0%	0.03	1.33	6.36	6.36	0.23	5.48	1.00	0	100%
TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	6.39	100%	0%	100%	0%	0%	0.03	1.33	6.39	6.39	0.23	5.51	1.01	0	100%
										Subtotal Assembly worse case coating	**1.86**	**44.65**	**8.15**	**0**	
WAV - 3 (Primer Booth 20030)															
PPG, DP50LF, Gray Epoxy Primer	11.75	0.34	0%	0.34	0%	0.66	0.14	1.33	3.99	3.99	0.72	17.19	3.14	1.53	75%
PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	6.91	0.35	0%	0.35	0%	0.65	0.27	1.33	2.42	2.42	0.88	21.15	3.86	1.79	75%
PPG, DP90LF Epoxy Primer	11.29	0.37	0%	0.37	0%	0.63	0.28	1.33	4.14	4.14	1.53	36.74	6.70	2.89	75%
PPG, DT870G, REDUCER	6.91	1.00	0%	1.00	0%	0	0.07	1.33	6.91	6.91	0.63	15.22	2.78	0	75%
BASF, DP402LFG, Epoxy Primer Catalyst	7.78	0.67	0%	0.67	0%	0.33	0.08	1.33	5.22	5.22	0.58	13.83	2.52	0.31	75%
PPG, DX1787G, ETCHING FILLER	8.42	0.84	0%	0.84	0%	0.16	3.00E-03	1.33	7.07	7.07	0.03	0.68	0.12	5.89E-03	75%
PPG, K201Q, PRIMER SURFACER CATALYST	8.15	0.58	0%	0.58	0%	0.42	5.00E-03	1.33	4.73	4.73	0.03	0.75	0.14	0.02	75%
PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	12.60	0.33	0%	0.33	0%	0.67	0.03	1.33	4.16	4.16	0.17	4.12	0.75	0.38	75%
PPG, K38G, HIGH BUILD PRIMER SURFACER	12.43	0.31	0%	0.31	0%	0.69	0.02	1.33	3.85	3.85	0.08	1.97	0.36	0.20	75%
PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	11.99	0.46	0%	0.46	0%	0.54	2.50E-04	1.33	5.52	5.52	1.83E-03	0.04	8.03E-03	2.36E-03	75%
U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	9.67	0.20	0%	0.20	0%	0.80	0.09	1.33	1.93	1.93	0.23	5.56	1.01	0	100%
										Subtotal Primer Booth worse case coating	**2.74**	**65.79**	**12.01**	**3.20**	
WAV - 3 (Paint Booth # 20008 Door & Axle)															
PPG, DX330G, WAX AND GREASE REMOVER	6.36	100.00%	0	100%	0	0%	0.01	3.12	6.36	6.36	0.26	6.33	1.16	0	100%
Dynatex GTX Seam Sealer or Accumetric	12.50	1.00%	0	1%	0	99%	0.01	3.12	0.13	0.13	3.90E-03	0.09	0.02	0	100%
Prime								3.12							
PPG, DP90LF Epoxy Primer	11.29	36.67%	0	37%	0	63%	0.01	3.12	4.14	4.14	0.13	3.10	0.57	0.24	75%
PPG, DT870G, REDUCER	6.91	100.00%	0	100%	0	0%	2.50E-03	3.12	6.91	6.91	0.05	1.29	0.24	0	75%
BASF, DP402LFG, Epoxy Primer Catalyst	7.78	67.10%	0	67%	0	33%	2.50E-03	3.12	5.22	5.22	0.04	0.98	0.18	0.02	75%
Paint															
BASF, LA1200, 9741 Track Black	9.55	59.68%	0	60%	0	40%	0.01	3.12	5.70	5.70	0.18	4.27	0.78	0.13	75%
PPG, DT870G, REDUCER	6.91	100.00%	0	100%	0	0%	2.50E-03	3.12	6.91	6.91	0.05	1.29	0.24	0	75%
PPG, DCX61G, HI SOLIDS HARDENER	8.97	16.05%	0	16%	0	84%	1.25E-03	3.12	1.44	1.44	5.61E-03	0.13	0.02	0.03	75%
										Subtotal worse case coating	**0.67**	**15.97**	**2.91**	**0.40**	

Appendix A: Emissions Calculations
VOC and Particulate
WAV - 3 (formerly EnterVan Line No. 1)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
WAV - 3 (Paint Booth # 20031)															
BASF, LA1200, 9741 Track Black	9.55	60%	0%	60%	0%	40%	0.04	1.33	5.70	5.70	0.28	6.73	1.23	0.21	75%
PPG, DT870G, REDUCER	6.91	100%	0%	100%	0%	0%	0.02	1.33	6.91	6.91	0.17	4.19	0.76	0	75%
PPG, DCX61G, HI SOLIDS HARDENER	8.97	16%	0%	16%	0%	84%	0.01	1.33	1.44	1.44	0.02	0.51	0.09	0.12	75%
PPG, DX330G, WAX AND GREASE REMOVER	6.36	100%	0%	100%	0%	0%	0.01	1.33	6.36	6.36	0.10	2.44	0.44	0	75%
ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	9.29	0%	0%	0%	0%	100%	0.01	1.33	0	0	0	0	0	0	100%
66003, Acetone	6.55	0%	0%	0%	0%	100%	0.22	1.33	0	0	0	0	0	0	100%
PLASTI-KOTE, M1, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.03	1.33	5.30	5.30	0.23	5.41	0.99	0.14	75%
PLASTI-KOTE, M2, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.01	1.33	5.30	5.30	0.08	1.86	0.34	0.05	75%
PPG, DBC500Q, Color Blender	7.75	0.74	0%	0.74	0%	0.26	2.00E-03	1.33	5.73	5.73	0.02	0.37	0.07	5.88E-03	75%
PPG, DC3000G, HIGH VELOCITY CLEARCOAT	7.67	0.62	0%	0.62	0%	0.38	0.16	1.33	4.75	4.75	1.02	24.56	4.48	0.69	75%
PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	7.84	0.66	0%	0.66	0%	0.34	1.00E-03	1.33	5.17	5.17	6.88E-03	0.17	0.03	3.88E-03	75%
PPG, DMC900G, STRONG WHITE	10.79	0.35	0%	0.35	0%	0.65	0.03	1.33	3.78	3.78	0.14	3.25	0.59	0.28	75%
PPG, DMC901G, STRONG TINTING BLACK	8.45	0.50	0%	0.50	0%	0.50	7.00E-03	1.33	4.26	4.26	0.04	0.95	0.17	0.04	75%
PPG, DMC902, CARBON BLACK	8.39	0.57	0%	0.57	0%	0.43	1.00E-03	1.33	4.78	4.78	6.36E-03	0.15	0.03	5.25E-03	75%
PPG, DMC903Q, WEAK TINTING BLACK	8.37	0.53	0%	0.53	0%	0.47	8.00E-03	1.33	4.44	4.44	0.05	1.13	0.21	0.05	75%
PPG, DMC921G, HIGH COLOR BLACK	8.35	0.56	0%	0.56	0%	0.44	2.50E-03	1.33	4.68	4.68	0.02	0.37	0.07	0.01	75%
PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	8.46	0.53	0%	0.53	0%	0.47	1.00E-03	1.33	4.48	4.48	5.96E-03	0.14	0.03	5.79E-03	75%
PPG, DMC981Q, CONCEPT FINE ALUMINUM	8.17	0.63	0%	0.63	0%	0.37	3.00E-04	1.33	5.12	5.12	2.04E-03	0.05	8.95E-03	1.33E-03	75%
PPG, DMD1605Q, MAGENTA	7.87	0.81	0%	0.81	0%	0.19	2.00E-03	1.33	6.35	6.35	0.02	0.41	0.07	4.42E-03	75%
PPG, DMD1606Q, PERYLENE MAROON	8.65	0.81	0%	0.81	0%	0.19	8.00E-03	1.33	7.04	7.04	0.07	1.80	0.33	0.02	75%
PPG, DMD1607Q, PHTHALO BLUE	7.96	0.78	0%	0.78	0%	0.22	3.00E-03	1.33	6.23	6.23	0.02	0.60	0.11	7.55E-03	75%
PPG, DMD1609Q, QUINDO VIOLET BC	7.97	0.76	0%	0.76	0%	0.24	1.00E-03	1.33	6.06	6.06	8.06E-03	0.19	0.04	2.79E-03	75%
PPG, DMD1610Q, TRANSPARENT ORANGE	8.23	0.70	0%	0.70	0%	0.30	4.39E-04	1.33	5.76	5.76	3.36E-03	0.08	0.01	1.58E-03	75%
PPG, DMD1675Q, PHTHALO BLUE	7.92	0.73	0%	0.73	0%	0.27	4.00E-03	1.33	5.78	5.78	0.03	0.74	0.13	0.01	75%
PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	7.96	0.80	0%	0.80	0%	0.20	1.88E-04	1.33	6.37	6.37	1.59E-03	0.04	6.97E-03	4.36E-04	75%
PPG, DMD1677Q, SCARLET RED	7.98	0.72	0%	0.72	0%	0.28	1.44E-03	1.33	5.75	5.75	0.01	0.26	0.05	4.69E-03	75%
PPG, DMD1679Q, QUINDO RED	7.82	0.77	0%	0.77	0%	0.23	6.27E-04	1.33	6.02	6.02	5.02E-03	0.12	0.02	1.64E-03	75%
PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	7.93	0.76	0%	0.76	0%	0.24	0.02	1.33	6.03	6.03	0.13	3.12	0.57	0.04	75%
PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	7.89	0.76	0%	0.76	0%	0.24	0.02	1.33	6.00	6.00	0.14	3.39	0.62	0.05	75%
PPG, DMD1682Q, COARSE ALUMINUM	7.89	0.76	0%	0.76	0%	0.24	0.01	1.33	6.00	6.00	0.10	2.45	0.45	0.04	75%
PPG, DMD1683G, BLACK MIXING BASE	7.60	0.80	0%	0.80	0%	0.20	0.02	1.33	6.08	6.08	0.12	2.92	0.53	0.03	75%
PPG, DMD1684G, BASECOAT WHITE	10.84	0.70	0%	0.70	0%	0.30	0.02	1.33	7.59	7.59	0.20	4.82	0.88	0.09	75%
PPG, DMD1686G, FINE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	5.00E-04	1.33	6.05	6.05	4.02E-03	0.10	0.02	1.32E-03	75%
PPG, DMD1687G, MEDIUM SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	4.77E-03	1.33	6.05	6.05	0.04	0.92	0.17	0.01	75%
PPG, DMD1690G, COARSE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	3.51E-03	1.33	6.05	6.05	0.03	0.68	0.12	9.24E-03	75%
PPG, DMD1693Q, PHTHALO GREEN	7.98	0.73	0%	0.73	0%	0.27	5.02E-04	1.33	5.83	5.83	3.89E-03	0.09	0.02	1.58E-03	75%
PPG, DMD1694Q, PERRINDO MAROON	7.87	0.77	0%	0.77	0%	0.23	5.00E-03	1.33	6.06	6.06	0.04	0.97	0.18	0.01	75%
PPG, DMD1696Q, DELTRON MIXING BASES	9.50	0.80	0%	0.80	0%	0.20	2.50E-04	1.33	7.60	7.60	2.53E-03	0.06	0.01	6.92E-04	75%
PPG, DMD1697Q, DBC MIXING SYSTEM	9.50	0.77	0%	0.77	0%	0.23	2.26E-03	1.33	7.32	7.32	0.02	0.53	0.10	7.19E-03	75%
PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	7.95	0.75	0%	0.75	0%	0.25	2.76E-03	1.33	5.96	5.96	0.02	0.53	0.10	7.99E-03	75%
PPG, DMD1699G, DELTRON MIXING BASES	9.50	0.81	0%	0.81	0%	0.19	2.50E-04	1.33	7.69	7.69	2.56E-03	0.06	0.01	6.59E-04	75%
PPG, DMD614Q, VAT BLUE URETHANE	8.19	0.50	0%	0.50	0%	0.50	3.26E-03	1.33	4.10	4.10	0.02	0.43	0.08	0.02	75%
PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	8.61	0.58	0%	0.58	0%	0.42	2.50E-04	1.33	4.99	4.99	1.66E-03	0.04	7.27E-03	1.32E-03	75%
PPG, DMD624Q, CARBOZOL VIOLET URETHANE	8.13	0.52	0%	0.52	0%	0.48	1.13E-03	1.33	4.23	4.23	6.35E-03	0.15	0.03	6.42E-03	75%
PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	8.65	0.48	0%	0.48	0%	0.52	1.07E-03	1.33	4.15	4.15	5.89E-03	0.14	0.03	6.99E-03	75%
PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	8.90	0.45	0%	0.45	0%	0.55	1.89E-04	1.33	4.01	4.01	1.01E-03	0.02	4.41E-03	1.35E-03	75%
PPG, DMD646Q, WEAK WHITE	8.78	0.56	0%	0.56	0%	0.44	6.90E-04	1.33	4.92	4.92	4.51E-03	0.11	0.02	3.88E-03	75%
PPG, DMD648Q, WEAK BLACK DELTRON	8.12	0.51	0%	0.51	0%	0.49	1.25E-03	1.33	4.14	4.14	6.88E-03	0.17	0.03	7.24E-03	75%
PPG, DMD691Q, GRAPHITE BLACK	8.55	0.51	0%	0.51	0%	0.49	2.50E-04	1.33	4.36	4.36	1.45E-03	0.03	6.35E-03	1.53E-03	75%
PPG, DP90LFG, EPOXY PRIMER	11.00	0.61	0%	0.61	0%	0.39	0.01	1.33	6.71	6.71	0.12	2.80	0.51	0.08	75%
PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	6.95	0.97	0%	0.97	0%	3.00%	0.02	1.33	6.74	6.74	0.15	3.54	0.65	4.99E-03	75%
PPG, DX578OZ, Basecoat Activator	8.70	0.44	0%	0.44	0%	0.56	3.14E-03	1.33	3.80	3.80	0.02	0.38	0.07	0.02	75%
PPG, DX685G, URETHANE FLATTENING AGENT	8.20	0.80	0%	0.80	0%	0.20	1.97E-03	1.33	6.56	6.56	0.02	0.41	0.08	4.71E-03	75%
PPG, DX840G, UNIVERSAL BLENDING SOLVENT	7.27	0.96	0%	0.96	0%	4.13%	3.81E-03	1.33	6.97	6.97	0.04	0.85	0.15	1.67E-03	75%
PPG, MEK-5, SATWIPES ® SW420185 Wipers,	6.71	0	0%	0	0%	1.00	0.03	1.33	0	0	0	0	0	0.30	75%
PPG, PRL88, ORANGE PEARL	20.60	0.10	0%	0.10	0%	0.90	0.01	1.33	2.06	2.06	0.04	0.86	0.16	0.35	75%
PPG, PRL89, VIOLET PEARL	20.60	0.10	0%	0.10	0%	0.90	3.30E-03	1.33	2.06	2.06	9.04E-03	0.22	0.04	0.09	75%
PPG, PRL90, SUNSET RED	21.59	0.10	0%	0.10	0%	0.90	1.68E-03	1.33	2.16	2.16	4.82E-03	0.12	0.02	0.05	75%
PPG, PRL91, PRL PEARL LINE	21.00	0.10	0%	0.10	0%	0.90	4.49E-03	1.33	2.10	2.10	0.01	0.30	0.05	0.12	75%
PPG, PRL92, PEARL LINE	19.73	9.63%	0%	9.63%	0%	0.90	4.49E-03	1.33	1.90	1.90	0.01	0.27	0.05	0.12	75%
PPG, PRL93, TINCTURE GOLD	19.73	9.98%	0%	9.98%	0%	0.90	5.05E-03	1.33	1.97	1.97	0.01	0.32	0.06	0.13	75%
PPG, PRL94, BLUE GREEN PEARL	21.00	0.10	0%	0.10	0%	0.90	2.80E-04	1.33	2.10	2.10	7.82E-04	0.02	3.43E-03	7.71E-03	75%
PPG, PRL95, BRIGHT WHITE PEARL	21.58	9.96%	0%	9.96%	0%	0.90	2.80E-04	1.33	2.15	2.15	8.01E-04	0.02	3.51E-03	7.92E-03	75%
PPG, PRL96, RUSSET PEARL	21.58	9.96%	0%	9.96%	0%	0.90	3.93E-03	1.33	2.15	2.15	0.01	0.27	0.05	0.11	75%
PPG, PRL98, FINE WHITE PEARL	17.91	0.10	0%	0.10	0%	0.90	3.93E-03	1.33	1.79	1.79	9.36E-03	0.22	0.04	0.09	75%
PPG, PRLX1, CRYSTAL RED PEARL	24.16	9.93%	0%	9.93%	0%	0.90	0.02	1.33	2.40	2.40	0.07	1.68	0.31	0.69	75%
PPG, PRLX2, CRYSTAL SILVER PEARL	23.99	9.59%	0%	9.59%	0%	0.90	5.34E-03	1.33	2.30	2.30	0.02	0.39	0.07	0.17	75%
PPG, PRLX4, CRYSTAL BLUE PEARL	18.33	9.82%	0%	9.82%	0%	0.90	1.68E-03	1.33	1.80	1.80	4.02E-03	0.10	0.02	0.04	75%
PPG, PRLX5, CRYSTAL GREEN PEARL	23.40	9.83%	0%	9.83%	0%	0.90	1.68E-03	1.33	2.30	2.30	5.14E-03	0.12	0.02	0.05	75%
PPG, PRLX6, CRYSTAL FROST RED PEARL	23.15	9.94%	0%	9.94%	0%	0.90	1.68E-03	1.33	2.30	2.30	5.14E-03	0.12	0.02	0.05	75%
PPG, PRLX7, CRYSTAL COPPER PEARL	24.16	9.93%	0%	9.93%	0%	0.90	1.68E-03	1.33	2.40	2.40	5.36E-03	0.13	0.02	0.05	75%
TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	6.50	100%	0%	100%	0%	0%	0.03	1.33	6.50	6.50	0.27	6.41	1.17	0	100%
										Subtotal worse case coating	**1.49**	**35.67**	**6.51**	**0.81**	

Appendix A: Emissions Calculations
VOC and Particulate
WAV - 3 (formerly EnterVan Line No. 1)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
WAV - 3 Undercoating (Booth #39038)															
Pure Asphalt 770	8.42	46.00%	0%	46.00%	0%	0.54	0.90	1.33	3.87	3.87	4.64	111.27	20.31	5.96	75%
Evercoat Rubberized Aerosol	8.58	40.00%	0%	40.00%	0%	0.60	0.04	1.33	3.43	3.43	0.20	4.85	0.89	0.33	75%
PPG S-0900	6.36	100.00%	0%	100.00%	0%	0	0.28	1.33	6.36	6.36	2.35	56.38	10.29	0	100%
										Total worse case coating	**6.99**	**167.65**	**30.60**	**5.96**	

PM/PM10/PM2.5 Control Efficiency: **0.95**

		VOC lb/hr	VOC lb/day	VOC tons/yr	PM/PM10/PM2.5 ton/yr
Totals	**Uncontrolled:**	**13.74**	**329.73**	**60.18**	**10.37**
	Controlled:	**13.74**	**329.73**	**60.18**	**0.52**

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used

Appendix A: Emissions Calculations
VOC and Particulate
EnterVan Line No. 1 (now WAV-3)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
Entervan Line 1 Assembly															
DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	9.34	0.40	0%	0.40	0%	0.60	0.33	0.75	3.73	3.73	0.92	22.09	4.03	0	100%
PPG, DX103G, MULTI-PREP	6.57	100%	0%	100%	0%	0%	0.02	0.75	6.57	6.57	0.08	1.89	0.35	0	100%
Accumetric Seam Sealer 18876	12.34	0.13%	0%	0%	0%	100%	0.33	0.75	0.02	0.02	3.81E-03	0.09	0.02	0	100%
PPG, DX330G, WAX AND GREASE REMOVER	6.36	100%	0%	100%	0%	0%	0.03	0.75	6.36	6.36	0.13	3.09	0.56	0	100%
TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	6.39	100%	0%	100%	0%	0%	0.03	0.75	6.39	6.39	0.13	3.11	0.57	0	100%
										Subtotal Assembly worse case coating	**1.05**	**25.18**	**4.60**	**0**	
Entervan Line 1 (Primer Booth 20030)															
PPG, DP50LF, Gray Epoxy Primer	11.75	0.34	0%	0.34	0%	0.66	0.14	0.75	3.99	3.99	0.40	9.70	1.77	0.86	75%
PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	6.91	0.35	0%	0.35	0%	0.65	0.27	0.75	2.42	2.42	0.50	11.93	2.18	1.01	75%
PPG, DP90LF Epoxy Primer	11.29	0.37	0%	0.37	0%	0.63	0.28	0.75	4.14	4.14	0.86	20.72	3.78	1.63	75%
PPG, DT870G, REDUCER	6.91	1.00	0%	1.00	0%	0	0.07	0.75	6.91	6.91	0.36	8.58	1.57	0	75%
BASF, DP402LFG, Epoxy Primer Catalyst	7.78	0.67	0%	0.67	0%	0.33	0.08	0.75	5.22	5.22	0.32	7.80	1.42	0.17	75%
PPG, DX1787G, ETCHING FILLER	8.42	0.84	0%	0.84	0%	0.16	3.00E-03	0.75	7.07	7.07	0.02	0.38	0.07	3.32E-03	75%
PPG, K201Q, PRIMER SURFACER CATALYST	8.15	0.58	0%	0.58	0%	0.42	5.00E-03	0.75	4.73	4.73	0.02	0.43	0.08	0.01	75%
PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	12.60	0.33	0%	0.33	0%	0.67	0.03	0.75	4.16	4.16	0.10	2.32	0.42	0.21	75%
PPG, K38G, HIGH BUILD PRIMER SURFACER	12.43	0.31	0%	0.31	0%	0.69	0.02	0.75	3.85	3.85	0.05	1.11	0.20	0.11	75%
PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	11.99	0.46	0%	0.46	0%	0.54	2.50E-04	0.75	5.52	5.52	1.03E-03	0.02	4.53E-03	1.33E-03	75%
U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	9.67	0.20	0%	0.20	0%	0.80	0.09	0.75	1.93	1.93	0.13	3.13	0.57	0	100%
										Subtotal Primer Booth worse case coating	**1.55**	**37.10**	**6.77**	**1.81**	
Entervan Line 1 (Paint Booth # 20008 Door & Axle)															
PPG, DX330G, WAX AND GREASE REMOVER	6.36	100.00%	0	100%	0	0%	0.01	2.08	6.36	6.36	0.18	4.22	0.77	0	100%
Dynatex GTX Seam Sealer or Accumetric	12.50	1.00%	0	1%	0	99%	0.01	2.08	0.13	0.13	2.60E-03	0.06	0.01	0	100%
Prime															
PPG, DP90LF Epoxy Primer	11.29	36.67%	0	37%	0	63%	0.01	2.08	4.14	4.14	0.09	2.07	0.38	0.16	75%
PPG, DT870G, REDUCER	6.91	100.00%	0	100%	0	0%	2.50E-03	2.08	6.91	6.91	0.04	0.86	0.16	0	75%
BASF, DP402LFG, Epoxy Primer Catalyst	7.78	67.10%	0	67%	0	33%	2.50E-03	2.08	5.22	5.22	0.03	0.65	0.12	0.01	75%
Paint															
BASF, LA1200, 9741 Track Black	9.55	59.68%	0	60%	0	40%	0.01	2.08	5.70	5.70	0.12	2.85	0.52	0.09	75%
PPG, DT870G, REDUCER	6.91	100.00%	0	100%	0	0%	2.50E-03	2.08	6.91	6.91	0.04	0.86	0.16	0	75%
PPG, DCX61G, HI SOLIDS HARDENER	8.97	16.05%	0	16%	0	84%	1.25E-03	2.08	1.44	1.44	3.74E-03	0.09	0.02	0.02	75%
										Subtotal worse case coating	**0.44**	**10.65**	**1.94**	**0.27**	

Appendix A: Emissions Calculations
VOC and Particulate
EnterVan Line No. 1 (now WAV-3)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
Entervan Line 1 (Paint Booth # 20031)															
BASF, LA1200, 9741 Track Black	9.55	60%	0%	60%	0%	40%	0.04	0.75	5.70	5.70	0.16	3.80	0.69	0.12	75%
PPG, DT870G, REDUCER	6.91	100%	0%	100%	0%	0%	0.02	0.75	6.91	6.91	0.10	2.36	0.43	0	75%
PPG, DCX61G, HI SOLIDS HARDENER	8.97	16%	0%	16%	0%	84%	0.01	0.75	1.44	1.44	0.01	0.29	0.05	0.07	75%
PPG, DX330G, WAX AND GREASE REMOVER	6.36	100%	0%	100%	0%	0%	0.01	0.75	6.36	6.36	0.06	1.37	0.25	0	75%
ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	9.29	0%	0%	0%	0%	100%	0.01	0.75	0	0	0	0	0	0	100%
66003, Acetone	6.55	0%	0%	0%	0%	100%	0.22	0.75	0	0	0	0	0	0	100%
PLASTI-KOTE, M1, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.03	0.75	5.30	5.30	0.13	3.05	0.56	0.08	75%
PLASTI-KOTE, M2, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.01	0.75	5.30	5.30	0.04	1.05	0.19	0.03	75%
PPG, DBC500Q, Color Blender	7.75	0.74	0%	0.74	0%	0.26	2.00E-03	0.75	5.73	5.73	8.60E-03	0.21	0.04	3.32E-03	75%
PPG, DC3000G, HIGH VELOCITY CLEARCOAT	7.67	0.62	0%	0.62	0%	0.38	0.16	0.75	4.75	4.75	0.58	13.85	2.53	0.39	75%
PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	7.84	0.66	0%	0.66	0%	0.34	1.00E-03	0.75	5.17	5.17	3.88E-03	0.09	0.02	2.19E-03	75%
PPG, DMC900G, STRONG WHITE	10.79	0.35	0%	0.35	0%	0.65	0.03	0.75	3.78	3.78	0.08	1.84	0.33	0.16	75%
PPG, DMC901G, STRONG TINTING BLACK	8.45	0.50	0%	0.50	0%	0.50	7.00E-03	0.75	4.26	4.26	0.02	0.54	0.10	0.02	75%
PPG, DMC902, CARBON BLACK	8.39	0.57	0%	0.57	0%	0.43	1.00E-03	0.75	4.78	4.78	3.59E-03	0.09	0.02	2.96E-03	75%
PPG, DMC903Q, WEAK TINTING BLACK	8.37	0.53	0%	0.53	0%	0.47	8.00E-03	0.75	4.44	4.44	0.03	0.64	0.12	0.03	75%
PPG, DMC921G, HIGH COLOR BLACK	8.35	0.56	0%	0.56	0%	0.44	2.50E-03	0.75	4.68	4.68	8.77E-03	0.21	0.04	7.54E-03	75%
PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	8.46	0.53	0%	0.53	0%	0.47	1.00E-03	0.75	4.48	4.48	3.36E-03	0.08	0.01	3.27E-03	75%
PPG, DMC981Q, CONCEPT FINE ALUMINUM	8.17	0.63	0%	0.63	0%	0.37	3.00E-04	0.75	5.12	5.12	1.15E-03	0.03	5.05E-03	7.51E-04	75%
PPG, DMD1605Q, MAGENTA	7.87	0.81	0%	0.81	0%	0.19	2.00E-03	0.75	6.35	6.35	9.53E-03	0.23	0.04	2.49E-03	75%
PPG, DMD1606Q, PERYLENE MAROON	8.65	0.81	0%	0.81	0%	0.19	8.00E-03	0.75	7.04	7.04	0.04	1.01	0.19	0.01	75%
PPG, DMD1607Q, PHTHALO BLUE	7.96	0.78	0%	0.78	0%	0.22	3.00E-03	0.75	6.23	6.23	0.01	0.34	0.06	4.26E-03	75%
PPG, DMD1609Q, QUINDO VIOLET BC	7.97	0.76	0%	0.76	0%	0.24	1.00E-03	0.75	6.06	6.06	4.54E-03	0.11	0.02	1.57E-03	75%
PPG, DMD1610Q, TRANSPARENT ORANGE	8.23	0.70	0%	0.70	0%	0.30	4.39E-04	0.75	5.76	5.76	1.90E-03	0.05	8.31E-03	8.90E-04	75%
PPG, DMD1675Q, PHTHALO BLUE	7.92	0.73	0%	0.73	0%	0.27	4.00E-03	0.75	5.78	5.78	0.02	0.42	0.08	7.02E-03	75%
PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	7.96	0.80	0%	0.80	0%	0.20	1.88E-04	0.75	6.37	6.37	8.98E-04	0.02	3.93E-03	2.46E-04	75%
PPG, DMD1677Q, SCARLET RED	7.98	0.72	0%	0.72	0%	0.28	1.44E-03	0.75	5.75	5.75	6.21E-03	0.15	0.03	2.64E-03	75%
PPG, DMD1679Q, QUINDO RED	7.82	0.77	0%	0.77	0%	0.23	6.27E-04	0.75	6.02	6.02	2.83E-03	0.07	0.01	9.26E-04	75%
PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	7.93	0.76	0%	0.76	0%	0.24	0.02	0.75	6.03	6.03	0.07	1.76	0.32	0.03	75%
PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	7.89	0.76	0%	0.76	0%	0.24	0.02	0.75	6.00	6.00	0.08	1.91	0.35	0.03	75%
PPG, DMD1682Q, COARSE ALUMINUM	7.89	0.76	0%	0.76	0%	0.24	0.01	0.75	6.00	6.00	0.06	1.38	0.25	0.02	75%
PPG, DMD1683G, BLACK MIXING BASE	7.60	0.80	0%	0.80	0%	0.20	0.02	0.75	6.08	6.08	0.07	1.65	0.30	0.02	75%
PPG, DMD1684G, BASECOAT WHITE	10.84	0.70	0%	0.70	0%	0.30	0.02	0.75	7.59	7.59	0.11	2.72	0.50	0.05	75%
PPG, DMD1686G, FINE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	5.00E-04	0.75	6.05	6.05	2.27E-03	0.05	9.94E-03	7.42E-04	75%
PPG, DMD1687G, MEDIUM SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	4.77E-03	0.75	6.05	6.05	0.02	0.52	0.09	7.08E-03	75%
PPG, DMD1690G, COARSE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	3.51E-03	0.75	6.05	6.05	0.02	0.38	0.07	5.21E-03	75%
PPG, DMD1693Q, PHTHALO GREEN	7.98	0.73	0%	0.73	0%	0.27	5.02E-04	0.75	5.83	5.83	2.19E-03	0.05	9.61E-03	8.88E-04	75%
PPG, DMD1694Q, PERRINDO MAROON	7.87	0.77	0%	0.77	0%	0.23	5.00E-03	0.75	6.06	6.06	0.02	0.55	0.10	7.43E-03	75%
PPG, DMD1696Q, DELTRON MIXING BASES	9.50	0.80	0%	0.80	0%	0.20	2.50E-04	0.75	7.60	7.60	1.43E-03	0.03	6.24E-03	3.90E-04	75%
PPG, DMD1697Q, DBC MIXING SYSTEM	9.50	0.77	0%	0.77	0%	0.23	2.26E-03	0.75	7.32	7.32	0.01	0.30	0.05	4.06E-03	75%
PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	7.95	0.75	0%	0.75	0%	0.25	2.76E-03	0.75	5.96	5.96	0.01	0.30	0.05	4.50E-03	75%
PPG, DMD1699G, DELTRON MIXING BASES	9.50	0.81	0%	0.81	0%	0.19	2.50E-04	0.75	7.69	7.69	1.44E-03	0.03	6.32E-03	3.72E-04	75%
PPG, DMD614Q, VAT BLUE URETHANE	8.19	0.50	0%	0.50	0%	0.50	3.26E-03	0.75	4.10	4.10	0.01	0.24	0.04	0.01	75%
PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	8.61	0.58	0%	0.58	0%	0.42	2.50E-04	0.75	4.99	4.99	9.36E-04	0.02	4.10E-03	7.42E-04	75%
PPG, DMD624Q, CARBOZOL VIOLET URETHANE	8.13	0.52	0%	0.52	0%	0.48	1.13E-03	0.75	4.23	4.23	3.58E-03	0.09	0.02	3.62E-03	75%
PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	8.65	0.48	0%	0.48	0%	0.52	1.07E-03	0.75	4.15	4.15	3.32E-03	0.08	0.01	3.94E-03	75%
PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	8.90	0.45	0%	0.45	0%	0.55	1.89E-04	0.75	4.01	4.01	5.68E-04	0.01	2.49E-03	7.60E-04	75%
PPG, DMD646Q, WEAK WHITE	8.78	0.56	0%	0.56	0%	0.44	6.90E-04	0.75	4.92	4.92	2.54E-03	0.06	0.01	2.19E-03	75%
PPG, DMD648Q, WEAK BLACK DELTRON	8.12	0.51	0%	0.51	0%	0.49	1.25E-03	0.75	4.14	4.14	3.88E-03	0.09	0.02	4.08E-03	75%
PPG, DMD691Q, GRAPHITE BLACK	8.55	0.51	0%	0.51	0%	0.49	2.50E-04	0.75	4.36	4.36	8.18E-04	0.02	3.58E-03	8.60E-04	75%
PPG, DP90LFG, EPOXY PRIMER	11.00	0.61	0%	0.61	0%	0.39	0.01	0.75	6.71	6.71	0.07	1.58	0.29	0.05	75%
PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	6.95	0.97	0%	0.97	0%	3.00%	0.02	0.75	6.74	6.74	0.08	1.99	0.36	2.82E-03	75%
PPG, DX578OZ, Basecoat Activator	8.70	0.44	0%	0.44	0%	0.56	3.14E-03	0.75	3.80	3.80	8.95E-03	0.21	0.04	0.01	75%
PPG, DX685G, URETHANE FLATTENING AGENT	8.20	0.80	0%	0.80	0%	0.20	1.97E-03	0.75	6.56	6.56	9.69E-03	0.23	0.04	2.65E-03	75%
PPG, DX840G, UNIVERSAL BLENDING SOLVENT	7.27	0.96	0%	0.96	0%	4.13%	3.81E-03	0.75	6.97	6.97	0.02	0.48	0.09	9.39E-04	75%
PPG, MEK-5, SATWIPES ® SW420185 Wipers,	6.71	0	0%	0	0%	1.00	0.03	0.75	0	0	0	0	0	0.17	75%
PPG, PRL88, ORANGE PEARL	20.60	0.10	0%	0.10	0%	0.90	0.01	0.75	2.06	2.06	0.02	0.48	0.09	0.20	75%
PPG, PRL89, VIOLET PEARL	20.60	0.10	0%	0.10	0%	0.90	3.30E-03	0.75	2.06	2.06	5.10E-03	0.12	0.02	0.05	75%
PPG, PRL90, SUNSET RED	21.59	0.10	0%	0.10	0%	0.90	1.68E-03	0.75	2.16	2.16	2.72E-03	0.07	0.01	0.03	75%
PPG, PRL91, PRL PEARL LINE	21.00	0.10	0%	0.10	0%	0.90	4.49E-03	0.75	2.10	2.10	7.07E-03	0.17	0.03	0.07	75%
PPG, PRL92, PEARL LINE	19.73	9.63%	0%	9.63%	0%	0.90	4.49E-03	0.75	1.90	1.90	6.40E-03	0.15	0.03	0.07	75%
PPG, PRL93, TINCTURE GOLD	19.73	9.98%	0%	9.98%	0%	0.90	5.05E-03	0.75	1.97	1.97	7.46E-03	0.18	0.03	0.07	75%
PPG, PRL94, BLUE GREEN PEARL	21.00	0.10	0%	0.10	0%	0.90	2.80E-04	0.75	2.10	2.10	4.41E-04	0.01	1.93E-03	4.35E-03	75%
PPG, PRL95, BRIGHT WHITE PEARL	21.58	9.96%	0%	9.96%	0%	0.90	2.80E-04	0.75	2.15	2.15	4.52E-04	0.01	1.98E-03	4.47E-03	75%
PPG, PRL96, RUSSET PEARL	21.58	9.96%	0%	9.96%	0%	0.90	3.93E-03	0.75	2.15	2.15	6.34E-03	0.15	0.03	0.06	75%
PPG, PRL98, FINE WHITE PEARL	17.91	0.10	0%	0.10	0%	0.90	3.93E-03	0.75	1.79	1.79	5.28E-03	0.13	0.02	0.05	75%
PPG, PRLX1, CRYSTAL RED PEARL	24.16	9.93%	0%	9.93%	0%	0.90	0.02	0.75	2.40	2.40	0.04	0.95	0.17	0.39	75%
PPG, PRLX2, CRYSTAL SILVER PEARL	23.99	9.59%	0%	9.59%	0%	0.90	5.34E-03	0.75	2.30	2.30	9.21E-03	0.22	0.04	0.10	75%
PPG, PRLX4, CRYSTAL BLUE PEARL	18.33	9.82%	0%	9.82%	0%	0.90	1.68E-03	0.75	1.80	1.80	2.27E-03	0.05	9.93E-03	0.02	75%
PPG, PRLX5, CRYSTAL GREEN PEARL	23.40	9.83%	0%	9.83%	0%	0.90	1.68E-03	0.75	2.30	2.30	2.90E-03	0.07	0.01	0.03	75%
PPG, PRLX6, CRYSTAL FROST RED PEARL	23.15	9.94%	0%	9.94%	0%	0.90	1.68E-03	0.75	2.30	2.30	2.90E-03	0.07	0.01	0.03	75%
PPG, PRLX7, CRYSTAL COPPER PEARL	24.16	9.93%	0%	9.93%	0%	0.90	1.68E-03	0.75	2.40	2.40	3.02E-03	0.07	0.01	0.03	75%
TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	6.50	100%	0%	100%	0%	0%	0.03	0.75	6.50	6.50	0.15	3.62	0.66	0	100%
										Subtotal worse case coating	**0.84**	**20.11**	**3.67**	**0.46**	

Appendix A: Emissions Calculations
VOC and Particulate
EnterVan Line No. 1 (now WAV-3)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
Entervan Line 1 Undercoating (Booth #39038)															
Pure Asphalt 770	8.42	46.00%	0%	46.00%	0%	0.54	0.90	0.75	3.87	3.87	2.61	62.75	11.45	3.36	75%
Evercoat Rubberized Aerosol	8.58	40.00%	0%	40.00%	0%	0.60	0.04	0.75	3.43	3.43	0.11	2.74	0.50	0.19	75%
PPG S-0900	6.36	100.00%	0%	100.00%	0%	0	0.28	0.75	6.36	6.36	1.32	31.79	5.80	0	100%
										Total worse case coating	**3.94**	**94.54**	**17.25**	**3.36**	

METHODOLOGY
Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used

PM/PM10/PM2.5 Control Efficiency: **0.95**

		VOC lb/hr	VOC lb/day	VOC tons/yr	PM/PM10/PM2.5 ton/yr
Totals	**Uncontrolled:**	**7.82**	**187.58**	**34.23**	**5.89**
	Controlled:	**7.82**	**187.58**	**34.23**	**0.29**

Appendix A: Emissions Calculations
VOC and Particulate
WAV - 2 (formerly EnterVan Line No. 2)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
WAV - 2 Assembly															
DYNATEX, 49294, DYNATEX CLEAR RTV SILICONE SEALANT	8.53	0.10	0%	0.10	0%	0.90	0.34	1.00	0.85	0.85	0.29	6.94	1.27	0	100%
DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	9.34	0.40	0%	0.40	0%	0.60	0.33	1.00	3.73	3.73	1.23	29.45	5.38	0	100%
Accumetric Seam Sealer 18876	12.34	0.13%	0%	1.25E-03	0%	1.00	0.33	1.00	0.02	0.02	5.07E-03	0.12	0.02	0	100%
PPG, DX103G, MULTI-PREP	6.57	100%	0%	100%	0%	0%	0.02	1.00	6.57	6.57	0.11	2.52	0.46	0	100%
ROYAL ADHESIVES AND SEALANTS, DC12176, SILAPRENE SOLIDSEA	9.75	3.50%	0%	3.50%	0%	0.97	0.21	1.00	0.34	0.34	0.07	1.73	0.32	0	100%
ROYAL ADHESIVES AND SEALANTS, DC12653, SILAPRENE (HI-BOND	5.00	0.78	0%	0.78	0%	0.22	0.22	1.00	3.90	3.90	0.85	20.50	3.74	0.37	65%
ROYAL ADHESIVES AND SEALANTS, DC12742, SILAPRENE ADHESIVE	7.04	0%	0%	0%	0%	100%	0.33	1.00	0	0	0	0	0	0	100%
PPG, DX330G, WAX AND GREASE REMOVER	6.36	100%	0%	100%	0%	0%	0.03	1.00	6.36	6.36	0.17	4.12	0.75	0	100%
TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	6.39	100%	0%	100%	0%	0%	0.42	1.00	6.39	6.39	2.66	63.95	11.67	0	100%
										Subtotal worse case coating	**3.89**	**93.40**	**17.05**	**0**	
WAV - 2 (Prime Booth 20032)															
PPG, DP50LF, Gray Epoxy Primer	11.75	0.34	0%	0.34	0%	0.66	0.14	1.00	3.99	3.99	0.54	12.93	2.36	1.15	75%
PPG, DP90LF Epoxy Primer	11.29	0.37	0%	0.37	0%	0.63	0.18	1.00	4.14	4.14	0.75	18.08	3.30	1.42	75%
PPG, DT870G, REDUCER	6.91	1.00	0%	1.00	0%	0	0.05	1.00	6.91	6.91	0.31	7.46	1.36	0	75%
BASF, DP402LFG, Epoxy Primer Catalyst	7.78	0.67	0%	0.67	0%	0.33	0.18	1.00	5.22	5.22	0.95	22.80	4.16	0.51	75%
PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	6.91	100%	0%	100%	0%	0%	0.27	1.00	6.91	6.91	1.89	45.44	8.29	0	75%
PPG, K201O, PRIMER SURFACER CATALYST	8.15	0.58	0%	0.58	0%	0.42	5.19E-03	1.00	4.73	4.73	0.02	0.59	0.11	0.02	75%
PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	12.60	0.33	0%	0.33	0%	0.67	0.03	1.00	4.16	4.16	0.13	3.10	0.56	0.29	75%
PPG, K38G, HIGH BUILD PRIMER SURFACER	12.43	0.31	0%	0.31	0%	0.69	0.02	1.00	3.85	3.85	0.06	1.48	0.27	0.15	75%
PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	11.99	0.46	0%	0.46	0%	0.54	2.50E-04	1.00	5.52	5.52	1.38E-03	0.03	6.04E-03	1.77E-03	75%
U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	9.67	0.20	0%	0.20	0%	0.80	0.09	1.00	1.93	1.93	0.17	4.18	0.76	0	100%
										Subtotal worse case coating	**3.91**	**93.79**	**17.12**	**1.94**	

Appendix A: Emissions Calculations
VOC and Particulate
WAV - 2 (formerly EnterVan Line No. 2)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
WAV - 2 (Paint Booth 20033)															
DBC Deltron 2000 Basecoat	7.55	89.44%	0	89%	0%	11%	0.01	1.00	6.75	6.75	0.08	1.94	0.35	0.01	75%
DX 870 Reducer	6.91	100.00%	0	100%	0%	0%	0.01	1.00	6.91	6.91	0.08	1.99	0.36	0	75%
DX 57 Hardner	8.81	18.61%	0	19%	0%	81%	4.00E-03	1.00	1.64	1.64	6.56E-03	0.16	0.03	0.03	75%
PPG, DX1787G, ETCHING FILLER	7.04	99.12%	0.00%	99%	0%	1%	6.00E-03	1.00	6.98	6.98	0.04	1.00	0.18	4.07E-04	75%
DX 1788 Etching catalyst	7.04	99.12%	0	99%	0%	1%	6.00E-03	1.00	6.98	6.98	0.04	1.00	0.18	4.07E-04	75%
Clear Coat															
DCH 3070	8.73	26.23%	0	26%	0%	74%	8.00E-03	1.00	2.29	2.29	0.02	0.44	0.08	0.06	75%
DC 3000	7.67	44.98%	0	45%	0%	55%	0.02	1.00	3.45	3.45	0.07	1.66	0.30	0.09	75%
Sealer															
K36	12.52	32.75%	0.22	11%	0%	67%	8.00E-03	1.00	1.35	1.35	0.01	0.26	0.05	0.07	75%
DMC 902	8.39	56.97%	0	57%	0%	43%	8.00E-03	1.00	4.78	4.78	0.04	0.92	0.17	0.03	75%
DX 870	6.91	100.00%	0	100%	0%	0%	8.00E-03	1.00	6.91	6.91	0.06	1.33	0.24	0	75%
DCX 61	8.97	16.05%	0	16%	0%	84%	8.00E-03	1.00	1.44	1.44	0.01	0.28	0.05	0.07	75%
Track Black															
BASF Track Black	9.50	4.80%	0	5%	0%	95%	0.02	1.00	0.46	0.46	0.01	0.25	0.05	0.23	75%
DT870	6.91	100.00%	0	100%	0%	0%	4.00E-03	1.00	6.91	6.91	0.03	0.66	0.12	0	75%
DCX 61	8.97	16.05%	0	16%	0%	84%	6.00E-03	1.00	1.44	1.44	8.64E-03	0.21	0.04	0.05	75%
ROYAL ADHESIVES AND SEALANTS, DC12439, HYRA FASTEN ADHES	8.99	0%	0%	0%	0%	100%	0.06	1.00	0	0	0	0	0	0	100%
ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHE	9.29	0%	0%	0%	0%	100%	0.01	1.00	0	0	0	0	0	0	100%
66003, Acetone	6.55	0%	0%	0%	0%	100%	0.22	1.00	0	0	0	0	0	0	100%
PLASTI-KOTE, M1, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.03	1.00	5.30	5.30	0.17	4.04	0.74	0.11	75%
PLASTI-KOTE, M2, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.01	1.00	5.30	5.30	0.06	1.33	0.24	0.03	75%
PPG, DBC500Q, Color Blender	7.75	0.74	0%	0.74	0%	0.26	1.91E-03	1.00	5.73	5.73	0.01	0.26	0.05	4.22E-03	75%
PPG, DC3000G, HIGH VELOCITY CLEARCOAT	7.67	0.62	0%	0.62	0%	0.38	0.16	1.00	4.75	4.75	0.77	18.43	3.36	0.52	75%
PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	7.84	0.66	0%	0.66	0%	0.34	1.40E-03	1.00	5.17	5.17	7.24E-03	0.17	0.03	4.09E-03	75%
PPG, DMC900G, STRONG WHITE	10.79	0.35	0%	0.35	0%	0.65	0.03	1.00	3.78	3.78	0.10	2.41	0.44	0.20	75%
PPG, DMC901G, STRONG TINTING BLACK	8.45	0.50	0%	0.50	0%	0.50	6.78E-03	1.00	4.26	4.26	0.03	0.69	0.13	0.03	75%
PPG, DMC902, CARBON BLACK	8.39	0.57	0%	0.57	0%	0.43	5.02E-04	1.00	4.78	4.78	2.40E-03	0.06	0.01	1.98E-03	75%
PPG, DMC903Q, WEAK TINTING BLACK	8.37	0.53	0%	0.53	0%	0.47	7.84E-03	1.00	4.44	4.44	0.03	0.83	0.15	0.03	75%
PPG, DMC921G, HIGH COLOR BLACK	8.35	0.56	0%	0.56	0%	0.44	2.50E-04	1.00	4.68	4.68	1.17E-03	0.03	5.12E-03	1.01E-03	75%
PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	8.46	0.53	0%	0.53	0%	0.47	1.13E-03	1.00	4.48	4.48	5.07E-03	0.12	0.02	4.92E-03	75%
PPG, DMC981Q, CONCEPT FINE ALUMINUM	8.17	0.63	0%	0.63	0%	0.37	3.13E-04	1.00	5.12	5.12	1.60E-03	0.04	7.02E-03	1.04E-03	75%
PPG, DMD1605Q, MAGENTA	7.87	0.81	0%	0.81	0%	0.19	1.56E-03	1.00	6.35	6.35	9.91E-03	0.24	0.04	2.59E-03	75%
PPG, DMD1606Q, PERYLENE MAROON	8.65	0.81	0%	0.81	0%	0.19	8.10E-03	1.00	7.04	7.04	0.06	1.37	0.25	0.01	75%
PPG, DMD1607Q, PHTHALO BLUE	7.96	0.78	0%	0.78	0%	0.22	2.95E-03	1.00	6.23	6.23	0.02	0.44	0.08	0.02	0%
PPG, DMD1609Q, QUINDO VIOLET BC	7.97	0.76	0%	0.76	0%	0.24	6.90E-04	1.00	6.06	6.06	4.18E-03	0.10	0.02	1.45E-03	75%
PPG, DMD1610Q, TRANSPARENT ORANGE	8.23	0.70	0%	0.70	0%	0.30	4.39E-04	1.00	5.76	5.76	2.53E-03	0.06	0.01	1.19E-03	75%
PPG, DMD1675Q, PHTHALO BLUE	7.92	0.73	0%	0.73	0%	0.27	3.57E-03	1.00	5.78	5.78	0.02	0.50	0.09	8.36E-03	75%
PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	7.96	0.80	0%	0.80	0%	0.20	1.88E-04	1.00	6.37	6.37	1.20E-03	0.03	5.24E-03	3.28E-04	75%
PPG, DMD1677Q, SCARLET RED	7.98	0.72	0%	0.72	0%	0.28	1.44E-03	1.00	5.75	5.75	8.27E-03	0.20	0.04	3.52E-03	75%
PPG, DMD1679Q, QUINDO RED	7.82	0.77	0%	0.77	0%	0.23	6.27E-04	1.00	6.02	6.02	3.78E-03	0.09	0.02	1.23E-03	75%
PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	7.93	0.76	0%	0.76	0%	0.24	0.02	1.00	6.03	6.03	0.10	2.34	0.43	0.03	75%
PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	7.89	0.76	0%	0.76	0%	0.24	0.02	1.00	6.00	6.00	0.11	2.55	0.46	0.04	75%
PPG, DMD1682Q, COARSE ALUMINUM	7.89	0.76	0%	0.76	0%	0.24	0.01	1.00	6.00	6.00	0.08	1.84	0.34	0.03	75%
PPG, DMD1683G, BLACK MIXING BASE	7.60	0.80	0%	0.80	0%	0.20	0.02	1.00	6.08	6.08	0.09	2.20	0.40	0.03	75%
PPG, DMD1684G, BASECOAT WHITE	10.84	0.70	0%	0.70	0%	0.30	0.02	1.00	7.59	7.59	0.15	3.62	0.66	0.07	75%
PPG, DMD1686G, FINE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	5.02E-04	1.00	6.05	6.05	3.04E-03	0.07	0.01	9.94E-04	75%
PPG, DMD1687G, MEDIUM SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	4.77E-03	1.00	6.05	6.05	0.03	0.69	0.13	9.44E-03	75%
PPG, DMD1690G, COARSE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	3.51E-03	1.00	6.05	6.05	0.02	0.51	0.09	6.95E-03	75%
PPG, DMD1693Q, PHTHALO GREEN	7.98	0.73	0%	0.73	0%	0.27	5.02E-04	1.00	5.83	5.83	2.92E-03	0.07	0.01	1.18E-03	75%
PPG, DMD1694Q, PERRINDO MAROON	7.87	0.77	0%	0.77	0%	0.23	5.02E-03	1.00	6.06	6.06	0.03	0.73	0.13	9.95E-03	75%
PPG, DMD1696Q, DELTRON MIXING BASES	9.50	0.80	0%	0.80	0%	0.20	2.50E-04	1.00	7.60	7.60	1.90E-03	0.05	8.32E-03	5.20E-04	75%
PPG, DMD1697Q, DBC MIXING SYSTEM	9.50	0.77	0%	0.77	0%	0.23	2.26E-03	1.00	7.32	7.32	0.02	0.40	0.07	5.41E-03	75%
PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	7.95	0.75	0%	0.75	0%	0.25	2.76E-03	1.00	5.96	5.96	0.02	0.39	0.07	6.01E-03	75%
PPG, DMD1699G, DELTRON MIXING BASES	9.50	0.81	0%	0.81	0%	0.19	2.50E-04	1.00	7.69	7.69	1.92E-03	0.05	8.42E-03	4.95E-04	75%
PPG, DMD614Q, VAT BLUE URETHANE	8.19	0.50	0%	0.50	0%	0.50	3.26E-03	1.00	4.10	4.10	0.01	0.32	0.06	0.01	75%
PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	8.61	0.58	0%	0.58	0%	0.42	2.50E-04	1.00	4.99	4.99	1.25E-03	0.03	5.47E-03	9.90E-04	75%
PPG, DMD624Q, CARBOZOL VIOLET URETHANE	8.13	0.52	0%	0.52	0%	0.48	1.13E-03	1.00	4.23	4.23	4.78E-03	0.11	0.02	4.83E-03	75%
PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	8.65	0.48	0%	0.48	0%	0.52	1.07E-03	1.00	4.15	4.15	4.43E-03	0.11	0.02	5.26E-03	75%
PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	8.90	0.45	0%	0.45	0%	0.55	1.88E-04	1.00	4.01	4.01	7.53E-04	0.02	3.30E-03	1.01E-03	75%
PPG, DMD646Q, WEAK WHITE	8.78	0.56	0%	0.56	0%	0.44	6.91E-04	1.00	4.92	4.92	3.40E-03	0.08	0.01	2.92E-03	75%
PPG, DMD648Q, WEAK BLACK DELTRON	8.12	0.51	0%	0.51	0%	0.49	1.26E-03	1.00	4.14	4.14	5.20E-03	0.12	0.02	5.47E-03	75%
PPG, DMD691Q, GRAPHITE BLACK	8.55	0.51	0%	0.51	0%	0.49	2.50E-04	1.00	4.36	4.36	1.09E-03	0.03	4.77E-03	1.15E-03	75%
PPG, DP90LFG, EPOXY PRIMER	11.00	0.61	0%	0.61	0%	0.39	0.01	1.00	6.71	6.71	0.09	2.10	0.38	0.06	75%
PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	6.95	0.97	0%	0.97	0%	0.03	0.02	1.00	6.74	6.74	0.11	2.66	0.49	3.75E-03	75%
PPG, DX578OZ, Basecoat Activator	8.70	0.44	0%	0.44	0%	0.56	3.14E-03	1.00	3.80	3.80	0.01	0.29	0.05	0.02	75%
PPG, DX685G, URETHANE FLATTENING AGENT	8.20	0.80	0%	0.80	0%	0.20	1.96E-03	1.00	6.56	6.56	0.01	0.31	0.06	3.52E-03	75%
PPG, DX840G, UNIVERSAL BLENDING SOLVENT	7.27	0.96	0%	0.96	0%	4.13%	3.81E-03	1.00	6.97	6.97	0.03	0.64	0.12	1.25E-03	75%
PPG, MEK-5, SATWIPES® SW420185 Wipers,	6.71	0	0%	0	0%	100%	0.03	1.00	0	0	0	0	0	0.23	75%
PPG, PRL88, ORANGE PEARL	20.60	0.10	0%	0.10	0%	0.90	0.01	1.00	2.06	2.06	0.03	0.65	0.12	0.27	75%
PPG, PRL89, VIOLET PEARL	20.60	0.10	0%	0.10	0%	0.90	3.37E-03	1.00	2.06	2.06	6.94E-03	0.17	0.03	0.07	75%
PPG, PRL90, SUNSET RED	21.59	0.10	0%	0.10	0%	0.90	1.68E-03	1.00	2.16	2.16	3.63E-03	0.09	0.02	0.04	75%
PPG, PRL91, PRL PEARL LINE	21.00	0.10	0%	0.10	0%	0.90	4.49E-03	1.00	2.10	2.10	9.43E-03	0.23	0.04	0.09	75%
PPG, PRL92, PEARL LINE	19.73	9.63%	0%	9.63%	0%	0.90	4.49E-03	1.00	1.90	1.90	8.53E-03	0.20	0.04	0.09	75%
PPG, PRL93, TINCTURE GOLD	19.73	9.98%	0%	9.98%	0%	0.90	5.05E-03	1.00	1.97	1.97	9.95E-03	0.24	0.04	0.10	75%
PPG, PRL94, BLUE GREEN PEARL	21.00	0.10	0%	0.10	0%	0.90	2.80E-04	1.00	2.10	2.10	5.88E-04	0.01	2.58E-03	5.79E-03	75%
PPG, PRL95, BRIGHT WHITE PEARL	21.58	9.96%	0%	9.96%	0%	0.90	2.80E-04	1.00	2.15	2.15	6.02E-04	0.01	2.64E-03	5.96E-03	75%
PPG, PRL96, RUSSET PEARL	21.58	9.96%	0%	9.96%	0%	0.90	3.93E-03	1.00	2.15	2.15	8.45E-03	0.20	0.04	0.08	75%
PPG, PRL98, FINE WHITE PEARL	17.91	0.10	0%	0.10	0%	0.90	3.93E-03	1.00	1.79	1.79	7.04E-03	0.17	0.03	0.07	75%
PPG, PRLX1, CRYSTAL RED PEARL	24.16	9.93%	0%	9.93%	0%	0.90	0.02	1.00	2.40	2.40	0.05	1.26	0.23	0.52	75%
PPG, PRLX2, CRYSTAL SILVER PEARL	23.99	9.59%	0%	9.59%	0%	0.90	5.34E-03	1.00	2.30	2.30	0.01	0.29	0.05	0.13	75%
PPG, PRLX4, CRYSTAL BLUE PEARL	18.33	9.82%	0%	9.82%	0%	0.90	1.68E-03	1.00	1.80	1.80	3.02E-03	0.07	0.01	0.03	75%
PPG, PRLX5, CRYSTAL GREEN PEARL	23.40	9.83%	0%	9.83%	0%	0.90	1.68E-03	1.00	2.30	2.30	3.86E-03	0.09	0.02	0.04	75%
PPG, PRLX6, CRYSTAL FROST RED PEARL	23.15	9.94%	0%	9.94%	0%	0.90	1.68E-03	1.00	2.30	2.30	3.86E-03	0.09	0.02	0.04	75%
PPG, PRLX7, CRYSTAL COPPER PEARL	24.16	9.93%	0%	9.93%	0%	0.90	1.68E-03	1.00	2.40	2.40	4.03E-03	0.10	0.02	0.04	75%
TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	6.50	100%	0%	100%	0%	0%	0.03	1.00	6.50	6.50	0.20	4.82	0.88	0	100%
										Subtotal worse case coating	**1.30**	**31.20**	**5.69**	**0.70**	

Appendix A: Emissions Calculations
VOC and Particulate
WAV - 2 (formerly EnterVan Line No. 2)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
WAV - 2 Undercoating (39040)															
Pure Asphalt 770	8.42	46.00%	0%	0.46	0%	0.54	0.90	1.00	3.87	3.87	3.49	83.66	15.27	4.48	75%
Evercoat Rubberized Aerosol	8.58	40.00%	0%	0.40	0%	0.60	0.04	1.00	3.43	3.43	0.15	3.65	0.67	0.25	75%
PPG S-0900	6.36	100.00%	0%	1.00	0%	0	0.28	1.00	6.36	6.36	1.77	42.39	7.74	0	75%
										Total worse case coating	**5.25**	**126.05**	**23.00**	**4.48**	

METHODOLOGY
Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used

PM/PM10/PM2.5 Control Efficiency: **0.95**

		VOC lb/hr	VOC lb/day	VOC tons/yr	PM/PM10/PM2.5 ton/yr
Totals	**Uncontrolled:**	**14.35**	**344.44**	**62.86**	**7.12**
	Controlled:	**14.35**	**344.44**	**62.86**	**0.36**

Appendix A: Emissions Calculations
VOC and Particulate
EnterVan Line No. 2 (Now WAV-2)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
Entervan Line 2 Assembly															
DYNATEX, 49294, DYNATEX CLEAR RTV SILICONE SEALANT	8.53	0.10	0%	0.10	0%	0.90	0.34	0.75	0.85	0.85	0.22	5.21	0.95	0	100%
DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	9.34	0.40	0%	0.40	0%	0.60	0.33	0.75	3.73	3.73	0.92	22.09	4.03	0	100%
Accumetric Seam Sealer 18876	12.34	0.13%	0%	1.25E-03	0%	1.00	0.33	0.75	0.02	0.02	3.81E-03	0.09	0.02	0	100%
PPG, DX103G, MULTI-PREP	6.57	100%	0%	100%	0%	0%	0.02	0.75	6.57	6.57	0.08	1.89	0.35	0	100%
ROYAL ADHESIVES AND SEALANTS, DC12176, SILAPRENE SOLIDSEAL	9.75	3.50%	0%	3.50%	0%	0.97	0.21	0.75	0.34	0.34	0.05	1.30	0.24	0	100%
ROYAL ADHESIVES AND SEALANTS, DC12653, SILAPRENE (HI-BOND 1000) (CAN)	5.00	0.78	0%	0.78	0%	0.22	0.22	0.75	3.90	3.90	0.64	15.37	2.81	0.28	65%
ROYAL ADHESIVES AND SEALANTS, DC12742, SILAPRENE ADHESIVE	7.04	0%	0%	0%	0%	100%	0.33	0.75	0	0	0	0	0	0	100%
PPG, DX330G, WAX AND GREASE REMOVER	6.36	100%	0%	100%	0%	0%	0.03	0.75	6.36	6.36	0.13	3.09	0.56	0	100%
TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	6.39	100%	0%	100%	0%	0%	0.42	0.75	6.39	6.39	2.00	47.96	8.75	0	100%
										Subtotal worse case coating	**2.92**	**70.05**	**12.78**	**0**	
Entervan Line 2 (Prime Booth 20032)															
PPG, DP50LF, Gray Epoxy Primer	11.75	0.34	0%	0.34	0%	0.66	0.14	0.75	3.99	3.99	0.40	9.70	1.77	0.86	75%
PPG, DP90LF Epoxy Primer	11.29	0.37	0%	0.37	0%	0.63	0.18	0.75	4.14	4.14	0.57	13.56	2.48	1.07	75%
PPG, DT870G, REDUCER	6.91	1.00	0%	1.00	0%	0	0.05	0.75	6.91	6.91	0.23	5.60	1.02	0	75%
BASF, DP402LFG, Epoxy Primer Catalyst	7.78	0.67	0%	0.67	0%	0.33	0.18	0.75	5.22	5.22	0.71	17.10	3.12	0.38	75%
PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	6.91	100%	0%	100%	0%	0%	0.27	0.75	6.91	6.91	1.42	34.08	6.22	0	75%
PPG, K201Q, PRIMER SURFACER CATALYST	8.15	0.58	0%	0.58	0%	0.42	5.19E-03	0.75	4.73	4.73	0.02	0.44	0.08	0.01	75%
PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	12.60	0.33	0%	0.33	0%	0.67	0.03	0.75	4.16	4.16	0.10	2.32	0.42	0.21	75%
PPG, K38G, HIGH BUILD PRIMER SURFACER	12.43	0.31	0%	0.31	0%	0.69	0.02	0.75	3.85	3.85	0.05	1.11	0.20	0.11	75%
PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	11.99	0.46	0%	0.46	0%	0.54	2.50E-04	0.75	5.52	5.52	1.03E-03	0.02	4.53E-03	1.33E-03	75%
U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	9.67	0.20	0%	0.20	0%	0.80	0.09	0.75	1.93	1.93	0.13	3.13	0.57	0	100%
										Subtotal worse case coating	**2.93**	**70.34**	**12.84**	**1.45**	

Appendix A: Emissions Calculations
VOC and Particulate
EnterVan Line No. 2 (Now WAV-2)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
Entervan Line 2 (Paint Booth 20033)															
DBC Deltron 2000 Basecoat	7.55	89.44%	0	89%	0%	11%	0.01	0.75	6.75	6.75	0.06	1.46	0.27	7.85E-03	75%
DX 870 Reducer	6.91	100.00%	0	100%	0%	0%	0.01	0.75	6.91	6.91	0.06	1.49	0.27	0	75%
DX 57 Hardner	8.81	18.61%	0	19%	0%	81%	4.00E-03	0.75	1.64	1.64	4.92E-03	0.12	0.02	0.02	75%
PPG, DX1787G, ETCHING FILLER	7.04	99.12%	0.00%	99%	0%	1%	6.00E-03	0.75	6.98	6.98	0.03	0.75	0.14	3.05E-04	75%
DX 1788 Etching catalyst	7.04	99.12%	0	99%	0%	1%	6.00E-03	0.75	6.98	6.98	0.03	0.75	0.14	3.05E-04	75%
Clear Coat															
DCH 3070	8.73	26.23%	0	26%	0%	74%	8.00E-03	0.75	2.29	2.29	0.01	0.33	0.06	0.04	75%
DC 3000	7.67	44.98%	0	45%	0%	55%	0.02	0.75	3.45	3.45	0.05	1.24	0.23	0.07	75%
Sealer															
K36	12.52	32.75%	0.22	11%	0%	67%	8.00E-03	0.75	1.35	1.35	8.08E-03	0.19	0.04	0.06	75%
DMC 902	8.39	56.97%	0	57%	0%	43%	8.00E-03	0.75	4.78	4.78	0.03	0.69	0.13	0.02	75%
DX 870	6.91	100.00%	0	100%	0%	0%	8.00E-03	0.75	6.91	6.91	0.04	1.00	0.18	0	75%
DCX 61	8.97	16.05%	0	16%	0%	84%	8.00E-03	0.75	1.44	1.44	8.64E-03	0.21	0.04	0.05	75%
Track Black															
BASF Track Black	9.50	4.80%	0	5%	0%	95%	0.02	0.75	0.46	0.46	7.87E-03	0.19	0.03	0.17	75%
DT870	6.91	100.00%	0	100%	0%	0%	4.00E-03	0.75	6.91	6.91	0.02	0.50	0.09	0	75%
DCX 61	8.97	16.05%	0	16%	0%	84%	6.00E-03	0.75	1.44	1.44	6.48E-03	0.16	0.03	0.04	75%
ROYAL ADHESIVES AND SEALANTS, DC12439, HYRA FASTEN ADHESIVE PART A	8.99	0%	0%	0%	0%	100%	0.06	0.75	0	0	0	0	0	0	100%
ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	9.29	0%	0%	0%	0%	100%	0.01	0.75	0	0	0	0	0	0	100%
66003, Acetone	6.55	0%	0%	0%	0%	100%	0.22	0.75	0	0	0	0	0	0	100%
PLASTI-KOTE, M1, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.03	0.75	5.30	5.30	0.13	3.03	0.55	0.08	75%
PLASTI-KOTE, M2, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.01	0.75	5.30	5.30	0.04	1.00	0.18	0.03	75%
PPG, DBC500Q, Color Blender	7.75	0.74	0%	0.74	0%	0.26	1.91E-03	0.75	5.73	5.73	8.20E-03	0.20	0.04	3.17E-03	75%
PPG, DC3000G, HIGH VELOCITY CLEARCOAT	7.67	0.62	0%	0.62	0%	0.38	0.16	0.75	4.75	4.75	0.58	13.83	2.52	0.39	75%
PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	7.84	0.66	0%	0.66	0%	0.34	1.40E-03	0.75	5.17	5.17	5.43E-03	0.13	0.02	3.06E-03	75%
PPG, DMC900G, STRONG WHITE	10.79	0.35	0%	0.35	0%	0.65	0.03	0.75	3.78	3.78	0.08	1.81	0.33	0.15	75%
PPG, DMC901G, STRONG TINTING BLACK	8.45	0.50	0%	0.50	0%	0.50	6.78E-03	0.75	4.26	4.26	0.02	0.52	0.09	0.02	75%
PPG, DMC902, CARBON BLACK	8.39	0.57	0%	0.57	0%	0.43	5.02E-04	0.75	4.78	4.78	1.80E-03	0.04	7.89E-03	1.49E-03	75%
PPG, DMC903Q, WEAK TINTING BLACK	8.37	0.53	0%	0.53	0%	0.47	7.84E-03	0.75	4.44	4.44	0.03	0.63	0.11	0.03	75%
PPG, DMC921G, HIGH COLOR BLACK	8.35	0.56	0%	0.56	0%	0.44	2.50E-04	0.75	4.68	4.68	8.77E-04	0.02	3.84E-03	7.54E-04	75%
PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	8.46	0.53	0%	0.53	0%	0.47	1.13E-03	0.75	4.48	4.48	3.80E-03	0.09	0.02	3.69E-03	75%
PPG, DMC981Q, CONCEPT FINE ALUMINUM	8.17	0.63	0%	0.63	0%	0.37	3.13E-04	0.75	5.12	5.12	1.20E-03	0.03	5.27E-03	7.83E-04	75%
PPG, DMD1605Q, MAGENTA	7.87	0.81	0%	0.81	0%	0.19	1.56E-03	0.75	6.35	6.35	7.43E-03	0.18	0.03	1.94E-03	75%
PPG, DMD1606Q, PERYLENE MAROON	8.65	0.81	0%	0.81	0%	0.19	8.10E-03	0.75	7.04	7.04	0.04	1.03	0.19	0.01	75%
PPG, DMD1607Q, PHTHALO BLUE	7.96	0.78	0%	0.78	0%	0.22	2.95E-03	0.75	6.23	6.23	0.01	0.33	0.06	4.18E-03	75%
PPG, DMD1609Q, QUINDO VIOLET BC	7.97	0.76	0%	0.76	0%	0.24	6.90E-04	0.75	6.06	6.06	3.13E-03	0.08	0.01	1.08E-03	75%
PPG, DMD1610Q, TRANSPARENT ORANGE	8.23	0.70	0%	0.70	0%	0.30	4.39E-04	0.75	5.76	5.76	1.90E-03	0.05	8.31E-03	8.90E-04	75%
PPG, DMD1675Q, PHTHALO BLUE	7.92	0.73	0%	0.73	0%	0.27	3.57E-03	0.75	5.78	5.78	0.02	0.37	0.07	6.27E-03	75%
PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	7.96	0.80	0%	0.80	0%	0.20	1.88E-04	0.75	6.37	6.37	8.98E-04	0.02	3.93E-03	2.46E-04	75%
PPG, DMD1677Q, SCARLET RED	7.98	0.72	0%	0.72	0%	0.28	1.44E-03	0.75	5.75	5.75	6.21E-03	0.15	0.03	2.64E-03	75%
PPG, DMD1679Q, QUINDO RED	7.82	0.77	0%	0.77	0%	0.23	6.27E-04	0.75	6.02	6.02	2.83E-03	0.07	0.01	9.26E-04	75%
PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	7.93	0.76	0%	0.76	0%	0.24	0.02	0.75	6.03	6.03	0.07	1.76	0.32	0.03	75%
PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	7.89	0.76	0%	0.76	0%	0.24	0.02	0.75	6.00	6.00	0.08	1.91	0.35	0.03	75%
PPG, DMD1682Q, COARSE ALUMINUM	7.89	0.76	0%	0.76	0%	0.24	0.01	0.75	6.00	6.00	0.06	1.38	0.25	0.02	75%
PPG, DMD1683G, BLACK MIXING BASE	7.60	0.80	0%	0.80	0%	0.20	0.02	0.75	6.08	6.08	0.07	1.65	0.30	0.02	75%
PPG, DMD1684G, BASECOAT WHITE	10.84	0.70	0%	0.70	0%	0.30	0.02	0.75	7.59	7.59	0.11	2.72	0.50	0.05	75%
PPG, DMD1686G, FINE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	5.02E-04	0.75	6.05	6.05	2.28E-03	0.05	9.98E-03	7.45E-04	75%
PPG, DMD1687G, MEDIUM SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	4.77E-03	0.75	6.05	6.05	0.02	0.52	0.09	7.08E-03	75%
PPG, DMD1690G, COARSE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	3.51E-03	0.75	6.05	6.05	0.02	0.38	0.07	5.21E-03	75%
PPG, DMD1693Q, PHTHALO GREEN	7.98	0.73	0%	0.73	0%	0.27	5.02E-04	0.75	5.83	5.83	2.19E-03	0.05	9.61E-03	8.88E-04	75%
PPG, DMD1694Q, PERRINDO MAROON	7.87	0.77	0%	0.77	0%	0.23	5.02E-03	0.75	6.06	6.06	0.02	0.55	0.10	7.46E-03	75%
PPG, DMD1696Q, DELTRON MIXING BASES	9.50	0.80	0%	0.80	0%	0.20	2.50E-04	0.75	7.60	7.60	1.43E-03	0.03	6.24E-03	3.90E-04	75%
PPG, DMD1697Q, DBC MIXING SYSTEM	9.50	0.77	0%	0.77	0%	0.23	2.26E-03	0.75	7.32	7.32	0.01	0.30	0.05	4.06E-03	75%
PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	7.95	0.75	0%	0.75	0%	0.25	2.76E-03	0.75	5.96	5.96	0.01	0.30	0.05	4.50E-03	75%
PPG, DMD1699G, DELTRON MIXING BASES	9.50	0.81	0%	0.81	0%	0.19	2.50E-04	0.75	7.69	7.69	1.44E-03	0.03	6.32E-03	3.72E-04	75%
PPG, DMD614Q, VAT BLUE URETHANE	8.19	0.50	0%	0.50	0%	0.50	3.26E-03	0.75	4.10	4.10	0.01	0.24	0.04	0.01	75%
PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	8.61	0.58	0%	0.58	0%	0.42	2.50E-04	0.75	4.99	4.99	9.36E-04	0.02	4.10E-03	7.42E-04	75%
PPG, DMD624Q, CARBOZOL VIOLET URETHANE	8.13	0.52	0%	0.52	0%	0.48	1.13E-03	0.75	4.23	4.23	3.58E-03	0.09	0.02	3.62E-03	75%
PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	8.65	0.48	0%	0.48	0%	0.52	1.07E-03	0.75	4.15	4.15	3.32E-03	0.08	0.01	3.94E-03	75%
PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	8.90	0.45	0%	0.45	0%	0.55	1.88E-04	0.75	4.01	4.01	5.65E-04	0.01	2.47E-03	7.56E-04	75%
PPG, DMD646Q, WEAK WHITE	8.78	0.56	0%	0.56	0%	0.44	6.91E-04	0.75	4.92	4.92	2.55E-03	0.06	0.01	2.19E-03	75%
PPG, DMD648Q, WEAK BLACK DELTRON	8.12	0.51	0%	0.51	0%	0.49	1.26E-03	0.75	4.14	4.14	3.90E-03	0.09	0.02	4.10E-03	75%
PPG, DMD691Q, GRAPHITE BLACK	8.55	0.51	0%	0.51	0%	0.49	2.50E-04	0.75	4.36	4.36	8.18E-04	0.02	3.58E-03	8.60E-04	75%
PPG, DP90LFG, EPOXY PRIMER	11.00	0.61	0%	0.61	0%	0.39	0.01	0.75	6.71	6.71	0.07	1.58	0.29	0.05	75%
PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTEI	6.95	0.97	0%	0.97	0%	0.03	0.02	0.75	6.74	6.74	0.08	2.00	0.36	2.82E-03	75%
PPG, DX578OZ, Basecoat Activator	8.70	0.44	0%	0.44	0%	0.56	3.14E-03	0.75	3.80	3.80	8.95E-03	0.21	0.04	0.01	75%
PPG, DX685G, URETHANE FLATTENING AGENT	8.20	0.80	0%	0.80	0%	0.20	1.96E-03	0.75	6.56	6.56	9.64E-03	0.23	0.04	2.64E-03	75%
PPG, DX840G, UNIVERSAL BLENDING SOLVENT	7.27	0.96	0%	0.96	0%	4.13%	3.81E-03	0.75	6.97	6.97	0.02	0.48	0.09	9.39E-04	75%
PPG, MEK-5, SATWIPES ® SW420185 Wipers,	6.71	0	0%	0	0%	100%	0.03	0.75	0	0	0	0	0	0.17	75%
PPG, PRL88, ORANGE PEARL	20.60	0.10	0%	0.10	0%	0.90	0.01	0.75	2.06	2.06	0.02	0.48	0.09	0.20	75%
PPG, PRL89, VIOLET PEARL	20.60	0.10	0%	0.10	0%	0.90	3.37E-03	0.75	2.06	2.06	5.21E-03	0.12	0.02	0.05	75%
PPG, PRL90, SUNSET RED	21.59	0.10	0%	0.10	0%	0.90	1.68E-03	0.75	2.16	2.16	2.72E-03	0.07	0.01	0.03	75%
PPG, PRL91, PRL PEARL LINE	21.00	0.10	0%	0.10	0%	0.90	4.49E-03	0.75	2.10	2.10	7.07E-03	0.17	0.03	0.07	75%
PPG, PRL92, PEARL LINE	19.73	9.63%	0%	9.63%	0%	0.90	4.49E-03	0.75	1.90	1.90	6.40E-03	0.15	0.03	0.07	75%
PPG, PRL93, TINCTURE GOLD	19.73	9.98%	0%	9.98%	0%	0.90	5.05E-03	0.75	1.97	1.97	7.46E-03	0.18	0.03	0.07	75%
PPG, PRL94, BLUE GREEN PEARL	21.00	0.10	0%	0.10	0%	0.90	2.80E-04	0.75	2.10	2.10	4.41E-04	0.01	1.93E-03	4.35E-03	75%
PPG, PRL95, BRIGHT WHITE PEARL	21.58	9.96%	0%	9.96%	0%	0.90	2.80E-04	0.75	2.15	2.15	4.52E-04	0.01	1.98E-03	4.47E-03	75%
PPG, PRL96, RUSSET PEARL	21.58	9.96%	0%	9.96%	0%	0.90	3.93E-03	0.75	2.15	2.15	6.34E-03	0.15	0.03	0.06	75%
PPG, PRL98, FINE WHITE PEARL	17.91	0.10	0%	0.10	0%	0.90	3.93E-03	0.75	1.79	1.79	5.28E-03	0.13	0.02	0.05	75%
PPG, PRLX1, CRYSTAL RED PEARL	24.16	9.93%	0%	9.93%	0%	0.90	0.02	0.75	2.40	2.40	0.04	0.95	0.17	0.39	75%

Appendix A: Emissions Calculations
VOC and Particulate
EnterVan Line No. 2 (Now WAV-2)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
PPG, PRLX2, CRYSTAL SILVER PEARL	23.99	9.59%	0%	9.59%	0%	0.90	5.34E-03	0.75	2.30	2.30	9.21E-03	0.22	0.04	0.10	75%
PPG, PRLX4, CRYSTAL BLUE PEARL	18.33	9.82%	0%	9.82%	0%	0.90	1.68E-03	0.75	1.80	1.80	2.27E-03	0.05	9.93E-03	0.02	75%
PPG, PRLX5, CRYSTAL GREEN PEARL	23.40	9.83%	0%	9.83%	0%	0.90	1.68E-03	0.75	2.30	2.30	2.90E-03	0.07	0.01	0.03	75%
PPG, PRLX6, CRYSTAL FROST RED PEARL	23.15	9.94%	0%	9.94%	0%	0.90	1.68E-03	0.75	2.30	2.30	2.90E-03	0.07	0.01	0.03	75%
PPG, PRLX7, CRYSTAL COPPER PEARL	24.16	9.93%	0%	9.93%	0%	0.90	1.68E-03	0.75	2.40	2.40	3.02E-03	0.07	0.01	0.03	75%
TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	6.50	100%	0%	100%	0%	0%	0.03	0.75	6.50	6.50	0.15	3.62	0.66	0	100%
										Subtotal worse case coating	**0.98**	**23.40**	**4.27**	**0.53**	
Entervan Line 2 Undercoating (39040)															
Pure Asphalt 770	8.42	46.00%	0%	0.46	0%	0.54	0.90	0.75	3.87	3.87	2.61	62.75	11.45	3.36	75%
Evercoat Rubberized Aerosol	8.58	40.00%	0%	0.40	0%	0.60	0.04	0.75	3.43	3.43	0.11	2.74	0.50	0.19	75%
PPG S-0900	6.36	100.00%	0%	1.00	0%	0	0.28	0.75	6.36	6.36	1.32	31.79	5.80	0	75%
										Total worse case coating	**3.94**	**94.54**	**17.25**	**3.36**	

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used

PM/PM10/PM2.5 Control Efficiency: **0.95**

		VOC lb/hr	VOC lb/day	VOC tons/yr	PM/PM10/PM2.5 ton/yr
Totals	**Uncontrolled:**	**10.76**	**258.33**	**47.15**	**5.34**
	Controlled:	**10.76**	**258.33**	**47.15**	**0.27**

Appendix A: Emissions Calculations
VOC and Particulate
WAV - 1 (formerly EnterVan Line No. 3)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
WAV - 1 Assembly															
DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	9.34	0.40	0%	0.40	0%	0.60	0.33	1.33	3.73	3.73	1.63	39.17	7.15	0	100%
PPG, DX103G, MULTI-PREP	6.57	100%	0%	100%	0%	0%	0.02	1.33	6.57	6.57	0.14	3.36	0.61	0	100%
Accumetric Seam Sealer 18876	12.34	0.13%	0%	0%	0%	100%	0.33	1.33	0.02	0.02	6.75E-03	0.16	0.03	0	100%
PPG, DX330G, WAX AND GREASE REMOVER	6.36	100%	0%	100%	0%	0%	0.03	1.33	6.36	6.36	0.23	5.48	1.00	0	100%
TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	6.39	100%	0%	100%	0%	0%	0.42	1.33	6.39	6.39	3.54	85.05	15.52	0	100%
										Subtotal worse case coating	**1.86**	**44.65**	**8.15**	**0**	
WAV - 1 Primer Booth (20036)															
PPG, DP50LF, Gray Epoxy Primer	11.75	0.34	0%	0.34	0%	0.66	0.14	1.33	3.99	3.99	0.72	17.19	3.14	1.53	75%
PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	6.91	0.35	0%	0.35	0%	0.65	0.27	1.33	2.42	2.42	0.88	21.15	3.86	1.79	75%
DP90 LF Primer	11.29	0.37	0%	0.37	0%	0.63	0.28	1.33	4.14	4.14	1.53	36.74	6.70	2.89	75%
DT870 Reducer	6.91	1.00	0%	1.00	0%	0	0.07	1.33	6.91	6.91	0.63	15.22	2.78	0	75%
DP402LF Hardner	7.78	0.67	0%	0.67	0%	0.33	0.08	1.33	5.22	5.22	0.58	13.83	2.52	0.31	75%
PPG, DX1787G, ETCHING FILLER	8.42	0.84	0%	0.84	0%	0.16	3.00E-03	1.33	7.07	7.07	0.03	0.68	0.12	5.89E-03	75%
PPG, K201Q, PRIMER SURFACER CATALYST	8.15	0.58	0%	0.58	0%	0.42	5.00E-03	1.33	4.73	4.73	0.03	0.75	0.14	0.02	75%
PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	12.60	0.33	0%	0.33	0%	0.67	0.03	1.33	4.16	4.16	0.17	4.12	0.75	0.38	75%
PPG, K38G, HIGH BUILD PRIMER SURFACER	12.43	0.31	0%	0.31	0%	0.69	0.02	1.33	3.85	3.85	0.08	1.97	0.36	0.20	75%
PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	11.99	0.46	0%	0.46	0%	0.54	2.50E-04	1.33	5.52	5.52	1.83E-03	0.04	8.03E-03	2.36E-03	75%
U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	9.67	0.20	0%	0.20	0%	0.80	0.09	1.33	1.93	1.93	0.23	5.56	1.01	1.42	65%
Subtotal worse case coating											**2.74**	**65.79**	**12.01**	**3.20**	
WAV - 1 (Paint Booth # 20037)															
DCC Track Black	9.55	60%	0%	60%	0%	40%	0.04	1.33	5.70	5.70	0.28	6.73	1.23	0.21	75%
DT 870	6.91	100%	0%	100%	0%	0%	0.02	1.33	6.91	6.91	0.17	4.19	0.76	0	75%
DCX 61 Hardner	8.97	16%	0%	16%	0%	84%	0.01	1.33	1.44	1.44	0.02	0.51	0.09	0.12	75%
Accessory Solvent - DX 330 Wax Remover	6.36	100%	0%	100%	0%	0%	0.01	1.33	6.36	6.36	0.10	2.44	0.44	0	100%
ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	9.29	0%	0%	0%	0%	100%	0.01	1.33	0	0	0	0	0	0	100%
, 66003, Acetone	6.55	0%	0%	0%	0%	100%	0.22	1.33	0	0	0	0	0	0	100%
PLASTI-KOTE, M1, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.03	1.33	5.30	5.30	0.23	5.41	0.99	0.14	75%
PLASTI-KOTE, M2, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.01	1.33	5.30	5.30	0.08	1.86	0.34	0.05	75%
PPG, DBC500Q, Color Blender	7.75	0.74	0%	0.74	0%	0.26	2.00E-03	1.33	5.73	5.73	0.02	0.37	0.07	5.88E-03	75%
PPG, DC3000G, HIGH VELOCITY CLEARCOAT	7.67	0.62	0%	0.62	0%	0.38	0.16	1.33	4.75	4.75	1.02	24.56	4.48	0.69	75%
PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	7.84	0.66	0%	0.66	0%	0.34	1.00E-03	1.33	5.17	5.17	6.88E-03	0.17	0.03	3.88E-03	75%
PPG, DMC900G, STRONG WHITE	10.79	0.35	0%	0.35	0%	0.65	0.03	1.33	3.78	3.78	0.14	3.25	0.59	0.28	75%
PPG, DMC901G, STRONG TINTING BLACK	8.45	0.50	0%	0.50	0%	0.50	7.00E-03	1.33	4.26	4.26	0.04	0.95	0.17	0.04	75%
PPG, DMC902, CARBON BLACK	8.39	0.57	0%	0.57	0%	0.43	1.00E-03	1.33	4.78	4.78	6.36E-03	0.15	0.03	5.25E-03	75%
PPG, DMC903Q, WEAK TINTING BLACK	8.37	0.53	0%	0.53	0%	0.47	8.00E-03	1.33	4.44	4.44	0.05	1.13	0.21	0.05	75%
PPG, DMC921G, HIGH COLOR BLACK	8.35	0.56	0%	0.56	0%	0.44	2.50E-03	1.33	4.68	4.68	0.02	0.37	0.07	0.01	75%
PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	8.46	0.53	0%	0.53	0%	0.47	1.00E-03	1.33	4.48	4.48	5.96E-03	0.14	0.03	5.79E-03	75%
PPG, DMC981Q, CONCEPT FINE ALUMINUM	8.17	0.63	0%	0.63	0%	0.37	3.00E-04	1.33	5.12	5.12	2.04E-03	0.05	8.95E-03	1.33E-03	75%
PPG, DMD1605Q, MAGENTA	7.87	0.81	0%	0.81	0%	0.19	2.00E-03	1.33	6.35	6.35	0.02	0.41	0.07	4.42E-03	75%
PPG, DMD1606Q, PERYLENE MAROON	8.65	0.81	0%	0.81	0%	0.19	8.00E-03	1.33	7.04	7.04	0.07	1.80	0.33	0.02	75%
PPG, DMD1607Q, PHTHALO BLUE	7.96	0.78	0%	0.78	0%	0.22	3.00E-03	1.33	6.23	6.23	0.02	0.60	0.11	7.55E-03	75%
PPG, DMD1609Q, QUINDO VIOLET BC	7.97	0.76	0%	0.76	0%	0.24	1.00E-03	1.33	6.06	6.06	8.06E-03	0.19	0.04	2.79E-03	75%
PPG, DMD1610Q, TRANSPARENT ORANGE	8.23	0.70	0%	0.70	0%	0.30	4.39E-04	1.33	5.76	5.76	3.36E-03	0.08	0.01	1.58E-03	75%
PPG, DMD1675Q, PHTHALO BLUE	7.92	0.73	0%	0.73	0%	0.27	4.00E-03	1.33	5.78	5.78	0.03	0.74	0.13	0.01	75%
PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	7.96	0.80	0%	0.80	0%	0.20	1.88E-04	1.33	6.37	6.37	1.59E-03	0.04	6.97E-03	4.36E-04	75%
PPG, DMD1677Q, SCARLET RED	7.98	0.72	0%	0.72	0%	0.28	1.44E-03	1.33	5.75	5.75	0.01	0.26	0.05	4.69E-03	75%
PPG, DMD1679Q, QUINDO RED	7.82	0.77	0%	0.77	0%	0.23	6.27E-04	1.33	6.02	6.02	5.02E-03	0.12	0.02	1.64E-03	75%
PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	7.93	0.76	0%	0.76	0%	0.24	0.02	1.33	6.03	6.03	0.13	3.12	0.57	0.04	75%
PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	7.89	0.76	0%	0.76	0%	0.24	0.02	1.33	6.00	6.00	0.14	3.39	0.62	0.05	75%
PPG, DMD1682Q, COARSE ALUMINUM	7.89	0.76	0%	0.76	0%	0.24	0.01	1.33	6.00	6.00	0.10	2.45	0.45	0.04	75%
PPG, DMD1683G, BLACK MIXING BASE	7.60	0.80	0%	0.80	0%	0.20	0.02	1.33	6.08	6.08	0.12	2.92	0.53	0.03	75%
PPG, DMD1684G, BASECOAT WHITE	10.84	0.70	0%	0.70	0%	0.30	0.02	1.33	7.59	7.59	0.20	4.82	0.88	0.09	75%
PPG, DMD1686G, FINE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	5.00E-04	1.33	6.05	6.05	4.02E-03	0.10	0.02	1.32E-03	75%
PPG, DMD1687G, MEDIUM SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	4.77E-03	1.33	6.05	6.05	0.04	0.92	0.17	0.01	75%
PPG, DMD1690G, COARSE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	3.51E-03	1.33	6.05	6.05	0.03	0.68	0.12	9.24E-03	75%
PPG, DMD1693Q, PHTHALO GREEN	7.98	0.73	0%	0.73	0%	0.27	5.02E-04	1.33	5.83	5.83	3.89E-03	0.09	0.02	1.58E-03	75%

Appendix A: Emissions Calculations
VOC and Particulate
WAV - 1 (formerly EnterVan Line No. 3)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
WAV - 1 (Paint Booth # 20031)															
PPG, DMD1694Q, PERRINDO MAROON	7.87	0.77	0%	0.77	0%	0.23	5.00E-03	1.33	6.06	6.06	0.04	0.97	0.18	0.01	75%
PPG, DMD1696Q, DELTRON MIXING BASES	9.50	0.80	0%	0.80	0%	0.20	2.50E-04	1.33	7.60	7.60	2.53E-03	0.06	0.01	6.92E-04	75%
PPG, DMD1697Q, DBC MIXING SYSTEM	9.50	0.77	0%	0.77	0%	0.23	2.26E-03	1.33	7.32	7.32	0.02	0.53	0.10	7.19E-03	75%
PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	7.95	0.75	0%	0.75	0%	0.25	2.76E-03	1.33	5.96	5.96	0.02	0.53	0.10	7.99E-03	75%
PPG, DMD1699G, DELTRON MIXING BASES	9.50	0.81	0%	0.81	0%	0.19	2.50E-04	1.33	7.69	7.69	2.56E-03	0.06	0.01	6.59E-04	75%
PPG, DMD614Q, VAT BLUE URETHANE	8.19	0.50	0%	0.50	0%	0.50	3.26E-03	1.33	4.10	4.10	0.02	0.43	0.08	0.02	75%
PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	8.61	0.58	0%	0.58	0%	0.42	2.50E-04	1.33	4.99	4.99	1.66E-03	0.04	7.27E-03	1.32E-03	75%
PPG, DMD624Q, CARBOZOL VIOLET URETHANE	8.13	0.52	0%	0.52	0%	0.48	1.13E-03	1.33	4.23	4.23	6.35E-03	0.15	0.03	6.42E-03	75%
PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	8.65	0.48	0%	0.48	0%	0.52	1.07E-03	1.33	4.15	4.15	5.89E-03	0.14	0.03	6.99E-03	75%
PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	8.90	0.45	0%	0.45	0%	0.55	1.89E-04	1.33	4.01	4.01	1.01E-03	0.02	4.41E-03	1.35E-03	75%
PPG, DMD646Q, WEAK WHITE	8.78	0.56	0%	0.56	0%	0.44	6.90E-04	1.33	4.92	4.92	4.51E-03	0.11	0.02	3.88E-03	75%
PPG, DMD648Q, WEAK BLACK DELTRON	8.12	0.51	0%	0.51	0%	0.49	1.25E-03	1.33	4.14	4.14	6.88E-03	0.17	0.03	7.24E-03	75%
PPG, DMD691Q, GRAPHITE BLACK	8.55	0.51	0%	0.51	0%	0.49	2.50E-04	1.33	4.36	4.36	1.45E-03	0.03	6.35E-03	1.53E-03	75%
PPG, DP90LFG, EPOXY PRIMER	11.00	0.61	0%	0.61	0%	0.39	0.01	1.33	6.71	6.71	0.12	2.80	0.51	0.08	75%
PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	6.95	0.97	0%	0.97	0%	3.00%	0.02	1.33	6.74	6.74	0.15	3.54	0.65	4.99E-03	75%
PPG, DX578OZ, Basecoat Activator	8.70	0.44	0%	0.44	0%	0.56	3.14E-03	1.33	3.80	3.80	0.02	0.38	0.07	0.02	75%
PPG, DX685G, URETHANE FLATTENING AGENT	8.20	0.80	0%	0.80	0%	0.20	1.97E-03	1.33	6.56	6.56	0.02	0.41	0.08	4.71E-03	75%
PPG, DX840G, UNIVERSAL BLENDING SOLVENT	7.27	0.96	0%	0.96	0%	4.13%	3.81E-03	1.33	6.97	6.97	0.04	0.85	0.15	1.67E-03	75%
PPG, MEK-5, SATWIPES ® SW420185 Wipers,	6.71	0	0%	0	0%	1.00	0.03	1.33	0	0	0	0	0	0.30	75%
PPG, PRL88, ORANGE PEARL	20.60	0.10	0%	0.10	0%	0.90	0.01	1.33	2.06	2.06	0.04	0.86	0.16	0.35	75%
PPG, PRL89, VIOLET PEARL	20.60	0.10	0%	0.10	0%	0.90	3.30E-03	1.33	2.06	2.06	9.04E-03	0.22	0.04	0.09	75%
PPG, PRL90, SUNSET RED	21.59	0.10	0%	0.10	0%	0.90	1.68E-03	1.33	2.16	2.16	4.82E-03	0.12	0.02	0.05	75%
PPG, PRL91, PRL PEARL LINE	21.00	0.10	0%	0.10	0%	0.90	4.49E-03	1.33	2.10	2.10	0.01	0.30	0.05	0.12	75%
PPG, PRL92, PEARL LINE	19.73	9.63%	0%	9.63%	0%	0.90	4.49E-03	1.33	1.90	1.90	0.01	0.27	0.05	0.12	75%
PPG, PRL93, TINCTURE GOLD	19.73	9.98%	0%	9.98%	0%	0.90	5.05E-03	1.33	1.97	1.97	0.01	0.32	0.06	0.13	75%
PPG, PRL94, BLUE GREEN PEARL	21.00	0.10	0%	0.10	0%	0.90	2.80E-04	1.33	2.10	2.10	7.82E-04	0.02	3.43E-03	7.71E-03	75%
PPG, PRL95, BRIGHT WHITE PEARL	21.58	9.96%	0%	9.96%	0%	0.90	2.80E-04	1.33	2.15	2.15	8.01E-04	0.02	3.51E-03	7.92E-03	75%
PPG, PRL96, RUSSET PEARL	21.58	9.96%	0%	9.96%	0%	0.90	3.93E-03	1.33	2.15	2.15	0.01	0.27	0.05	0.11	75%
PPG, PRL98, FINE WHITE PEARL	17.91	0.10	0%	0.10	0%	0.90	3.93E-03	1.33	1.79	1.79	9.36E-03	0.22	0.04	0.09	75%
PPG, PRLX1, CRYSTAL RED PEARL	24.16	9.93%	0%	9.93%	0%	0.90	0.02	1.33	2.40	2.40	0.07	1.68	0.31	0.69	75%
PPG, PRLX2, CRYSTAL SILVER PEARL	23.99	9.59%	0%	9.59%	0%	0.90	5.34E-03	1.33	2.30	2.30	0.02	0.39	0.07	0.17	75%
PPG, PRLX4, CRYSTAL BLUE PEARL	18.33	9.82%	0%	9.82%	0%	0.90	1.68E-03	1.33	1.80	1.80	4.02E-03	0.10	0.02	0.04	75%
PPG, PRLX5, CRYSTAL GREEN PEARL	23.40	9.83%	0%	9.83%	0%	0.90	1.68E-03	1.33	2.30	2.30	5.14E-03	0.12	0.02	0.05	75%
PPG, PRLX6, CRYSTAL FROST RED PEARL	23.15	9.94%	0%	9.94%	0%	0.90	1.68E-03	1.33	2.30	2.30	5.14E-03	0.12	0.02	0.05	75%
PPG, PRLX7, CRYSTAL COPPER PEARL	24.16	9.93%	0%	9.93%	0%	0.90	1.68E-03	1.33	2.40	2.40	5.36E-03	0.13	0.02	0.05	75%
TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	6.50	100%	0%	100%	0%	0%	0.03	1.33	6.50	6.50	0.27	6.41	1.17	0	100%
										Subtotal worse case coating	**1.77**	**42.40**	**7.74**	**1.02**	
WAV - 1 Undercoating															
Pure Asphalt 770	8.42	46.00%	0%	46.00%	0%	0.54	0.90	1.33	3.87	3.87	4.64	111.27	20.31	5.96	75%
Evercoat Rubberized Aerosol	8.58	40.00%	0%	40.00%	0%	0.60	0.04	1.33	3.43	3.43	0.20	4.85	0.89	0.33	75%
PPG S-0900	6.36	100.00%	0%	100.00%	0%	0	0.28	1.33	6.36	6.36	2.35	56.38	10.29	0	100%
										Total worse case coating	**6.99**	**167.65**	**30.60**	**5.96**	

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)
PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (24 hr/day)
PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)
PTE of PM/PM10 (tons/yr) = Maximum (units/hr) * Gal of Material (gals/unit) * Density (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8,760 hrs/yr) *(1 ton/2,000 lbs)

PM/PM10/PM2.5 Control Efficiency: 0.95

		VOC lb/hr	VOC lb/day	VOC tons/yr	PM/PM10/PM2.5 ton/yr
Totals	**Uncontrolled:**	**13.35**	**320.49**	**58.49**	**10.18**
	Controlled:	**13.35**	**320.49**	**58.49**	**0.51**

Appendix A: Emissions Calculations
VOC and Particulate
EnterVan Line No. 3 (Now WAV-1)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
Entervan Line 3 Assembly															
DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	9.34	0.40	0%	0.40	0%	0.60	0.33	0.75	3.73	3.73	0.92	22.09	4.03	0	100%
PPG, DX103G, MULTI-PREP	6.57	100%	0%	100%	0%	0%	0.02	0.75	6.57	6.57	0.08	1.89	0.35	0	100%
Accumetric Seam Sealer 18876	12.34	0.13%	0%	0%	0%	100%	0.33	0.75	0.02	0.02	3.81E-03	0.09	0.02	0	100%
PPG, DX330G, WAX AND GREASE REMOVER	6.36	100%	0%	100%	0%	0%	0.03	0.75	6.36	6.36	0.13	3.09	0.56	0	100%
TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	6.39	100%	0%	100%	0%	0%	0.42	0.75	6.39	6.39	2.00	47.96	8.75	0	100%
										Subtotal worse case coating	**1.05**	**25.18**	**4.60**	**0**	
Entervan Line 3 Primer Booth (20036)															
PPG, DP50LF, Gray Epoxy Primer	11.75	0.34	0%	0.34	0%	0.66	0.14	0.75	3.99	3.99	0.40	9.70	1.77	0.86	75%
PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	6.91	0.35	0%	0.35	0%	0.65	0.27	0.75	2.42	2.42	0.50	11.93	2.18	1.01	75%
DP90 LF Primer	11.29	0.37	0%	0.37	0%	0.63	0.28	0.75	4.14	4.14	0.86	20.72	3.78	1.63	75%
DT870 Reducer	6.91	1.00	0%	1.00	0%	0	0.07	0.75	6.91	6.91	0.36	8.58	1.57	0	75%
DP402LF Hardner	7.78	0.67	0%	0.67	0%	0.33	0.08	0.75	5.22	5.22	0.32	7.80	1.42	0.17	75%
PPG, DX1787G, ETCHING FILLER	8.42	0.84	0%	0.84	0%	0.16	3.00E-03	0.75	7.07	7.07	0.02	0.38	0.07	3.32E-03	75%
PPG, K201Q, PRIMER SURFACER CATALYST	8.15	0.58	0%	0.58	0%	0.42	5.00E-03	0.75	4.73	4.73	0.02	0.43	0.08	0.01	75%
PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	12.60	0.33	0%	0.33	0%	0.67	0.03	0.75	4.16	4.16	0.10	2.32	0.42	0.21	75%
PPG, K38G, HIGH BUILD PRIMER SURFACER	12.43	0.31	0%	0.31	0%	0.69	0.02	0.75	3.85	3.85	0.05	1.11	0.20	0.11	75%
PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	11.99	0.46	0%	0.46	0%	0.54	2.50E-04	0.75	5.52	5.52	1.03E-03	0.02	4.53E-03	1.33E-03	75%
U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	9.67	0.20	0%	0.20	0%	0.80	0.09	0.75	1.93	1.93	0.13	3.13	0.57	0.80	65%
										Subtotal worse case coating	**1.55**	**37.10**	**6.77**	**1.81**	
Entervan Line 3 (Paint Booth # 20037)															
DCC Track Black	9.55	60%	0%	60%	0%	40%	0.04	0.75	5.70	5.70	0.16	3.80	0.69	0.12	75%
DT 870	6.91	100%	0%	100%	0%	0%	0.02	0.75	6.91	6.91	0.10	2.36	0.43	0	75%
DCX 61 Hardner	8.97	16%	0%	16%	0%	84%	0.01	0.75	1.44	1.44	0.01	0.29	0.05	0.07	75%
Accessory Solvent - DX 330 Wax Remover	6.36	100%	0%	100%	0%	0%	0.01	0.75	6.36	6.36	0.06	1.37	0.25	0	100%
ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	9.29	0%	0%	0%	0%	100%	0.01	0.75	0	0	0	0	0	0	100%
, 66003, Acetone	6.55	0%	0%	0%	0%	100%	0.22	0.75	0	0	0	0	0	0	100%
PLASTI-KOTE, M1, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.03	0.75	5.30	5.30	0.13	3.05	0.56	0.08	75%
PLASTI-KOTE, M2, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.01	0.75	5.30	5.30	0.04	1.05	0.19	0.03	75%
PPG, DBC500Q, Color Blender	7.75	0.74	0%	0.74	0%	0.26	2.00E-03	0.75	5.73	5.73	8.60E-03	0.21	0.04	3.32E-03	75%
PPG, DC3000G, HIGH VELOCITY CLEARCOAT	7.67	0.62	0%	0.62	0%	0.38	0.16	0.75	4.75	4.75	0.58	13.85	2.53	0.39	75%
PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	7.84	0.66	0%	0.66	0%	0.34	1.00E-03	0.75	5.17	5.17	3.88E-03	0.09	0.02	2.19E-03	75%
PPG, DMC900G, STRONG WHITE	10.79	0.35	0%	0.35	0%	0.65	0.03	0.75	3.78	3.78	0.08	1.84	0.33	0.16	75%
PPG, DMC901G, STRONG TINTING BLACK	8.45	0.50	0%	0.50	0%	0.50	7.00E-03	0.75	4.26	4.26	0.02	0.54	0.10	0.02	75%
PPG, DMC902, CARBON BLACK	8.39	0.57	0%	0.57	0%	0.43	1.00E-03	0.75	4.78	4.78	3.59E-03	0.09	0.02	2.96E-03	75%
PPG, DMC903Q, WEAK TINTING BLACK	8.37	0.53	0%	0.53	0%	0.47	8.00E-03	0.75	4.44	4.44	0.03	0.64	0.12	0.03	75%
PPG, DMC921G, HIGH COLOR BLACK	8.35	0.56	0%	0.56	0%	0.44	2.50E-03	0.75	4.68	4.68	8.77E-03	0.21	0.04	7.54E-03	75%
PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	8.46	0.53	0%	0.53	0%	0.47	1.00E-03	0.75	4.48	4.48	3.36E-03	0.08	0.01	3.27E-03	75%
PPG, DMC981Q, CONCEPT FINE ALUMINUM	8.17	0.63	0%	0.63	0%	0.37	3.00E-04	0.75	5.12	5.12	1.15E-03	0.03	5.05E-03	7.51E-04	75%
PPG, DMD1605Q, MAGENTA	7.87	0.81	0%	0.81	0%	0.19	2.00E-03	0.75	6.35	6.35	9.53E-03	0.23	0.04	2.49E-03	75%
PPG, DMD1606Q, PERYLENE MAROON	8.65	0.81	0%	0.81	0%	0.19	8.00E-03	0.75	7.04	7.04	0.04	1.01	0.19	0.01	75%
PPG, DMD1607Q, PHTHALO BLUE	7.96	0.78	0%	0.78	0%	0.22	3.00E-03	0.75	6.23	6.23	0.01	0.34	0.06	4.26E-03	75%
PPG, DMD1609Q, QUINDO VIOLET BC	7.97	0.76	0%	0.76	0%	0.24	1.00E-03	0.75	6.06	6.06	4.54E-03	0.11	0.02	1.57E-03	75%
PPG, DMD1610Q, TRANSPARENT ORANGE	8.23	0.70	0%	0.70	0%	0.30	4.39E-04	0.75	5.76	5.76	1.90E-03	0.05	8.31E-03	8.90E-04	75%
PPG, DMD1675Q, PHTHALO BLUE	7.92	0.73	0%	0.73	0%	0.27	4.00E-03	0.75	5.78	5.78	0.02	0.42	0.08	7.02E-03	75%
PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	7.96	0.80	0%	0.80	0%	0.20	1.88E-04	0.75	6.37	6.37	8.98E-04	0.02	3.93E-03	2.46E-04	75%
PPG, DMD1677Q, SCARLET RED	7.98	0.72	0%	0.72	0%	0.28	1.44E-03	0.75	5.75	5.75	6.21E-03	0.15	0.03	2.64E-03	75%
PPG, DMD1679Q, QUINDO RED	7.82	0.77	0%	0.77	0%	0.23	6.27E-04	0.75	6.02	6.02	2.83E-03	0.07	0.01	9.26E-04	75%
PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	7.93	0.76	0%	0.76	0%	0.24	0.02	0.75	6.03	6.03	0.07	1.76	0.32	0.03	75%
PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	7.89	0.76	0%	0.76	0%	0.24	0.02	0.75	6.00	6.00	0.08	1.91	0.35	0.03	75%
PPG, DMD1682Q, COARSE ALUMINUM	7.89	0.76	0%	0.76	0%	0.24	0.01	0.75	6.00	6.00	0.06	1.38	0.25	0.02	75%
PPG, DMD1683G, BLACK MIXING BASE	7.60	0.80	0%	0.80	0%	0.20	0.02	0.75	6.08	6.08	0.07	1.65	0.30	0.02	75%
PPG, DMD1684G, BASECOAT WHITE	10.84	0.70	0%	0.70	0%	0.30	0.02	0.75	7.59	7.59	0.11	2.72	0.50	0.05	75%
PPG, DMD1686G, FINE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	5.00E-04	0.75	6.05	6.05	2.27E-03	0.05	9.94E-03	7.42E-04	75%
PPG, DMD1687G, MEDIUM SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	4.77E-03	0.75	6.05	6.05	0.02	0.52	0.09	7.08E-03	75%
PPG, DMD1690G, COARSE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	3.51E-03	0.75	6.05	6.05	0.02	0.38	0.07	5.21E-03	75%
PPG, DMD1693Q, PHTHALO GREEN	7.98	0.73	0%	0.73	0%	0.27	5.02E-04	0.75	5.83	5.83	2.19E-03	0.05	9.61E-03	8.88E-04	75%

Appendix A: Emissions Calculations
VOC and Particulate
EnterVan Line No. 3 (Now WAV-1)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
Entervan Line 1 (Paint Booth # 20031)															
PPG, DMD1694Q, PERRINDO MAROON	7.87	0.77	0%	0.77	0%	0.23	5.00E-03	0.75	6.06	6.06	0.02	0.55	0.10	7.43E-03	75%
PPG, DMD1696Q, DELTRON MIXING BASES	9.50	0.80	0%	0.80	0%	0.20	2.50E-04	0.75	7.60	7.60	1.43E-03	0.03	6.24E-03	3.90E-04	75%
PPG, DMD1697Q, DBC MIXING SYSTEM	9.50	0.77	0%	0.77	0%	0.23	2.26E-03	0.75	7.32	7.32	0.01	0.30	0.05	4.06E-03	75%
PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	7.95	0.75	0%	0.75	0%	0.25	2.76E-03	0.75	5.96	5.96	0.01	0.30	0.05	4.50E-03	75%
PPG, DMD1699G, DELTRON MIXING BASES	9.50	0.81	0%	0.81	0%	0.19	2.50E-04	0.75	7.69	7.69	1.44E-03	0.03	6.32E-03	3.72E-04	75%
PPG, DMD614Q, VAT BLUE URETHANE	8.19	0.50	0%	0.50	0%	0.50	3.26E-03	0.75	4.10	4.10	0.01	0.24	0.04	0.01	75%
PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	8.61	0.58	0%	0.58	0%	0.42	2.50E-04	0.75	4.99	4.99	9.36E-04	0.02	4.10E-03	7.42E-04	75%
PPG, DMD624Q, CARBOZOL VIOLET URETHANE	8.13	0.52	0%	0.52	0%	0.48	1.13E-03	0.75	4.23	4.23	3.58E-03	0.09	0.02	3.62E-03	75%
PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	8.65	0.48	0%	0.48	0%	0.52	1.07E-03	0.75	4.15	4.15	3.32E-03	0.08	0.01	3.94E-03	75%
PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	8.90	0.45	0%	0.45	0%	0.55	1.89E-04	0.75	4.01	4.01	5.68E-04	0.01	2.49E-03	7.60E-04	75%
PPG, DMD646Q, WEAK WHITE	8.78	0.56	0%	0.56	0%	0.44	6.90E-04	0.75	4.92	4.92	2.54E-03	0.06	0.01	2.19E-03	75%
PPG, DMD648Q, WEAK BLACK DELTRON	8.12	0.51	0%	0.51	0%	0.49	1.25E-03	0.75	4.14	4.14	3.88E-03	0.09	0.02	4.08E-03	75%
PPG, DMD691Q, GRAPHITE BLACK	8.55	0.51	0%	0.51	0%	0.49	2.50E-04	0.75	4.36	4.36	8.18E-04	0.02	3.58E-03	8.60E-04	75%
PPG, DP90LFG, EPOXY PRIMER	11.00	0.61	0%	0.61	0%	0.39	0.01	0.75	6.71	6.71	0.07	1.58	0.29	0.05	75%
PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	6.95	0.97	0%	0.97	0%	3.00%	0.02	0.75	6.74	6.74	0.08	1.99	0.36	2.82E-03	75%
PPG, DX578OZ, Basecoat Activator	8.70	0.44	0%	0.44	0%	0.56	3.14E-03	0.75	3.80	3.80	8.95E-03	0.21	0.04	0.01	75%
PPG, DX685G, URETHANE FLATTENING AGENT	8.20	0.80	0%	0.80	0%	0.20	1.97E-03	0.75	6.56	6.56	9.69E-03	0.23	0.04	2.65E-03	75%
PPG, DX840G, UNIVERSAL BLENDING SOLVENT	7.27	0.96	0%	0.96	0%	4.13%	3.81E-03	0.75	6.97	6.97	0.02	0.48	0.09	9.39E-04	75%
PPG, MEK-5, SATWIPES ® SW420185 Wipers,	6.71	0	0%	0	0%	1.00	0.03	0.75	0	0	0	0	0	0.17	75%
PPG, PRL88, ORANGE PEARL	20.60	0.10	0%	0.10	0%	0.90	0.01	0.75	2.06	2.06	0.02	0.48	0.09	0.20	75%
PPG, PRL89, VIOLET PEARL	20.60	0.10	0%	0.10	0%	0.90	3.30E-03	0.75	2.06	2.06	5.10E-03	0.12	0.02	0.05	75%
PPG, PRL90, SUNSET RED	21.59	0.10	0%	0.10	0%	0.90	1.68E-03	0.75	2.16	2.16	2.72E-03	0.07	0.01	0.03	75%
PPG, PRL91, PRL PEARL LINE	21.00	0.10	0%	0.10	0%	0.90	4.49E-03	0.75	2.10	2.10	7.07E-03	0.17	0.03	0.07	75%
PPG, PRL92, PEARL LINE	19.73	9.63%	0%	9.63%	0%	0.90	4.49E-03	0.75	1.90	1.90	6.40E-03	0.15	0.03	0.07	75%
PPG, PRL93, TINCTURE GOLD	19.73	9.98%	0%	9.98%	0%	0.90	5.05E-03	0.75	1.97	1.97	7.46E-03	0.18	0.03	0.07	75%
PPG, PRL94, BLUE GREEN PEARL	21.00	0.10	0%	0.10	0%	0.90	2.80E-04	0.75	2.10	2.10	4.41E-04	0.01	1.93E-03	4.35E-03	75%
PPG, PRL95, BRIGHT WHITE PEARL	21.58	9.96%	0%	9.96%	0%	0.90	2.80E-04	0.75	2.15	2.15	4.52E-04	0.01	1.98E-03	4.47E-03	75%
PPG, PRL96, RUSSET PEARL	21.58	9.96%	0%	9.96%	0%	0.90	3.93E-03	0.75	2.15	2.15	6.34E-03	0.15	0.03	0.06	75%
PPG, PRL98, FINE WHITE PEARL	17.91	0.10	0%	0.10	0%	0.90	3.93E-03	0.75	1.79	1.79	5.28E-03	0.13	0.02	0.05	75%
PPG, PRLX1, CRYSTAL RED PEARL	24.16	9.93%	0%	9.93%	0%	0.90	0.02	0.75	2.40	2.40	0.04	0.95	0.17	0.39	75%
PPG, PRLX2, CRYSTAL SILVER PEARL	23.99	9.59%	0%	9.59%	0%	0.90	5.34E-03	0.75	2.30	2.30	9.21E-03	0.22	0.04	0.10	75%
PPG, PRLX4, CRYSTAL BLUE PEARL	18.33	9.82%	0%	9.82%	0%	0.90	1.68E-03	0.75	1.80	1.80	2.27E-03	0.05	9.93E-03	0.02	75%
PPG, PRLX5, CRYSTAL GREEN PEARL	23.40	9.83%	0%	9.83%	0%	0.90	1.68E-03	0.75	2.30	2.30	2.90E-03	0.07	0.01	0.03	75%
PPG, PRLX6, CRYSTAL FROST RED PEARL	23.15	9.94%	0%	9.94%	0%	0.90	1.68E-03	0.75	2.30	2.30	2.90E-03	0.07	0.01	0.03	75%
PPG, PRLX7, CRYSTAL COPPER PEARL	24.16	9.93%	0%	9.93%	0%	0.90	1.68E-03	0.75	2.40	2.40	3.02E-03	0.07	0.01	0.03	75%
TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	6.50	100%	0%	100%	0%	0%	0.03	0.75	6.50	6.50	0.15	3.62	0.66	0	100%
										Subtotal worse case coating	**1.00**	**23.91**	**4.36**	**0.57**	
Entervan Line 3 Undercoating															
Pure Asphalt 770	8.42	46.00%	0%	46.00%	0%	0.54	0.90	0.75	3.87	3.87	2.61	62.75	11.45	3.36	75%
Evercoat Rubberized Aerosol	8.58	40.00%	0%	40.00%	0%	0.60	0.04	0.75	3.43	3.43	0.11	2.74	0.50	0.19	75%
PPG S-0900	6.36	100.00%	0%	100.00%	0%	0	0.28	0.75	6.36	6.36	1.32	31.79	5.80	0	100%
										Total worse case coating	**3.94**	**94.54**	**17.25**	**3.36**	

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)
PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (24 hr/day)
PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)
PTE of PM/PM10 (tons/yr) = Maximum (units/hr) * Gal of Material (gals/unit) * Density (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8,760 hrs/yr) *(1 ton/2,000 lbs)

PM/PM10/PM2.5 Control Efficiency: 0.95

		VOC lb/hr	VOC lb/day	VOC tons/yr	PM/PM10/PM2.5 ton/yr
Totals	**Uncontrolled:**	**7.53**	**180.73**	**32.98**	**5.74**
	Controlled:	**7.53**	**180.73**	**32.98**	**0.29**

Appendix A: Emissions Calculations
VOC and Particulate
WAV - 4

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
WAV - 4 Assembly															
DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	9.34	0.40	0%	0.40	0%	0.60	0.33	1.33	3.73	3.73	1.63	39.17	7.15	0	100%
PPG, DX103G, MULTI-PREP	6.57	100%	0%	100%	0%	0%	0.02	1.33	6.57	6.57	0.14	3.36	0.61	0	100%
Accumetric Seam Sealer 18876	12.34	0.13%	0%	0%	0%	100%	0.33	1.33	0.02	0.02	6.75E-03	0.16	0.03	0	100%
PPG, DX330G, WAX AND GREASE REMOVER	6.36	100%	0%	100%	0%	0%	0.03	1.33	6.36	6.36	0.23	5.48	1.00	0	100%
TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	6.39	100%	0%	100%	0%	0%	0.42	1.33	6.39	6.39	3.54	85.05	15.52	0	100%
										Subtotal worse case coating	**1.86**	**44.65**	**7.15**	**0**	
WAV - 4 Primer Booth (20036)															
PPG, DP50LF, Gray Epoxy Primer	11.75	0.34	0%	0.34	0%	0.66	0.14	1.33	3.99	3.99	0.72	17.19	3.14	1.53	75%
PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	6.91	0.35	0%	0.35	0%	0.65	0.27	1.33	2.42	2.42	0.88	21.15	3.86	1.79	75%
DP90 LF Primer	11.29	0.37	0%	0.37	0%	0.63	0.28	1.33	4.14	4.14	1.53	36.74	6.70	2.89	75%
DT870 Reducer	6.91	1.00	0%	1.00	0%	0	0.07	1.33	6.91	6.91	0.63	15.22	2.78	0	75%
DP402LF Hardner	7.78	0.67	0%	0.67	0%	0.33	0.08	1.33	5.22	5.22	0.58	13.83	2.52	0.31	75%
PPG, DX1787G, ETCHING FILLER	8.42	0.84	0%	0.84	0%	0.16	3.00E-03	1.33	7.07	7.07	0.03	0.68	0.12	5.89E-03	75%
PPG, K201Q, PRIMER SURFACER CATALYST	8.15	0.58	0%	0.58	0%	0.42	5.00E-03	1.33	4.73	4.73	0.03	0.75	0.14	0.02	75%
PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	12.60	0.33	0%	0.33	0%	0.67	0.03	1.33	4.16	4.16	0.17	4.12	0.75	0.38	75%
PPG, K38G, HIGH BUILD PRIMER SURFACER	12.43	0.31	0%	0.31	0%	0.69	0.02	1.33	3.85	3.85	0.08	1.97	0.36	0.20	75%
PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	11.99	0.46	0%	0.46	0%	0.54	2.50E-04	1.33	5.52	5.52	1.83E-03	0.04	8.03E-03	2.36E-03	75%
U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	9.67	0.20	0%	0.20	0%	0.80	0.09	1.33	1.93	1.93	0.23	5.56	1.01	1.42	65%
										Subtotal worse case coating	**2.74**	**65.79**	**12.01**	**3.20**	
WAV - 4 (Paint Booth # 20037)															
DCC Track Black	9.55	60%	0%	60%	0%	40%	0.04	1.33	5.70	5.70	0.28	6.73	1.23	0.21	75%
DT 870	6.91	100%	0%	100%	0%	0%	0.02	1.33	6.91	6.91	0.17	4.19	0.76	0	75%
DCX 61 Hardner	8.97	16%	0%	16%	0%	84%	0.01	1.33	1.44	1.44	0.02	0.51	0.09	0.12	75%
Accessory Solvent - DX 330 Wax Remover	6.36	100%	0%	100%	0%	0%	0.01	1.33	6.36	6.36	0.10	2.44	0.44	0	100%
ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	9.29	0%	0%	0%	0%	100%	0.01	1.33	0	0	0	0	0	0	100%
, 66003, Acetone	6.55	0%	0%	0%	0%	100%	0.22	1.33	0	0	0	0	0	0	100%
PLASTI-KOTE, M1, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.03	1.33	5.30	5.30	0.23	5.41	0.99	0.14	75%
PLASTI-KOTE, M2, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.01	1.33	5.30	5.30	0.08	1.86	0.34	0.05	75%
PPG, DBC500Q, Color Blender	7.75	0.74	0%	0.74	0%	0.26	2.00E-03	1.33	5.73	5.73	0.02	0.37	0.07	5.88E-03	75%
PPG, DC3000G, HIGH VELOCITY CLEARCOAT	7.67	0.62	0%	0.62	0%	0.38	0.16	1.33	4.75	4.75	1.02	24.56	4.48	0.69	75%
PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	7.84	0.66	0%	0.66	0%	0.34	1.00E-03	1.33	5.17	5.17	6.88E-03	0.17	0.03	3.88E-03	75%
PPG, DMC900G, STRONG WHITE	10.79	0.35	0%	0.35	0%	0.65	0.03	1.33	3.78	3.78	0.14	3.25	0.59	0.28	75%
PPG, DMC901G, STRONG TINTING BLACK	8.45	0.50	0%	0.50	0%	0.50	7.00E-03	1.33	4.26	4.26	0.04	0.95	0.17	0.04	75%
PPG, DMC902, CARBON BLACK	8.39	0.57	0%	0.57	0%	0.43	1.00E-03	1.33	4.78	4.78	6.36E-03	0.15	0.03	5.25E-03	75%
PPG, DMC903Q, WEAK TINTING BLACK	8.37	0.53	0%	0.53	0%	0.47	8.00E-03	1.33	4.44	4.44	0.05	1.13	0.21	0.05	75%
PPG, DMC921G, HIGH COLOR BLACK	8.35	0.56	0%	0.56	0%	0.44	2.50E-03	1.33	4.68	4.68	0.02	0.37	0.07	0.01	75%
PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	8.46	0.53	0%	0.53	0%	0.47	1.00E-03	1.33	4.48	4.48	5.96E-03	0.14	0.03	5.79E-03	75%
PPG, DMC981Q, CONCEPT FINE ALUMINUM	8.17	0.63	0%	0.63	0%	0.37	3.00E-04	1.33	5.12	5.12	2.04E-03	0.05	8.95E-03	1.33E-03	75%
PPG, DMD1605Q, MAGENTA	7.87	0.81	0%	0.81	0%	0.19	2.00E-03	1.33	6.35	6.35	0.02	0.41	0.07	4.42E-03	75%
PPG, DMD1606Q, PERYLENE MAROON	8.65	0.81	0%	0.81	0%	0.19	8.00E-03	1.33	7.04	7.04	0.07	1.80	0.33	0.02	75%
PPG, DMD1607Q, PHTHALO BLUE	7.96	0.78	0%	0.78	0%	0.22	3.00E-03	1.33	6.23	6.23	0.02	0.60	0.11	7.55E-03	75%
PPG, DMD1609Q, QUINDO VIOLET BC	7.97	0.76	0%	0.76	0%	0.24	1.00E-03	1.33	6.06	6.06	8.06E-03	0.19	0.04	2.79E-03	75%
PPG, DMD1610Q, TRANSPARENT ORANGE	8.23	0.70	0%	0.70	0%	0.30	4.39E-04	1.33	5.76	5.76	3.36E-03	0.08	0.01	1.58E-03	75%
PPG, DMD1675Q, PHTHALO BLUE	7.92	0.73	0%	0.73	0%	0.27	4.00E-03	1.33	5.78	5.78	0.03	0.74	0.13	0.01	75%
PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	7.96	0.80	0%	0.80	0%	0.20	1.88E-04	1.33	6.37	6.37	1.59E-03	0.04	6.97E-03	4.36E-04	75%
PPG, DMD1677Q, SCARLET RED	7.98	0.72	0%	0.72	0%	0.28	1.44E-03	1.33	5.75	5.75	0.01	0.26	0.05	4.69E-03	75%
PPG, DMD1679Q, QUINDO RED	7.82	0.77	0%	0.77	0%	0.23	6.27E-04	1.33	6.02	6.02	5.02E-03	0.12	0.02	1.64E-03	75%
PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	7.93	0.76	0%	0.76	0%	0.24	0.02	1.33	6.03	6.03	0.13	3.12	0.57	0.04	75%
PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	7.89	0.76	0%	0.76	0%	0.24	0.02	1.33	6.00	6.00	0.14	3.39	0.62	0.05	75%
PPG, DMD1682Q, COARSE ALUMINUM	7.89	0.76	0%	0.76	0%	0.24	0.01	1.33	6.00	6.00	0.10	2.45	0.45	0.04	75%
PPG, DMD1683G, BLACK MIXING BASE	7.60	0.80	0%	0.80	0%	0.20	0.02	1.33	6.08	6.08	0.12	2.92	0.53	0.03	75%
PPG, DMD1684G, BASECOAT WHITE	10.84	0.70	0%	0.70	0%	0.30	0.02	1.33	7.59	7.59	0.20	4.82	0.88	0.09	75%
PPG, DMD1686G, FINE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	5.00E-04	1.33	6.05	6.05	4.02E-03	0.10	0.02	1.32E-03	75%
PPG, DMD1687G, MEDIUM SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	4.77E-03	1.33	6.05	6.05	0.04	0.92	0.17	0.01	75%
PPG, DMD1690G, COARSE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	3.51E-03	1.33	6.05	6.05	0.03	0.68	0.12	9.24E-03	75%
PPG, DMD1693Q, PHTHALO GREEN	7.98	0.73	0%	0.73	0%	0.27	5.02E-04	1.33	5.83	5.83	3.89E-03	0.09	0.02	1.58E-03	75%

Appendix A: Emissions Calculations
VOC and Particulate
WAV - 4

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
WAV - 4 (Paint Booth # 20031)															
PPG, DMD1694Q, PERRINDO MAROON	7.87	0.77	0%	0.77	0%	0.23	5.00E-03	1.33	6.06	6.06	0.04	0.97	0.18	0.01	75%
PPG, DMD1696Q, DELTRON MIXING BASES	9.50	0.80	0%	0.80	0%	0.20	2.50E-04	1.33	7.60	7.60	2.53E-03	0.06	0.01	6.92E-04	75%
PPG, DMD1697Q, DBC MIXING SYSTEM	9.50	0.77	0%	0.77	0%	0.23	2.26E-03	1.33	7.32	7.32	0.02	0.53	0.10	7.19E-03	75%
PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	7.95	0.75	0%	0.75	0%	0.25	2.76E-03	1.33	5.96	5.96	0.02	0.53	0.10	7.99E-03	75%
PPG, DMD1699G, DELTRON MIXING BASES	9.50	0.81	0%	0.81	0%	0.19	2.50E-04	1.33	7.69	7.69	2.56E-03	0.06	0.01	6.59E-04	75%
PPG, DMD614Q, VAT BLUE URETHANE	8.19	0.50	0%	0.50	0%	0.50	3.26E-03	1.33	4.10	4.10	0.02	0.43	0.08	0.02	75%
PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	8.61	0.58	0%	0.58	0%	0.42	2.50E-04	1.33	4.99	4.99	1.66E-03	0.04	7.27E-03	1.32E-03	75%
PPG, DMD624Q, CARBOZOL VIOLET URETHANE	8.13	0.52	0%	0.52	0%	0.48	1.13E-03	1.33	4.23	4.23	6.35E-03	0.15	0.03	6.42E-03	75%
PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	8.65	0.48	0%	0.48	0%	0.52	1.07E-03	1.33	4.15	4.15	5.89E-03	0.14	0.03	6.99E-03	75%
PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	8.90	0.45	0%	0.45	0%	0.55	1.89E-04	1.33	4.01	4.01	1.01E-03	0.02	4.41E-03	1.35E-03	75%
PPG, DMD646Q, WEAK WHITE	8.78	0.56	0%	0.56	0%	0.44	6.90E-04	1.33	4.92	4.92	4.51E-03	0.11	0.02	3.88E-03	75%
PPG, DMD648Q, WEAK BLACK DELTRON	8.12	0.51	0%	0.51	0%	0.49	1.25E-03	1.33	4.14	4.14	6.88E-03	0.17	0.03	7.24E-03	75%
PPG, DMD691Q, GRAPHITE BLACK	8.55	0.51	0%	0.51	0%	0.49	2.50E-04	1.33	4.36	4.36	1.45E-03	0.03	6.35E-03	1.53E-03	75%
PPG, DP90LFG, EPOXY PRIMER	11.00	0.61	0%	0.61	0%	0.39	0.01	1.33	6.71	6.71	0.12	2.80	0.51	0.08	75%
PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	6.95	0.97	0%	0.97	0%	3.00%	0.02	1.33	6.74	6.74	0.15	3.54	0.65	4.99E-03	75%
PPG, DX578OZ, Basecoat Activator	8.70	0.44	0%	0.44	0%	0.56	3.14E-03	1.33	3.80	3.80	0.02	0.38	0.07	0.02	75%
PPG, DX685G, URETHANE FLATTENING AGENT	8.20	0.80	0%	0.80	0%	0.20	1.97E-03	1.33	6.56	6.56	0.02	0.41	0.08	4.71E-03	75%
PPG, DX840G, UNIVERSAL BLENDING SOLVENT	7.27	0.96	0%	0.96	0%	4.13%	3.81E-03	1.33	6.97	6.97	0.04	0.85	0.15	1.67E-03	75%
PPG, MEK-5, SATWIPES ® SW420185 Wipers,	6.71	0	0%	0	0%	1.00	0.03	1.33	0	0	0	0	0	0.30	75%
PPG, PRL88, ORANGE PEARL	20.60	0.10	0%	0.10	0%	0.90	0.01	1.33	2.06	2.06	0.04	0.86	0.16	0.35	75%
PPG, PRL89, VIOLET PEARL	20.60	0.10	0%	0.10	0%	0.90	3.30E-03	1.33	2.06	2.06	9.04E-03	0.22	0.04	0.09	75%
PPG, PRL90, SUNSET RED	21.59	0.10	0%	0.10	0%	0.90	1.68E-03	1.33	2.16	2.16	4.82E-03	0.12	0.02	0.05	75%
PPG, PRL91, PRL PEARL LINE	21.00	0.10	0%	0.10	0%	0.90	4.49E-03	1.33	2.10	2.10	0.01	0.30	0.05	0.12	75%
PPG, PRL92, PEARL LINE	19.73	9.63%	0%	9.63%	0%	0.90	4.49E-03	1.33	1.90	1.90	0.01	0.27	0.05	0.12	75%
PPG, PRL93, TINCTURE GOLD	19.73	9.98%	0%	9.98%	0%	0.90	5.05E-03	1.33	1.97	1.97	0.01	0.32	0.06	0.13	75%
PPG, PRL94, BLUE GREEN PEARL	21.00	0.10	0%	0.10	0%	0.90	2.80E-04	1.33	2.10	2.10	7.82E-04	0.02	3.43E-03	7.71E-03	75%
PPG, PRL95, BRIGHT WHITE PEARL	21.58	9.96%	0%	9.96%	0%	0.90	2.80E-04	1.33	2.15	2.15	8.01E-04	0.02	3.51E-03	7.92E-03	75%
PPG, PRL96, RUSSET PEARL	21.58	9.96%	0%	9.96%	0%	0.90	3.93E-03	1.33	2.15	2.15	0.01	0.27	0.05	0.11	75%
PPG, PRL98, FINE WHITE PEARL	17.91	0.10	0%	0.10	0%	0.90	3.93E-03	1.33	1.79	1.79	9.36E-03	0.22	0.04	0.09	75%
PPG, PRLX1, CRYSTAL RED PEARL	24.16	9.93%	0%	9.93%	0%	0.90	0.02	1.33	2.40	2.40	0.07	1.68	0.31	0.69	75%
PPG, PRLX2, CRYSTAL SILVER PEARL	23.99	9.59%	0%	9.59%	0%	0.90	5.34E-03	1.33	2.30	2.30	0.02	0.39	0.07	0.17	75%
PPG, PRLX4, CRYSTAL BLUE PEARL	18.33	9.82%	0%	9.82%	0%	0.90	1.68E-03	1.33	1.80	1.80	4.02E-03	0.10	0.02	0.04	75%
PPG, PRLX5, CRYSTAL GREEN PEARL	23.40	9.83%	0%	9.83%	0%	0.90	1.68E-03	1.33	2.30	2.30	5.14E-03	0.12	0.02	0.05	75%
PPG, PRLX6, CRYSTAL FROST RED PEARL	23.15	9.94%	0%	9.94%	0%	0.90	1.68E-03	1.33	2.30	2.30	5.14E-03	0.12	0.02	0.05	75%
PPG, PRLX7, CRYSTAL COPPER PEARL	24.16	9.93%	0%	9.93%	0%	0.90	1.68E-03	1.33	2.40	2.40	5.36E-03	0.13	0.02	0.05	75%
TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	6.50	100%	0%	100%	0%	0%	0.03	1.33	6.50	6.50	0.27	6.41	1.17	0	100%
										Subtotal worse case coating	**1.77**	**6.41**	**1.17**	**1.02**	
WAV - 4 Undercoating															
Pure Asphalt 770	8.42	46.00%	0%	46.00%	0%	0.54	0.90	1.33	3.87	3.87	4.64	111.27	20.31	5.96	75%
Evercoat Rubberized Aerosol	8.58	40.00%	0%	40.00%	0%	0.60	0.04	1.33	3.43	3.43	0.20	4.85	0.89	0.33	75%
PPG S-0900	6.36	100.00%	0%	100.00%	0%	0	0.28	1.33	6.36	6.36	2.35	56.38	10.29	0	100%
										Total worse case coating	**6.99**	**167.65**	**20.31**	**5.96**	

PM/PM10/PM2.5 Control Efficiency: 0.95

		VOC lb/hr	VOC lb/day	VOC tons/yr	PM/PM10/PM2.5 ton/yr
Totals	**Uncontrolled:**	**13.35**	**284.50**	**40.63**	**10.18**
	Controlled:	**13.35**	**284.50**	**40.63**	**0.51**

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)
PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (24 hr/day)
PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)
PTE of PM/PM10 (tons/yr) = Maximum (units/hr) * Gal of Material (gals/unit) * Density (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8,760 hrs/yr) *(1 ton/2,000 lbs)

Appendix A: Emissions Calculations
VOC and Particulate
Bldg 6 Repair (formerly Bus/ParaTransit Van Line No. 1)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
Bldg 6 Assembly															
DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	9.34	0.40	0%	0.40	0%	0.60	0.33	0.50	3.73	3.73	0.61	14.73	2.69	0	100%
PPG, DX103G, MULTI-PREP	6.57	100%	0%	100%	0%	0%	0.02	0.50	6.57	6.57	0.05	1.26	0.23	0	100%
Accumetric Seam Sealer 18876	12.34	0.13%	0%	0%	0%	100%	0.33	0.50	0.02	0.02	2.54E-03	0.06	0.01	0	100%
PPG, DX330G, WAX AND GREASE REMOVER	6.36	100%	0%	100%	0%	0%	0.03	0.50	6.36	6.36	0.09	2.06	0.38	0	100%
TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	6.39	100%	0%	100%	0%	0%	0.42	0.50	6.39	6.39	1.33	31.98	5.84	0	100%
										Subtotal worse case coating	**0.70**	**16.79**	**2.69**	**0**	
Bldg 6Primer Booth (20036)															
PPG, DP50LF, Gray Epoxy Primer	11.75	0.34	0%	0.34	0%	0.66	0.14	0.50	3.99	3.99	0.27	6.46	1.18	0.57	75%
PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	6.91	0.35	0%	0.35	0%	0.65	0.27	0.50	2.42	2.42	0.33	7.95	1.45	0.67	75%
DP90 LF Primer	11.29	0.37	0%	0.37	0%	0.63	0.28	0.50	4.14	4.14	0.58	13.81	2.52	1.09	75%
DT870 Reducer	6.91	1.00	0%	1.00	0%	0	0.07	0.50	6.91	6.91	0.24	5.72	1.04	0	75%
DP402LF Hardner	7.78	0.67	0%	0.67	0%	0.33	0.08	0.50	5.22	5.22	0.22	5.20	0.95	0.12	75%
PPG, DX1787G, ETCHING FILLER	8.42	0.84	0%	0.84	0%	0.16	3.00E-03	0.50	7.07	7.07	0.01	0.25	0.05	2.21E-03	75%
PPG, K201Q, PRIMER SURFACER CATALYST	8.15	0.58	0%	0.58	0%	0.42	5.00E-03	0.50	4.73	4.73	0.01	0.28	0.05	9.37E-03	75%
PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	12.60	0.33	0%	0.33	0%	0.67	0.03	0.50	4.16	4.16	0.06	1.55	0.28	0.14	75%
PPG, K38G, HIGH BUILD PRIMER SURFACER	12.43	0.31	0%	0.31	0%	0.69	0.02	0.50	3.85	3.85	0.03	0.74	0.13	0.08	75%
PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	11.99	0.46	0%	0.46	0%	0.54	2.50E-04	0.50	5.52	5.52	6.89E-04	0.02	3.02E-03	8.86E-04	75%
U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	9.67	0.20	0%	0.20	0%	0.80	0.09	0.50	1.93	1.93	0.09	2.09	0.38	0.53	65%
										Subtotal worse case coating	**1.03**	**24.73**	**4.51**	**1.20**	
Bldg 6 (Paint Booth # 20037)															
DCC Track Black	9.55	60%	0%	60%	0%	40%	0.04	0.50	5.70	5.70	0.11	2.53	0.46	0.08	75%
DT 870	6.91	100%	0%	100%	0%	0%	0.02	0.50	6.91	6.91	0.07	1.58	0.29	0	75%
DCX 61 Hardner	8.97	16%	0%	16%	0%	84%	0.01	0.50	1.44	1.44	7.92E-03	0.19	0.03	0.05	75%
Accessory Solvent - DX 330 Wax Remover	6.36	100%	0%	100%	0%	0%	0.01	0.50	6.36	6.36	0.04	0.92	0.17	0	100%
ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	9.29	0%	0%	0%	0%	100%	0.01	0.50	0	0	0	0	0	0	100%
, 66003, Acetone	6.55	0%	0%	0%	0%	100%	0.22	0.50	0	0	0	0	0	0	100%
PLASTI-KOTE, M1, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.03	0.50	5.30	5.30	0.08	2.03	0.37	0.05	75%
PLASTI-KOTE, M2, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.01	0.50	5.30	5.30	0.03	0.70	0.13	0.02	75%
PPG, DBC500Q, Color Blender	7.75	0.74	0%	0.74	0%	0.26	2.00E-03	0.50	5.73	5.73	5.73E-03	0.14	0.03	2.21E-03	75%
PPG, DC3000G, HIGH VELOCITY CLEARCOAT	7.67	0.62	0%	0.62	0%	0.38	0.16	0.50	4.75	4.75	0.38	9.23	1.69	0.26	75%
PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	7.84	0.66	0%	0.66	0%	0.34	1.00E-03	0.50	5.17	5.17	2.59E-03	0.06	0.01	1.46E-03	75%
PPG, DMC900G, STRONG WHITE	10.79	0.35	0%	0.35	0%	0.65	0.03	0.50	3.78	3.78	0.05	1.22	0.22	0.10	75%
PPG, DMC901G, STRONG TINTING BLACK	8.45	0.50	0%	0.50	0%	0.50	7.00E-03	0.50	4.26	4.26	0.01	0.36	0.07	0.02	75%
PPG, DMC902, CARBON BLACK	8.39	0.57	0%	0.57	0%	0.43	1.00E-03	0.50	4.78	4.78	2.39E-03	0.06	0.01	1.98E-03	75%
PPG, DMC903Q, WEAK TINTING BLACK	8.37	0.53	0%	0.53	0%	0.47	8.00E-03	0.50	4.44	4.44	0.02	0.43	0.08	0.02	75%
PPG, DMC921G, HIGH COLOR BLACK	8.35	0.56	0%	0.56	0%	0.44	2.50E-03	0.50	4.68	4.68	5.85E-03	0.14	0.03	5.03E-03	75%
PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	8.46	0.53	0%	0.53	0%	0.47	1.00E-03	0.50	4.48	4.48	2.24E-03	0.05	9.82E-03	2.18E-03	75%
PPG, DMC981Q, CONCEPT FINE ALUMINUM	8.17	0.63	0%	0.63	0%	0.37	3.00E-04	0.50	5.12	5.12	7.68E-04	0.02	3.37E-03	5.01E-04	75%
PPG, DMD1605Q, MAGENTA	7.87	0.81	0%	0.81	0%	0.19	2.00E-03	0.50	6.35	6.35	6.35E-03	0.15	0.03	1.66E-03	75%
PPG, DMD1606Q, PERYLENE MAROON	8.65	0.81	0%	0.81	0%	0.19	8.00E-03	0.50	7.04	7.04	0.03	0.68	0.12	7.03E-03	75%
PPG, DMD1607Q, PHTHALO BLUE	7.96	0.78	0%	0.78	0%	0.22	3.00E-03	0.50	6.23	6.23	9.35E-03	0.22	0.04	2.84E-03	75%
PPG, DMD1609Q, QUINDO VIOLET BC	7.97	0.76	0%	0.76	0%	0.24	1.00E-03	0.50	6.06	6.06	3.03E-03	0.07	0.01	1.05E-03	75%
PPG, DMD1610Q, TRANSPARENT ORANGE	8.23	0.70	0%	0.70	0%	0.30	4.39E-04	0.50	5.76	5.76	1.26E-03	0.03	5.54E-03	5.93E-04	75%
PPG, DMD1675Q, PHTHALO BLUE	7.92	0.73	0%	0.73	0%	0.27	4.00E-03	0.50	5.78	5.78	0.01	0.28	0.05	4.68E-03	75%
PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	7.96	0.80	0%	0.80	0%	0.20	1.88E-04	0.50	6.37	6.37	5.99E-04	0.01	2.62E-03	1.64E-04	75%
PPG, DMD1677Q, SCARLET RED	7.98	0.72	0%	0.72	0%	0.28	1.44E-03	0.50	5.75	5.75	4.14E-03	0.10	0.02	1.76E-03	75%
PPG, DMD1679Q, QUINDO RED	7.82	0.77	0%	0.77	0%	0.23	6.27E-04	0.50	6.02	6.02	1.89E-03	0.05	8.27E-03	6.17E-04	75%
PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	7.93	0.76	0%	0.76	0%	0.24	0.02	0.50	6.03	6.03	0.05	1.17	0.21	0.02	75%
PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	7.89	0.76	0%	0.76	0%	0.24	0.02	0.50	6.00	6.00	0.05	1.27	0.23	0.02	75%
PPG, DMD1682Q, COARSE ALUMINUM	7.89	0.76	0%	0.76	0%	0.24	0.01	0.50	6.00	6.00	0.04	0.92	0.17	0.01	75%
PPG, DMD1683G, BLACK MIXING BASE	7.60	0.80	0%	0.80	0%	0.20	0.02	0.50	6.08	6.08	0.05	1.10	0.20	0.01	75%
PPG, DMD1684G, BASECOAT WHITE	10.84	0.70	0%	0.70	0%	0.30	0.02	0.50	7.59	7.59	0.08	1.81	0.33	0.04	75%
PPG, DMD1686G, FINE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	5.00E-04	0.50	6.05	6.05	1.51E-03	0.04	6.63E-03	4.95E-04	75%
PPG, DMD1687G, MEDIUM SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	4.77E-03	0.50	6.05	6.05	0.01	0.35	0.06	4.72E-03	75%
PPG, DMD1690G, COARSE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	3.51E-03	0.50	6.05	6.05	0.01	0.25	0.05	3.47E-03	75%
PPG, DMD1693Q, PHTHALO GREEN	7.98	0.73	0%	0.73	0%	0.27	5.02E-04	0.50	5.83	5.83	1.46E-03	0.04	6.40E-03	5.92E-04	75%

Appendix A: Emissions Calculations
VOC and Particulate
Bldg 6 Repair (formerly Bus/ParaTransit Van Line No. 1)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
(Paint Booth # 20031)															
PPG, DMD1694Q, PERRINDO MAROON	7.87	0.77	0%	0.77	0%	0.23	5.00E-03	0.50	6.06	6.06	0.02	0.36	0.07	4.96E-03	75%
PPG, DMD1696Q, DELTRON MIXING BASES	9.50	0.80	0%	0.80	0%	0.20	2.50E-04	0.50	7.60	7.60	9.50E-04	0.02	4.16E-03	2.60E-04	75%
PPG, DMD1697Q, DBC MIXING SYSTEM	9.50	0.77	0%	0.77	0%	0.23	2.26E-03	0.50	7.32	7.32	8.27E-03	0.20	0.04	2.70E-03	75%
PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	7.95	0.75	0%	0.75	0%	0.25	2.76E-03	0.50	5.96	5.96	8.23E-03	0.20	0.04	3.00E-03	75%
PPG, DMD1699G, DELTRON MIXING BASES	9.50	0.81	0%	0.81	0%	0.19	2.50E-04	0.50	7.69	7.69	9.61E-04	0.02	4.21E-03	2.48E-04	75%
PPG, DMD614Q, VAT BLUE URETHANE	8.19	0.50	0%	0.50	0%	0.50	3.26E-03	0.50	4.10	4.10	6.67E-03	0.16	0.03	7.31E-03	75%
PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	8.61	0.58	0%	0.58	0%	0.42	2.50E-04	0.50	4.99	4.99	6.24E-04	0.01	2.73E-03	4.95E-04	75%
PPG, DMD624Q, CARBOZOL VIOLET URETHANE	8.13	0.52	0%	0.52	0%	0.48	1.13E-03	0.50	4.23	4.23	2.39E-03	0.06	0.01	2.41E-03	75%
PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	8.65	0.48	0%	0.48	0%	0.52	1.07E-03	0.50	4.15	4.15	2.22E-03	0.05	9.70E-03	2.63E-03	75%
PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	8.90	0.45	0%	0.45	0%	0.55	1.89E-04	0.50	4.01	4.01	3.78E-04	9.08E-03	1.66E-03	5.07E-04	75%
PPG, DMD646Q, WEAK WHITE	8.78	0.56	0%	0.56	0%	0.44	6.90E-04	0.50	4.92	4.92	1.70E-03	0.04	7.43E-03	1.46E-03	75%
PPG, DMD648Q, WEAK BLACK DELTRON	8.12	0.51	0%	0.51	0%	0.49	1.25E-03	0.50	4.14	4.14	2.59E-03	0.06	0.01	2.72E-03	75%
PPG, DMD691Q, GRAPHITE BLACK	8.55	0.51	0%	0.51	0%	0.49	2.50E-04	0.50	4.36	4.36	5.45E-04	0.01	2.39E-03	5.73E-04	75%
PPG, DP90LFG, EPOXY PRIMER	11.00	0.61	0%	0.61	0%	0.39	0.01	0.50	6.71	6.71	0.04	1.05	0.19	0.03	75%
PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	6.95	0.97	0%	0.97	0%	3.00%	0.02	0.50	6.74	6.74	0.06	1.33	0.24	1.88E-03	75%
PPG, DX578OZ, Basecoat Activator	8.70	0.44	0%	0.44	0%	0.56	3.14E-03	0.50	3.80	3.80	5.97E-03	0.14	0.03	8.42E-03	75%
PPG, DX685G, URETHANE FLATTENING AGENT	8.20	0.80	0%	0.80	0%	0.20	1.97E-03	0.50	6.56	6.56	6.46E-03	0.16	0.03	1.77E-03	75%
PPG, DX840G, UNIVERSAL BLENDING SOLVENT	7.27	0.96	0%	0.96	0%	4.13%	3.81E-03	0.50	6.97	6.97	0.01	0.32	0.06	6.26E-04	75%
PPG, MEK-5, SATWIPES ® SW420185 Wipers,	6.71	0	0%	0	0%	1.00	0.03	0.50	0	0	0	0	0	0.11	75%
PPG, PRL88, ORANGE PEARL	20.60	0.10	0%	0.10	0%	0.90	0.01	0.50	2.06	2.06	0.01	0.32	0.06	0.13	75%
PPG, PRL89, VIOLET PEARL	20.60	0.10	0%	0.10	0%	0.90	3.30E-03	0.50	2.06	2.06	3.40E-03	0.08	0.01	0.03	75%
PPG, PRL90, SUNSET RED	21.59	0.10	0%	0.10	0%	0.90	1.68E-03	0.50	2.16	2.16	1.81E-03	0.04	7.94E-03	0.02	75%
PPG, PRL91, PRL PEARL LINE	21.00	0.10	0%	0.10	0%	0.90	4.49E-03	0.50	2.10	2.10	4.71E-03	0.11	0.02	0.05	75%
PPG, PRL92, PEARL LINE	19.73	9.63%	0%	9.63%	0%	0.90	4.49E-03	0.50	1.90	1.90	4.27E-03	0.10	0.02	0.04	75%
PPG, PRL93, TINCTURE GOLD	19.73	9.98%	0%	9.98%	0%	0.90	5.05E-03	0.50	1.97	1.97	4.97E-03	0.12	0.02	0.05	75%
PPG, PRL94, BLUE GREEN PEARL	21.00	0.10	0%	0.10	0%	0.90	2.80E-04	0.50	2.10	2.10	2.94E-04	7.06E-03	1.29E-03	2.90E-03	75%
PPG, PRL95, BRIGHT WHITE PEARL	21.58	9.96%	0%	9.96%	0%	0.90	2.80E-04	0.50	2.15	2.15	3.01E-04	7.22E-03	1.32E-03	2.98E-03	75%
PPG, PRL96, RUSSET PEARL	21.58	9.96%	0%	9.96%	0%	0.90	3.93E-03	0.50	2.15	2.15	4.22E-03	0.10	0.02	0.04	75%
PPG, PRL98, FINE WHITE PEARL	17.91	0.10	0%	0.10	0%	0.90	3.93E-03	0.50	1.79	1.79	3.52E-03	0.08	0.02	0.03	75%
PPG, PRLX1, CRYSTAL RED PEARL	24.16	9.93%	0%	9.93%	0%	0.90	0.02	0.50	2.40	2.40	0.03	0.63	0.12	0.26	75%
PPG, PRLX2, CRYSTAL SILVER PEARL	23.99	9.59%	0%	9.59%	0%	0.90	5.34E-03	0.50	2.30	2.30	6.14E-03	0.15	0.03	0.06	75%
PPG, PRLX4, CRYSTAL BLUE PEARL	18.33	9.82%	0%	9.82%	0%	0.90	1.68E-03	0.50	1.80	1.80	1.51E-03	0.04	6.62E-03	0.02	75%
PPG, PRLX5, CRYSTAL GREEN PEARL	23.40	9.83%	0%	9.83%	0%	0.90	1.68E-03	0.50	2.30	2.30	1.93E-03	0.05	8.46E-03	0.02	75%
PPG, PRLX6, CRYSTAL FROST RED PEARL	23.15	9.94%	0%	9.94%	0%	0.90	1.68E-03	0.50	2.30	2.30	1.93E-03	0.05	8.46E-03	0.02	75%
PPG, PRLX7, CRYSTAL COPPER PEARL	24.16	9.93%	0%	9.93%	0%	0.90	1.68E-03	0.50	2.40	2.40	2.02E-03	0.05	8.83E-03	0.02	75%
TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	6.50	100%	0%	100%	0%	0%	0.03	0.50	6.50	6.50	0.10	2.41	0.44	0	100%
										Subtotal worse case coating	**0.66**	**2.41**	**0.44**	**0.38**	
Undercoating															
Pure Asphalt 770	8.42	46.00%	0%	46.00%	0%	0.54	0.90	0.50	3.87	3.87	1.74	41.83	7.63	2.24	75%
Evercoat Rubberized Aerosol	8.58	40.00%	0%	40.00%	0%	0.60	0.04	0.50	3.43	3.43	0.08	1.82	0.33	0.12	75%
PPG S-0900	6.36	100.00%	0%	100.00%	0%	0	0.28	0.50	6.36	6.36	0.88	21.19	3.87	0	100%
										Total worse case coating	**2.63**	**63.02**	**7.63**	**2.24**	

METHODOLOGY
Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)
PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (24 hr/day)
PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)
PTE of PM/PM10 (tons/yr) = Maximum (units/hr) * Gal of Material (gals/unit) * Density (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8,760 hrs/yr) *(1 ton/2,000 lbs)

PM/PM10/PM2.5 Control Efficiency: 0.95

		VOC lb/hr	VOC lb/day	VOC tons/yr	PM/PM10/PM2.5 ton/yr
Totals	**Uncontrolled:**	**5.02**	**106.95**	**15.28**	**3.83**
	Controlled:	**5.02**	**106.95**	**15.28**	**0.19**

Appendix A: Emissions Calculations
VOC and Particulate
Bus/ParaTransit Van Line No. 1 (now Bldg 6 Repair)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
Bus/ParaTransit 1 Assembly															
DYNATRON, 560, GREY AUTOMOTIVE SEAM SEALER	7.22	0.43	0%	0.43	0%	0.57	0.24	0.50	3.13	3.13	0.38	9.02	1.65	0	100%
SILAPRENE SILICONE SEALANT	11.54	0%	0%	0%	0%	100%	0.08	0.50	0	0	0	0	0	0	100%
SILAPRENE SILICONE SEALANT	11.55	0%	0%	0%	0%	100%	0.12	0.50	0	0	0	0	0	0	100%
PPG, DX103G, MULTI-PREP	6.57	100%	0%	100%	0%	0%	0.16	0.50	6.57	6.57	0.54	12.93	2.36	0	100%
SPRAY ADHESIVE	10.08	0.25	0%	0.25	0%	0.25	0.05	0.50	2.52	2.52	0.06	1.43	0.26	0.39	50%
										Subtotal worse case coating	**0.38**	**9.02**	**1.65**	**0**	
Bus/ParaTransit 1 (Prep Booth 20012, Prime Booth 20019)															
, 66003, Acetone	6.55	0%	0%	0%	0%	100%	0.22	0.50	0	0	0	0	0	0	100%
DX 1787 Etching Filler	8.42	69%	41%	28%	0%	32%	0.02	0.50	2.32	2.32	0.02	0.50	0.09	0.05	50%
DX 1788 activator	7.04	98%	0%	98%	0%	2%	0.02	0.50	6.90	6.90	0.08	1.82	0.33	3.39E-03	50%
K38 Primer	12.33	33%	0%	33%	0%	67%	0.11	0.50	4.07	4.07	0.22	5.32	0.97	0.99	50%
BASF, DP402LFG, Epoxy Primer Catalyst	7.75	0.67	0%	0.67	0%	0.33	0.38	0.50	5.19	5.19	0.98	23.57	4.30	1.06	50%
PPG, DBX1689G, DELTRON 2000 BASECOAT CON	7.50	0.90	0%	0.90	0%	0.10	3.64E-03	0.50	6.75	6.75	0.01	0.29	0.05	2.99E-03	50%
PPG, DP50LF, Gray Epoxy Primer	11.75	0.34	0%	0.34	0%	0.66	0.13	0.50	3.99	3.99	0.27	6.44	1.18	1.14	50%
PPG, DC3000G, HIGH VELOCITY CLEARCOAT	7.67	0.62	0%	0.62	0%	0.38	0.16	0.50	4.75	4.75	0.38	9.22	1.68	0.52	50%
PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	7.84	0.66	0%	0.66	0%	0.34	1.40E-03	0.50	5.17	5.17	3.62E-03	0.09	0.02	4.09E-03	50%
PPG, DMC900G, STRONG WHITE	10.79	0.35	0%	0.35	0%	0.65	0.03	0.50	3.78	3.78	0.05	1.21	0.22	0.20	50%
PPG, DMC901G, STRONG TINTING BLACK	8.45	0.50	0%	0.50	0%	0.50	6.78E-03	0.50	4.26	4.26	0.01	0.35	0.06	0.03	50%
PPG, DMC902, CARBON BLACK	8.39	0.57	0%	0.57	0%	0.43	5.02E-04	0.50	4.78	4.78	1.20E-03	0.03	5.26E-03	1.98E-03	50%
PPG, DMC903Q, WEAK TINTING BLACK	8.37	0.53	0%	0.53	0%	0.47	7.85E-03	0.50	4.44	4.44	0.02	0.42	0.08	0.03	50%
PPG, DMC921G, HIGH COLOR BLACK	8.35	0.56	0%	0.56	0%	0.44	2.51E-04	0.50	4.68	4.68	5.87E-04	0.01	2.57E-03	1.01E-03	50%
PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	8.46	0.53	0%	0.53	0%	0.47	1.13E-03	0.50	4.48	4.48	2.53E-03	0.06	0.01	4.92E-03	50%
PPG, DMC981Q, CONCEPT FINE ALUMINUM	8.17	0.63	0%	0.63	0%	0.37	3.13E-04	0.50	5.12	5.12	8.02E-04	0.02	3.51E-03	1.04E-03	50%
PPG, DMD1605Q, MAGENTA	7.87	0.81	0%	0.81	0%	0.19	1.56E-03	0.50	6.35	6.35	4.96E-03	0.12	0.02	2.59E-03	50%
PPG, DMD1606Q, PERYLENE MAROON	8.65	0.81	0%	0.81	0%	0.19	8.10E-03	0.50	7.04	7.04	0.03	0.68	0.12	0.01	50%
PPG, DMD1607Q, PHTHALO BLUE	7.96	0.78	0%	0.78	0%	0.22	2.95E-03	0.50	6.23	6.23	9.19E-03	0.22	0.04	5.58E-03	50%
PPG, DMD1609Q, QUINDO VIOLET BC	7.97	0.76	0%	0.76	0%	0.24	6.90E-03	0.50	6.06	6.06	0.02	0.50	0.09	0.01	50%
PPG, DMD1610Q, TRANSPARENT ORANGE	8.23	0.70	0%	0.70	0%	0.30	4.39E-04	0.50	5.76	5.76	1.26E-03	0.03	5.54E-03	1.19E-03	50%
PPG, DMD1675Q, PHTHALO BLUE	7.92	0.73	0%	0.73	0%	0.27	3.57E-03	0.50	5.78	5.78	0.01	0.25	0.05	8.36E-03	50%
PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	7.96	0.80	0%	0.80	0%	0.20	1.88E-04	0.50	6.37	6.37	5.99E-04	0.01	2.62E-03	3.28E-04	50%
PPG, DMD1677Q, SCARLET RED	7.98	0.72	0%	0.72	0%	0.28	1.44E-03	0.50	5.75	5.75	4.15E-03	0.10	0.02	3.53E-03	50%
PPG, DMD1679Q, QUINDO RED	7.82	0.77	0%	0.77	0%	0.23	6.27E-04	0.50	6.02	6.02	1.89E-03	0.05	8.27E-03	1.23E-03	50%
PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	7.93	0.76	0%	0.76	0%	0.24	0.02	0.50	6.03	6.03	0.05	1.17	0.21	0.03	50%
PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	7.89	0.76	0%	0.76	0%	0.24	0.02	0.50	6.00	6.00	0.05	1.27	0.23	0.04	50%
PPG, DMD1682Q, COARSE ALUMINUM	7.89	0.76	0%	0.76	0%	0.24	0.01	0.50	6.00	6.00	0.04	0.92	0.17	0.03	50%
PPG, DMD1683G, BLACK MIXING BASE	7.60	0.80	0%	0.80	0%	0.20	0.02	0.50	6.08	6.08	0.05	1.10	0.20	0.03	50%
PPG, DMD1684G, BASECOAT WHITE	10.84	0.70	0%	0.70	0%	0.30	0.02	0.50	7.59	7.59	0.08	1.81	0.33	0.07	50%
PPG, DMD1686G, FINE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	5.02E-04	0.50	6.05	6.05	1.52E-03	0.04	6.65E-03	9.94E-04	50%
PPG, DMD1687G, MEDIUM SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	4.77E-03	0.50	6.05	6.05	0.01	0.35	0.06	9.44E-03	50%
PPG, DMD1690G, COARSE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	3.51E-03	0.50	6.05	6.05	0.01	0.25	0.05	6.95E-03	50%
PPG, DMD1693Q, PHTHALO GREEN	7.98	0.73	0%	0.73	0%	0.27	5.02E-04	0.50	5.83	5.83	1.46E-03	0.04	6.40E-03	1.18E-03	50%
PPG, DMD1694Q, PERRINDO MAROON	7.87	0.77	0%	0.77	0%	0.23	5.02E-03	0.50	6.06	6.06	0.02	0.37	0.07	9.95E-03	50%
PPG, DMD1696Q, DELTRON MIXING BASES	9.50	0.80	0%	0.80	0%	0.20	2.51E-04	0.50	7.60	7.60	9.54E-04	0.02	4.18E-03	5.22E-04	50%
PPG, DMD1697Q, DBC MIXING SYSTEM	9.50	0.77	0%	0.77	0%	0.23	2.26E-03	0.50	7.32	7.32	8.27E-03	0.20	0.04	5.41E-03	50%
PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	7.95	0.75	0%	0.75	0%	0.25	2.76E-03	0.50	5.96	5.96	8.23E-03	0.20	0.04	6.01E-03	50%
PPG, DMD1699G, DELTRON MIXING BASES	9.50	0.81	0%	0.81	0%	0.19	2.51E-04	0.50	7.69	7.69	9.65E-04	0.02	4.23E-03	4.97E-04	50%
PPG, DMD614Q, VAT BLUE URETHANE	8.19	0.50	0%	0.50	0%	0.50	3.26E-03	0.50	4.10	4.10	6.67E-03	0.16	0.03	0.01	50%
PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	8.61	0.58	0%	0.58	0%	0.42	2.51E-04	0.50	4.99	4.99	6.27E-04	0.02	2.75E-03	9.94E-04	50%
PPG, DMD624Q, CARBOZOL VIOLET URETHANE	8.13	0.52	0%	0.52	0%	0.48	1.13E-03	0.50	4.23	4.23	2.39E-03	0.06	0.01	4.83E-03	50%
PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	8.65	0.48	0%	0.48	0%	0.52	1.06E-03	0.50	4.15	4.15	2.20E-03	0.05	9.64E-03	5.22E-03	50%
PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	8.90	0.45	0%	0.45	0%	0.55	1.88E-04	0.50	4.01	4.01	3.76E-04	9.04E-03	1.65E-03	1.01E-03	50%
PPG, DMD646Q, WEAK WHITE	8.78	0.56	0%	0.56	0%	0.44	6.09E-04	0.50	4.92	4.92	1.50E-03	0.04	6.56E-03	2.58E-03	50%
PPG, DMD648Q, WEAK BLACK DELTRON	8.12	0.51	0%	0.51	0%	0.49	1.25E-03	0.50	4.14	4.14	2.59E-03	0.06	0.01	5.45E-03	50%
PPG, DMD691Q, GRAPHITE BLACK	8.55	0.51	0%	0	0%	0.49	2.51E-04	0.50	0	0	0	0	0	1.15E-03	50%
										Subtotal worse case coating	**0.70**	**16.86**	**3.08**	**1.56**	

Appendix A: Emissions Calculations
VOC and Particulate
Bus/ParaTransit Van Line No. 1 (now Bldg 6 Repair)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
Bus/ParaTransit 1 (Paint Booth # 20018)															
PPG, DP90LFG, EPOXY PRIMER	11.00	0.61	0%	0.61	0%	0.39	0.01	0.50	6.71	6.71	0.04	1.05	0.19	0.06	50%
PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	12.60	0.33	0%	0.33	0%	0.67	0.17	0.50	4.16	4.16	0.35	8.32	1.52	1.54	50%
PPG DT885	7.04	1.00	0%	1.00	0%	0	0.02	0.50	7.04	7.04	0.06	1.54	0.28	0	50%
PPG DCC4289	10.66	0.49	1%	0.48	0%	0.51	0.33	0.50	5.12	5.12	0.85	20.47	3.73	1.98	50%
PPG DCX61 Hardner	8.97	0.16	0%	0.16	0%	0.84	0.11	0.50	1.44	1.44	0.08	1.88	0.34	0.90	50%
Easy Sanding	9.67	0.20	0%	0.20	0%	0.80	0.09	0.50	1.93	1.93	0.09	2.10	0.38	0.77	50%
PPG, DX320G, 901 Pre-Paint Cleaner	5.94	100%	0%	100%	0%	0%	9.45E-03	0.50	5.94	5.94	0.03	0.67	0.12	0	50%
PPG, NCP271G, COR RESIST PRIMR CATALYST	12.71	0.25	0%	0.25	0%	0.75	3.13E-04	0.50	3.18	3.18	4.97E-04	0.01	2.18E-03	3.27E-03	50%
PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	11.99	0.46	0%	0.46	0%	0.54	2.51E-04	0.50	5.52	5.52	6.92E-04	0.02	3.03E-03	1.78E-03	50%
PPG, NCX2200Q, 2K NON-ISO SEALER HARDENE	8.26	0.52	0%	0.52	0%	0.48	1.57E-04	0.50	4.30	4.30	3.37E-04	8.09E-03	1.48E-03	6.82E-04	50%
										Subtotal worse case coating	**1.34**	**32.20**	**5.88**	**4.43**	
Bus/ParaTransit 1 Undercoating															
Pure Asphalt 770	8.42	46.00%	0%	0.46	0%	0.54	1.22	0.50	3.87	3.87	2.36	56.70	10.35	3.04	75%
Evercoat Rubberized Aerosol	8.58	40.00%	0%	0.40	0%	0.60	0.03	0.50	3.43	3.43	0.05	1.24	0.23	0.08	75%
PPG S-0900	6.36	100.00%	0%	1.00	0%	0	0.03	0.50	6.36	6.36	0.08	1.91	0.35	0	75%
ECP, 51423, AA WB RUST PROTECTANT	8.17	0.55	0%	0.55	0%	0.45	5.62E-03	0.50	4.49	4.49	0.01	0.30	0.06	0.01	75%
U.S. CHEMICAL & PLASTICS, 51030, RUBBER UNDERCOATING & SOUND DEADENER	6.83	0.63	0%	0.63	0%	0.37	0.43	0.50	4.29	4.29	0.93	22.34	4.08	0.60	75%
U.S. CHEMICAL & PLASTICS, 51333, RUBBER UNDERCOATING & SOUND DEADENER	6.83	0.63	0%	0.63	0%	0.37	0.42	0.50	4.29	4.29	0.90	21.48	3.92	0.58	75%
										Total worse case coating	**2.44**	**58.61**	**10.70**	**3.04**	

PM/PM10/PM2.5 Control Efficiency: 0.95

		VOC lb/hr	VOC lb/day	VOC tons/yr	PM/PM10/PM2.5 ton/yr
Totals	**Uncontrolled:**	**4.86**	**116.70**	**21.30**	**9.02**
	Controlled:	**4.86**	**116.70**	**21.30**	**0.45**

METHODOLOGY
All coatings are "as applied" to the applicators
Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)
PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (24 hr/day)
PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)
PTE of PM/PM10 (tons/yr) = Maximum (units/hr) * Gal of Material (gals/unit) * Density (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8,760 hrs/yr) *(1 ton/2,000 lbs)

Appendix A: Emissions Calculations
VOC and Particulate
Bldg 7

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
Bldg 7 Assembly															
DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	9.34	0.40	0%	0.40	0%	0.60	0.03	1.00	3.73	3.73	0.12	2.95	0.54	0	100%
PPG, DX103G, MULTI-PREP	6.57	100%	0%	100%	0%	0%	0.02	1.00	6.57	6.57	0.11	2.52	0.46	0	100%
Accumetric Seam Sealer 18876	12.34	0.13%	0%	0%	0%	100%	0.13	1.00	0.02	0.02	1.93E-03	0.05	8.45E-03	0	100%
PPG, DX330G, WAX AND GREASE REMOVER	6.36	100%	0%	100%	0%	0%	0.01	1.00	6.36	6.36	0.08	1.95	0.36	0	100%
TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	6.39	100%	0%	100%	0%	0%	0.02	1.00	6.39	6.39	0.10	2.30	0.42	0	100%
										Subtotal worse case coating	**0.20**	**4.89**	**0.54**	**0**	
Bldg 7 Booth															
PPG, DP50LF, Gray Epoxy Primer	11.75	0.34	0	0.34	0	0.66	0.14	1.00	3.99	3.99	0.54	12.93	2.36	1.15	75%
PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	6.91	0.35	0%	0.35	0%	0.65	0.03	1.00	2.42	2.42	0.07	1.60	0.29	0.14	75%
										Subtotal worse case coating	**0.74**	**17.82**	**2.90**	**1.15**	

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)
PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (24 hr/day)
PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)
PTE of PM/PM10 (tons/yr) = Maximum (units/hr) * Gal of Material (gals/unit) * Density (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8,760 hrs/yr) *(1 ton/2,000 lbs)

PM/PM10/PM2.5 Control Efficiency: 0.95

		VOC lb/hr	VOC lb/day	VOC tons/yr	PM/PM10/PM2.5 ton/yr
Totals	**Uncontrolled:**	**0.74**	**17.82**	**2.90**	**1.15**
	Controlled:	**0.74**	**17.82**	**2.90**	**0.06**

Appendix A: Emissions Calculations
VOC and Particulate
PPL Line

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
PPL Line Assembly															
DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	9.34	0.40	0%	0.40	0%	0.60	0.33	0.01	3.73	3.73	0.01	0.29	0.05	0	100%
PPG, DX103G, MULTI-PREP	6.57	100%	0%	100%	0%	0%	0.02	0.01	6.57	6.57	1.05E-03	0.03	4.60E-03	0	100%
Accumetric Seam Sealer 18876	12.34	0.13%	0%	0%	0%	100%	0.33	0.01	0.02	0.02	5.07E-05	1.22E-03	2.22E-04	0	100%
PPG, DX330G, WAX AND GREASE REMOVER	6.36	100%	0%	100%	0%	0%	0.03	0.01	6.36	6.36	1.72E-03	0.04	7.52E-03	0	100%
TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	6.39	100%	0%	100%	0%	0%	0.42	0.01	6.39	6.39	0.03	0.64	0.12	0	100%
										Subtotal worse case coating	**0.01**	**0.34**	**0.06**	**0**	

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
PPL Line Primer Booth (20014)															
PPG, DP50LF, Gray Epoxy Primer	11.75	0.34	0%	0.34	0%	0.66	0.14	0.01	3.99	3.99	5.39E-03	0.13	0.02	0.01	75%
PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	6.91	0.35	0%	0.35	0%	0.65	0.27	0.01	2.42	2.42	6.63E-03	0.16	0.03	0.01	75%
DP90 LF Primer	11.29	0.37	0%	0.37	0%	0.63	0.28	0.01	4.14	4.14	0.01	0.28	0.05	0.02	75%
DT870 Reducer	6.91	1.00	0%	1.00	0%	0	0.07	0.01	6.91	6.91	4.77E-03	0.11	0.02	0	75%
DP402LF Hardner	7.78	0.67	0%	0.67	0%	0.33	0.08	0.01	5.22	5.22	4.33E-03	0.10	0.02	2.33E-03	75%
PPG, DX1787G, ETCHING FILLER	8.42	0.84	0%	0.84	0%	0.16	3.00E-03	0.01	7.07	7.07	2.12E-04	5.09E-03	9.29E-04	0	100%
PPG, K201Q, PRIMER SURFACER CATALYST	8.15	0.58	0%	0.58	0%	0.42	5.00E-03	0.01	4.73	4.73	2.36E-04	5.67E-03	1.04E-03	1.87E-04	75%
PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	12.60	0.33	0%	0.33	0%	0.67	0.03	0.01	4.16	4.16	1.29E-03	0.03	5.65E-03	2.86E-03	75%
PPG, K38G, HIGH BUILD PRIMER SURFACER	12.43	0.31	0%	0.31	0%	0.69	0.02	0.01	3.85	3.85	6.16E-04	0.01	2.70E-03	1.50E-03	75%
PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	11.99	0.46	0%	0.46	0%	0.54	2.50E-04	0.01	5.52	5.52	1.38E-05	3.31E-04	6.04E-05	1.77E-05	75%
U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	9.67	0.20	0%	0.20	0%	0.80	0.09	0.01	1.93	1.93	1.74E-03	0.04	7.62E-03	0.01	65%
										Subtotal worse case coating	**0.02**	**0.49**	**0.09**	**0.02**	

Appendix A: Emissions Calculations
VOC and Particulate
PPL Line

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
Vehicle PPL Line (Paint Booth # 20014)															
DCC Track Black	9.55	60%	0%	60%	0%	40%	0.04	0.01	5.70	5.70	2.11E-03	0.05	9.24E-03	1.56E-03	75%
DT 870	6.91	100%	0%	100%	0%	0%	0.02	0.01	6.91	6.91	1.31E-03	0.03	5.75E-03	0	75%
DCX 61 Hardner	8.97	16%	0%	16%	0%	84%	0.01	0.01	1.44	1.44	1.58E-04	3.80E-03	6.94E-04	9.07E-04	75%
Accessory Solvent - DX 330 Wax Remover	6.36	100%	0%	100%	0%	0%	0.01	0.01	6.36	6.36	7.63E-04	0.02	3.34E-03	0	75%
ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	9.29	0%	0%	0%	0%	100%	0.01	0.01	0	0	0	0	0	0	100%
, 66003, Acetone	6.55	0%	0%	0%	0%	100%	0.22	0.01	0	0	0	0	0	0	100%
PLASTI-KOTE, M1, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.03	0.01	5.30	5.30	1.69E-03	0.04	7.42E-03	1.07E-03	75%
PLASTI-KOTE, M2, FLAT BLACK PAINT	8.34	0.64	0%	0.64	0%	0.37	0.01	0.01	5.30	5.30	5.83E-04	0.01	2.55E-03	3.67E-04	75%
PPG, DBC500Q, Color Blender	7.75	0.74	0%	0.74	0%	0.26	2.00E-03	0.01	5.73	5.73	1.15E-04	2.75E-03	5.02E-04	4.42E-05	75%
PPG, DC3000G, HIGH VELOCITY CLEARCOAT	7.67	0.62	0%	0.62	0%	0.38	0.16	0.01	4.75	4.75	7.69E-03	0.18	0.03	5.18E-03	75%
PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	7.84	0.66	0%	0.66	0%	0.34	1.00E-03	0.01	5.17	5.17	5.17E-05	1.24E-03	2.27E-04	2.92E-05	75%
PPG, DMC900G, STRONG WHITE	10.79	0.35	0%	0.35	0%	0.65	0.03	0.01	3.78	3.78	1.02E-03	0.02	4.47E-03	2.07E-03	75%
PPG, DMC901G, STRONG TINTING BLACK	8.45	0.50	0%	0.50	0%	0.50	7.00E-03	0.01	4.26	4.26	2.98E-04	7.16E-03	1.31E-03	3.21E-04	75%
PPG, DMC902, CARBON BLACK	8.39	0.57	0%	0.57	0%	0.43	1.00E-03	0.01	4.78	4.78	4.78E-05	1.15E-03	2.09E-04	3.95E-05	75%
PPG, DMC903Q, WEAK TINTING BLACK	8.37	0.53	0%	0.53	0%	0.47	8.00E-03	0.01	4.44	4.44	3.55E-04	8.52E-03	1.55E-03	3.45E-04	75%
PPG, DMC921G, HIGH COLOR BLACK	8.35	0.56	0%	0.56	0%	0.44	2.50E-03	0.01	4.68	4.68	1.17E-04	2.81E-03	5.12E-04	1.01E-04	75%
PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	8.46	0.53	0%	0.53	0%	0.47	1.00E-03	0.01	4.48	4.48	4.48E-05	1.08E-03	1.96E-04	4.35E-05	75%
PPG, DMC981Q, CONCEPT FINE ALUMINUM	8.17	0.63	0%	0.63	0%	0.37	3.00E-04	0.01	5.12	5.12	1.54E-05	3.69E-04	6.73E-05	1.00E-05	75%
PPG, DMD1605Q, MAGENTA	7.87	0.81	0%	0.81	0%	0.19	2.00E-03	0.01	6.35	6.35	1.27E-04	3.05E-03	5.57E-04	3.32E-05	75%
PPG, DMD1606Q, PERYLENE MAROON	8.65	0.81	0%	0.81	0%	0.19	8.00E-03	0.01	7.04	7.04	5.64E-04	0.01	2.47E-03	1.41E-04	75%
PPG, DMD1607Q, PHTHALO BLUE	7.96	0.78	0%	0.78	0%	0.22	3.00E-03	0.01	6.23	6.23	1.87E-04	4.49E-03	8.19E-04	5.67E-05	75%
PPG, DMD1609Q, QUINDO VIOLET BC	7.97	0.76	0%	0.76	0%	0.24	1.00E-03	0.01	6.06	6.06	6.06E-05	1.45E-03	2.65E-04	2.09E-05	75%
PPG, DMD1610Q, TRANSPARENT ORANGE	8.23	0.70	0%	0.70	0%	0.30	4.39E-04	0.01	5.76	5.76	2.53E-05	6.07E-04	1.11E-04	1.19E-05	75%
PPG, DMD1675Q, PHTHALO BLUE	7.92	0.73	0%	0.73	0%	0.27	4.00E-03	0.01	5.78	5.78	2.31E-04	5.55E-03	1.01E-03	9.37E-05	75%
PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	7.96	0.80	0%	0.80	0%	0.20	1.88E-04	0.01	6.37	6.37	1.20E-05	2.87E-04	5.24E-05	3.28E-06	75%
PPG, DMD1677Q, SCARLET RED	7.98	0.72	0%	0.72	0%	0.28	1.44E-03	0.01	5.75	5.75	8.27E-05	1.99E-03	3.62E-04	3.52E-05	75%
PPG, DMD1679Q, QUINDO RED	7.82	0.77	0%	0.77	0%	0.23	6.27E-04	0.01	6.02	6.02	3.78E-05	9.06E-04	1.65E-04	1.23E-05	75%
PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	7.93	0.76	0%	0.76	0%	0.24	0.02	0.01	6.03	6.03	9.76E-04	0.02	4.28E-03	3.38E-04	75%
PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	7.89	0.76	0%	0.76	0%	0.24	0.02	0.01	6.00	6.00	1.06E-03	0.03	4.65E-03	3.67E-04	75%
PPG, DMD1682Q, COARSE ALUMINUM	7.89	0.76	0%	0.76	0%	0.24	0.01	0.01	6.00	6.00	7.68E-04	0.02	3.36E-03	2.65E-04	75%
PPG, DMD1683G, BLACK MIXING BASE	7.60	0.80	0%	0.80	0%	0.20	0.02	0.01	6.08	6.08	9.16E-04	0.02	4.01E-03	2.51E-04	75%
PPG, DMD1684G, BASECOAT WHITE	10.84	0.70	0%	0.70	0%	0.30	0.02	0.01	7.59	7.59	1.51E-03	0.04	6.61E-03	7.08E-04	75%
PPG, DMD1686G, FINE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	5.00E-04	0.01	6.05	6.05	3.03E-05	7.26E-04	1.33E-04	9.90E-06	75%
PPG, DMD1687G, MEDIUM SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	4.77E-03	0.01	6.05	6.05	2.89E-04	6.93E-03	1.26E-03	9.44E-05	75%
PPG, DMD1690G, COARSE SATIN ALUMINUM	7.86	0.77	0%	0.77	0%	0.23	3.51E-03	0.01	6.05	6.05	2.12E-04	5.10E-03	9.30E-04	6.95E-05	75%
PPG, DMD1693Q, PHTHALO GREEN	7.98	0.73	0%	0.73	0%	0.27	5.02E-04	0.01	5.83	5.83	2.92E-05	7.02E-04	1.28E-04	1.18E-05	75%
PPG, DMD1694Q, PERRINDO MAROON	7.87	0.77	0%	0.77	0%	0.23	5.00E-03	0.01	6.06	6.06	3.03E-04	7.27E-03	1.33E-03	9.91E-05	75%
PPG, DMD1696Q, DELTRON MIXING BASES	9.50	0.80	0%	0.80	0%	0.20	2.50E-04	0.01	7.60	7.60	1.90E-05	4.56E-04	8.32E-05	5.20E-06	75%
PPG, DMD1697Q, DBC MIXING SYSTEM	9.50	0.77	0%	0.77	0%	0.23	2.26E-03	0.01	7.32	7.32	1.65E-04	3.97E-03	7.24E-04	5.41E-05	75%
PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	7.95	0.75	0%	0.75	0%	0.25	2.76E-03	0.01	5.96	5.96	1.65E-04	3.95E-03	7.21E-04	6.01E-05	75%
PPG, DMD1699G, DELTRON MIXING BASES	9.50	0.81	0%	0.81	0%	0.19	2.50E-04	0.01	7.69	7.69	1.92E-05	4.61E-04	8.42E-05	4.95E-06	75%
PPG, DMD614Q, VAT BLUE URETHANE	8.19	0.50	0%	0.50	0%	0.50	3.26E-03	0.01	4.10	4.10	1.33E-04	3.20E-03	5.85E-04	1.46E-04	75%
PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	8.61	0.58	0%	0.58	0%	0.42	2.50E-04	0.01	4.99	4.99	1.25E-05	3.00E-04	5.47E-05	9.90E-06	75%
PPG, DMD624Q, CARBOZOL VIOLET URETHANE	8.13	0.52	0%	0.52	0%	0.48	1.13E-03	0.01	4.23	4.23	4.78E-05	1.15E-03	2.09E-04	4.83E-05	75%
PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	8.65	0.48	0%	0.48	0%	0.52	1.07E-03	0.01	4.15	4.15	4.43E-05	1.06E-03	1.94E-04	5.26E-05	75%
PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	8.90	0.45	0%	0.45	0%	0.55	1.89E-04	0.01	4.01	4.01	7.57E-06	1.82E-04	3.32E-05	1.01E-05	75%
PPG, DMD646Q, WEAK WHITE	8.78	0.56	0%	0.56	0%	0.44	6.90E-04	0.01	4.92	4.92	3.39E-05	8.14E-04	1.49E-04	2.92E-05	75%
PPG, DMD648Q, WEAK BLACK DELTRON	8.12	0.51	0%	0.51	0%	0.49	1.25E-03	0.01	4.14	4.14	5.18E-05	1.24E-03	2.27E-04	5.45E-05	75%
PPG, DMD691Q, GRAPHITE BLACK	8.55	0.51	0%	0.51	0%	0.49	2.50E-04	0.01	4.36	4.36	1.09E-05	2.62E-04	4.77E-05	1.15E-05	75%
PPG, DP90LFG, EPOXY PRIMER	11.00	0.61	0%	0.61	0%	0.39	0.01	0.01	6.71	6.71	8.76E-04	0.02	3.84E-03	6.14E-04	75%
PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	6.95	0.97	0%	0.97	0%	3.00%	0.02	0.01	6.74	6.74	1.11E-03	0.03	4.85E-03	3.75E-05	75%
PPG, DX578OZ, Basecoat Activator	8.70	0.44	0%	0.44	0%	0.56	3.14E-03	0.01	3.80	3.80	1.19E-04	2.86E-03	5.23E-04	1.68E-04	75%
PPG, DX685G, URETHANE FLATTENING AGENT	8.20	0.80	0%	0.80	0%	0.20	1.97E-03	0.01	6.56	6.56	1.29E-04	3.10E-03	5.66E-04	3.54E-05	75%
PPG, DX840G, UNIVERSAL BLENDING SOLVENT	7.27	0.96	0%	0.96	0%	4.13%	3.81E-03	0.01	6.97	6.97	2.66E-04	6.37E-03	1.16E-03	1.25E-05	75%
PPG, MEK-5, SATWIPES ® SW420185 Wipers,	6.71	0	0%	0	0%	1.00	0.03	0.01	0	0	0	0	0	2.27E-03	75%
PPG, PRL88, ORANGE PEARL	20.60	0.10	0%	0.10	0%	0.90	0.01	0.01	2.06	2.06	2.69E-04	6.46E-03	1.18E-03	2.65E-03	75%
PPG, PRL89, VIOLET PEARL	20.60	0.10	0%	0.10	0%	0.90	3.30E-03	0.01	2.06	2.06	6.80E-05	1.63E-03	2.98E-04	6.70E-04	75%
PPG, PRL90, SUNSET RED	21.59	0.10	0%	0.10	0%	0.90	1.68E-03	0.01	2.16	2.16	3.63E-05	8.71E-04	1.59E-04	3.57E-04	75%
PPG, PRL91, PRL PEARL LINE	21.00	0.10	0%	0.10	0%	0.90	4.49E-03	0.01	2.10	2.10	9.43E-05	2.26E-03	4.13E-04	9.29E-04	75%
PPG, PRL92, PEARL LINE	19.73	9.63%	0%	9.63%	0%	0.90	4.49E-03	0.01	1.90	1.90	8.53E-05	2.05E-03	3.74E-04	8.77E-04	75%
PPG, PRL93, TINCTURE GOLD	19.73	9.98%	0%	9.98%	0%	0.90	5.05E-03	0.01	1.97	1.97	9.95E-05	2.39E-03	4.36E-04	9.82E-04	75%
PPG, PRL94, BLUE GREEN PEARL	21.00	0.10	0%	0.10	0%	0.90	2.80E-04	0.01	2.10	2.10	5.88E-06	1.41E-04	2.58E-05	5.79E-05	75%
PPG, PRL95, BRIGHT WHITE PEARL	21.58	9.96%	0%	9.96%	0%	0.90	2.80E-04	0.01	2.15	2.15	6.02E-06	1.44E-04	2.64E-05	5.96E-05	75%
PPG, PRL96, RUSSET PEARL	21.58	9.96%	0%	9.96%	0%	0.90	3.93E-03	0.01	2.15	2.15	8.45E-05	2.03E-03	3.70E-04	8.36E-04	75%
PPG, PRL98, FINE WHITE PEARL	17.91	0.10	0%	0.10	0%	0.90	3.93E-03	0.01	1.79	1.79	7.04E-05	1.69E-03	3.08E-04	6.94E-04	75%
PPG, PRLX1, CRYSTAL RED PEARL	24.16	9.93%	0%	9.93%	0%	0.90	0.02	0.01	2.40	2.40	5.26E-04	0.01	2.30E-03	5.22E-03	75%
PPG, PRLX2, CRYSTAL SILVER PEARL	23.99	9.59%	0%	9.59%	0%	0.90	5.34E-03	0.01	2.30	2.30	1.23E-04	2.95E-03	5.38E-04	1.27E-03	75%
PPG, PRLX4, CRYSTAL BLUE PEARL	18.33	9.82%	0%	9.82%	0%	0.90	1.68E-03	0.01	1.80	1.80	3.02E-05	7.26E-04	1.32E-04	3.04E-04	75%
PPG, PRLX5, CRYSTAL GREEN PEARL	23.40	9.83%	0%	9.83%	0%	0.90	1.68E-03	0.01	2.30	2.30	3.86E-05	9.27E-04	1.69E-04	3.88E-04	75%
PPG, PRLX6, CRYSTAL FROST RED PEARL	23.15	9.94%	0%	9.94%	0%	0.90	1.68E-03	0.01	2.30	2.30	3.86E-05	9.27E-04	1.69E-04	3.84E-04	75%
PPG, PRLX7, CRYSTAL COPPER PEARL	24.16	9.93%	0%	9.93%	0%	0.90	1.68E-03	0.01	2.40	2.40	4.03E-05	9.68E-04	1.77E-04	4.00E-04	75%
TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	6.50	100%	0%	100%	0%	0%	0.03	0.01	6.50	6.50	2.01E-03	0.05	8.80E-03	0	100%
										Subtotal worse case coating	**0.01**	**0.32**	**0.06**	**7.65E-03**	

Appendix A: Emissions Calculations
VOC and Particulate
PPL Line

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
PPL Line Undercoating															
Pure Asphalt 770	8.42	46.00%	0%	46.00%	0%	0.54	0.90	0.01	3.87	3.87	0.03	0.84	0.15	0.04	75%
Evercoat Rubberized Aerosol	8.58	40.00%	0%	40.00%	0%	0.60	0.04	0.01	3.43	3.43	1.52E-03	0.04	6.66E-03	2.50E-03	75%
PPG S-0900	6.36	100.00%	0%	100.00%	0%	0	0.28	0.01	6.36	6.36	0.02	0.42	0.08	0	75%
										Total worse case coating	**0.05**	**1.26**	**0.23**	**0.04**	

METHODOLOGY
All coatings are "as applied" to the applicators
Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)
PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (24 hr/day)
PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)
PTE of PM/PM10 (tons/yr) = Maximum (units/hr) * Gal of Material (gals/unit) * Density (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8,760 hrs/yr) *(1 ton/2,000 lbs)

PM/PM10/PM2.5 Control Efficiency: 0.95

		VOC lb/hr	VOC lb/day	VOC tons/yr	PM/PM10/PM2.5 ton/yr
Totals	**Uncontrolled:**	**0.10**	**2.41**	**0.44**	**0.08**
	Controlled:	**0.10**	**2.41**	**0.44**	**3.83E-03**

Appendix A: Emissions Calculations
VOC and Particulate
Touch-Up Booths

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gals/unit)	Maximum (units/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10/PM2.5 (ton/yr)	Transfer Efficiency
Touch-Up Booth No. 1 (Prep Booth 20013 & Toucup Booth 20034)																
417	PPG, DBX1689G, DELTRON 2000 BASECOAT CON	7.50	0.90	0%	0.90	0%	0.10	3.64E-03	1.25	6.75	6.75	0.03	0.74	0.13	7.48E-03	50%
298	PPG, DMD1684G, BASECOAT WHITE	10.84	0.70	0%	0.70	0%	0.30	2.48E-03	1.25	7.59	7.59	0.02	0.56	0.10	0.02	50%
282	PPG, DMD649G, CLEAR MIXING BASE	8.08	0.53	0%	0.53	0%	0.47	1.04E-03	1.25	4.28	4.28	5.55E-03	0.13	0.02	0.01	50%
322	PPG, DT870G, REDUCER	6.91	100%	0%	100%	0%	0%	9.04E-03	1.25	6.91	6.91	0.08	1.87	0.34	0	50%
354	PPG, DX49P, DELTA SUPER ACCELERATOR	8.17	0.95	0%	0.95	0%	5.02%	1.00E-03	1.25	7.76	7.76	9.74E-03	0.23	0.04	1.13E-03	50%
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	7.84	66%	0%	66%	0%	34%	1.75E-04	1.25	5.17	5.17	1.13E-03	0.03	4.96E-03	1.28E-03	50%
424	PPG, DX320G, 901 Pre-Paint Cleaner	6.31	100%	0%	100%	0%	0%	4.73E-03	1.25	6.31	6.31	0.04	0.90	0.16	0	50%
26	PPG, DCX61G, HI SOLIDS HARDENER	8.97	1.60E-03	0%	0.16%	0%	100%	9.55E-03	1.25	0.01	0.01	1.71E-04	4.11E-03	7.50E-04	0.23	50%
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	7.27	0.96	0%	0.96	0%	4.13%	4.77E-04	1.25	6.97	6.97	4.16E-03	0.10	0.02	3.92E-04	50%
327	PPG, DCH3070Q, URETHANE HARDENER	8.82	0.30	0%	0.30	0%	0.70	9.23E-03	1.25	2.63	2.63	0.03	0.73	0.13	0.16	50%
326	PPG, NCX2200Q, 2K NON-ISO SEALER HARDENE	8.26	0%	0%	0%	0%	100%	7.85E-05	1.25	0	0	0	0	0	1.77E-03	50%
425	PPG, DX578OZ, Basecoat Activator	8.70	0.44	0%	0.44	0%	0.56	5.23E-04	1.25	3.80	3.80	2.48E-03	0.06	0.01	7.02E-03	50%
416	PPG, DBC500Q, Color Blender	7.75	0.74	0%	0.74	0%	0.26	2.38E-04	1.25	5.73	5.73	1.70E-03	0.04	7.47E-03	1.32E-03	50%
422	PPG, DX1787G, ETCHING FILLER	8.42	0.84	0%	0.84	0%	0.16	3.51E-04	1.25	7.07	7.07	3.10E-03	0.07	0.01	1.29E-03	50%
											Subtotal worse case coating	**0.23**	**5.47**	**1.00**	**0.44**	

Touch-Up Booth No. 2 (20035)																
417	PPG, DBX1689G, DELTRON 2000 BASECOAT CON	7.50	0.90	0%	0.90	0%	0.10	3.64E-03	1.25	6.75	6.75	0.03	0.74	0.13	7.47E-03	50%
298	PPG, DMD1684G, BASECOAT WHITE	10.84	0.70	0%	0.70	0%	0.30	2.65E-03	1.25	7.59	7.59	0.03	0.60	0.11	0.02	50%
282	PPG, DMD649G, CLEAR MIXING BASE	8.08	0.53	0%	0.53	0%	0.47	1.04E-03	1.25	4.28	4.28	5.55E-03	0.13	0.02	0.01	50%
322	PPG, DT870G, REDUCER	6.91	100%	0%	100%	0%	0%	9.04E-03	1.25	6.91	6.91	0.08	1.87	0.34	0	50%
354	PPG, DX49P, DELTA SUPER ACCELERATOR	8.17	0.95	0%	0.95	0%	5.02%	1.00E-03	1.25	7.76	7.76	9.74E-03	0.23	0.04	1.13E-03	50%
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	7.84	66%	0%	66%	0%	34%	1.75E-04	1.25	5.17	5.17	1.13E-03	0.03	4.96E-03	1.28E-03	50%
424	PPG, DX320G, 901 Pre-Paint Cleaner	5.94	100%	0%	100%	0%	0%	4.73E-03	1.25	5.94	5.94	0.04	0.84	0.15	0	50%
26	PPG, DCX61G, HI SOLIDS HARDENER	8.95	0%	0%	0.16%	0%	100%	9.55E-03	1.25	0.01	0.01	1.71E-04	4.10E-03	7.48E-04	0.23	50%
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	7.27	0.96	0%	0.96	0%	4.13%	4.77E-04	1.25	6.97	6.97	4.16E-03	0.10	0.02	3.92E-04	50%
327	PPG, DCH3070Q, URETHANE HARDENER	8.82	0.30	0%	0.30	0%	0.70	9.23E-03	1.25	2.63	2.63	0.03	0.73	0.13	0.16	50%
326	PPG, NCX2200Q, 2K NON-ISO SEALER HARDENE	8.26	0%	0%	0%	0%	100%	7.85E-04	1.25	0	0	0	0	0	0.02	50%
425	PPG, DX578OZ, Basecoat Activator	8.70	0.44	0%	0.44	0%	0.56	5.23E-04	1.25	3.80	3.80	2.48E-03	0.06	0.01	7.02E-03	50%
416	PPG, DBC500Q, Color Blender	7.75	0.74	0%	0.74	0%	0.26	2.38E-04	1.25	5.73	5.73	1.70E-03	0.04	7.47E-03	1.32E-03	50%
422	PPG, DX1787G, ETCHING FILLER	8.42	0.84	0%	0.84	0%	0.16	3.51E-04	1.25	7.07	7.07	3.10E-03	0.07	0.01	1.29E-03	50%
											Total worse case coating	**0.23**	**5.46**	**1.00**	**0.46**	

METHODOLOGY
All coatings are "as applied" to the applicators
Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)
PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (24 hr/day)
PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)
PTE of PM/PM10 (tons/yr) = Maximum (units/hr) * Gal of Material (gals/unit) * Density (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8,760 hrs/yr) *(1 ton/2,000 lbs)

PM/PM10/PM2.5 Control Efficiency: 0.95

		VOC lb/hr	VOC lb/day	VOC tons/yr	PM/PM10/PM2.5 ton/yr
Totals	**Uncontrolled:**	**0.46**	**10.93**	**1.99**	**0.91**
	Controlled:	**0.46**	**10.93**	**1.99**	**0.05**

Appendix A: Emissions Calculations
Weight Precent of Each Coating

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Density	Total HAP % Weight	Ethylbenzene % Weight	Styrene % Weight	Ethylene Glycol % Weight	MIK % Weight	Toluene % Weight	Hexane % Weight	n-Hexane % Weight	Xylene % Weight	MMA % Weight	HDI % Weight	CUMENE % Weight	MC % Weight
1	PPG, DP50LF, Gray Epoxy Primer	11.75	9.60%	0.60%	0.00%	0.00%	3.00%	3.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%
3	PPG, DP50LF, Non-Sanding Epoxy Primer Light Gray (Lead Free)	6.91	26.96%	1.00%	0.00%	0.00%	3.46%	15.00%	0.00%	0.00%	7.50%	0.00%	0.00%	0.00%	0.00%
6	PPG, DMC900G, STRONG WHITE	10.79	4.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%
7	PPG, DX330G, WAX AND GREASE REMOVER	6.36	1.42%	0.00%	0.00%	0.00%	0.00%	1.42%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
8	PPG, DC3000G, HIGH VELOCITY CLEARCOAT	7.67	32.00%	3.00%	1.00%	0.00%	0.00%	3.00%	0.00%	0.00%	25.00%	0.00%	0.00%	0.00%	0.00%
9	PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	12.60	18.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	15.00%	0.00%	0.00%	0.00%	0.00%
10	PPG, K38G, HIGH BUILD PRIMER SURFACER	12.43	21.00%	3.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	15.00%	0.00%	0.00%	0.00%	0.00%
13	PPG, DT895G, REDUCER	7.00	35.50%	3.00%	0.00%	0.00%	25.00%	0.00%	0.00%	0.00%	7.50%	0.00%	0.00%	0.00%	0.00%
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	7.84	53.50%	5.00%	1.00%	0.00%	7.50%	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%
15	PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	7.93	8.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.00%	0.00%	0.00%	0.00%	0.00%
16	PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	7.89	8.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.00%	0.00%	0.00%	0.00%	0.00%
17	PPG, DMC903Q, WEAK TINTING BLACK	8.37	4.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%
18	PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	6.95	28.50%	1.00%	0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	7.50%	0.00%	0.00%	0.00%	0.00%
24	SPRAY ADHESIVE	10.08	70.00%	0.00%	0.00%	0.00%	0.00%	15.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	55%
25	PPG, K201Q, PRIMER SURFACER CATALYST	8.15	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%
26	PPG, DCX61G, HI SOLIDS HARDENER	8.95	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
30	PPG, DX103G, MULTI-PREP	6.57	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
241	PPG, DMC901G, STRONG TINTING BLACK	8.45	10.50%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.50%	0.00%	0.00%	0.00%	0.00%
242	PPG, DMC902, CARBON BLACK	8.39	4.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%
256	PPG, DMC921G, HIGH COLOR BLACK	8.35	18.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	15.00%	0.00%	0.00%	0.00%	0.00%
263	PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	8.46	4.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%
273	PPG, DMD614Q, VAT BLUE URETHANE	8.19	5.00%	1.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	1.00%	0.00%	0.00%	0.00%	0.00%
276	PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	8.61	7.50%	1.50%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%
277	PPG, DMD624Q, CARBOZOL VIOLET URETHANE	8.13	7.00%	1.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.00%	1.00%	0.00%	0.00%	0.00%	0.00%
278	PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	8.65	7.00%	1.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%
279	PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	8.90	7.00%	1.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%
280	PPG, DMD646Q, WEAK WHITE	8.78	7.00%	1.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%
281	PPG, DMD648Q, WEAK BLACK DELTRON	8.12	5.00%	1.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	1.00%	0.00%	0.00%	0.00%	0.00%
282	PPG, DMD649G, CLEAR MIXING BASE	8.08	5.00%	1.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	1.00%	0.00%	0.00%	0.00%	0.00%
285	PPG, DMD1605Q, MAGENTA	7.87	16.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	15.00%	0.00%	0.00%	0.00%	0.00%
286	PPG, DMD1606Q, PERYLENE MAROON	8.65	8.50%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.50%	0.00%	0.00%	0.00%	0.00%
287	PPG, DMD1607Q, PHTHALO BLUE	7.96	18.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	15.00%	0.00%	0.00%	0.00%	0.00%
288	PPG, DMD1609Q, QUINDO VIOLET BC	7.97	8.50%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.50%	0.00%	0.00%	0.00%	0.00%
289	PPG, DMD1610Q, TRANSPARENT ORANGE	8.23	8.50%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.50%	0.00%	0.00%	0.00%	0.00%
290	PPG, DMD1675Q, PHTHALO BLUE	7.92	48.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	45.00%	0.00%	0.00%	0.00%	0.00%
291	PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	7.96	25.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%
292	PPG, DMD1677Q, SCARLET RED	7.98	15.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%
294	PPG, DMD1679Q, QUINDO RED	7.82	15.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%
296	PPG, DMD1682Q, COARSE ALUMINUM	7.89	15.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%
297	PPG, DMD1683G, BLACK MIXING BASE	7.60	55.00%	30.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	15.00%	0.00%	0.00%	0.00%	0.00%
298	PPG, DMD1684G, BASECOAT WHITE	10.84	15.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%
299	PPG, DMD1686G, FINE SATIN ALUMINUM	7.86	10.50%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.50%	0.00%	0.00%	0.00%	0.00%
300	PPG, DMD1687G, MEDIUM SATIN ALUMINUM	7.86	15.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%
301	PPG, DMD1690G, COARSE SATIN ALUMINUM	7.86	15.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%
302	PPG, DMD1693Q, PHTHALO GREEN	7.98	25.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%
303	PPG, DMD1694Q, PERRINDO MAROON	7.87	15.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%
304	PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	7.95	15.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%
305	PPG, DMD-1, DELTRON MIXING BASES	9.50	45.00%	5.00%	0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%
306	PPG, DX685G, URETHANE FLATTENING AGENT	8.20	3.00%	0.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
311	PPG, DMD1697Q, DBC MIXING SYSTEM	9.50	45.00%	5.00%	0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%
312	PPG, DMC981Q, CONCEPT FINE ALUMINUM	8.17	28.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	25.00%	0.00%	0.00%	0.00%	0.00%
315	PPG, NCP271G, COR RESIST PRIMR CATALYST	12.71	10.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	7.27	48.50%	1.50%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	7.00%	0.00%	0.00%	0.00%	0.00%
322	PPG, DT870G, REDUCER	6.91	26.23%	1.00%	0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	5.23%	0.00%	0.00%	0.00%	0.00%
326	PPG, NCX2200Q, 2K NON-ISO SEALER HARDENE	8.26	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	0.00%	0.00%	0.00%	0.00%
327	PPG, DCH3070Q, URETHANE HARDENER	8.82	35.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	30.00%	0.00%	0.00%	0.00%	0.00%
328	PPG, DCH3085Q, URETHANE HARDENER	8.83	35.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	30.00%	0.00%	0.00%	0.00%	0.00%
329	PPG, DCH3095Q, URETHANE HARDENER	8.81	35.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	30.00%	0.00%	0.00%	0.00%	0.00%
330	PPG, DP90LFG, EPOXY PRIMER	11.00	13.50%	0.00%	0.00%	0.00%	7.50%	3.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%
332	PPG, PRL88, ORANGE PEARL	20.60	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
333	PPG, PRL89, VIOLET PEARL	20.60	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
334	PPG, PRL90, SUNSET RED	21.59	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
335	PPG, PRL92, PEARL LINE	19.73	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
336	PPG, PRL93, TINCTURE GOLD	19.73	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
337	PPG, PRL94, BLUE GREEN PEARL	21.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
338	PPG, PRL95, BRIGHT WHITE PEARL	21.58	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%
339	PPG, PRL96, RUSSET PEARL	21.58	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%
340	PPG, PRL97, PRL PEARL LINE	23.70	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
341	PPG, PRL98, FINE WHITE PEARL	17.91	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%
342	PPG, PRL99, FINE RUSSET PEARL	23.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
343	PPG, PRLX1, CRYSTAL RED PEARL	24.16	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%

Appendix A: Emissions Calculations
Weight Precent of Each Coating

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Density	Total HAP % Weight	Ethylbenzene % Weight	Styrene % Weight	Ethylene Glycol % Weight	MIK % Weight	Toluene % Weight	Hexane % Weight	n-Hexane % Weight	Xylene % Weight	MMA % Weight	HDI % Weight	CUMENE % Weight	MC % Weight
344	PPG, PRLX2, CRYSTAL SILVER PEARL	23.99	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
345	PPG, PRLX3, CRYSTAL GOLD PEARL	24.16	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%
346	PPG, PRLX4, CRYSTAL BLUE PEARL	18.33	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%
347	PPG, PRLX5, CRYSTAL GREEN PEARL	23.40	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%
348	PPG, PRLX6, CRYSTAL FROST RED PEARL	23.15	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%
349	PPG, PRLX7, CRYSTAL COPPER PEARL	24.16	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%
354	PPG, DX49P, DELTA SUPER ACCELERATOR	8.17	8.50%	1.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.00%	0.00%	0.00%	0.00%	0.00%
357	PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	11.99	13.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%
358	& SOUND DEADENER	6.83	40.00%	0.00%	0.00%	0.00%	0.00%	35.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
361	SOLIDSEAL	9.75	3.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.50%	0.00%	0.00%	0.00%	0.00%
362	EN ADHESIVE	9.29	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%
363	SILICONE SEALANT	11.55	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
364	SILICONE SEALANT	11.54	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
365	ADHESIVE PART A	8.99	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
366	BOND 1000) (CAN)	5.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
367	ADHESIVE	7.04	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%
372	PPG, PRL91, PRL PEARL LINE	21.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
405	B.L.C,MED,PT.A	9.42	40.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	35.00%	0.00%	5.00%	0.00%
406	Sanding	9.67	20.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
407	TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	6.39	5.00%	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
408	& SOUND DEADENER	6.83	35.00%	0.00%	0.00%	0.00%	0.00%	30.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%
409	DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	9.34	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%
410	66003, Acetone	6.55	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
411	DRESSING	9.84	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%
412	PPG, ALK-FP301-01, GRAY ALKYD ENAMEL	8.31	50.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%
413	PPG, ALK-FP601-01, LF ORANGE ALKYD ENAMEL	8.31	50.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%
414	PPG, ALK-FP701-01, ALK-FP701 (0819)	8.31	50.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%
415	ANTIFREEZE/COOLANT	9.75	95.00%	0.00%	0.00%	95.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
416	PPG, DBC500Q, Color Blender	7.75	7.00%	1.00%	0.00%	0.00%	0.00%	1.00%	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%
417	PPG, DBX1689G, DELTRON 2000 BASECOAT CON	7.50	30.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%
419	PPG, DMD1696Q, DELTRON MIXING BASES	9.50	45.00%	5.00%	0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	20.00%	0.00%	0.00%	0.00%	0.00%
420	PPG, DMD691Q, GRAPHITE BLACK	8.55	11.00%	1.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%
421	BASF, DP402LFG, Epoxy Primer Catalyst	7.75	5.00%	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
422	PPG, DX1787G, ETCHING FILLER	8.42	4.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%
423	PPG, DX1788G, DX1787 CATALYST	7.04	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%
424	PPG, DX320G, 901 Pre-Paint Cleaner	5.94	15.00%	0.00%	0.00%	0.00%	0.00%	15.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
425	PPG, DX578OZ, Basecoat Activator	8.70	6.00%	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	1.00%	0.00%	0.00%
426	TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	6.50	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%
427	PLASTI-KOTE, M1, FLAT BLACK PAINT	8.34	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%
428	PLASTI-KOTE, M2, FLAT BLACK PAINT	8.34	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%
429	CONTEC, MEK-5, SATWIPES ® SW420185 Wipers,	6.71	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%
430	ECP, 51423, AA WB RUST PROTECTANT	8.17	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%
891	PPG, ALK-FP101-01, BLUE ALKYD ENAMEL	8.21	80.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	70.00%	0.00%	0.00%	0.00%	0.00%
892	PPG, ALK-FP801-01, LF YELLOW ALKYD ENAMEL	8.33	37.00%	7.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	30.00%	0.00%	0.00%	0.00%	0.00%
896	DYNATEX, 49294, DYNATEX CLEAR RTV SILICONE SEALANT	8.53	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
915	PPG, ALK-FP401-01, LF GREEN ALKYD ENAMEL	8.25	50.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%
5000	3M 560, 41596 Polyurathane Adhesive Sealant	9.76	7.20%	2%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5%	0.00%	0.20%	0.00%	0.00%
5001	BASF, LA1200, 9741 Track Black	9.50	49.40%	2.70%	0.00%	0.00%	0.00%	36.10%	0.00%	0.00%	10.60%	0.00%	0.00%	0.00%	0.00%
5002	Accumetric Seam Sealer 18876	12.34	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%
	Paint														
5003	DX 57 Hardner	8.81	18.48%	0.00%	0.00%	0.00%	18.48%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Sealer														
5004	Pure Asphalt 770	8.42	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
5005	Evercoat Rubberized Aerosol	8.58	30.00%	0.00%	0.00%	0.00%	0.00%	30%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
5006	PPG S-0900	6.36	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Appendix A: Emissions Calculations
HAPs
WAV - 3 (formerly EnterVan Line No. 1)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of Ethylene Glycol (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
WAV - 3 Assembly											
896	DYNATEX, 49294, DYNATEX CLEAR RTV SILICONE SEALANT	0.34	1.33	0	0	0	0	0	0	0	0
5002	Accumetric Seam Sealer 18876	0.33	1.33	0.36	0	0	0	0	1.44	1.80	7.91
7	PPG, DX330G, WAX AND GREASE REMOVER	0.03	1.33	0	0	0	0	3.24E-03	0	3.24E-03	0.01
409	DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	0.33	1.33	0	0	0	0	0	0	0	0
30	PPG, DX103G, MULTI-PREP	0.02	1.33	0	0	0	0	0	0	0	0
361	ROYAL ADHESIVES AND SEALANTS, DC12176, SILAPRENE SOLIDSEAL	0.21	1.33	0	0	0	0	0	0.10	0.10	0.42
366	ROYAL ADHESIVES AND SEALANTS, DC12653, SILAPRENE (HI-BOND 1000) (CAN)	0.22	1.33	0	0	0	0	0	0	0	0
367	ROYAL ADHESIVES AND SEALANTS, DC12742, SILAPRENE ADHESIVE	0.33	1.33	0	0	0	0	0	0	0	0
7	PPG, DX330G, WAX AND GREASE REMOVER	0.03	1.33	0	0	0	0	3.20E-03	0	3.20E-03	0.01
407	TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	0.42	1.33	0	0	0	0	0.18	0	0.18	0.78
	Subtotal worse case coating			**0.36**	**0**	**0**	**0**	**3.24E-03**	**1.44**	**1.81**	**7.92**

WAV - 3 (Primer Booth 20030)											
1	PPG, DP50LF, Gray Epoxy Primer	0.13	1.33	0.01	0	0	0.06	0.06	0.06	0.20	0.88
330	PPG, DP90LF Epoxy Primer	0.28	1.33	0	0	0	0.31	0.12	0.12	0.55	2.40
322	PPG, DT870G, REDUCER	0.07	1.33	6.34E-03	0	0	0	0.13	0.03	0.17	0.73
421	BASF, DP402LFG, Epoxy Primer Catalyst	0.08	1.33	0	0	0	0	0.04	0	0.04	0.19
3	PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	0.27	1.33	0.03	0	0	0.09	0.38	0.19	0.68	2.98
422	PPG, DX1787G, ETCHING FILLER	3.51E-03	1.33	3.93E-04	0	0	0	0	1.18E-03	1.57E-03	6.89E-03
25	PPG, K201Q, PRIMER SURFACER CATALYST	4.15E-03	1.33	0	0	0	0	0	2.25E-03	2.25E-03	9.85E-03
9	PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	0.03	1.33	0.02	0	0	0	0	0.08	0.09	0.40
10	PPG, K38G, HIGH BUILD PRIMER SURFACER	0.02	1.33	8.08E-03	0	0	0	8.08E-03	0.04	0.06	0.25
357	PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	2.51E-04	1.33	4.00E-04	0	0	0	0	1.20E-04	5.20E-04	2.28E-03
406	U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	0.09	1.33	0	0.23	0	0	0	0	0.23	1.02
	Subtotal worse case coating			**6.34E-03**	**0**	**0**	**0.31**	**0.29**	**0.16**	**0.76**	**3.32**

WAV - 3 (Paint Booth # 20008 Door & Axle)											
7	PPG, DX330G, WAX AND GREASE REMOVER	0.01	2.08	0	0	0	0	2.50E-03	0	2.50E-03	0.01
5002	Accumetric Seam Sealer 18876	0.01	2.08	0.02	0	0	0	0	0.07	0.09	0.38
Prime											
330	PPG, DP90LF Epoxy Primer	0.01	2.08	0	0	0	0.02	6.86E-03	6.86E-03	0.03	0.14
421	BASF, DP402LFG, Epoxy Primer Catalyst	2.50E-03	2.08	0	0	0	0	2.02E-03	0	2.02E-03	8.83E-03
Paint											
5001	BASF, LA1200, 9741 Track Black	0.01	2.08	0.02	0	0	0	0	0.07	0.09	0.38
322	PPG, DT870G, REDUCER	2.50E-03	2.08	3.59E-04	0	0	0	7.19E-03	1.88E-03	9.42E-03	0.04
26	PPG, DCX61G, HI SOLIDS HARDENER	1.25E-03	2.08	0	0	0	0	0	0	0	0
	Subtotal worse case coating			**0.03**	**0**	**0**	**0.02**	**0.02**	**0.15**	**0.22**	**0.95**

Appendix A: Emissions Calculations
HAPs
WAV - 3 (formerly EnterVan Line No. 1)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of Ethylene Glycol (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
WAV - 3 (Paint Booth # 20031)											
322	PPG, DT870G, REDUCER	0.02	1.33	1.66E-03	0	0	0	0.03	8.69E-03	0.04	0.19
5001	BASF, LA1200, 9741 Track Black	0.04	1.33	0.01	0	0	0	0.17	0.05	0.23	1.01
421	BASF, DP402LFG, Epoxy Primer Catalyst	0.01	1.33	0	0	0	0	0	0	0	0
7	PPG, DX330G, WAX AND GREASE REMOVER	0.01	1.33	0	0	0	0	1.44E-03	0	1.44E-03	6.31E-03
365	ROYAL ADHESIVES AND SEALANTS, DC12439, HYRA FASTEN ADHESIVE PART A	0.02	1.33	0	0	0	0	0	0	0	0
362	ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	0.01	1.33	0	0	0	0	0	0	0	0
410	66003, Acetone	0.22	1.33	0	0	0	0	0	0	0	0
427	PLASTI-KOTE, M1, FLAT BLACK PAINT	0.03	1.33	0	0	0	0	0	0.04	0.04	0.15
428	PLASTI-KOTE, M2, FLAT BLACK PAINT	0.01	1.33	0	0	0	0	0	0.01	0.01	0.05
416	PPG, DBC500Q, Color Blender	2.38E-03	1.33	2.45E-04	0	0	0	2.45E-04	1.23E-03	1.72E-03	7.52E-03
8	PPG, DC3000G, HIGH VELOCITY CLEARCOAT	0.16	1.33	0.05	0.02	0	0	0.05	0.41	0.53	2.31
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	1.76E-03	1.33	9.18E-04	1.84E-04	0	1.38E-03	0	7.34E-03	9.82E-03	0.04
6	PPG, DMC900G, STRONG WHITE	0.02	1.33	3.06E-03	0	0	0	0	9.17E-03	0.01	0.05
241	PPG, DMC901G, STRONG TINTING BLACK	6.78E-03	1.33	2.29E-03	0	0	0	0	5.71E-03	8.00E-03	0.04
242	PPG, DMC902, CARBON BLACK	5.02E-03	1.33	5.60E-04	0	0	0	0	1.68E-03	2.24E-03	9.81E-03
17	PPG, DMC903Q, WEAK TINTING BLACK	7.85E-03	1.33	8.74E-04	0	0	0	0	2.62E-03	3.50E-03	0.02
256	PPG, DMC921G, HIGH COLOR BLACK	2.51E-04	1.33	8.36E-05	0	0	0	0	4.18E-04	5.02E-04	2.20E-03
263	PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	1.13E-03	1.33	1.27E-04	0	0	0	0	3.81E-04	5.09E-04	2.23E-03
312	PPG, DMC981Q, CONCEPT FINE ALUMINUM	3.13E-04	1.33	1.02E-04	0	0	0	0	8.50E-04	9.52E-04	4.17E-03
285	PPG, DMD1605Q, MAGENTA	1.57E-03	1.33	1.64E-04	0	0	0	0	2.47E-03	2.63E-03	0.01
286	PPG, DMD1606Q, PERYLENE MAROON	8.10E-03	1.33	9.32E-04	0	0	0	0	6.99E-03	7.92E-03	0.03
287	PPG, DMD1607Q, PHTHALO BLUE	2.95E-03	1.33	9.37E-04	0	0	0	0	4.68E-03	5.62E-03	0.02
288	PPG, DMD1609Q, QUINDO VIOLET BC	6.90E-04	1.33	7.31E-05	0	0	0	0	5.49E-04	6.22E-04	2.72E-03
289	PPG, DMD1610Q, TRANSPARENT ORANGE	4.40E-04	1.33	4.82E-05	0	0	0	0	3.61E-04	4.09E-04	1.79E-03
290	PPG, DMD1675Q, PHTHALO BLUE	3.57E-03	1.33	1.13E-03	0	0	0	0	0.02	0.02	0.08
291	PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	1.88E-04	1.33	9.95E-05	0	0	0	0	3.98E-04	4.98E-04	2.18E-03
292	PPG, DMD1677Q, SCARLET RED	1.44E-03	1.33	7.64E-04	0	0	0	0	1.53E-03	2.29E-03	0.01
294	PPG, DMD1679Q, QUINDO RED	6.27E-04	1.33	3.26E-04	0	0	0	0	6.52E-04	9.78E-04	4.28E-03
15	PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	0.02	1.33	1.71E-03	0	0	0	0	0.01	0.01	0.06
16	PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	0.02	1.33	1.86E-03	0	0	0	0	0.01	0.01	0.07
296	PPG, DMD1682Q, COARSE ALUMINUM	0.01	1.33	6.72E-03	0	0	0	0	0.01	0.02	0.09
297	PPG, DMD1683G, BLACK MIXING BASE	0.02	1.33	0.05	0	0	0.02	0	0.02	0.08	0.37
298	PPG, DMD1684G, BASECOAT WHITE	0.02	1.33	0.02	0	0	0	0	0.04	0.05	0.24
299	PPG, DMD1686G, FINE SATIN ALUMINUM	4.00E-04	1.33	1.25E-04	0	0	0	0	3.14E-04	4.39E-04	1.92E-03
300	PPG, DMD1687G, MEDIUM SATIN ALUMINUM	4.77E-03	1.33	2.49E-03	0	0	0	0	4.99E-03	7.48E-03	0.03
301	PPG, DMD1690G, COARSE SATIN ALUMINUM	3.51E-03	1.33	1.83E-03	0	0	0	0	3.67E-03	5.50E-03	0.02
302	PPG, DMD1693Q, PHTHALO GREEN	5.02E-04	1.33	2.66E-04	0	0	0	0	1.07E-03	1.33E-03	5.83E-03
303	PPG, DMD1694Q, PERRINDO MAROON	5.02E-03	1.33	2.63E-03	0	0	0	0	5.25E-03	7.88E-03	0.03
419	PPG, DMD1696Q, DELTRON MIXING BASES	2.51E-04	1.33	1.59E-04	0	0	0	6.34E-04	6.34E-04	1.43E-03	6.25E-03
311	PPG, DMD1697Q, DBC MIXING SYSTEM	2.26E-03	1.33	1.43E-03	0	0	0	5.71E-03	5.71E-03	0.01	0.06
304	PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	2.76E-03	1.33	1.46E-03	0	0	0	0	2.92E-03	4.38E-03	0.02
305	PPG, DMD1699G, DELTRON MIXING BASES	2.51E-04	1.33	1.59E-04	0	0	0	6.34E-04	6.34E-04	1.43E-03	6.25E-03
273	PPG, DMD614Q, VAT BLUE URETHANE	3.26E-03	1.33	3.55E-04	0	0	0	1.07E-03	3.55E-04	1.78E-03	7.78E-03
276	PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	2.51E-04	1.33	4.31E-05	0	0	0	8.62E-05	8.62E-05	2.16E-04	9.44E-04
277	PPG, DMD624Q, CARBOZOL VIOLET URETHANE	1.13E-03	1.33	1.22E-04	0	0	0	6.11E-04	1.22E-04	8.55E-04	3.75E-03
278	PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	1.07E-03	1.33	1.23E-04	0	0	0	3.69E-04	3.69E-04	8.62E-04	3.77E-03
279	PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	1.88E-04	1.33	2.23E-05	0	0	0	6.68E-05	6.68E-05	1.56E-04	6.82E-04
280	PPG, DMD646Q, WEAK WHITE	6.90E-04	1.33	8.06E-05	0	0	0	2.42E-04	2.42E-04	5.64E-04	2.47E-03
281	PPG, DMD648Q, WEAK BLACK DELTRON	1.26E-03	1.33	1.36E-04	0	0	0	4.07E-04	1.36E-04	6.78E-04	2.97E-03
420	PPG, DMD691Q, GRAPHITE BLACK	2.51E-04	1.33	2.85E-05	0	0	0	1.43E-04	1.43E-04	3.14E-04	1.38E-03
330	PPG, DP90LFG, EPOXY PRIMER	0.01	1.33	0	0	0	0.01	5.73E-03	5.73E-03	0.03	0.11
18	PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	0.02	1.33	1.52E-03	0	0	0	0.03	0.01	0.04	0.19
425	PPG, DX578OZ, Basecoat Activator	4.19E-03	1.33	0	0	0	0	2.42E-03	0	2.42E-03	0.01
306	PPG, DX685G, URETHANE FLATTENING AGENT	1.48E-03	1.33	0	0	0	0	4.83E-04	0	4.83E-04	2.11E-03
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	4.77E-03	1.33	6.92E-04	0	0	0.02	0	3.23E-03	0.02	0.10
429	PPG, MEK-5, SATWIPES ® SW420185 Wipers,	0.02	1.33	0	0	0	0	0	0	0	0
332	PPG, PRL88, ORANGE PEARL	0.01	1.33	0	0	0	0	0	0	0	0
333	PPG, PRL89, VIOLET PEARL	3.07E-03	1.33	0	0	0	0	0	0	0	0
334	PPG, PRL90, SUNSET RED	1.68E-03	1.33	0	0	0	0	0	0	0	0
372	PPG, PRL91, PRL PEARL LINE	4.49E-03	1.33	0	0	0	0	0	0	0	0
335	PPG, PRL92, PEARL LINE	4.49E-03	1.33	0	0	0	0	0	0	0	0
336	PPG, PRL93, TINCTURE GOLD	5.06E-03	1.33	0	0	0	0	0	0	0	0
337	PPG, PRL94, BLUE GREEN PEARL	2.81E-04	1.33	0	0	0	0	0	0	0	0
338	PPG, PRL95, BRIGHT WHITE PEARL	2.81E-04	1.33	0	0	0	0	0	0	0	0
339	PPG, PRL96, RUSSET PEARL	3.93E-03	1.33	0	0	0	0	0	0	0	0
341	PPG, PRL98, FINE WHITE PEARL	3.93E-03	1.33	0	0	0	0	0	0	0	0
343	PPG, PRLX1, CRYSTAL RED PEARL	0.02	1.33	0	0	0	0	0	0	0	0
344	PPG, PRLX2, CRYSTAL SILVER PEARL	5.34E-03	1.33	0	0	0	0	0	0	0	0
346	PPG, PRLX4, CRYSTAL BLUE PEARL	1.68E-03	1.33	0	0	0	0	0	0	0	0
347	PPG, PRLX5, CRYSTAL GREEN PEARL	1.68E-03	1.33	0	0	0	0	0	0	0	0
348	PPG, PRLX6, CRYSTAL FROST RED PEARL	1.68E-03	1.33	0	0	0	0	0	0	0	0
349	PPG, PRLX7, CRYSTAL COPPER PEARL	1.68E-03	1.33	0	0	0	0	0	0	0	0
415	SERVICE PRO, COMPLETE A/F, SERVICEPRO COMPLETE™ ANTIFREEZE/COOLANT	0.05	1.33	0	0	0.66	0	0	0	0.66	2.91
426	TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	0.03	1.33	0	0	0	0	0	0	0	0
		Subtotal worse case coating		**0.11**	**0.02**	**0.66**	**0**	**0.25**	**0.51**	**1.50**	**6.59**

Appendix A: Emissions Calculations
HAPs
WAV - 3 (formerly EnterVan Line No. 1)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of Ethylene Glycol (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
WAV - 1 undercoating (39038)											
5004	Pure Asphalt 770	0.90	1.33	0.99	0	0	0	0	3.95	4.94	21.63
5005	Evercoat Rubberized Aerosol	0.04	1.33	0	0	0	0	0.15	0	0.15	0.66
5006	PPG S-0900	0.28	1.33	0	0	0	0	0	0	0	0
	Subtotal worse case coating			**0.99**	**0**	**0**	**0**	**0.15**	**3.95**	**5.09**	**22.29**
	Total Worst Case (lb/hr)			**1.50**	**0.02**	**0.66**	**0.32**	**0.72**	**6.20**	**9.38**	**41.07**
	Total Worst Case (ton/yr)			**6.57**	**0.07**	**2.91**	**1.41**	**3.14**	**27.16**	**27.16**	**41.27**

MIK = Methyl isobutyl ketone
MMA = Methyl methacrylate
HDI = Hexamethylene 1,6-Diisocyanate
DBP = Dibutylphthalate
MC = Methylene Chloride

METHODOLOGY
PTE of HAP (lbs/hr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of HAP (tons/yr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)

Appendix A: Emissions Calculations
HAPs
EnterVan Line No. 1 (now WAV-3)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of Ethylene Glycol (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
Entervan Line 1 Assembly											
896	DYNATEX, 49294, DYNATEX CLEAR RTV SILICONE SEALANT	0.34	0.75	0	0	0	0	0	0	0	0
5002	Accumetric Seam Sealer 18876	0.33	0.75	0.20	0	0	0	0	0.81	1.02	4.46
7	PPG, DX330G, WAX AND GREASE REMOVER	0.03	0.75	0	0	0	0	1.83E-03	0	1.83E-03	8.01E-03
409	DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	0.33	0.75	0	0	0	0	0	0	0	0
30	PPG, DX103G, MULTI-PREP	0.02	0.75	0	0	0	0	0	0	0	0
361	ROYAL ADHESIVES AND SEALANTS, DC12176, SILAPRENE SOLIDSEAL	0.21	0.75	0	0	0	0	0	0.05	0.05	0.24
366	ROYAL ADHESIVES AND SEALANTS, DC12653, SILAPRENE (HI-BOND 1000) (CAN)	0.22	0.75	0	0	0	0	0	0	0	0
367	ROYAL ADHESIVES AND SEALANTS, DC12742, SILAPRENE ADHESIVE	0.33	0.75	0	0	0	0	0	0	0	0
7	PPG, DX330G, WAX AND GREASE REMOVER	0.03	0.75	0	0	0	0	1.80E-03	0	1.80E-03	7.89E-03
407	TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	0.42	0.75	0	0	0	0	0.10	0	0.10	0.44
	Subtotal worse case coating			**0.20**	**0**	**0**	**0**	**1.83E-03**	**0.81**	**1.02**	**4.47**
	Entervan Line 1 (Primer Booth 20030)										
1	PPG, DP50LF, Gray Epoxy Primer	0.13	0.75	7.12E-03	0	0	0.04	0.04	0.04	0.11	0.50
330	PPG, DP90LF Epoxy Primer	0.28	0.75	0	0	0	0.17	0.07	0.07	0.31	1.36
322	PPG, DT870G, REDUCER	0.07	0.75	3.58E-03	0	0	0	0.07	0.02	0.09	0.41
421	BASF, DP402LFG, Epoxy Primer Catalyst	0.08	0.75	0	0	0	0	0.02	0	0.02	0.11
3	PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	0.27	0.75	0.01	0	0	0.05	0.21	0.11	0.38	1.68
422	PPG, DX1787G, ETCHING FILLER	3.51E-03	0.75	2.22E-04	0	0	0	0	6.65E-04	8.87E-04	3.88E-03
25	PPG, K201Q, PRIMER SURFACER CATALYST	4.15E-03	0.75	0	0	0	0	0	1.27E-03	1.27E-03	5.56E-03
9	PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	0.03	0.75	8.69E-03	0	0	0	0	0.04	0.05	0.23
10	PPG, K38G, HIGH BUILD PRIMER SURFACER	0.02	0.75	4.56E-03	0	0	0	4.56E-03	0.02	0.03	0.14
357	PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	2.51E-04	0.75	2.26E-04	0	0	0	0	6.77E-05	2.93E-04	1.29E-03
406	U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	0.09	0.75	0	0.13	0	0	0	0	0.13	0.57
	Subtotal worse case coating			**3.58E-03**	**0**	**0**	**0.17**	**0.16**	**0.09**	**0.43**	**1.87**
Entervan Line 1 (Paint Booth # 20008 Door & Axle)											
7	PPG, DX330G, WAX AND GREASE REMOVER	0.01	2.08	0	0	0	0	2.50E-03	0	2.50E-03	0.01
5002	Accumetric Seam Sealer 18876	0.01	2.08	0.02	0	0	0	0	0.07	0.09	0.38
	Prime										
330	PPG, DP90LF Epoxy Primer	0.01	2.08	0	0	0	0.02	6.86E-03	6.86E-03	0.03	0.14
421	BASF, DP402LFG, Epoxy Primer Catalyst	2.50E-03	2.08	0	0	0	0	2.02E-03	0	2.02E-03	8.83E-03
	Paint										
5001	BASF, LA1200, 9741 Track Black	0.01	2.08	0.02	0	0	0	0	0.07	0.09	0.38
322	PPG, DT870G, REDUCER	2.50E-03	2.08	3.59E-04	0	0	0	7.19E-03	1.88E-03	9.42E-03	0.04
26	PPG, DCX61G, HI SOLIDS HARDENER	1.25E-03	2.08	0	0	0	0	0	0	0	0
	Subtotal worse case coating			**0.03**	**0**	**0**	**0.02**	**0.02**	**0.15**	**0.22**	**0.95**

Appendix A: Emissions Calculations
HAPs
EnterVan Line No. 1 (now WAV-3)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of Ethylene Glycol (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
Entervan Line 1 (Paint Booth # 20031)											
322	PPG, DT870G, REDUCER	0.02	0.75	9.37E-04	0	0	0	0.02	4.90E-03	0.02	0.11
5001	BASF, LA1200, 9741 Track Black	0.04	0.75	7.12E-03	0	0	0	0.10	0.03	0.13	0.57
421	BASF, DP402LFG, Epoxy Primer Catalyst	0.01	0.75	0	0	0	0	0	0	0	0
7	PPG, DX330G, WAX AND GREASE REMOVER	0.01	0.75	0	0	0	0	8.13E-04	0	8.13E-04	3.56E-03
365	ROYAL ADHESIVES AND SEALANTS, DC12439, HYRA FASTEN ADHESIVE PART A	0.02	0.75	0	0	0	0	0	0	0	0
362	ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	0.01	0.75	0	0	0	0	0	0	0	0
410	66003, Acetone	0.22	0.75	0	0	0	0	0	0	0	0
427	PLASTI-KOTE, M1, FLAT BLACK PAINT	0.03	0.75	0	0	0	0	0	0.02	0.02	0.09
428	PLASTI-KOTE, M2, FLAT BLACK PAINT	0.01	0.75	0	0	0	0	0	6.58E-03	6.58E-03	0.03
416	PPG, DBC500Q, Color Blender	2.38E-03	0.75	1.38E-04	0	0	0	1.38E-04	6.92E-04	9.68E-04	4.24E-03
8	PPG, DC3000G, HIGH VELOCITY CLEARCOAT	0.16	0.75	0.03	9.30E-03	0	0	0.03	0.23	0.30	1.30
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	1.76E-03	0.75	5.17E-04	1.03E-04	0	7.76E-04	0	4.14E-03	5.54E-03	0.02
6	PPG, DMC900G, STRONG WHITE	0.02	0.75	1.72E-03	0	0	0	0	5.17E-03	6.89E-03	0.03
241	PPG, DMC901G, STRONG TINTING BLACK	6.78E-03	0.75	1.29E-03	0	0	0	0	3.22E-03	4.51E-03	0.02
242	PPG, DMC902, CARBON BLACK	5.02E-03	0.75	3.16E-04	0	0	0	0	9.48E-04	1.26E-03	5.53E-03
17	PPG, DMC903Q, WEAK TINTING BLACK	7.85E-03	0.75	4.93E-04	0	0	0	0	1.48E-03	1.97E-03	8.63E-03
256	PPG, DMC921G, HIGH COLOR BLACK	2.51E-04	0.75	4.72E-05	0	0	0	0	2.36E-04	2.83E-04	1.24E-03
263	PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	1.13E-03	0.75	7.17E-05	0	0	0	0	2.15E-04	2.87E-04	1.26E-03
312	PPG, DMC981Q, CONCEPT FINE ALUMINUM	3.13E-04	0.75	5.75E-05	0	0	0	0	4.79E-04	5.37E-04	2.35E-03
285	PPG, DMD1605Q, MAGENTA	1.57E-03	0.75	9.27E-05	0	0	0	0	1.39E-03	1.48E-03	6.49E-03
286	PPG, DMD1606Q, PERYLENE MAROON	8.10E-03	0.75	5.25E-04	0	0	0	0	3.94E-03	4.47E-03	0.02
287	PPG, DMD1607Q, PHTHALO BLUE	2.95E-03	0.75	5.28E-04	0	0	0	0	2.64E-03	3.17E-03	0.01
288	PPG, DMD1609Q, QUINDO VIOLET BC	6.90E-04	0.75	4.12E-05	0	0	0	0	3.09E-04	3.51E-04	1.54E-03
289	PPG, DMD1610Q, TRANSPARENT ORANGE	4.40E-04	0.75	2.72E-05	0	0	0	0	2.04E-04	2.31E-04	1.01E-03
290	PPG, DMD1675Q, PHTHALO BLUE	3.57E-03	0.75	6.36E-04	0	0	0	0	9.54E-03	0.01	0.04
291	PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	1.88E-04	0.75	5.61E-05	0	0	0	0	2.24E-04	2.81E-04	1.23E-03
292	PPG, DMD1677Q, SCARLET RED	1.44E-03	0.75	4.31E-04	0	0	0	0	8.62E-04	1.29E-03	5.66E-03
294	PPG, DMD1679Q, QUINDO RED	6.27E-04	0.75	1.84E-04	0	0	0	0	3.68E-04	5.52E-04	2.42E-03
15	PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	0.02	0.75	9.63E-04	0	0	0	0	6.74E-03	7.71E-03	0.03
16	PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	0.02	0.75	1.05E-03	0	0	0	0	7.33E-03	8.38E-03	0.04
296	PPG, DMD1682Q, COARSE ALUMINUM	0.01	0.75	3.79E-03	0	0	0	0	7.58E-03	0.01	0.05
297	PPG, DMD1683G, BLACK MIXING BASE	0.02	0.75	0.03	0	0	8.59E-03	0	0.01	0.05	0.21
298	PPG, DMD1684G, BASECOAT WHITE	0.02	0.75	0.01	0	0	0	0	0.02	0.03	0.13
299	PPG, DMD1686G, FINE SATIN ALUMINUM	4.00E-04	0.75	7.07E-05	0	0	0	0	1.77E-04	2.48E-04	1.08E-03
300	PPG, DMD1687G, MEDIUM SATIN ALUMINUM	4.77E-03	0.75	1.41E-03	0	0	0	0	2.81E-03	4.22E-03	0.02
301	PPG, DMD1690G, COARSE SATIN ALUMINUM	3.51E-03	0.75	1.03E-03	0	0	0	0	2.07E-03	3.10E-03	0.01
302	PPG, DMD1693Q, PHTHALO GREEN	5.02E-04	0.75	1.50E-04	0	0	0	0	6.01E-04	7.51E-04	3.29E-03
303	PPG, DMD1694Q, PERRINDO MAROON	5.02E-03	0.75	1.48E-03	0	0	0	0	2.96E-03	4.44E-03	0.02
419	PPG, DMD1696Q, DELTRON MIXING BASES	2.51E-04	0.75	8.94E-05	0	0	0	3.58E-04	3.58E-04	8.05E-04	3.52E-03
311	PPG, DMD1697Q, DBC MIXING SYSTEM	2.26E-03	0.75	8.05E-04	0	0	0	3.22E-03	3.22E-03	7.25E-03	0.03
304	PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	2.76E-03	0.75	8.23E-04	0	0	0	0	1.65E-03	2.47E-03	0.01
305	PPG, DMD1699G, DELTRON MIXING BASES	2.51E-04	0.75	8.94E-05	0	0	0	3.58E-04	3.58E-04	8.05E-04	3.52E-03
273	PPG, DMD614Q, VAT BLUE URETHANE	3.26E-03	0.75	2.00E-04	0	0	0	6.01E-04	2.00E-04	1.00E-03	4.39E-03
276	PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	2.51E-04	0.75	2.43E-05	0	0	0	4.86E-05	4.86E-05	1.22E-04	5.32E-04
277	PPG, DMD624Q, CARBOZOL VIOLET URETHANE	1.13E-03	0.75	6.89E-05	0	0	0	3.45E-04	6.89E-05	4.82E-04	2.11E-03
278	PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	1.07E-03	0.75	6.94E-05	0	0	0	2.08E-04	2.08E-04	4.86E-04	2.13E-03
279	PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	1.88E-04	0.75	1.25E-05	0	0	0	3.76E-05	3.76E-05	8.78E-05	3.85E-04
280	PPG, DMD646Q, WEAK WHITE	6.90E-04	0.75	4.54E-05	0	0	0	1.36E-04	1.36E-04	3.18E-04	1.39E-03
281	PPG, DMD648Q, WEAK BLACK DELTRON	1.26E-03	0.75	7.64E-05	0	0	0	2.29E-04	7.64E-05	3.82E-04	1.67E-03
420	PPG, DMD691Q, GRAPHITE BLACK	2.51E-04	0.75	1.61E-05	0	0	0	8.05E-05	8.05E-05	1.77E-04	7.75E-04
330	PPG, DP90LFG, EPOXY PRIMER	0.01	0.75	0	0	0	8.08E-03	3.23E-03	3.23E-03	0.01	0.06
18	PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	0.02	0.75	8.57E-04	0	0	0	0.02	6.43E-03	0.02	0.11
425	PPG, DX578OZ, Basecoat Activator	4.19E-03	0.75	0	0	0	0	1.37E-03	0	1.37E-03	5.99E-03
306	PPG, DX685G, URETHANE FLATTENING AGENT	1.48E-03	0.75	0	0	0	0	2.72E-04	0	2.72E-04	1.19E-03
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	4.77E-03	0.75	3.90E-04	0	0	0.01	0	1.82E-03	0.01	0.06
429	PPG, MEK-5, SATWIPES ® SW420185 Wipers,	0.02	0.75	0	0	0	0	0	0	0	0
332	PPG, PRL88, ORANGE PEARL	0.01	0.75	0	0	0	0	0	0	0	0
333	PPG, PRL89, VIOLET PEARL	3.07E-03	0.75	0	0	0	0	0	0	0	0
334	PPG, PRL90, SUNSET RED	1.68E-03	0.75	0	0	0	0	0	0	0	0
372	PPG, PRL91, PRL PEARL LINE	4.49E-03	0.75	0	0	0	0	0	0	0	0
335	PPG, PRL92, PEARL LINE	4.49E-03	0.75	0	0	0	0	0	0	0	0
336	PPG, PRL93, TINCTURE GOLD	5.06E-03	0.75	0	0	0	0	0	0	0	0
337	PPG, PRL94, BLUE GREEN PEARL	2.81E-04	0.75	0	0	0	0	0	0	0	0
338	PPG, PRL95, BRIGHT WHITE PEARL	2.81E-04	0.75	0	0	0	0	0	0	0	0
339	PPG, PRL96, RUSSET PEARL	3.93E-03	0.75	0	0	0	0	0	0	0	0
341	PPG, PRL98, FINE WHITE PEARL	3.93E-03	0.75	0	0	0	0	0	0	0	0
343	PPG, PRLX1, CRYSTAL RED PEARL	0.02	0.75	0	0	0	0	0	0	0	0
344	PPG, PRLX2, CRYSTAL SILVER PEARL	5.34E-03	0.75	0	0	0	0	0	0	0	0
346	PPG, PRLX4, CRYSTAL BLUE PEARL	1.68E-03	0.75	0	0	0	0	0	0	0	0
347	PPG, PRLX5, CRYSTAL GREEN PEARL	1.68E-03	0.75	0	0	0	0	0	0	0	0
348	PPG, PRLX6, CRYSTAL FROST RED PEARL	1.68E-03	0.75	0	0	0	0	0	0	0	0
349	PPG, PRLX7, CRYSTAL COPPER PEARL	1.68E-03	0.75	0	0	0	0	0	0	0	0

Appendix A: Emissions Calculations
HAPs
EnterVan Line No. 1 (now WAV-3)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of Ethylene Glycol (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
415	SERVICE PRO, COMPLETE A/F, SERVICEPRO COMPLETE™ ANTIFREEZE/COOLANT	0.05	0.75	0	0	0.37	0	0	0	0.37	1.64
426	TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	0.03	0.75	0	0	0	0	0	0	0	0
	Subtotal worse case coating			**0.06**	**9.30E-03**	**0.37**	**0**	**0.14**	**0.29**	**0.85**	**3.71**

Appendix A: Emissions Calculations
HAPs
EnterVan Line No. 1 (now WAV-3)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of Ethylene Glycol (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
Enter/Un. No. 1 (39038)											
5004	Pure Asphalt 770	0.90	0.75	0.56	0	0	0	0	2.23	2.78	12.20
5005	Evercoat Rubberized Aerosol	0.04	0.75	0	0	0	0	0.09	0	0.09	0.37
5006	PPG S-0900	0.28	0.75	0	0	0	0	0	0	0	0
	Subtotal worse case coating			**0.56**	**0**	**0**	**0**	**0.09**	**2.23**	**2.87**	**12.57**
	Total Worst Case (lb/hr)			**0.86**	**9.30E-03**	**0.37**	**0.19**	**0.41**	**3.56**	**5.38**	**23.57**
	Total Worst Case (ton/yr)			**3.77**	**0.04**	**1.64**	**0.83**	**1.81**	**15.60**	**15.60**	**23.69**

MIK = Methyl isobutyl ketone
MMA = Methyl methacrylate
HDI = Hexamethylene 1,6-Diisocyanate
DBP = Dibutylphthalate
MC = Methylene Chloride

METHODOLOGY
PTE of HAP (lbs/hr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of HAP (tons/yr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)

Appendix A: Emissions Calculations
HAPs
WAV - 2 (formerly EnterVan Line No. 2)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
WAV - 2 Assembly										
896	DYNATEX, 49294, DYNATEX CLEAR RTV SILICONE SEALANT	0.34	1.00	0	0	0	0	0	0	0
409	DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	0.33	1.00	0	0	0	0	0	0	0
5002	Accumetric Seam Sealer 18876	0.33	1.00	0.27	0	0	0	1.09	1.36	5.94
30	PPG, DX103G, MULTI-PREP	0.02	1.00	0	0	0	0	0	0	0
361	ROYAL ADHESIVES AND SEALANTS, DC12176, SILAPRENE SOLIDSEAL	0.21	1.00	0	0	0	0	0.07	0.07	0.32
366	ROYAL ADHESIVES AND SEALANTS, DC12653, SILAPRENE (HI-BOND 1000) (CAN)	0.22	1.00	0	0	0	0	0	0	0
367	ROYAL ADHESIVES AND SEALANTS, DC12742, SILAPRENE ADHESIVE	0.33	1.00	0	0	0	0	0	0	0
7	PPG, DX330G, WAX AND GREASE REMOVER	0.03	1.00	0	0	0	2.40E-03	0	2.40E-03	0.01
407	TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	0.42	1.00	0	0	0	0.13	0	0.13	0.58
	Subtotal worse case coating			**0.27**	**0**	**0**	**0.13**	**1.09**	**1.56**	**6.85**
WAV - 2 (Prime Booth 20032)										
330	PPG, DP90LF Epoxy Primer	0.18	1.00	0	0	0.15	0.06	0.06	0.27	1.18
322	PPG, DT870G, REDUCER	0.05	1.00	3.11E-03	0	0	0.06	0.02	0.08	0.36
421	BASF, DP402LFG, Epoxy Primer Catalyst	0.18	1.00	0	0	0	0.07	0	0.07	0.31
1	PPG, DP50LF, Gray Epoxy Primer	0.13	1.00	9.49E-03	0	0.05	0.05	0.05	0.15	0.67
3	PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	0.27	1.00	0.02	0	0.07	0.28	0.14	0.51	2.24
422	PPG, DX1787G, ETCHING FILLER	3.52E-03	1.00	2.96E-04	0	0	0	8.88E-04	1.18E-03	5.19E-03
25	PPG, K201Q, PRIMER SURFACER CATALYST	5.20E-03	1.00	0	0	0	0	2.12E-03	2.12E-03	9.28E-03
9	PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	0.03	1.00	0.01	0	0	0	0.06	0.07	0.30
10	PPG, K38G, HIGH BUILD PRIMER SURFACER	0.02	1.00	6.08E-03	0	0	6.08E-03	0.03	0.04	0.19
357	PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	2.51E-04	1.00	3.01E-04	0	0	0	9.04E-05	3.92E-04	1.71E-03
406	U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	0.09	1.00	0	0.17	0	0	0	0.17	0.77
	Subtotal worse case coating			**3.11E-03**	**0**	**0.15**	**0.19**	**0.08**	**0.42**	**1.85**

Appendix A: Emissions Calculations
HAPs
WAV - 2 (formerly EnterVan Line No. 2)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
WAV - 2 Paint (Paint Booth 20033)										
417	PPG, DBX1689G, DELTRON 2000 BASECOAT CON	0.01	1.00	0.02	0	0	0	9.00E-03	0.03	0.12
322	PPG, DT870G, REDUCER	0.01	1.00	8.29E-04	0	0	0.02	4.34E-03	0.02	0.10
5003	DX 57 Hardner	4.00E-03	1.00	3.30E-03	0	0	0	0.01	0.02	0.07
422	PPG, DX1787G, ETCHING FILLER	6.00E-03	1.00	5.05E-04	0	0	0	1.52E-03	2.02E-03	8.85E-03
423	PPG, DX1788G, DX1787 CATALYST	6.00E-03	1.00	0	0	0	0	0	0	0
	Clear Coat									
327	PPG, DCH3070Q, URETHANE HARDENER	8.00E-03	1.00	3.53E-03	0	0	0	0.02	0.02	0.11
8	PPG, DC3000G, HIGH VELOCITY CLEARCOAT	0.02	1.00	4.60E-03	1.53E-03	0	4.60E-03	0.04	0.05	0.22
	Sealer									
9	PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	8.00E-03	1.00	3.02E-03	0	0	0	0.02	0.02	0.08
242	PPG, DMC902, CARBON BLACK	8.00E-03	1.00	6.71E-04	0	0	0	2.01E-03	2.68E-03	0.01
322	PPG, DT870G, REDUCER	8.00E-03	1.00	5.53E-04	0	0	0.01	2.89E-03	0.01	0.06
26	PPG, DCX61G, HI SOLIDS HARDENER	8.00E-03	1.00	0	0	0	0	0	0	0
	Track Black									
1001	BASF, LA1200, 9741 Track Black	0.02	1.00	0.02	0	0	0	0.08	0.09	0.42
322	PPG, DT870G, REDUCER	4.00E-03	1.00	2.76E-04	0	0	5.53E-03	1.45E-03	7.25E-03	0.03
26	PPG, DCX61G, HI SOLIDS HARDENER	6.00E-03	1.00	0	0	0	0	0	0	0
322	PPG, DT870G, REDUCER	0.02	1.00	1.25E-03	0	0	0.02	6.54E-03	0.03	0.14
365	ROYAL ADHESIVES AND SEALANTS, DC12439, HYRA FASTEN ADHESIVE PART A	0.06	1.00	0	0	0	0	0	0	0
362	ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	0.01	1.00	0	0	0	0	0	0	0
410	, 66003, Acetone	0.22	1.00	0	0	0	0	0	0	0
427	PLASTI-KOTE, M1, FLAT BLACK PAINT	0.03	1.00	0	0	0	0	0.03	0.03	0.12
428	PLASTI-KOTE, M2, FLAT BLACK PAINT	0.01	1.00	0	0	0	0	8.78E-03	8.78E-03	0.04
416	PPG, DBC500Q, Color Blender	2.39E-03	1.00	1.85E-04	0	0	1.85E-04	9.25E-04	1.29E-03	5.67E-03
8	PPG, DC3000G, HIGH VELOCITY CLEARCOAT	0.16	1.00	0.04	0.01	0	0.04	0.31	0.40	1.74
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	1.76E-03	1.00	6.89E-04	1.38E-04	1.03E-03	0	5.51E-03	7.38E-03	0.03
6	PPG, DMC900G, STRONG WHITE	0.03	1.00	2.87E-03	0	0	0	8.62E-03	0.01	0.05
241	PPG, DMC901G, STRONG TINTING BLACK	6.78E-03	1.00	1.72E-03	0	0	0	4.30E-03	6.02E-03	0.03
242	PPG, DMC902, CARBON BLACK	5.02E-04	1.00	4.22E-05	0	0	0	1.26E-04	1.69E-04	7.38E-04
17	PPG, DMC903Q, WEAK TINTING BLACK	7.85E-03	1.00	6.57E-04	0	0	0	1.97E-03	2.63E-03	0.01
256	PPG, DMC921G, HIGH COLOR BLACK	2.51E-04	1.00	6.29E-05	0	0	0	3.15E-04	3.78E-04	1.65E-03
263	PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	1.13E-03	1.00	9.56E-05	0	0	0	2.87E-04	3.83E-04	1.68E-03
312	PPG, DMC981Q, CONCEPT FINE ALUMINUM	3.14E-04	1.00	7.70E-05	0	0	0	6.41E-04	7.18E-04	3.15E-03
285	PPG, DMD1605Q, MAGENTA	1.57E-03	1.00	1.24E-04	0	0	0	1.85E-03	1.98E-03	8.66E-03
286	PPG, DMD1606Q, PERYLENE MAROON	8.10E-03	1.00	7.01E-04	0	0	0	5.26E-03	5.96E-03	0.03
287	PPG, DMD1607Q, PHTHALO BLUE	2.95E-03	1.00	7.05E-04	0	0	0	3.52E-03	4.23E-03	0.02
288	PPG, DMD1609Q, QUINDO VIOLET BC	6.91E-04	1.00	5.51E-05	0	0	0	4.13E-04	4.68E-04	2.05E-03
289	PPG, DMD1610Q, TRANSPARENT ORANGE	4.40E-04	1.00	3.62E-05	0	0	0	2.71E-04	3.08E-04	1.35E-03
290	PPG, DMD1675Q, PHTHALO BLUE	3.58E-03	1.00	8.50E-04	0	0	0	0.01	0.01	0.06
291	PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	1.88E-04	1.00	7.50E-05	0	0	0	3.00E-04	3.75E-04	1.64E-03
292	PPG, DMD1677Q, SCARLET RED	1.44E-03	1.00	5.76E-04	0	0	0	1.15E-03	1.73E-03	7.57E-03
294	PPG, DMD1679Q, QUINDO RED	6.28E-04	1.00	2.46E-04	0	0	0	4.91E-04	7.37E-04	3.23E-03
15	PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	0.02	1.00	1.28E-03	0	0	0	8.99E-03	0.01	0.05
16	PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	0.02	1.00	1.40E-03	0	0	0	9.78E-03	0.01	0.05
296	PPG, DMD1682Q, COARSE ALUMINUM	0.01	1.00	5.05E-03	0	0	0	0.01	0.02	0.07
297	PPG, DMD1683G, BLACK MIXING BASE	0.02	1.00	0.03	0	0.01	0	0.02	0.06	0.28
298	PPG, DMD1684G, BASECOAT WHITE	0.02	1.00	0.01	0	0	0	0.03	0.04	0.18
299	PPG, DMD1686G, FINE SATIN ALUMINUM	5.02E-04	1.00	1.18E-04	0	0	0	2.96E-04	4.15E-04	1.82E-03
300	PPG, DMD1687G, MEDIUM SATIN ALUMINUM	4.77E-03	1.00	1.88E-03	0	0	0	3.75E-03	5.63E-03	0.02
301	PPG, DMD1690G, COARSE SATIN ALUMINUM	3.52E-03	1.00	1.38E-03	0	0	0	2.76E-03	4.15E-03	0.02
302	PPG, DMD1693Q, PHTHALO GREEN	5.02E-04	1.00	2.00E-04	0	0	0	8.02E-04	1.00E-03	4.39E-03
303	PPG, DMD1694Q, PERRINDO MAROON	5.02E-03	1.00	1.98E-03	0	0	0	3.95E-03	5.93E-03	0.03
419	PPG, DMD1696Q, DELTRON MIXING BASES	2.51E-04	1.00	1.19E-04	0	0	4.77E-04	4.77E-04	1.07E-03	4.70E-03
311	PPG, DMD1697Q, DBC MIXING SYSTEM	2.26E-03	1.00	1.07E-03	0	0	4.30E-03	4.30E-03	9.66E-03	0.04
304	PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	2.76E-03	1.00	1.10E-03	0	0	0	2.20E-03	3.30E-03	0.01
305	PPG, DMD1699G, DELTRON MIXING BASES	2.51E-04	1.00	1.19E-04	0	0	4.77E-04	4.77E-04	1.07E-03	4.70E-03
273	PPG, DMD614Q, VAT BLUE URETHANE	3.27E-03	1.00	2.67E-04	0	0	8.02E-04	2.67E-04	1.34E-03	5.86E-03
276	PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	2.51E-04	1.00	3.24E-05	0	0	6.49E-05	6.49E-05	1.62E-04	7.10E-04
277	PPG, DMD624Q, CARBOZOL VIOLET URETHANE	1.13E-03	1.00	9.19E-05	0	0	4.59E-04	9.19E-05	6.43E-04	2.82E-03
278	PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	1.07E-03	1.00	9.23E-05	0	0	2.77E-04	2.77E-04	6.46E-04	2.83E-03
279	PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	1.88E-04	1.00	1.68E-05	0	0	5.03E-05	5.03E-05	1.17E-04	5.14E-04
280	PPG, DMD646Q, WEAK WHITE	6.91E-04	1.00	6.07E-05	0	0	1.82E-04	1.82E-04	4.25E-04	1.86E-03
281	PPG, DMD648Q, WEAK BLACK DELTRON	1.26E-03	1.00	1.02E-04	0	0	3.06E-04	1.02E-04	5.10E-04	2.23E-03
420	PPG, DMD691Q, GRAPHITE BLACK	2.51E-04	1.00	2.15E-05	0	0	1.07E-04	1.07E-04	2.36E-04	1.03E-03
330	PPG, DP90LFG, EPOXY PRIMER	0.01	1.00	0	0	0.01	4.31E-03	4.31E-03	0.02	0.08
18	PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	0.02	1.00	1.14E-03	0	0	0.02	8.57E-03	0.03	0.14
425	PPG, DX578OZ, Basecoat Activator	4.19E-03	1.00	0	0	0	1.82E-03	0	1.82E-03	7.99E-03
306	PPG, DX685G, URETHANE FLATTENING AGENT	1.97E-03	1.00	0	0	0	4.84E-04	0	4.84E-04	2.12E-03
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	4.77E-03	1.00	5.20E-04	0	0.01	0	2.43E-03	0.02	0.07
429	PPG, MEK-5, SATWIPES ® SW420185 Wipers,	0.03	1.00	0	0	0	0	0	0	0
332	PPG, PRL88, ORANGE PEARL	0.01	1.00	0	0	0	0	0	0	0
333	PPG, PRL89, VIOLET PEARL	3.37E-03	1.00	0	0	0	0	0	0	0
334	PPG, PRL90, SUNSET RED	1.69E-03	1.00	0	0	0	0	0	0	0
372	PPG, PRL91, PRL PEARL LINE	4.50E-03	1.00	0	0	0	0	0	0	0
335	PPG, PRL92, PEARL LINE	4.50E-03	1.00	0	0	0	0	0	0	0
336	PPG, PRL93, TINCTURE GOLD	5.06E-03	1.00	0	0	0	0	0	0	0
337	PPG, PRL94, BLUE GREEN PEARL	2.81E-04	1.00	0	0	0	0	0	0	0
338	PPG, PRL95, BRIGHT WHITE PEARL	2.81E-04	1.00	0	0	0	0	0	0	0
339	PPG, PRL96, RUSSET PEARL	3.93E-03	1.00	0	0	0	0	0	0	0
341	PPG, PRL98, FINE WHITE PEARL	3.93E-03	1.00	0	0	0	0	0	0	0
343	PPG, PRLX1, CRYSTAL RED PEARL	0.02	1.00	0	0	0	0	0	0	0
344	PPG, PRLX2, CRYSTAL SILVER PEARL	5.34E-03	1.00	0	0	0	0	0	0	0
346	PPG, PRLX4, CRYSTAL BLUE PEARL	1.69E-03	1.00	0	0	0	0	0	0	0
347	PPG, PRLX5, CRYSTAL GREEN PEARL	1.69E-03	1.00	0	0	0	0	0	0	0
348	PPG, PRLX6, CRYSTAL FROST RED PEARL	1.69E-03	1.00	0	0	0	0	0	0	0
349	PPG, PRLX7, CRYSTAL COPPER PEARL	1.69E-03	1.00	0	0	0	0	0	0	0

Appendix A: Emissions Calculations
HAPs
WAV - 2 (formerly EnterVan Line No. 2)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
	SERVICE PRO, COMPLETE A/F, SERVICEPRO									
415	COMPLETE™ ANTIFREEZE/COOLANT	0.05	1.00	0	0	0	0	0	0.00	0.00
426	TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	0.03	1.00	0	0	0	0	0	0	0
	Subtotal worse case coating			**0.06**	**0.01**	**0**	**0.07**	**0.38**	**0.53**	**2.34**

Appendix A: Emissions Calculations
HAPs
WAV - 2 (formerly EnterVan Line No. 2)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
WAV - 2 Undercoating										
5005	Evercoat Rubberized Aerosol	0.04	1.00	0.04	0	0	0	0.15	0	0
5006	PPG S-0900	0.28	1.00	0.23	0	0	0	0.92	0	0
430	ECP, 51423, AA WB RUST PROTECTANT	5.62E-03	1.00	0	0	0	0	0	0	0
	Subtotal worse case coating			**0.27**	**0**	**0**	**0**	**1.06**	**0**	**0**
	Total Worst Case (lb/hr)			**0.60**	**0.01**	**0.15**	**0.40**	**2.60**	**2.52**	**11.04**
	Total Worst Case (ton/yr)			**2.65**	**0.06**	**0.66**	**1.76**	**11.41**	**11.41**	**16.53**

MIK = Methyl isobutyl ketone
MMA = Methyl methacrylate
HDI = Hexamethylene 1,6-Diisocyanate
DBP = Dibutylphthalate
MC = Methylene Chloride

METHODOLOGY
PTE of HAP (lbs/hr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of HAP (tons/yr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)

Appendix A: Emissions Calculations
HAPs
EnterVan Line No. 2 (Now WAV-2)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
Entervan Line 2 Assembly										
896	DYNATEX, 49294, DYNATEX CLEAR RTV SILICONE SEALANT	0.34	0.75	0	0	0	0	0	0	0
409	DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	0.33	0.75	0	0	0	0	0	0	0
5002	Accumetric Seam Sealer 18876	0.33	0.75	0.20	0	0	0	0.81	1.02	4.46
30	PPG, DX103G, MULTI-PREP	0.02	0.75	0	0	0	0	0	0	0
361	ROYAL ADHESIVES AND SEALANTS, DC12176, SILAPRENE SOLIDSEAL	0.21	0.75	0	0	0	0	0.05	0.05	0.24
366	ROYAL ADHESIVES AND SEALANTS, DC12653, SILAPRENE (HI-BOND 1000) (CAN)	0.22	0.75	0	0	0	0	0	0	0
367	ROYAL ADHESIVES AND SEALANTS, DC12742, SILAPRENE ADHESIVE	0.33	0.75	0	0	0	0	0	0	0
7	PPG, DX330G, WAX AND GREASE REMOVER	0.03	0.75	0	0	0	1.80E-03	0	1.80E-03	7.90E-03
407	TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	0.42	0.75	0	0	0	0.10	0	0.10	0.44
		Subtotal worse case coating		**0.20**	**0**	**0**	**0.10**	**0.81**	**1.17**	**5.14**
Entervan Line 2 Primer (Prime Booth 20032)										
330	PPG, DP90LF Epoxy Primer	0.18	0.75	0	0	0.11	0.05	0.05	0.20	0.89
322	PPG, DT870G, REDUCER	0.05	0.75	2.33E-03	0	0	0.05	0.01	0.06	0.27
421	BASF, DP402LFG, Epoxy Primer Catalyst	0.18	0.75	0	0	0	0.05	0	0.05	0.23
1	PPG, DP50LF, Gray Epoxy Primer	0.13	0.75	7.12E-03	0	0.04	0.04	0.04	0.11	0.50
3	PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	0.27	0.75	0.01	0	0.05	0.21	0.11	0.38	1.68
422	PPG, DX1787G, ETCHING FILLER	3.52E-03	0.75	2.22E-04	0	0	0	6.66E-04	8.88E-04	3.89E-03
25	PPG, K201Q, PRIMER SURFACER CATALYST	5.20E-03	0.75	0	0	0	0	1.59E-03	1.59E-03	6.96E-03
9	PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	0.03	0.75	8.69E-03	0	0	0	0.04	0.05	0.23
10	PPG, K38G, HIGH BUILD PRIMER SURFACER	0.02	0.75	4.56E-03	0	0	4.56E-03	0.02	0.03	0.14
357	PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	2.51E-04	0.75	2.26E-04	0	0	0	6.78E-05	2.94E-04	1.29E-03
406	U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	0.09	0.75	0	0.13	0	0	0	0.13	0.57
		Subtotal worse case coating		**2.33E-03**	**0**	**0.11**	**0.14**	**0.06**	**0.32**	**1.39**
Entervan Line 2 Paint (Paint Booth 20033)										
417	PPG, DBX1689G, DELTRON 2000 BASECOAT CON	0.01	0.75	0.01	0	0	0	6.75E-03	0.02	0.09
322	PPG, DT870G, REDUCER	0.01	0.75	6.22E-04	0	0	0.01	3.25E-03	0.02	0.07
5003	DX 57 Hardner	4.00E-03	0.75	2.48E-03	0	0	0	9.90E-03	0.01	0.05
422	PPG, DX1787G, ETCHING FILLER	6.00E-03	0.75	3.79E-04	0	0	0	1.14E-03	1.52E-03	6.64E-03
423	PPG, DX1788G, DX1787 CATALYST	6.00E-03	0.75	0	0	0	0	0	0	0
	Clear Coat									
327	PPG, DCH3070Q, URETHANE HARDENER	8.00E-03	0.75	2.65E-03	0	0	0	0.02	0.02	0.08
8	PPG, DC3000G, HIGH VELOCITY CLEARCOAT	0.02	0.75	3.45E-03	1.15E-03	0	3.45E-03	0.03	0.04	0.16
	Sealer									
9	PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	8.00E-03	0.75	2.27E-03	0	0	0	0.01	0.01	0.06
242	PPG, DMC902, CARBON BLACK	8.00E-03	0.75	5.03E-04	0	0	0	1.51E-03	2.01E-03	8.82E-03
322	PPG, DT870G, REDUCER	8.00E-03	0.75	4.15E-04	0	0	8.29E-03	2.17E-03	0.01	0.05
26	PPG, DCX61G, HI SOLIDS HARDENER	8.00E-03	0.75	0	0	0	0	0	0	0
	Track Black									
1001	BASF, LA1200, 9741 Track Black	0.02	0.75	0.01	0	0	0	0.06	0.07	0.31
322	PPG, DT870G, REDUCER	4.00E-03	0.75	2.07E-04	0	0	4.15E-03	1.08E-03	5.44E-03	0.02
26	PPG, DCX61G, HI SOLIDS HARDENER	6.00E-03	0.75	0	0	0	0	0	0	0
322	PPG, DT870G, REDUCER	0.02	0.75	9.37E-04	0	0	0.02	4.90E-03	0.02	0.11
365	ROYAL ADHESIVES AND SEALANTS, DC12439, HYRA FASTEN ADHESIVE PART A	0.06	0.75	0	0	0	0	0	0	0
362	ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	0.01	0.75	0	0	0	0	0	0	0
410	, 66003, Acetone	0.22	0.75	0	0	0	0	0	0	0
427	PLASTI-KOTE, M1, FLAT BLACK PAINT	0.03	0.75	0	0	0	0	0.02	0.02	0.09
428	PLASTI-KOTE, M2, FLAT BLACK PAINT	0.01	0.75	0	0	0	0	6.58E-03	6.58E-03	0.03
416	PPG, DBC500Q, Color Blender	2.39E-03	0.75	1.39E-04	0	0	1.39E-04	6.94E-04	9.71E-04	4.25E-03
8	PPG, DC3000G, HIGH VELOCITY CLEARCOAT	0.16	0.75	0.03	9.31E-03	0	0.03	0.23	0.30	1.30
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	1.76E-03	0.75	5.17E-04	1.03E-04	7.75E-04	0	4.14E-03	5.53E-03	0.02
6	PPG, DMC900G, STRONG WHITE	0.03	0.75	2.15E-03	0	0	0	6.46E-03	8.62E-03	0.04
241	PPG, DMC901G, STRONG TINTING BLACK	6.78E-03	0.75	1.29E-03	0	0	0	3.22E-03	4.51E-03	0.02
242	PPG, DMC902, CARBON BLACK	5.02E-04	0.75	3.16E-05	0	0	0	9.48E-05	1.26E-04	5.54E-04
17	PPG, DMC903Q, WEAK TINTING BLACK	7.85E-03	0.75	4.93E-04	0	0	0	1.48E-03	1.97E-03	8.63E-03
256	PPG, DMC921G, HIGH COLOR BLACK	2.51E-04	0.75	4.72E-05	0	0	0	2.36E-04	2.83E-04	1.24E-03
263	PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	1.13E-03	0.75	7.17E-05	0	0	0	2.15E-04	2.87E-04	1.26E-03
312	PPG, DMC981Q, CONCEPT FINE ALUMINUM	3.14E-04	0.75	5.77E-05	0	0	0	4.81E-04	5.39E-04	2.36E-03
285	PPG, DMD1605Q, MAGENTA	1.57E-03	0.75	9.27E-05	0	0	0	1.39E-03	1.48E-03	6.49E-03
286	PPG, DMD1606Q, PERYLENE MAROON	8.10E-03	0.75	5.26E-04	0	0	0	3.94E-03	4.47E-03	0.02
287	PPG, DMD1607Q, PHTHALO BLUE	2.95E-03	0.75	5.29E-04	0	0	0	2.64E-03	3.17E-03	0.01
288	PPG, DMD1609Q, QUINDO VIOLET BC	6.91E-04	0.75	4.13E-05	0	0	0	3.10E-04	3.51E-04	1.54E-03
289	PPG, DMD1610Q, TRANSPARENT ORANGE	4.40E-04	0.75	2.71E-05	0	0	0	2.04E-04	2.31E-04	1.01E-03
290	PPG, DMD1675Q, PHTHALO BLUE	3.58E-03	0.75	6.38E-04	0	0	0	9.57E-03	0.01	0.04
291	PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	1.88E-04	0.75	5.62E-05	0	0	0	2.25E-04	2.81E-04	1.23E-03
292	PPG, DMD1677Q, SCARLET RED	1.44E-03	0.75	4.32E-04	0	0	0	8.64E-04	1.30E-03	5.68E-03
294	PPG, DMD1679Q, QUINDO RED	6.28E-04	0.75	1.84E-04	0	0	0	3.68E-04	5.52E-04	2.42E-03
15	PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	0.02	0.75	9.64E-04	0	0	0	6.75E-03	7.71E-03	0.03
16	PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	0.02	0.75	1.05E-03	0	0	0	7.34E-03	8.38E-03	0.04
296	PPG, DMD1682Q, COARSE ALUMINUM	0.01	0.75	3.79E-03	0	0	0	7.58E-03	0.01	0.05
297	PPG, DMD1683G, BLACK MIXING BASE	0.02	0.75	0.03	0	8.59E-03	0	0.01	0.05	0.21
298	PPG, DMD1684G, BASECOAT WHITE	0.02	0.75	0.01	0	0	0	0.02	0.03	0.13
299	PPG, DMD1686G, FINE SATIN ALUMINUM	5.02E-04	0.75	8.88E-05	0	0	0	2.22E-04	3.11E-04	1.36E-03
300	PPG, DMD1687G, MEDIUM SATIN ALUMINUM	4.77E-03	0.75	1.41E-03	0	0	0	2.81E-03	4.22E-03	0.02
301	PPG, DMD1690G, COARSE SATIN ALUMINUM	3.52E-03	0.75	1.04E-03	0	0	0	2.07E-03	3.11E-03	0.01
302	PPG, DMD1693Q, PHTHALO GREEN	5.02E-04	0.75	1.50E-04	0	0	0	6.01E-04	7.52E-04	3.29E-03
303	PPG, DMD1694Q, PERRINDO MAROON	5.02E-03	0.75	1.48E-03	0	0	0	2.97E-03	4.45E-03	0.02
419	PPG, DMD1696Q, DELTRON MIXING BASES	2.51E-04	0.75	8.95E-05	0	0	3.58E-04	3.58E-04	8.05E-04	3.53E-03
311	PPG, DMD1697Q, DBC MIXING SYSTEM	2.26E-03	0.75	8.05E-04	0	0	3.22E-03	3.22E-03	7.25E-03	0.03
304	PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	2.76E-03	0.75	8.24E-04	0	0	0	1.65E-03	2.47E-03	0.01
305	PPG, DMD1699G, DELTRON MIXING BASES	2.51E-04	0.75	8.95E-05	0	0	3.58E-04	3.58E-04	8.05E-04	3.53E-03
273	PPG, DMD614Q, VAT BLUE URETHANE	3.27E-03	0.75	2.01E-04	0	0	6.02E-04	2.01E-04	1.00E-03	4.39E-03

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HAPs
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ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
276	PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	2.51E-04	0.75	2.43E-05	0	0	4.87E-05	4.87E-05	1.22E-04	5.33E-04
277	PPG, DMD624Q, CARBOZOL VIOLET URETHANE	1.13E-03	0.75	6.89E-05	0	0	3.45E-04	6.89E-05	4.82E-04	2.11E-03
278	PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	1.07E-03	0.75	6.93E-05	0	0	2.08E-04	2.08E-04	4.85E-04	2.12E-03
279	PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	1.88E-04	0.75	1.26E-05	0	0	3.77E-05	3.77E-05	8.80E-05	3.86E-04
280	PPG, DMD646Q, WEAK WHITE	6.91E-04	0.75	4.55E-05	0	0	1.36E-04	1.36E-04	3.18E-04	1.39E-03
281	PPG, DMD648Q, WEAK BLACK DELTRON	1.26E-03	0.75	7.65E-05	0	0	2.29E-04	7.65E-05	3.82E-04	1.68E-03
420	PPG, DMD691Q, GRAPHITE BLACK	2.51E-04	0.75	1.61E-05	0	0	8.05E-05	8.05E-05	1.77E-04	7.76E-04
330	PPG, DP90LFG, EPOXY PRIMER	0.01	0.75	0	0	8.08E-03	3.23E-03	3.23E-03	0.01	0.06
18	PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	0.02	0.75	8.57E-04	0	0	0.02	6.43E-03	0.02	0.11
425	PPG, DX578OZ, Basecoat Activator	4.19E-03	0.75	0	0	0	1.37E-03	0	1.37E-03	5.99E-03
306	PPG, DX685G, URETHANE FLATTENING AGENT	1.97E-03	0.75	0	0	0	3.63E-04	0	3.63E-04	1.59E-03
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	4.77E-03	0.75	3.90E-04	0	0.01	0	1.82E-03	0.01	0.06
429	PPG, MEK-5, SATWIPES ® SW420185 Wipers,	0.03	0.75	0	0	0	0	0	0	0
332	PPG, PRL88, ORANGE PEARL	0.01	0.75	0	0	0	0	0	0	0
333	PPG, PRL89, VIOLET PEARL	3.37E-03	0.75	0	0	0	0	0	0	0
334	PPG, PRL90, SUNSET RED	1.69E-03	0.75	0	0	0	0	0	0	0
372	PPG, PRL91, PRL PEARL LINE	4.50E-03	0.75	0	0	0	0	0	0	0
335	PPG, PRL92, PEARL LINE	4.50E-03	0.75	0	0	0	0	0	0	0
336	PPG, PRL93, TINCTURE GOLD	5.06E-03	0.75	0	0	0	0	0	0	0
337	PPG, PRL94, BLUE GREEN PEARL	2.81E-04	0.75	0	0	0	0	0	0	0
338	PPG, PRL95, BRIGHT WHITE PEARL	2.81E-04	0.75	0	0	0	0	0	0	0
339	PPG, PRL96, RUSSET PEARL	3.93E-03	0.75	0	0	0	0	0	0	0
341	PPG, PRL98, FINE WHITE PEARL	3.93E-03	0.75	0	0	0	0	0	0	0
343	PPG, PRLX1, CRYSTAL RED PEARL	0.02	0.75	0	0	0	0	0	0	0
344	PPG, PRLX2, CRYSTAL SILVER PEARL	5.34E-03	0.75	0	0	0	0	0	0	0
346	PPG, PRLX4, CRYSTAL BLUE PEARL	1.69E-03	0.75	0	0	0	0	0	0	0
347	PPG, PRLX5, CRYSTAL GREEN PEARL	1.69E-03	0.75	0	0	0	0	0	0	0
348	PPG, PRLX6, CRYSTAL FROST RED PEARL	1.69E-03	0.75	0	0	0	0	0	0	0
349	PPG, PRLX7, CRYSTAL COPPER PEARL	1.69E-03	0.75	0	0	0	0	0	0	0
415	SERVICE PRO, COMPLETE A/F, SERVICEPRO COMPLETE™ ANTIFREEZE/COOLANT	0.05	0.75	0	0	0	0	0	0.00	0.00
426	TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	0.03	0.75	0	0	0	0	0	0	0
		Subtotal worse case coating		**0.05**	**0.01**	**0**	**0.06**	**0.28**	**0.40**	**1.75**

Appendix A: Emissions Calculations
HAPs
EnterVan Line No. 2 (Now WAV-2)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
Enter/Un. No. 2										
5005	Evercoat Rubberized Aerosol	0.04	0.75	0.03	0	0	0	0.11	0	0
5006	PPG S-0900	0.28	0.75	0.17	0	0	0	0.69	0	0
430	ECP, 51423, AA WB RUST PROTECTANT	5.62E-03	0.75	0	0	0	0	0	0	0
	Subtotal worse case coating			**0.20**	**0**	**0**	**0**	**0.80**	**0**	**0**
	Total Worst Case (lb/hr)			**0.45**	**0.01**	**0.11**	**0.30**	**1.95**	**1.89**	**8.28**
	Total Worst Case (ton/yr)			**1.99**	**0.05**	**0.49**	**1.32**	**8.55**	**8.55**	**12.40**

METHODOLOGY
MIK = Methyl isobutyl ketone
MMA = Methyl methacrylate
HDI = Hexamethylene 1,6-Diisocyanate
DBP = Dibutylphthalate
MC = Methylene Chloride
PTE of HAP (lbs/hr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of HAP (tons/yr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)

Appendix A: Emissions Calculations
HAPs
WAV - 1 (formerly EnterVan Line No. 3)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
WAV - 1										
896	DYNATEX, 49294, DYNATEX CLEAR RTV SILICONE SEALANT	0.34	1.33	0	0	0	0	0	0	0
5002	Accumetric Seam Sealer 18876	0.33	1.33	0.36	0	0	0	1.44	1.80	7.91
7	PPG, DX330G, WAX AND GREASE REMOVER	0.03	1.33	0	0	0	3.24E-03	0	3.24E-03	0.01
409	DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	0.33	1.33	0	0	0	0	0	0	0
30	PPG, DX103G, MULTI-PREP	0.02	1.33	0	0	0	0	0	0	0
361	ROYAL ADHESIVES AND SEALANTS, DC12176, SILAPRENE SOLIDSEAL	0.21	1.33	0	0	0	0	0.10	0.10	0.42
366	ROYAL ADHESIVES AND SEALANTS, DC12653, SILAPRENE (HI-BOND 1000) (CAN)	0.22	1.33	0	0	0	0	0	0	0
367	ROYAL ADHESIVES AND SEALANTS, DC12742, SILAPRENE ADHESIVE	0.33	1.33	0	0	0	0	0	0	0
7	PPG, DX330G, WAX AND GREASE REMOVER	0.03	1.33	0	0	0	3.20E-03	0	3.20E-03	0.01
407	TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	0.42	1.33	0	0	0	0.18	0	0.18	0.78
	Subtotal worse case coating			**0.36**	**0**	**0**	**3.24E-03**	**1.44**	**1.81**	**7.92**
WAV - 1 Primer Booth (20030)										
1	PPG, DP50LF, Gray Epoxy Primer	0.13	1.33	0.01	0	0.06	0.06	0.06	0.20	0.88
330	PPG, DP90LFG, EPOXY PRIMER	0.28	1.33	0	0	0.31	0.12	0.12	0.55	2.40
322	PPG, DT870G, REDUCER	0.07	1.33	6.34E-03	0	0	0.13	0.03	0.17	0.73
421	BASF, DP402LFG, Epoxy Primer Catalyst	0.08	1.33	0	0	0	0.04	0	0.04	0.19
3	PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	0.27	1.33	0.03	0	0.09	0.38	0.19	0.68	2.98
422	PPG, DX1787G, ETCHING FILLER	3.51E-03	1.33	3.93E-04	0	0	0	1.18E-03	1.57E-03	6.89E-03
25	PPG, K201Q, PRIMER SURFACER CATALYST	4.15E-03	1.33	0	0	0	0	2.25E-03	2.25E-03	9.85E-03
9	PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	0.03	1.33	0.02	0	0	0	0.08	0.09	0.40
10	PPG, K38G, HIGH BUILD PRIMER SURFACER	0.02	1.33	8.08E-03	0	0	8.08E-03	0.04	0.06	0.25
357	PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	2.51E-04	1.33	4.00E-04	0	0	0	1.20E-04	5.20E-04	2.28E-03
406	U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	0.09	1.33	0	0.23	0	0	0	0.23	1.02
	Subtotal worse case coating			**6.34E-03**	**0**	**0.31**	**0.29**	**0.16**	**0.76**	**3.32**

Appendix A: Emissions Calculations
HAPs
WAV - 1 (formerly EnterVan Line No. 3)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
WAV - 1 (Paint Booth # 20031)										
322	PPG, DT870G, REDUCER	0.02	1.33	1.66E-03	0	0	0.03	8.69E-03	0.04	0.19
5001	BASF, LA1200, 9741 Track Black	0.04	1.33	0.04	0	0	0	0.16	0.20	0.89
26	PPG, DCX61G, HI SOLIDS HARDENER	0.01	1.33	0	0	0	0	0	0	0
7	PPG, DX330G, WAX AND GREASE REMOVER	0.01	1.33	0	0	0	1.44E-03	0	1.44E-03	6.31E-03
365	ROYAL ADHESIVES AND SEALANTS, DC12439, HYRA FASTEN ADHESIVE PART A	0.02	1.33	0	0	0	0	0	0	0
362	ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	0.01	1.33	0	0	0	0	0	0	0
410	, 66003, Acetone	0.22	1.33	0	0	0	0	0	0	0
427	PLASTI-KOTE, M1, FLAT BLACK PAINT	0.03	1.33	0	0	0	0	0.04	0.04	0.15
428	PLASTI-KOTE, M2, FLAT BLACK PAINT	0.01	1.33	0	0	0	0	0.01	0.01	0.05
416	PPG, DBC500Q, Color Blender	2.38E-03	1.33	2.45E-04	0	0	2.45E-04	1.23E-03	1.72E-03	7.52E-03
8	PPG, DC3000G, HIGH VELOCITY CLEARCOAT	0.16	1.33	0.05	0.02	0	0.05	0.41	0.53	2.31
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	1.76E-03	1.33	9.18E-04	1.84E-04	1.38E-03	0	7.34E-03	9.82E-03	0.04
6	PPG, DMC900G, STRONG WHITE	0.02	1.33	3.06E-03	0	0	0	9.17E-03	0.01	0.05
241	PPG, DMC901G, STRONG TINTING BLACK	6.78E-03	1.33	2.29E-03	0	0	0	5.71E-03	8.00E-03	0.04
242	PPG, DMC902, CARBON BLACK	5.02E-03	1.33	5.60E-04	0	0	0	1.68E-03	2.24E-03	9.81E-03
17	PPG, DMC903Q, WEAK TINTING BLACK	7.85E-03	1.33	8.74E-04	0	0	0	2.62E-03	3.50E-03	0.02
256	PPG, DMC921G, HIGH COLOR BLACK	2.51E-04	1.33	8.36E-05	0	0	0	4.18E-04	5.02E-04	2.20E-03
263	PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	1.13E-03	1.33	1.27E-04	0	0	0	3.81E-04	5.09E-04	2.23E-03
312	PPG, DMC981Q, CONCEPT FINE ALUMINUM	3.13E-04	1.33	1.02E-04	0	0	0	8.50E-04	9.52E-04	4.17E-03
285	PPG, DMD1605Q, MAGENTA	1.57E-03	1.33	1.64E-04	0	0	0	2.47E-03	2.63E-03	0.01
286	PPG, DMD1606Q, PERYLENE MAROON	8.10E-03	1.33	9.32E-04	0	0	0	6.99E-03	7.92E-03	0.03
287	PPG, DMD1607Q, PHTHALO BLUE	2.95E-03	1.33	9.37E-04	0	0	0	4.68E-03	5.62E-03	0.02
288	PPG, DMD1609Q, QUINDO VIOLET BC	6.90E-04	1.33	7.31E-05	0	0	0	5.49E-04	6.22E-04	2.72E-03
289	PPG, DMD1610Q, TRANSPARENT ORANGE	4.40E-04	1.33	4.82E-05	0	0	0	3.61E-04	4.09E-04	1.79E-03
290	PPG, DMD1675Q, PHTHALO BLUE	3.57E-03	1.33	1.13E-03	0	0	0	0.02	0.02	0.08
291	PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	1.88E-04	1.33	9.95E-05	0	0	0	3.98E-04	4.98E-04	2.18E-03
292	PPG, DMD1677Q, SCARLET RED	1.44E-03	1.33	7.64E-04	0	0	0	1.53E-03	2.29E-03	0.01
294	PPG, DMD1679Q, QUINDO RED	6.27E-04	1.33	3.26E-04	0	0	0	6.52E-04	9.78E-04	4.28E-03
15	PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	0.02	1.33	1.71E-03	0	0	0	0.01	0.01	0.06
16	PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	0.02	1.33	1.86E-03	0	0	0	0.01	0.01	0.07
296	PPG, DMD1682Q, COARSE ALUMINUM	0.01	1.33	6.72E-03	0	0	0	0.01	0.02	0.09
297	PPG, DMD1683G, BLACK MIXING BASE	0.02	1.33	0.05	0	0.02	0	0.02	0.08	0.37
298	PPG, DMD1684G, BASECOAT WHITE	0.02	1.33	0.02	0	0	0	0.04	0.05	0.24
299	PPG, DMD1686G, FINE SATIN ALUMINUM	4.00E-04	1.33	1.25E-04	0	0	0	3.14E-04	4.39E-04	1.92E-03
300	PPG, DMD1687G, MEDIUM SATIN ALUMINUM	4.77E-03	1.33	2.49E-03	0	0	0	4.99E-03	7.48E-03	0.03
301	PPG, DMD1690G, COARSE SATIN ALUMINUM	3.51E-03	1.33	1.83E-03	0	0	0	3.67E-03	5.50E-03	0.02
302	PPG, DMD1693Q, PHTHALO GREEN	5.02E-04	1.33	2.66E-04	0	0	0	1.07E-03	1.33E-03	5.83E-03
303	PPG, DMD1694Q, PERRINDO MAROON	5.02E-03	1.33	2.63E-03	0	0	0	5.25E-03	7.88E-03	0.03
419	PPG, DMD1696Q, DELTRON MIXING BASES	2.51E-04	1.33	1.59E-04	0	0	6.34E-04	6.34E-04	1.43E-03	6.25E-03
311	PPG, DMD1697Q, DBC MIXING SYSTEM	2.26E-03	1.33	1.43E-03	0	0	5.71E-03	5.71E-03	0.01	0.06
304	PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	2.76E-03	1.33	1.46E-03	0	0	0	2.92E-03	4.38E-03	0.02
305	PPG, DMD1699G, DELTRON MIXING BASES	2.51E-04	1.33	1.59E-04	0	0	6.34E-04	6.34E-04	1.43E-03	6.25E-03
273	PPG, DMD614Q, VAT BLUE URETHANE	3.26E-03	1.33	3.55E-04	0	0	1.07E-03	3.55E-04	1.78E-03	7.78E-03
276	PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	2.51E-04	1.33	4.31E-05	0	0	8.62E-05	8.62E-05	2.16E-04	9.44E-04
277	PPG, DMD624Q, CARBOZOL VIOLET URETHANE	1.13E-03	1.33	1.22E-04	0	0	6.11E-04	1.22E-04	8.55E-04	3.75E-03
278	PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	1.07E-03	1.33	1.23E-04	0	0	3.69E-04	3.69E-04	8.62E-04	3.77E-03
279	PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	1.88E-04	1.33	2.23E-05	0	0	6.68E-05	6.68E-05	1.56E-04	6.82E-04
280	PPG, DMD646Q, WEAK WHITE	6.90E-04	1.33	8.06E-05	0	0	2.42E-04	2.42E-04	5.64E-04	2.47E-03
281	PPG, DMD648Q, WEAK BLACK DELTRON	1.26E-03	1.33	1.36E-04	0	0	4.07E-04	1.36E-04	6.78E-04	2.97E-03
420	PPG, DMD691Q, GRAPHITE BLACK	2.51E-04	1.33	2.85E-05	0	0	1.43E-04	1.43E-04	3.14E-04	1.38E-03
330	PPG, DP90LFG, EPOXY PRIMER	0.01	1.33	0	0	0.01	5.73E-03	5.73E-03	0.03	0.11
18	PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	0.02	1.33	1.52E-03	0	0	0.03	0.01	0.04	0.19
425	PPG, DX578OZ, Basecoat Activator	4.19E-03	1.33	0	0	0	2.42E-03	0	2.42E-03	0.01
306	PPG, DX685G, URETHANE FLATTENING AGENT	1.48E-03	1.33	0	0	0	4.83E-04	0	4.83E-04	2.11E-03
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	4.77E-03	1.33	6.92E-04	0	0.02	0	3.23E-03	0.02	0.10
429	PPG, MEK-5, SATWIPES ® SW420185 Wipers,	0.02	1.33	0	0	0	0	0	0	0
332	PPG, PRL88, ORANGE PEARL	0.01	1.33	0	0	0	0	0	0	0
333	PPG, PRL89, VIOLET PEARL	3.07E-03	1.33	0	0	0	0	0	0	0
334	PPG, PRL90, SUNSET RED	1.68E-03	1.33	0	0	0	0	0	0	0
372	PPG, PRL91, PRL PEARL LINE	4.49E-03	1.33	0	0	0	0	0	0	0
335	PPG, PRL92, PEARL LINE	4.49E-03	1.33	0	0	0	0	0	0	0
336	PPG, PRL93, TINCTURE GOLD	5.06E-03	1.33	0	0	0	0	0	0	0
337	PPG, PRL94, BLUE GREEN PEARL	2.81E-04	1.33	0	0	0	0	0	0	0
338	PPG, PRL95, BRIGHT WHITE PEARL	2.81E-04	1.33	0	0	0	0	0	0	0
339	PPG, PRL96, RUSSET PEARL	3.93E-03	1.33	0	0	0	0	0	0	0
341	PPG, PRL98, FINE WHITE PEARL	3.93E-03	1.33	0	0	0	0	0	0	0
343	PPG, PRLX1, CRYSTAL RED PEARL	0.02	1.33	0	0	0	0	0	0	0
344	PPG, PRLX2, CRYSTAL SILVER PEARL	5.34E-03	1.33	0	0	0	0	0	0	0
346	PPG, PRLX4, CRYSTAL BLUE PEARL	1.68E-03	1.33	0	0	0	0	0	0	0
347	PPG, PRLX5, CRYSTAL GREEN PEARL	1.68E-03	1.33	0	0	0	0	0	0	0
348	PPG, PRLX6, CRYSTAL FROST RED PEARL	1.68E-03	1.33	0	0	0	0	0	0	0
349	PPG, PRLX7, CRYSTAL COPPER PEARL	1.68E-03	1.33	0	0	0	0	0	0	0
415	SERVICE PRO, COMPLETE A/F, SERVICEPRO COMPLETE™ ANTIFREEZE/COOLANT	0.05	1.33	0	0	0	0	0	0.00	0.00
426	TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	0.03	1.33	0	0	0	0	0	0	0
		Subtotal worse case coating		**0.09**	**0.02**	**0**	**0.08**	**0.58**	**0.78**	**3.40**

Appendix A: Emissions Calculations
HAPs
WAV - 1 (formerly EnterVan Line No. 3)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
WAV - 1 Undercoating (39038)										
5004	Pure Asphalt 770	0.90	1.33	0.99	0	0	0	3.95	4.94	21.63
5005	Evercoat Rubberized Aerosol	0.04	1.33	0.05	0	0	0	0.19	0.24	1.06
5006	PPG S-0900	0.28	1.33	0.30	0	0	0	1.22	1.52	6.67
	Subtotal worse case coating			**0.35**	**0**	**0**	**0**	**1.41**	**1.77**	**7.74**
	Total Worst Case (lb/hr)			**0.81**	**0.02**	**0.31**	**0.38**	**3.60**	**5.11**	**22.38**
	Total Worst Case (ton/yr)			**3.56**	**0.07**	**1.34**	**1.66**	**15.75**	**15.75**	**22.38**

METHODOLOGY
MIK = Methyl isobutyl ketone
MMA = Methyl methacrylate
HDI = Hexamethylene 1,6-Diisocyanate
DBP = Dibutylphthalate
MC = Methylene Chloride
PTE of HAP (lbs/hr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of HAP (tons/yr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)

Appendix A: Emissions Calculations
HAPs
EnterVan Line No. 3 (formerly WAV - 1)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
Enter/Assem. No. 3										
896	DYNATEX, 49294, DYNATEX CLEAR RTV SILICONE SEALANT	0.34	1.00	0	0	0	0	0	0	0
5002	Accumetric Seam Sealer 18876	0.33	1.00	0.27	0	0	0	1.09	1.36	5.94
7	PPG, DX330G, WAX AND GREASE REMOVER	0.03	1.00	0	0	0	2.44E-03	0	2.44E-03	0.01
409	DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	0.33	1.00	0	0	0	0	0	0	0
30	PPG, DX103G, MULTI-PREP	0.02	1.00	0	0	0	0	0	0	0
361	ROYAL ADHESIVES AND SEALANTS, DC12176, SILAPRENE SOLIDSEAL	0.21	1.00	0	0	0	0	0.07	0.07	0.32
366	ROYAL ADHESIVES AND SEALANTS, DC12653, SILAPRENE (HI-BOND 1000) (CAN)	0.22	1.00	0	0	0	0	0	0	0
367	ROYAL ADHESIVES AND SEALANTS, DC12742, SILAPRENE ADHESIVE	0.33	1.00	0	0	0	0	0	0	0
7	PPG, DX330G, WAX AND GREASE REMOVER	0.03	1.00	0	0	0	2.40E-03	0	2.40E-03	0.01
407	TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	0.42	1.00	0	0	0	0.13	0	0.13	0.58
	Subtotal worse case coating			**0.27**	**0**	**0**	**2.44E-03**	**1.09**	**1.36**	**5.95**
Entervan Line 3 Primer Booth (20030)										
1	PPG, DP50LF, Gray Epoxy Primer	0.13	1.00	9.49E-03	0	0.05	0.05	0.05	0.15	0.67
330	PPG, DP90LFG, EPOXY PRIMER	0.28	1.00	0	0	0.23	0.09	0.09	0.41	1.81
322	PPG, DT870G, REDUCER	0.07	1.00	4.77E-03	0	0	0.10	0.02	0.13	0.55
421	BASF, DP402LFG, Epoxy Primer Catalyst	0.08	1.00	0	0	0	0.03	0	0.03	0.14
3	PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	0.27	1.00	0.02	0	0.07	0.28	0.14	0.51	2.24
422	PPG, DX1787G, ETCHING FILLER	3.51E-03	1.00	2.96E-04	0	0	0	8.87E-04	1.18E-03	5.18E-03
25	PPG, K201Q, PRIMER SURFACER CATALYST	4.15E-03	1.00	0	0	0	0	1.69E-03	1.69E-03	7.41E-03
9	PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	0.03	1.00	0.01	0	0	0	0.06	0.07	0.30
10	PPG, K38G, HIGH BUILD PRIMER SURFACER	0.02	1.00	6.08E-03	0	0	6.08E-03	0.03	0.04	0.19
357	PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	2.51E-04	1.00	3.01E-04	0	0	0	9.03E-05	3.91E-04	1.71E-03
406	U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	0.09	1.00	0	0.17	0	0	0	0.17	0.77
	Subtotal worse case coating			**4.77E-03**	**0**	**0.23**	**0.22**	**0.12**	**0.57**	**2.50**

Appendix A: Emissions Calculations
HAPs
EnterVan Line No. 3 (formerly WAV - 1)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
Entervan Line 3 (Paint Booth # 20031)										
322	PPG, DT870G, REDUCER	0.02	1.00	1.25E-03	0	0	0.02	6.53E-03	0.03	0.14
5001	BASF, LA1200, 9741 Track Black	0.04	1.00	0.03	0	0	0	0.12	0.15	0.67
26	PPG, DCX61G, HI SOLIDS HARDENER	0.01	1.00	0	0	0	0	0	0	0
7	PPG, DX330G, WAX AND GREASE REMOVER	0.01	1.00	0	0	0	1.08E-03	0	1.08E-03	4.75E-03
365	ROYAL ADHESIVES AND SEALANTS, DC12439, HYRA FASTEN ADHESIVE PART A	0.02	1.00	0	0	0	0	0	0	0
362	ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	0.01	1.00	0	0	0	0	0	0	0
410	, 66003, Acetone	0.22	1.00	0	0	0	0	0	0	0
427	PLASTI-KOTE, M1, FLAT BLACK PAINT	0.03	1.00	0	0	0	0	0.03	0.03	0.12
428	PLASTI-KOTE, M2, FLAT BLACK PAINT	0.01	1.00	0	0	0	0	8.77E-03	8.77E-03	0.04
416	PPG, DBC500Q, Color Blender	2.38E-03	1.00	1.84E-04	0	0	1.84E-04	9.22E-04	1.29E-03	5.66E-03
8	PPG, DC3000G, HIGH VELOCITY CLEARCOAT	0.16	1.00	0.04	0.01	0	0.04	0.31	0.40	1.74
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	1.76E-03	1.00	6.90E-04	1.38E-04	1.03E-03	0	5.52E-03	7.38E-03	0.03
6	PPG, DMC900G, STRONG WHITE	0.02	1.00	2.30E-03	0	0	0	6.89E-03	9.19E-03	0.04
241	PPG, DMC901G, STRONG TINTING BLACK	6.78E-03	1.00	1.72E-03	0	0	0	4.30E-03	6.02E-03	0.03
242	PPG, DMC902, CARBON BLACK	5.02E-03	1.00	4.21E-04	0	0	0	1.26E-03	1.68E-03	7.38E-03
17	PPG, DMC903Q, WEAK TINTING BLACK	7.85E-03	1.00	6.57E-04	0	0	0	1.97E-03	2.63E-03	0.01
256	PPG, DMC921G, HIGH COLOR BLACK	2.51E-04	1.00	6.29E-05	0	0	0	3.14E-04	3.77E-04	1.65E-03
263	PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	1.13E-03	1.00	9.56E-05	0	0	0	2.87E-04	3.82E-04	1.67E-03
312	PPG, DMC981Q, CONCEPT FINE ALUMINUM	3.13E-04	1.00	7.67E-05	0	0	0	6.39E-04	7.16E-04	3.14E-03
285	PPG, DMD1605Q, MAGENTA	1.57E-03	1.00	1.24E-04	0	0	0	1.85E-03	1.98E-03	8.66E-03
286	PPG, DMD1606Q, PERYLENE MAROON	8.10E-03	1.00	7.01E-04	0	0	0	5.25E-03	5.96E-03	0.03
287	PPG, DMD1607Q, PHTHALO BLUE	2.95E-03	1.00	7.04E-04	0	0	0	3.52E-03	4.23E-03	0.02
288	PPG, DMD1609Q, QUINDO VIOLET BC	6.90E-04	1.00	5.50E-05	0	0	0	4.12E-04	4.67E-04	2.05E-03
289	PPG, DMD1610Q, TRANSPARENT ORANGE	4.40E-04	1.00	3.62E-05	0	0	0	2.72E-04	3.08E-04	1.35E-03
290	PPG, DMD1675Q, PHTHALO BLUE	3.57E-03	1.00	8.48E-04	0	0	0	0.01	0.01	0.06
291	PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	1.88E-04	1.00	7.48E-05	0	0	0	2.99E-04	3.74E-04	1.64E-03
292	PPG, DMD1677Q, SCARLET RED	1.44E-03	1.00	5.75E-04	0	0	0	1.15E-03	1.72E-03	7.55E-03
294	PPG, DMD1679Q, QUINDO RED	6.27E-04	1.00	2.45E-04	0	0	0	4.90E-04	7.35E-04	3.22E-03
15	PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	0.02	1.00	1.28E-03	0	0	0	8.99E-03	0.01	0.05
16	PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	0.02	1.00	1.40E-03	0	0	0	9.78E-03	0.01	0.05
296	PPG, DMD1682Q, COARSE ALUMINUM	0.01	1.00	5.05E-03	0	0	0	0.01	0.02	0.07
297	PPG, DMD1683G, BLACK MIXING BASE	0.02	1.00	0.03	0	0.01	0	0.02	0.06	0.28
298	PPG, DMD1684G, BASECOAT WHITE	0.02	1.00	0.01	0	0	0	0.03	0.04	0.18
299	PPG, DMD1686G, FINE SATIN ALUMINUM	4.00E-04	1.00	9.43E-05	0	0	0	2.36E-04	3.30E-04	1.45E-03
300	PPG, DMD1687G, MEDIUM SATIN ALUMINUM	4.77E-03	1.00	1.87E-03	0	0	0	3.75E-03	5.62E-03	0.02
301	PPG, DMD1690G, COARSE SATIN ALUMINUM	3.51E-03	1.00	1.38E-03	0	0	0	2.76E-03	4.14E-03	0.02
302	PPG, DMD1693Q, PHTHALO GREEN	5.02E-04	1.00	2.00E-04	0	0	0	8.01E-04	1.00E-03	4.39E-03
303	PPG, DMD1694Q, PERRINDO MAROON	5.02E-03	1.00	1.98E-03	0	0	0	3.95E-03	5.93E-03	0.03
419	PPG, DMD1696Q, DELTRON MIXING BASES	2.51E-04	1.00	1.19E-04	0	0	4.77E-04	4.77E-04	1.07E-03	4.70E-03
311	PPG, DMD1697Q, DBC MIXING SYSTEM	2.26E-03	1.00	1.07E-03	0	0	4.29E-03	4.29E-03	9.66E-03	0.04
304	PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	2.76E-03	1.00	1.10E-03	0	0	0	2.19E-03	3.29E-03	0.01
305	PPG, DMD1699G, DELTRON MIXING BASES	2.51E-04	1.00	1.19E-04	0	0	4.77E-04	4.77E-04	1.07E-03	4.70E-03
273	PPG, DMD614Q, VAT BLUE URETHANE	3.26E-03	1.00	2.67E-04	0	0	8.01E-04	2.67E-04	1.33E-03	5.85E-03
276	PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	2.51E-04	1.00	3.24E-05	0	0	6.48E-05	6.48E-05	1.62E-04	7.10E-04
277	PPG, DMD624Q, CARBOZOL VIOLET URETHANE	1.13E-03	1.00	9.19E-05	0	0	4.59E-04	9.19E-05	6.43E-04	2.82E-03
278	PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	1.07E-03	1.00	9.26E-05	0	0	2.78E-04	2.78E-04	6.48E-04	2.84E-03
279	PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	1.88E-04	1.00	1.67E-05	0	0	5.02E-05	5.02E-05	1.17E-04	5.13E-04
280	PPG, DMD646Q, WEAK WHITE	6.90E-04	1.00	6.06E-05	0	0	1.82E-04	1.82E-04	4.24E-04	1.86E-03
281	PPG, DMD648Q, WEAK BLACK DELTRON	1.26E-03	1.00	1.02E-04	0	0	3.06E-04	1.02E-04	5.10E-04	2.23E-03
420	PPG, DMD691Q, GRAPHITE BLACK	2.51E-04	1.00	2.15E-05	0	0	1.07E-04	1.07E-04	2.36E-04	1.03E-03
330	PPG, DP90LFG, EPOXY PRIMER	0.01	1.00	0	0	0.01	4.31E-03	4.31E-03	0.02	0.08
18	PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	0.02	1.00	1.14E-03	0	0	0.02	8.57E-03	0.03	0.14
425	PPG, DX578OZ, Basecoat Activator	4.19E-03	1.00	0	0	0	1.82E-03	0	1.82E-03	7.99E-03
306	PPG, DX685G, URETHANE FLATTENING AGENT	1.48E-03	1.00	0	0	0	3.63E-04	0	3.63E-04	1.59E-03
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	4.77E-03	1.00	5.20E-04	0	0.01	0	2.43E-03	0.02	0.07
429	PPG, MEK-5, SATWIPES ® SW420185 Wipers,	0.02	1.00	0	0	0	0	0	0	0
332	PPG, PRL88, ORANGE PEARL	0.01	1.00	0	0	0	0	0	0	0
333	PPG, PRL89, VIOLET PEARL	3.07E-03	1.00	0	0	0	0	0	0	0
334	PPG, PRL90, SUNSET RED	1.68E-03	1.00	0	0	0	0	0	0	0
372	PPG, PRL91, PRL PEARL LINE	4.49E-03	1.00	0	0	0	0	0	0	0
335	PPG, PRL92, PEARL LINE	4.49E-03	1.00	0	0	0	0	0	0	0
336	PPG, PRL93, TINCTURE GOLD	5.06E-03	1.00	0	0	0	0	0	0	0
337	PPG, PRL94, BLUE GREEN PEARL	2.81E-04	1.00	0	0	0	0	0	0	0
338	PPG, PRL95, BRIGHT WHITE PEARL	2.81E-04	1.00	0	0	0	0	0	0	0
339	PPG, PRL96, RUSSET PEARL	3.93E-03	1.00	0	0	0	0	0	0	0
341	PPG, PRL98, FINE WHITE PEARL	3.93E-03	1.00	0	0	0	0	0	0	0
343	PPG, PRLX1, CRYSTAL RED PEARL	0.02	1.00	0	0	0	0	0	0	0
344	PPG, PRLX2, CRYSTAL SILVER PEARL	5.34E-03	1.00	0	0	0	0	0	0	0
346	PPG, PRLX4, CRYSTAL BLUE PEARL	1.68E-03	1.00	0	0	0	0	0	0	0
347	PPG, PRLX5, CRYSTAL GREEN PEARL	1.68E-03	1.00	0	0	0	0	0	0	0
348	PPG, PRLX6, CRYSTAL FROST RED PEARL	1.68E-03	1.00	0	0	0	0	0	0	0
349	PPG, PRLX7, CRYSTAL COPPER PEARL	1.68E-03	1.00	0	0	0	0	0	0	0

Appendix A: Emissions Calculations
HAPs
EnterVan Line No. 3 (formerly WAV - 1)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
415	SERVICE PRO, COMPLETE A/F, SERVICEPRO COMPLETE™ ANTIFREEZE/COOLANT	0.05	1.00	0	0	0	0	0	0.00	0.00
426	TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	0.03	1.00	0	0	0	0	0	0	0
	Subtotal worse case coating			**0.07**	**0.01**	**0**	**0.06**	**0.44**	**0.58**	**2.56**

Appendix A: Emissions Calculations
HAPs
EnterVan Line No. 3 (formerly WAV - 1)

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
Enter/Un. No. 3 (39038)										
5004	Pure Asphalt 770	0.90	1.00	0.74	0	0	0	2.97	3.71	16.26
5005	Evercoat Rubberized Aerosol	0.04	1.00	0.04	0	0	0	0.15	0.18	0.80
5006	PPG S-0900	0.28	1.00	0.23	0	0	0	0.92	1.15	5.02
	Subtotal worse case coating			**0.27**	**0**	**0**	**0**	**1.06**	**1.33**	**5.82**
	Total Worst Case (lb/hr)			**0.61**	**0.01**	**0.23**	**0.28**	**2.70**	**3.84**	**16.82**
	Total Worst Case (ton/yr)			**2.68**	**0.05**	**1.00**	**1.25**	**11.84**	**11.84**	**16.82**

METHODOLOGY
MIK = Methyl isobutyl ketone
MMA = Methyl methacrylate
HDI = Hexamethylene 1,6-Diisocyanate
DBP = Dibutylphthalate
MC = Methylene Chloride
PTE of HAP (lbs/hr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of HAP (tons/yr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)

Appendix A: Emissions Calculations
HAPs
WAV - 4

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
WAV - 4										
896	DYNATEX, 49294, DYNATEX CLEAR RTV SILICONE SEALANT	0.34	1.33	0	0	0	0	0	0	0
5002	Accumetric Seam Sealer 18876	0.33	1.33	0.36	0	0	0	1.44	1.80	7.91
7	PPG, DX330G, WAX AND GREASE REMOVER	0.03	1.33	0	0	0	3.24E-03	0	3.24E-03	0.01
409	DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	0.33	1.33	0	0	0	0	0	0	0
30	PPG, DX103G, MULTI-PREP	0.02	1.33	0	0	0	0	0	0	0
361	ROYAL ADHESIVES AND SEALANTS, DC12176, SILAPRENE SOLIDSEAL	0.21	1.33	0	0	0	0	0.10	0.10	0.42
366	ROYAL ADHESIVES AND SEALANTS, DC12653, SILAPRENE (HI-BOND 1000) (CAN)	0.22	1.33	0	0	0	0	0	0	0
367	ROYAL ADHESIVES AND SEALANTS, DC12742, SILAPRENE ADHESIVE	0.33	1.33	0	0	0	0	0	0	0
7	PPG, DX330G, WAX AND GREASE REMOVER	0.03	1.33	0	0	0	3.20E-03	0	3.20E-03	0.01
407	TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	0.42	1.33	0	0	0	0.18	0	0.18	0.78
	Subtotal worse case coating			**0.36**	**0**	**0**	**3.24E-03**	**1.44**	**1.81**	**7.92**
WAV - 4 Primer Booth (20030)										
1	PPG, DP50LF, Gray Epoxy Primer	0.13	1.33	0.01	0	0.06	0.06	0.06	0.20	0.88
330	PPG, DP90LFG, EPOXY PRIMER	0.28	1.33	0	0	0.31	0.12	0.12	0.55	2.40
322	PPG, DT870G, REDUCER	0.07	1.33	6.34E-03	0	0	0.13	0.03	0.17	0.73
421	BASF, DP402LFG, Epoxy Primer Catalyst	0.08	1.33	0	0	0	0.04	0	0.04	0.19
3	PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	0.27	1.33	0.03	0	0.09	0.38	0.19	0.68	2.98
422	PPG, DX1787G, ETCHING FILLER	3.51E-03	1.33	3.93E-04	0	0	0	1.18E-03	1.57E-03	6.89E-03
25	PPG, K201Q, PRIMER SURFACER CATALYST	4.15E-03	1.33	0	0	0	0	2.25E-03	2.25E-03	9.85E-03
9	PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	0.03	1.33	0.02	0	0	0	0.08	0.09	0.40
10	PPG, K38G, HIGH BUILD PRIMER SURFACER	0.02	1.33	8.08E-03	0	0	8.08E-03	0.04	0.06	0.25
357	PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	2.51E-04	1.33	4.00E-04	0	0	0	1.20E-04	5.20E-04	2.28E-03
406	U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	0.09	1.33	0	0.23	0	0	0	0.23	1.02
	Subtotal worse case coating			**6.34E-03**	**0**	**0.31**	**0.29**	**0.16**	**0.76**	**3.32**

Appendix A: Emissions Calculations
HAPs
WAV - 4

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
WAV - 4 (Paint Booth # 20031)										
322	PPG, DT870G, REDUCER	0.02	1.33	1.66E-03	0	0	0.03	8.69E-03	0.04	0.19
5001	BASF, LA1200, 9741 Track Black	0.04	1.33	0.04	0	0	0	0.16	0.20	0.89
26	PPG, DCX61G, HI SOLIDS HARDENER	0.01	1.33	0	0	0	0	0	0	0
7	PPG, DX330G, WAX AND GREASE REMOVER	0.01	1.33	0	0	0	1.44E-03	0	1.44E-03	6.31E-03
365	ROYAL ADHESIVES AND SEALANTS, DC12439, HYRA FASTEN ADHESIVE PART A	0.02	1.33	0	0	0	0	0	0	0
362	ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	0.01	1.33	0	0	0	0	0	0	0
410	, 66003, Acetone	0.22	1.33	0	0	0	0	0	0	0
427	PLASTI-KOTE, M1, FLAT BLACK PAINT	0.03	1.33	0	0	0	0	0.04	0.04	0.15
428	PLASTI-KOTE, M2, FLAT BLACK PAINT	0.01	1.33	0	0	0	0	0.01	0.01	0.05
416	PPG, DBC500Q, Color Blender	2.38E-03	1.33	2.45E-04	0	0	2.45E-04	1.23E-03	1.72E-03	7.52E-03
8	PPG, DC3000G, HIGH VELOCITY CLEARCOAT	0.16	1.33	0.05	0.02	0	0.05	0.41	0.53	2.31
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	1.76E-03	1.33	9.18E-04	1.84E-04	1.38E-03	0	7.34E-03	9.82E-03	0.04
6	PPG, DMC900G, STRONG WHITE	0.02	1.33	3.06E-03	0	0	0	9.17E-03	0.01	0.05
241	PPG, DMC901G, STRONG TINTING BLACK	6.78E-03	1.33	2.29E-03	0	0	0	5.71E-03	8.00E-03	0.04
242	PPG, DMC902, CARBON BLACK	5.02E-03	1.33	5.60E-04	0	0	0	1.68E-03	2.24E-03	9.81E-03
17	PPG, DMC903Q, WEAK TINTING BLACK	7.85E-03	1.33	8.74E-04	0	0	0	2.62E-03	3.50E-03	0.02
256	PPG, DMC921G, HIGH COLOR BLACK	2.51E-04	1.33	8.36E-05	0	0	0	4.18E-04	5.02E-04	2.20E-03
263	PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	1.13E-03	1.33	1.27E-04	0	0	0	3.81E-04	5.09E-04	2.23E-03
312	PPG, DMC981Q, CONCEPT FINE ALUMINUM	3.13E-04	1.33	1.02E-04	0	0	0	8.50E-04	9.52E-04	4.17E-03
285	PPG, DMD1605Q, MAGENTA	1.57E-03	1.33	1.64E-04	0	0	0	2.47E-03	2.63E-03	0.01
286	PPG, DMD1606Q, PERYLENE MAROON	8.10E-03	1.33	9.32E-04	0	0	0	6.99E-03	7.92E-03	0.03
287	PPG, DMD1607Q, PHTHALO BLUE	2.95E-03	1.33	9.37E-04	0	0	0	4.68E-03	5.62E-03	0.02
288	PPG, DMD1609Q, QUINDO VIOLET BC	6.90E-04	1.33	7.31E-05	0	0	0	5.49E-04	6.22E-04	2.72E-03
289	PPG, DMD1610Q, TRANSPARENT ORANGE	4.40E-04	1.33	4.82E-05	0	0	0	3.61E-04	4.09E-04	1.79E-03
290	PPG, DMD1675Q, PHTHALO BLUE	3.57E-03	1.33	1.13E-03	0	0	0	0.02	0.02	0.08
291	PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	1.88E-04	1.33	9.95E-05	0	0	0	3.98E-04	4.98E-04	2.18E-03
292	PPG, DMD1677Q, SCARLET RED	1.44E-03	1.33	7.64E-04	0	0	0	1.53E-03	2.29E-03	0.01
294	PPG, DMD1679Q, QUINDO RED	6.27E-04	1.33	3.26E-04	0	0	0	6.52E-04	9.78E-04	4.28E-03
15	PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	0.02	1.33	1.71E-03	0	0	0	0.01	0.01	0.06
16	PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	0.02	1.33	1.86E-03	0	0	0	0.01	0.01	0.07
296	PPG, DMD1682Q, COARSE ALUMINUM	0.01	1.33	6.72E-03	0	0	0	0.01	0.02	0.09
297	PPG, DMD1683G, BLACK MIXING BASE	0.02	1.33	0.05	0	0.02	0	0.02	0.08	0.37
298	PPG, DMD1684G, BASECOAT WHITE	0.02	1.33	0.02	0	0	0	0.04	0.05	0.24
299	PPG, DMD1686G, FINE SATIN ALUMINUM	4.00E-04	1.33	1.25E-04	0	0	0	3.14E-04	4.39E-04	1.92E-03
300	PPG, DMD1687G, MEDIUM SATIN ALUMINUM	4.77E-03	1.33	2.49E-03	0	0	0	4.99E-03	7.48E-03	0.03
301	PPG, DMD1690G, COARSE SATIN ALUMINUM	3.51E-03	1.33	1.83E-03	0	0	0	3.67E-03	5.50E-03	0.02
302	PPG, DMD1693Q, PHTHALO GREEN	5.02E-04	1.33	2.66E-04	0	0	0	1.07E-03	1.33E-03	5.83E-03
303	PPG, DMD1694Q, PERRINDO MAROON	5.02E-03	1.33	2.63E-03	0	0	0	5.25E-03	7.88E-03	0.03
419	PPG, DMD1696Q, DELTRON MIXING BASES	2.51E-04	1.33	1.59E-04	0	0	6.34E-04	6.34E-04	1.43E-03	6.25E-03
311	PPG, DMD1697Q, DBC MIXING SYSTEM	2.26E-03	1.33	1.43E-03	0	0	5.71E-03	5.71E-03	0.01	0.06
304	PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	2.76E-03	1.33	1.46E-03	0	0	0	2.92E-03	4.38E-03	0.02
305	PPG, DMD1699G, DELTRON MIXING BASES	2.51E-04	1.33	1.59E-04	0	0	6.34E-04	6.34E-04	1.43E-03	6.25E-03
273	PPG, DMD614Q, VAT BLUE URETHANE	3.26E-03	1.33	3.55E-04	0	0	1.07E-03	3.55E-04	1.78E-03	7.78E-03
276	PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	2.51E-04	1.33	4.31E-05	0	0	8.62E-05	8.62E-05	2.16E-04	9.44E-04
277	PPG, DMD624Q, CARBOZOL VIOLET URETHANE	1.13E-03	1.33	1.22E-04	0	0	6.11E-04	1.22E-04	8.55E-04	3.75E-03
278	PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	1.07E-03	1.33	1.23E-04	0	0	3.69E-04	3.69E-04	8.62E-04	3.77E-03
279	PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	1.88E-04	1.33	2.23E-05	0	0	6.68E-05	6.68E-05	1.56E-04	6.82E-04
280	PPG, DMD646Q, WEAK WHITE	6.90E-04	1.33	8.06E-05	0	0	2.42E-04	2.42E-04	5.64E-04	2.47E-03
281	PPG, DMD648Q, WEAK BLACK DELTRON	1.26E-03	1.33	1.36E-04	0	0	4.07E-04	1.36E-04	6.78E-04	2.97E-03
420	PPG, DMD691Q, GRAPHITE BLACK	2.51E-04	1.33	2.85E-05	0	0	1.43E-04	1.43E-04	3.14E-04	1.38E-03
330	PPG, DP90LFG, EPOXY PRIMER	0.01	1.33	0	0	0.01	5.73E-03	5.73E-03	0.03	0.11
18	PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	0.02	1.33	1.52E-03	0	0	0.03	0.01	0.04	0.19
425	PPG, DX578OZ, Basecoat Activator	4.19E-03	1.33	0	0	0	2.42E-03	0	2.42E-03	0.01
306	PPG, DX685G, URETHANE FLATTENING AGENT	1.48E-03	1.33	0	0	0	4.83E-04	0	4.83E-04	2.11E-03
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	4.77E-03	1.33	6.92E-04	0	0.02	0	3.23E-03	0.02	0.10
429	PPG, MEK-5, SATWIPES ® SW420185 Wipers,	0.02	1.33	0	0	0	0	0	0	0
332	PPG, PRL88, ORANGE PEARL	0.01	1.33	0	0	0	0	0	0	0
333	PPG, PRL89, VIOLET PEARL	3.07E-03	1.33	0	0	0	0	0	0	0
334	PPG, PRL90, SUNSET RED	1.68E-03	1.33	0	0	0	0	0	0	0
372	PPG, PRL91, PRL PEARL LINE	4.49E-03	1.33	0	0	0	0	0	0	0
335	PPG, PRL92, PEARL LINE	4.49E-03	1.33	0	0	0	0	0	0	0
336	PPG, PRL93, TINCTURE GOLD	5.06E-03	1.33	0	0	0	0	0	0	0
337	PPG, PRL94, BLUE GREEN PEARL	2.81E-04	1.33	0	0	0	0	0	0	0
338	PPG, PRL95, BRIGHT WHITE PEARL	2.81E-04	1.33	0	0	0	0	0	0	0
339	PPG, PRL96, RUSSET PEARL	3.93E-03	1.33	0	0	0	0	0	0	0
341	PPG, PRL98, FINE WHITE PEARL	3.93E-03	1.33	0	0	0	0	0	0	0
343	PPG, PRLX1, CRYSTAL RED PEARL	0.02	1.33	0	0	0	0	0	0	0
344	PPG, PRLX2, CRYSTAL SILVER PEARL	5.34E-03	1.33	0	0	0	0	0	0	0
346	PPG, PRLX4, CRYSTAL BLUE PEARL	1.68E-03	1.33	0	0	0	0	0	0	0
347	PPG, PRLX5, CRYSTAL GREEN PEARL	1.68E-03	1.33	0	0	0	0	0	0	0
348	PPG, PRLX6, CRYSTAL FROST RED PEARL	1.68E-03	1.33	0	0	0	0	0	0	0
349	PPG, PRLX7, CRYSTAL COPPER PEARL	1.68E-03	1.33	0	0	0	0	0	0	0

Appendix A: Emissions Calculations
HAPs
WAV - 4

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
415	SERVICE PRO, COMPLETE A/F, SERVICEPRO COMPLETE™ ANTIFREEZE/COOLANT	0.05	1.33	0	0	0	0	0	0.00	0.00
426	TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	0.03	1.33	0	0	0	0	0	0	0
	Subtotal worse case coating			**0.09**	**0.02**	**0**	**0.08**	**0.58**	**0.78**	**3.40**

Appendix A: Emissions Calculations
HAPs
WAV - 4

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
Enter/Un. No. 4 (39038)										
5004	Pure Asphalt 770	0.90	1.33	0.99	0	0	0	3.95	4.94	21.63
5005	Evercoat Rubberized Aerosol	0.04	1.33	0.05	0	0	0	0.19	0.24	1.06
5006	PPG S-0900	0.28	1.33	0.30	0	0	0	1.22	1.52	6.67
	Subtotal worse case coating			**0.35**	**0**	**0**	**0**	**1.41**	**1.77**	**7.74**
	Total Worst Case (lb/hr)			**0.81**	**0.02**	**0.31**	**0.38**	**3.60**	**5.11**	**22.38**
	Total Worst Case (ton/yr)			**3.56**	**0.07**	**1.34**	**1.66**	**15.75**	**15.75**	**22.38**

METHODOLOGY
MIK = Methyl isobutyl ketone
MMA = Methyl methacrylate
HDI = Hexamethylene 1,6-Diisocyanate
DBP = Dibutylphthalate
MC = Methylene Chloride
PTE of HAP (lbs/hr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of HAP (tons/yr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)

Appendix A: Emissions Calculations
HAPs
Bldg 6

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of HDI (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
Bldg 6 Touch-Up Booth (20019)									
417	PPG, DBX1689G, DELTRON 2000 BASECOAT CON	3.64E-03	0.60	3.28E-03	0	1.64E-03	0	4.92E-03	0.02
298	PPG, DMD1684G, BASECOAT WHITE	2.48E-03	0.60	8.06E-04	0	1.61E-03	0	2.42E-03	0.01
282	PPG, DMD649G, CLEAR MIXING BASE	1.04E-03	0.60	5.02E-05	1.51E-04	5.02E-05	0	2.51E-04	1.10E-03
322	PPG, DT870G, REDUCER	9.04E-03	0.60	3.75E-04	7.50E-03	1.96E-03	0	9.83E-03	0.04
354	PPG, DX49P, DELTA SUPER ACCELERATOR	1.00E-03	0.60	7.38E-05	0	3.45E-04	0	4.18E-04	1.83E-03
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	1.75E-04	0.60	4.12E-05	0	3.29E-04	0	3.70E-04	1.62E-03
424	PPG, DX320G, 901 Pre-Paint Cleaner	4.73E-03	0.60	0	2.53E-03	0	0	2.53E-03	0.01
26	PPG, DCX61G, HI SOLIDS HARDENER	9.55E-03	0.60	0	0	0	0	0	0
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	4.77E-04	0.60	3.12E-05	0	1.46E-04	0	1.77E-04	7.75E-04
327	PPG, DCH3070Q, URETHANE HARDENER	9.23E-03	0.60	2.44E-03	0	0.01	0	0.02	0.07
326	PPG, NCX2200Q, 2K NON-ISO SEALER HARDENE	7.85E-05	0.60	0	0	3.89E-06	0	3.89E-06	1.70E-05
425	PPG, DX578OZ, Basecoat Activator	5.23E-04	0.60	0	1.37E-04	0	2.73E-05	1.64E-04	7.17E-04
416	PPG, DBC500Q, Color Blender	2.38E-04	0.60	1.11E-05	1.11E-05	5.53E-05	0	7.75E-05	3.39E-04
422	PPG, DX1787G, ETCHING FILLER	3.51E-04	0.60	1.77E-05	0	5.32E-05	0	7.09E-05	3.11E-04
	Subtotal worse case coating			**2.44E-03**	**1.37E-04**	**0.01**	**2.73E-05**	**0.02**	**0.08**
Bldg 6 Touch-Up Booth (20018)									
417	PPG, DBX1689G, DELTRON 2000 BASECOAT CON	3.64E-03	0.60	3.28E-03	0	1.64E-03	0	4.91E-03	0.02
298	PPG, DMD1684G, BASECOAT WHITE	2.65E-03	0.60	8.61E-04	0	1.72E-03	0	2.58E-03	0.01
282	PPG, DMD649G, CLEAR MIXING BASE	1.04E-03	0.60	5.02E-05	1.51E-04	5.02E-05	0	2.51E-04	1.10E-03
322	PPG, DT870G, REDUCER	9.04E-03	0.60	3.75E-04	7.50E-03	1.96E-03	0	9.83E-03	0.04
354	PPG, DX49P, DELTA SUPER ACCELERATOR	1.00E-03	0.60	7.38E-05	0	3.45E-04	0	4.18E-04	1.83E-03
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	1.75E-04	0.60	4.12E-05	0	3.29E-04	0	3.70E-04	1.62E-03
424	PPG, DX320G, 901 Pre-Paint Cleaner	4.73E-03	0.60	0	2.53E-03	0	0	2.53E-03	0.01
26	PPG, DCX61G, HI SOLIDS HARDENER	9.55E-03	0.60	0	0	0	0	0	0
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	4.77E-04	0.60	3.12E-05	0	1.46E-04	0	1.77E-04	7.75E-04
327	PPG, DCH3070Q, URETHANE HARDENER	9.23E-03	0.60	2.44E-03	0	0.01	0	0.02	0.07
326	PPG, NCX2200Q, 2K NON-ISO SEALER HARDENE	7.85E-04	0.60	0	0	3.89E-05	0	3.89E-05	1.70E-04
425	PPG, DX578OZ, Basecoat Activator	5.23E-04	0.60	0	1.37E-04	0	2.73E-05	1.64E-04	7.17E-04
416	PPG, DBC500Q, Color Blender	2.38E-04	0.60	1.11E-05	1.11E-05	5.53E-05	0	7.75E-05	3.39E-04
422	PPG, DX1787G, ETCHING FILLER	3.51E-04	0.60	1.77E-05	0	5.32E-05	0	7.09E-05	3.11E-04
	Subtotal worse case coating			**2.44E-03**	**1.37E-04**	**0.01**	**2.73E-05**	**0.02**	**0.08**
	Total Worst Case (lb/hr)			**4.88E-03**	**2.73E-04**	**0.03**	**5.46E-05**	**3.45E-02**	**1.51E-01**
	Total Worst Case (ton/yr)			**0.02**	**1.20E-03**	**0.13**	**2.39E-04**	**0.13**	**0.15**

METHODOLOGY
MIK = Methyl isobutyl ketone
MMA = Methyl methacrylate
HDI = Hexamethylene 1,6-Diisocyanate
DBP = Dibutylphthalate
MC = Methylene Chloride
PTE of HAP (lbs/hr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of HAP (tons/yr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)

Appendix A: Emissions Calculations
HAPs
PPL

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Styrene (lbs/hr)	PTE of MIK (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
409	DYNATRON, 550, GREY AUTOMOTIVE SEAM SEALER	0.33	0.01	0	0	0	0	0	0	0
30	PPG, DX103G, MULTI-PREP	0.02	0.01	0	0	0	0	0	0	0
5002	Accumetric Seam Sealer 18876	0.33	0.01	2.71E-03	0	0	0	0.01	0.01	0.02
7	PPG, DX330G, WAX AND GREASE REMOVER	0.03	0.01	0	0	0	2.44E-05	0	2.44E-05	4.88E-05
407	TCI PRODUCTS, 19055, WAX AND GREASE REMOVER	0.42	0.01	0	0	0	1.33E-03	0	1.33E-03	2.66E-03
			Subtotal worse case coating	**2.71E-03**	**0**	**0**	**2.44E-05**	**0.01**	**0.01**	**0.02**
PPL Line Primer Booth (20014)										
1	PPG, DP50LF, Gray Epoxy Primer	0.14	0.01	9.52E-05	0	4.76E-04	4.76E-04	4.76E-04	1.52E-03	6.67E-03
3	PPG, DT885G, Non-Sanding Epoxy Primer Light Gray (Lead Free)	0.27	0.01	1.89E-04	0	6.55E-04	2.84E-03	1.42E-03	5.10E-03	0.02
330	PPG, DP90LF Epoxy Primer	0.28	0.01	0	0	2.29E-03	9.17E-04	9.17E-04	4.13E-03	0.02
322	PPG, DT870G, REDUCER	0.07	0.01	4.77E-05	0	0	9.54E-04	2.49E-04	1.25E-03	5.48E-03
421	BASF, DP402LFG, Epoxy Primer Catalyst	0.08	0.01	0	0	0	3.22E-04	0	3.22E-04	1.41E-03
422	PPG, DX1787G, ETCHING FILLER	3.00E-03	0.01	2.53E-06	0	0	0	7.58E-06	1.01E-05	4.43E-05
25	PPG, K201Q, PRIMER SURFACER CATALYST	5.00E-03	0.01	0	0	0	0	2.04E-05	2.04E-05	8.92E-05
9	PPG, K36G, ACRYLIC URETHANE PRIMER SURFACER	0.03	0.01	1.17E-04	0	0	0	5.86E-04	7.03E-04	3.08E-03
10	PPG, K38G, HIGH BUILD PRIMER SURFACER	0.02	0.01	5.96E-05	0	0	5.96E-05	2.98E-04	4.18E-04	1.83E-03
357	PPG, NCS2004G, DELTRON PRIMER SEALER-GRA	2.50E-04	0.01	3.00E-06	0	0	0	8.99E-07	3.90E-06	1.71E-05
406	U.S. CHEMICAL & PLASTICS, 12050, KROMATE LIGHT-Easy Sanding	0.09	0.01	0	1.74E-03	0	0	0	1.74E-03	7.62E-03
			Subtotal worse case coating	**4.77E-05**	**0**	**2.29E-03**	**2.19E-03**	**1.17E-03**	**5.70E-03**	**0.02**

Appendix A: Emissions Calculations
HAPs
PPL

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

PPL Line	(Paint Booth # 20014)									
5001	DCC Track Black	0.04	0.01	3.05E-04	0	0	0	1.22E-03	1.53E-03	6.68E-03
322	DT 870	0.02	0.01	1.31E-05	0	0	2.63E-04	6.87E-05	3.44E-04	1.51E-03
26	DCX 61 Hardner	0.01	0.01	0	0	0	0	0	0	0
7	Accessory Solvent - DX 330 Wax Remover	0.01	0.01	0	0	0	1.08E-05	0	1.08E-05	4.75E-05
362	ROYAL ADHESIVES AND SEALANTS, DC12239, HYDRA FAST-EN ADHESIVE	0.01	0.01	0	0	0	0	0	0	0
410	66003, Acetone	0.22	0.01	0	0	0	0	0	0	0
427	PLASTI-KOTE, M1, FLAT BLACK PAINT	0.03	0.01	0	0	0	0	2.67E-04	2.67E-04	1.17E-03
428	PLASTI-KOTE, M2, FLAT BLACK PAINT	0.01	0.01	0	0	0	0	9.17E-05	9.17E-05	4.02E-04
416	PPG, DBC500Q, Color Blender	2.00E-03	0.01	1.55E-06	0	0	1.55E-06	7.75E-06	1.09E-05	4.75E-05
8	PPG, DC3000G, HIGH VELOCITY CLEARCOAT	0.16	0.01	3.73E-04	1.24E-04	0	3.73E-04	3.11E-03	3.98E-03	0.02
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	1.00E-03	0.01	3.92E-06	7.84E-07	5.88E-06	0	3.14E-05	4.19E-05	1.84E-04
6	PPG, DMC900G, STRONG WHITE	0.03	0.01	2.91E-05	0	0	0	8.74E-05	1.17E-04	5.10E-04
241	PPG, DMC901G, STRONG TINTING BLACK	7.00E-03	0.01	1.77E-05	0	0	0	4.44E-05	6.21E-05	2.72E-04
242	PPG, DMC902, CARBON BLACK	1.00E-03	0.01	8.39E-07	0	0	0	2.52E-06	3.36E-06	1.47E-05
17	PPG, DMC903Q, WEAK TINTING BLACK	8.00E-03	0.01	6.70E-06	0	0	0	2.01E-05	2.68E-05	1.17E-04
256	PPG, DMC921G, HIGH COLOR BLACK	2.50E-03	0.01	6.26E-06	0	0	0	3.13E-05	3.76E-05	1.65E-04
263	PPG, DMC928Q, WEAK TINTING YELLOW OXIDE	1.00E-03	0.01	8.46E-07	0	0	0	2.54E-06	3.38E-06	1.48E-05
312	PPG, DMC981Q, CONCEPT FINE ALUMINUM	3.00E-04	0.01	7.35E-07	0	0	0	6.13E-06	6.86E-06	3.01E-05
285	PPG, DMD1605Q, MAGENTA	2.00E-03	0.01	1.57E-06	0	0	0	2.36E-05	2.52E-05	1.10E-04
286	PPG, DMD1606Q, PERYLENE MAROON	8.00E-03	0.01	6.92E-06	0	0	0	5.19E-05	5.88E-05	2.58E-04
287	PPG, DMD1607Q, PHTHALO BLUE	3.00E-03	0.01	7.16E-06	0	0	0	3.58E-05	4.30E-05	1.88E-04
288	PPG, DMD1609Q, QUINDO VIOLET BC	1.00E-03	0.01	7.97E-07	0	0	0	5.98E-06	6.77E-06	2.97E-05
289	PPG, DMD1610Q, TRANSPARENT ORANGE	4.39E-04	0.01	3.61E-07	0	0	0	2.71E-06	3.07E-06	1.35E-05
290	PPG, DMD1675Q, PHTHALO BLUE	4.00E-03	0.01	9.50E-06	0	0	0	1.43E-04	1.52E-04	6.66E-04
291	PPG, DMD1676Q, GREEN SHADE PHTHALO BLUE	1.88E-04	0.01	7.48E-07	0	0	0	2.99E-06	3.74E-06	1.64E-05
292	PPG, DMD1677Q, SCARLET RED	1.44E-03	0.01	5.75E-06	0	0	0	1.15E-05	1.72E-05	7.55E-05
294	PPG, DMD1679Q, QUINDO RED	6.27E-04	0.01	2.45E-06	0	0	0	4.90E-06	7.35E-06	3.22E-05
15	PPG, DMD1680Q, DELTRON 2000 FINE ALUMINU	0.02	0.01	1.28E-05	0	0	0	8.99E-05	1.03E-04	4.50E-04
16	PPG, DMD1681Q, DELTRON 2000 MEDIUM ALUMI	0.02	0.01	1.40E-05	0	0	0	9.78E-05	1.12E-04	4.90E-04
296	PPG, DMD1682Q, COARSE ALUMINUM	0.01	0.01	5.05E-05	0	0	0	1.01E-04	1.51E-04	6.64E-04
297	PPG, DMD1683G, BLACK MIXING BASE	0.02	0.01	3.44E-04	0	1.15E-04	0	1.72E-04	6.30E-04	2.76E-03
298	PPG, DMD1684G, BASECOAT WHITE	0.02	0.01	1.08E-04	0	0	0	2.16E-04	3.23E-04	1.42E-03
299	PPG, DMD1686G, FINE SATIN ALUMINUM	5.00E-04	0.01	1.18E-06	0	0	0	2.95E-06	4.13E-06	1.81E-05
300	PPG, DMD1687G, MEDIUM SATIN ALUMINUM	4.77E-03	0.01	1.87E-05	0	0	0	3.75E-05	5.62E-05	2.46E-04
301	PPG, DMD1690G, COARSE SATIN ALUMINUM	3.51E-03	0.01	1.38E-05	0	0	0	2.76E-05	4.14E-05	1.81E-04
302	PPG, DMD1693Q, PHTHALO GREEN	5.02E-04	0.01	2.00E-06	0	0	0	8.01E-06	1.00E-05	4.39E-05
303	PPG, DMD1694Q, PERRINDO MAROON	5.00E-03	0.01	1.97E-05	0	0	0	3.94E-05	5.90E-05	2.59E-04
419	PPG, DMD1696Q, DELTRON MIXING BASES	2.50E-04	0.01	1.19E-06	0	0	4.75E-06	4.75E-06	1.07E-05	4.68E-05
311	PPG, DMD1697Q, DBC MIXING SYSTEM	2.26E-03	0.01	1.07E-05	0	0	4.29E-05	4.29E-05	9.66E-05	4.23E-04
304	PPG, DMD1698Q, MEDIUM ALUMINUM GOLD	2.76E-03	0.01	1.10E-05	0	0	0	2.19E-05	3.29E-05	1.44E-04
305	PPG, DMD1699G, DELTRON MIXING BASES	2.50E-04	0.01	1.19E-06	0	0	4.75E-06	4.75E-06	1.07E-05	4.68E-05
273	PPG, DMD614Q, VAT BLUE URETHANE	3.26E-03	0.01	2.67E-06	0	0	8.01E-06	2.67E-06	1.33E-05	5.85E-05
276	PPG, DMD622Q, OPAQUE RED OXIDE URETHANE	2.50E-04	0.01	3.23E-07	0	0	6.46E-07	6.46E-07	1.61E-06	7.07E-06
277	PPG, DMD624Q, CARBOZOL VIOLET URETHANE	1.13E-03	0.01	9.19E-07	0	0	4.59E-06	9.19E-07	6.43E-06	2.82E-05
278	PPG, DMD641Q, TRANSPARENT YELLOW OXIDE	1.07E-03	0.01	9.23E-07	0	0	2.77E-06	2.77E-06	6.46E-06	2.83E-05
279	PPG, DMD642Q, LOW OPACITY YELLOW OXIDE	1.89E-04	0.01	1.68E-07	0	0	5.05E-07	5.05E-07	1.18E-06	5.16E-06
280	PPG, DMD646Q, WEAK WHITE	6.90E-04	0.01	6.06E-07	0	0	1.82E-06	1.82E-06	4.24E-06	1.86E-05
281	PPG, DMD648Q, WEAK BLACK DELTRON	1.25E-03	0.01	1.01E-06	0	0	3.04E-06	1.01E-06	5.07E-06	2.22E-05
420	PPG, DMD691Q, GRAPHITE BLACK	2.50E-04	0.01	2.14E-07	0	0	1.07E-06	1.07E-06	2.35E-06	1.03E-05
330	PPG, DP90LFG, EPOXY PRIMER	0.01	0.01	0	0	1.08E-04	4.31E-05	4.31E-05	1.94E-04	8.49E-04
18	PPG, DPX801Q, UNIVERSAL PLASTICS ADHESION PROMOTER	0.02	0.01	1.14E-05	0	0	2.29E-04	8.57E-05	3.26E-04	1.43E-03
425	PPG, DX578OZ, Basecoat Activator	3.14E-03	0.01	0	0	0	1.37E-05	0	1.37E-05	5.98E-05
306	PPG, DX685G, URETHANE FLATTENING AGENT	1.97E-03	0.01	0	0	0	4.85E-06	0	4.85E-06	2.12E-05
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	3.81E-03	0.01	4.15E-06	0	1.11E-04	0	1.94E-05	1.34E-04	5.88E-04
429	PPG, MEK-5, SATWIPES ® SW420185 Wipers,	0.03	0.01	0	0	0	0	0	0	0
332	PPG, PRL88, ORANGE PEARL	0.01	0.01	0	0	0	0	0	0	0
333	PPG, PRL89, VIOLET PEARL	3.30E-03	0.01	0	0	0	0	0	0	0
334	PPG, PRL90, SUNSET RED	1.68E-03	0.01	0	0	0	0	0	0	0
372	PPG, PRL91, PRL PEARL LINE	4.49E-03	0.01	0	0	0	0	0	0	0
335	PPG, PRL92, PEARL LINE	4.49E-03	0.01	0	0	0	0	0	0	0
336	PPG, PRL93, TINCTURE GOLD	5.05E-03	0.01	0	0	0	0	0	0	0
337	PPG, PRL94, BLUE GREEN PEARL	2.80E-04	0.01	0	0	0	0	0	0	0
338	PPG, PRL95, BRIGHT WHITE PEARL	2.80E-04	0.01	0	0	0	0	0	0	0
339	PPG, PRL96, RUSSET PEARL	3.93E-03	0.01	0	0	0	0	0	0	0
341	PPG, PRL98, FINE WHITE PEARL	3.93E-03	0.01	0	0	0	0	0	0	0
343	PPG, PRLX1, CRYSTAL RED PEARL	0.02	0.01	0	0	0	0	0	0	0
344	PPG, PRLX2, CRYSTAL SILVER PEARL	5.34E-03	0.01	0	0	0	0	0	0	0
346	PPG, PRLX4, CRYSTAL BLUE PEARL	1.68E-03	0.01	0	0	0	0	0	0	0
347	PPG, PRLX5, CRYSTAL GREEN PEARL	1.68E-03	0.01	0	0	0	0	0	0	0
348	PPG, PRLX6, CRYSTAL FROST RED PEARL	1.68E-03	0.01	0	0	0	0	0	0	0
349	PPG, PRLX7, CRYSTAL COPPER PEARL	1.68E-03	0.01	0	0	0	0	0	0	0
426	TCI PRODUCTS, IPA-55, ISOPROPYL ALCOHOL	0.03	0.01	0	0	0	0	0	0	0
			Subtotal worse case coating	**6.91E-04**	**1.24E-04**	**0**	**6.35E-04**	**4.40E-03**	**5.85E-03**	**0.03**

Appendix A: Emissions Calculations
HAPs
PPL

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

PPL Line Undercoating										
5004	Pure Asphalt 770	0.90	0.01	7.43E-03	0	0	0	0.03	0.04	0.16
5005	Evercoat Rubberized Aerosol	0.04	0.01	3.65E-04	0	0	0	1.46E-03	1.83E-03	8.00E-03
5006	PPG S-0900	0.28	0.01	2.29E-03	0	0	0	9.16E-03	0.01	0.05
			Total worse case coating	**9.72E-03**	**0**	**0**	**0**	**0.04**	**0.05**	**0.21**
			Total Worst Case (lb/hr)	**0.01**	**1.24E-04**	**2.29E-03**	**2.85E-03**	**0.06**	**0.07**	**0.29**
			Total Worst Case (ton/yr)	**0.06**	**5.44E-04**	**0.01**	**0.01**	**0.24**	**0.24**	**0.32**

Appendix A: Emissions Calculations
HAPs
Touch-Up 1-2

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

ID #	Material	Gal of Mat. (gal/unit)	Maximum (unit/hour)	PTE of Ethylbenzene (lbs/hr)	PTE of Toluene (lbs/hr)	PTE of Xylene (lbs/hr)	PTE of HDI (lbs/hr)	PTE of Total HAP (lbs/hr)	PTE of Total HAP (tons/yr)
Touch-Up Booth No. 1 (Plant #4) (8)									
417	PPG, DBX1689G, DELTRON 2000 BASECOAT CON	3.64E-03	1.25	6.83E-03	0	3.41E-03	0	0.01	0.04
298	PPG, DMD1684G, BASECOAT WHITE	2.48E-03	1.25	1.68E-03	0	3.36E-03	0	5.04E-03	0.02
282	PPG, DMD649G, CLEAR MIXING BASE	1.04E-03	1.25	1.05E-04	3.14E-04	1.05E-04	0	5.23E-04	2.29E-03
322	PPG, DT870G, REDUCER	9.04E-03	1.25	7.81E-04	0.02	4.08E-03	0	0.02	0.09
354	PPG, DX49P, DELTA SUPER ACCELERATOR	1.00E-03	1.25	1.54E-04	0	7.18E-04	0	8.72E-04	3.82E-03
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	1.75E-04	1.25	8.58E-05	0	6.86E-04	0	7.72E-04	3.38E-03
424	PPG, DX320G, 901 Pre-Paint Cleaner	4.73E-03	1.25	0	5.27E-03	0	0	5.27E-03	0.02
26	PPG, DCX61G, HI SOLIDS HARDENER	9.55E-03	1.25	0	0	0	0	0	0
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	4.77E-04	1.25	6.50E-05	0	3.03E-04	0	3.68E-04	1.61E-03
327	PPG, DCH3070Q, URETHANE HARDENER	9.23E-03	1.25	5.09E-03	0	0.03	0	0.04	0.16
326	PPG, NCX2200Q, 2K NON-ISO SEALER HARDENE	7.85E-05	1.25	0	0	8.10E-06	0	8.10E-06	3.55E-05
425	PPG, DX578OZ, Basecoat Activator	5.23E-04	1.25	0	2.84E-04	0	5.69E-05	3.41E-04	1.49E-03
416	PPG, DBC500Q, Color Blender	2.38E-04	1.25	2.31E-05	2.31E-05	1.15E-04	0	1.61E-04	7.07E-04
422	PPG, DX1787G, ETCHING FILLER	3.51E-04	1.25	3.69E-05	0	1.11E-04	0	1.48E-04	6.47E-04
	Subtotal worse case coating			**5.09E-03**	**2.84E-04**	**0.03**	**5.69E-05**	**0.04**	**0.16**
Touch-Up Booth No. 2 (Plant #4) (9)									
417	PPG, DBX1689G, DELTRON 2000 BASECOAT CON	3.64E-03	1.25	6.83E-03	0	3.41E-03	0	0.01	0.04
298	PPG, DMD1684G, BASECOAT WHITE	2.65E-03	1.25	1.79E-03	0	3.59E-03	0	5.38E-03	0.02
282	PPG, DMD649G, CLEAR MIXING BASE	1.04E-03	1.25	1.05E-04	3.14E-04	1.05E-04	0	5.23E-04	2.29E-03
322	PPG, DT870G, REDUCER	9.04E-03	1.25	7.81E-04	0.02	4.08E-03	0	0.02	0.09
354	PPG, DX49P, DELTA SUPER ACCELERATOR	1.00E-03	1.25	1.54E-04	0	7.18E-04	0	8.72E-04	3.82E-03
14	PPG, DC4000G, VELOCITY PREMIUM CLEARCOAT	1.75E-04	1.25	8.58E-05	0	6.86E-04	0	7.72E-04	3.38E-03
424	PPG, DX320G, 901 Pre-Paint Cleaner	4.73E-03	1.25	0	5.27E-03	0	0	5.27E-03	0.02
26	PPG, DCX61G, HI SOLIDS HARDENER	9.55E-03	1.25	0	0	0	0	0	0
321	PPG, DX840G, UNIVERSAL BLENDING SOLVENT	4.77E-04	1.25	6.50E-05	0	3.03E-04	0	3.68E-04	1.61E-03
327	PPG, DCH3070Q, URETHANE HARDENER	9.23E-03	1.25	5.09E-03	0	0.03	0	0.04	0.16
326	PPG, NCX2200Q, 2K NON-ISO SEALER HARDENE	7.85E-04	1.25	0	0	8.10E-05	0	8.10E-05	3.55E-04
425	PPG, DX578OZ, Basecoat Activator	5.23E-04	1.25	0	2.84E-04	0	5.69E-05	3.41E-04	1.49E-03
416	PPG, DBC500Q, Color Blender	2.38E-04	1.25	2.31E-05	2.31E-05	1.15E-04	0	1.61E-04	7.07E-04
422	PPG, DX1787G, ETCHING FILLER	3.51E-04	1.25	3.69E-05	0	1.11E-04	0	1.48E-04	6.47E-04
	Subtotal worse case coating			**5.09E-03**	**2.84E-04**	**0.03**	**5.69E-05**	**0.04**	**0.16**
	Total Worst Case (lb/hr)			**0.01**	**5.69E-04**	**0.06**	**1.14E-04**	**0.07**	**0.32**
	Total Worst Case (ton/yr)			**0.04**	**2.49E-03**	**0.27**	**4.98E-04**	**0.27**	**0.32**

METHODOLOGY
MIK = Methyl isobutyl ketone
MMA = Methyl methacrylate
HDI = Hexamethylene 1,6-Diisocyanate
DBP = Dibutylphthalate
MC = Methylene Chloride
PTE of HAP (lbs/hr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr)
PTE of HAP (tons/yr) = Weight Percent HAP (%) * Gal of Material (gals/unit) * Maximum (units/hr) * (8,760 hr/yr) * (1 ton/2,000 lbs)

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Facility	Number of units	MMBtu/hr	Total Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMCF/yr)
Existing Units				
Touch-up Oven No. 1	1.00	1.00	1.00	8.76
Touch-up Oven No. 2	1.00	1.00	1.00	8.76
Powder Coating Oven (plant 3)	1.00	2.00	2.00	17.52
Burn off oven (Plant 3)	1.00	1.56	1.56	13.67
Space heating units	1.00	26.00	26.00	227.76
Powder Coat Wash Line Stage 3	1.00	1.00	1.00	8.76
Eight (8) prep/prime/paint units	8.00	1.00	8.00	70.08
Three (3) paint ovens	3.00	2.00	6.00	52.56
Existing Unit Total		**35.56**	**46.56**	**407.87**
New Units				
Car port space heaters	*3.00*	*0.60*	*1.80*	*15.77*
New Unit Total		***0.60***	***1.80***	***15.77***
Mod. Site Total		**36.16**	**48.36**	**423.63**

		Pollutant						
Emission Factor in lb/MMCF		PM* 1.90	PM10* 7.60	PM10* 7.60	SO2 0.60	NOx 100.00 **see below	VOC 5.50	CO 84.00
Potential Emission in tons/yr	Existing Units	0.39	1.55	1.55	0.12	20.39	1.12	17.13
	New Units	*0.01*	*0.06*	*0.06*	*4.73E-03*	*0.79*	*0.04*	*0.66*
	Site Total	0.40	1.61	1.61	0.13	21.18	1.16	17.79

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

		HAPs - Organics					
		Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	**Total - Organics**
Emission Factor in lb/MMcf		2.10E-03	1.20E-03	0.08	1.80	3.40E-03	
Potential Emission in tons/yr	Existing Units	4.28E-04	2.45E-04	0.02	0.37	6.93E-04	**0.38**
	New Units	*1.66E-05*	*9.46E-06*	*5.91E-04*	*0.01*	*2.68E-05*	**0.01**
	Site Total	4.45E-04	2.54E-04	0.02	0.38	7.20E-04	**0.40**

		HAPs - Metals					
		Lead	Cadmium	Chromium	Manganese	Nickel	**Total - Metals**
Emission Factor in lb/MMcf		5.00E-04	1.10E-03	1.40E-03	3.80E-04	2.10E-03	
Potential Emission in tons/yr	Existing Units	1.02E-04	2.24E-04	2.86E-04	7.75E-05	4.28E-04	**0.38**
	New Units	*3.94E-06*	*8.67E-06*	*1.10E-05*	*3.00E-06*	*1.66E-05*	***0.01***
	Site Total	1.06E-04	2.33E-04	2.97E-04	8.05E-05	4.45E-04	**0.40**

	Total HAPs (tons/yr)	**Worst HAP (tons/yr)**
Existing Units	0.77	0.37
New Units	0.03	0.01
Site Total	0.80	0.38

METHODOLOGY

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations
Burn Off Oven

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Throughput (lbs/hr)	Throughput ton/yr
8.00	35.04

	Pollutant						
	PM	PM10	PM2.5	SO2	CO	VOC	NOx
Emission Factor in lb/ton	7.00	7.00	7.00	2.50	10.00	3.00	3.00
Potential Emissions in ton/yr	0.12	0.12	0.12	0.04	0.18	0.05	0.05

METHODOLOGY
Emission factors are from AP 42 (5th Edition 1/95) Table 2.1-12, Uncontrolled emission factors for industrial/commercial refuse combustors, multiple chambers
Throughput (lb/hr) * 8760 hr/yr * ton/2000 lb = throughput (ton/yr)

Appendix A: Emissions Calculations Welding
Welding

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

WELDING	Number of Stations	Max. electrode consumption (total) (lbs/hr)	EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
			PM = PM10 = PM2.5	Mn	Ni	Cr	PM = PM10 = PM2.5	Mn	Ni	Cr	
Stick (E7018 electrode)	6.00	65.00	0.02	9.00E-04	0	0	1.37	0.06	0	0	0.06

CUTTING	Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick)**				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
				PM = PM10 = PM2.5	Mn	Ni	Cr	PM = PM10 = PM2.5	Mn	Ni	Cr	
Plasma**	7.00	0.50	40.00	3.90E-03	0	0	0	0.07	0	0	0	0

EMISSION TOTALS	PM = PM10 = PM2.5	Mn	Ni	Cr	HAPS
Potential Emissions lbs/hr	1.37	0.06	0	0	0.06
Potential Emissions lbs/day	32.92	1.40	0	0	1.40
Potential Emissions tons/year	6.01	0.26	0	0	0.26

METHODOLOGY

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

**Emission Factor for plasma cutting from American Welding Society (AWS). Trials reported for wet cutting of 8 mm thick mild steel with 3.5 m/min cutting speed (at 0.2 g/min emitted). Therefore, the emission factor for plasma cutting is for 8 mm thick r

Using AWS average values: (0.25 g/min)/(3.6 m/min) x (0.0022 lb/g)/(39.37 in./m) x (1,000 in.) = 0.0039 lb/1,000 in. cut, 8 mm thick

Plasma cutting emissions, lb/hr: (# of stations)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 8 mm thick)

Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 1" thick)

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs.

Assuming only worst case welding process is used

Used plasma cutting emission factors for laser cutting emissions

Appendix A: Emission Calculations
Electrostatic Coating Booth / Powder Coating

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material Name	Weight Percent Solids	Maximum Powder Throughput (lbs/hr)	Application Method	Transfer Efficiency	Maximum Overspray Rate (lbs/hr)	Maximum Overspray Rate (tons/yr)	Filter Control Efficiency	PTE for PM/PM10/PM2.5 (lbs/hr)	PTE for PM/PM10/PM2.5 (tons/yr)
Powder Coating	100%	81.60	Electrostatic	0.65	28.56	125.09	95.00%	1.43	6.25

Methodology
The coating powder material does not contain VOC or HAPs.
Maximum Overspray Rate (lbs/hr) = Maximum Powder Throughput (lbs/hr) * (1 - Transfer Efficiency)
Maximum Overspray Rate (tons/yr) = Maximum Overspray Rate (lbs/hr) * (8760 hrs/yr) * (1 ton / 2000 lbs)
PTE of PM/PM10 (lbs/hr) = Maximum Powder Throughput (lbs/hr) x Weight Percent Solids x (1- Transfer Efficiency) x (1- Control Efficiency)
PTE of PM/PM10 (tons/yr) = PTE of PM/PM10 (lbs/hr) * (8760 hrs/yr) * (1 ton / 2000 lbs)

Appendix A: Emissions Calculations
VOC Emissions - Lift Assembly

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	lbs of material per unit	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	lb VOC/gal solids	Transfer Efficiency
Isopropanol	6.50	100.00%	0	1.00	0	0.00%	0.02	4.78	6.50	6.50	0.56	13.42	2.45	NA	100%
Rapid Tac II	8.34	1.80%	0	0.02	0	86.20%	0.05	0.43	0.15	0.15	3.23E-03	0.08	0.01	NA	100%
										Total Emissions	**0.56**	**13.50**	**2.46**		

No HAPs

Appendix A: Emissions Calculations
Two (2) Insignificant Degreaser

Company Name:	The Braun Corporation
Address City IN Zip:	623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.:	131-36413-00017
Significant Permit Modification No.:	131-36425-00017
Reviewer:	Thomas Olmstead

In order for the degreaser to qualify as an insignificant activity under the listing in 326 IAC 2-7-1(21)(J)(vi)(DD), the source shall use solvents "the use of which, for all cleaners and solvents combined, does not exceed one hundred forty-five (145) gallons per twelve (12) months".

Based on a review of the solvents most widely supplied for the industry by Crystal Clean and Safety-Kleen, the following PTE is based on the following conservative estimates:

The solvent has a maximum density of 6.7 lb/gal.
The solvent used in the degreaser contains 100% VOC and up to 0.2% HAP (tetrachloroethylene).
Utilized MSDS for Safety-Kleen 105 Recycled Solvent as worse case HAP content: http://www.safety-kleen.com/msds/82310rev8-21-09.pdf

Uncontrolled Potential Emissions (per each degreaser)

14.40	lb/gal x	100.00	% VOC x	145.00	gal/yr ÷	2,000.00	lb/ton =	1.04 tons VOC per year
				1.04	tpy VOC x	0.20	% HAP =	2.09E-03 tons HAP per year

Appendix A: Emission Calculations
Compliance Assurance Monitoring (CAM) Applicability

Company Name: The Braun Corporation
Address City IN Zip: 623 W. 11th Street, Winamac, Indiana 46996
Significant Source Modification No.: 131-36413-00017
Significant Permit Modification No.: 131-36425-00017
Reviewer: Thomas Olmstead

Process/ Emission Units	Pollutant	Control Device	Emission Limitation (Applicable Rule)	Control Device necessary to comply with limit?	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	CAM Applicable	Large Unit
Prep No. 1 (Prep 20012)	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (5)	N
	PM10			Yes	< 100	< 100	N (5)	N
	PM2.5			Yes	< 100	< 100	N (5)	N
Bldg 6 Prime No. 1 (Prime 20019)	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (5)	N
	PM10			Yes	< 100	< 100	N (5)	N
	PM2.5			Yes	< 100	< 100	N (5)	N
Bldg 6 Un. No. 1	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (5)	N
	PM10			Yes	< 100	< 100	N (5)	N
	PM2.5			Yes	< 100	< 100	N (5)	N
Bldg 6 (Paint 20018)	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (5)	N
	PM10			Yes	< 100	< 100	N (5)	N
	PM2.5			Yes	< 100	< 100	N (5)	N
WAV-3	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (5)	N
	PM10			Yes	< 100	< 100	N (5)	N
	PM2.5			Yes	< 100	< 100	N (5)	N
WAV-3 (39038)	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (5)	N
	PM10			Yes	< 100	< 100	N (5)	N
	PM2.5			Yes	< 100	< 100	N (5)	N
WAV-2	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (5)	N
	PM10			Yes	< 100	< 100	N (5)	N
	PM2.5			Yes	< 100	< 100	N (5)	N
WAV-2 (Booth 39040)	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (5)	N
	PM10			Yes	< 100	< 100	N (5)	N
	PM2.5			Yes	< 100	< 100	N (5)	N
WAV-1	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (5)	N
	PM10			Yes	< 100	< 100	N (5)	N
	PM2.5			Yes	< 100	< 100	N (5)	N
WAV-4	PM*	Dry Filters	326 IAC 6-3-2	Yes	< 100	< 100	N (5)	N
	PM10			Yes	< 100	< 100	N (5)	N
	PM2.5			Yes	< 100	< 100	N (5)	N

Notes:
Uncontrolled PTE (tpy) and controlled PTE (tpy) are evaluated against the Major Source Threshold for each pollutant. Where the Major Source Threshold for criteria pollutants (PM10, PM2.5, SO2, NOX, VOC and CO) is PM* : PM is limited as a surrogate for a Part 70 regulated pollutant, PM10. The uncontrolled PTE and controlled PTE reflect the emissions of the PM10.
Controls: BH = Baghouse, C = Cyclone, DC = Dust Collection System, RTO = Regenerative or Recuperative Thermal Oxidizer, WS = Wet Scrubber
1. PM is not a regulated pollutant.
2. The control device is not required to comply with the applicable emission limitation or standard. Therefore, based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable.
3. A continuous compliance determination method, which provides data either in units of the standard or correlated directly to the compliance limit, is already specified in the Part 70 permit. Therefore, it is exempt from the
4. Emission limitations or standards pursuant to a post November 15, 1990 NESHAP or NSPS are exempt from the requirements of 40 CFR Part 64, CAM. Therefore, an evaluation was not conducted for any applicable
5. Has a PTE before controls less than the major source threshold for the pollutant involved, or is not subject to an emission limitation for the pollutant involved, or is not equipped with a control device for the pollutant
Note: No insignificant activities were evaluated as these units would have uncontrolled emissions less than the major source thresholds.
Note: An evaluation for emission units without controls was not conducted.
Note: Several units at the source have controls that have been determined to be inherent to the process. These units were not evaluated as part of this CAM analysis. See the Air Pollution Control Justification as an

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Michael R. Pence
Governor

Carol S. Comer
Commissioner

January 22, 2016

Mr. John Bawcum
The Braun Corporation
623 W 11th Street
Winamac, IN 46996

Re: Public Notice
The Braun Corporation
Permit Level: Title V - Significant Source Modification & Title V - Significant Permit Modification
Permit Number: 131 - 36413 - 00017 & 131 - 36425 - 00017

Dear Mr. Bawcum:

Enclosed is a copy of your draft Title V - Significant Source Modification & Title V - Significant Permit Modification, Technical Support Document, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has prepared two versions of the Public Notice Document. The abbreviated version will be published in the newspaper, and the more detailed version will be made available on the IDEM's website and provided to interested parties. Both versions are included for your reference. The OAQ has requested that the Pulaski County Journal in Winamac, Indiana publish the abbreviated version of the public notice no later than January 22, 2016. You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper.

OAQ has submitted the draft permit package to the Pulaski Co Public Library 121 S Riverside Dr in Winamac IN. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Thomas Olmstead, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 3-9664 or dial (317) 233-9664.

Sincerely,
Len Pogost

Len Pogost
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover letter 8/27/2015

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Commissioner

ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

January 21, 2016

Pulaski County Journal
Attn: Classifieds
P.O. Box 19
Winamac, Indiana 46996

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for The Braun Corporation, Pulaski County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than January 27, 2016.

Please send a notarized form, clippings showing the date of publication, and the billing to the Indiana Department of Environmental Management, Accounting, Room N1345, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

To ensure proper payment, please reference account # 100174737.

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call Len Pogost at 800-451-6027 and ask for extension 3-2803 or dial 317-233-2803.

Sincerely,

Len Pogost

Len Pogost
Permit Branch
Office of Air Quality

Permit Level: Title V - Significant Source Modification & Title V - Significant Permit Modification
Permit Number: 131 - 36413 - 00017 & 131 - 36425 - 00017

Enclosure
PN Newspaper.dot 6/13/2013

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Carol S. Comer
Commissioner

January 22, 2016

To: Pulaski Co Public Library 121 S Riverside Dr Winamac IN

From: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: The Braun Corporation
Permit Number: 131 - 36413 - 00017 & 131 - 36425 - 00017

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Request to publish the Notice of 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library.dot 8/27/2015

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Notice of Public Comment

January 22, 2016
The Braun Corporation
131 - 36413 - 00017 & 131 - 36425 - 00017

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN AAA Cover.dot 8/27/2015

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AFFECTED STATE NOTIFICATION OF PUBLIC COMMENT PERIOD
DRAFT INDIANA AIR PERMIT

January 22, 2016

A 30-day public comment period has been initiated for:

Permit Number: **131 - 36413 - 00017 & 131 - 36425 - 00017**
Applicant Name: **The Braun Corporation**
Location: **Winamac, Pulaski County, Indiana**

The public notice, draft permit and technical support documents can be accessed via the **IDEM Air Permits Online** site at:
http://www.in.gov/ai/appfiles/idem-caats/

Questions or comments on this draft permit should be directed to the person identified in the public notice by telephone or in writing to:

Indiana Department of Environmental Management
Office of Air Quality, Permits Branch
100 North Senate Avenue
Indianapolis, IN 46204

Questions or comments regarding this email notification or access to this information from the EPA Internet site can be directed to Chris Hammack at chammack@idem.IN.gov or (317) 233-2414.

Mail Code 61-53

IDEM Staff	LPOGOST 1/22/2016 The Braun Corporation 131 - 36413 - 00017 & 131 - 36425 - 00017 draft		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee / Remarks
1		John Bawcum The Braun Corporation 623 W 11th Street Winamac IN 46996 (Source CAATS)									
2		Nicholas A Gutwein President The Braun Corporation 623 W 11th Street Winamac IN 46996 *(RO CAATS)*									
3		Francesville Town Council PO Box 616, 100 North Brooks Francesville IN 47946 *(Local Official)*									
4		Mr. Gary Hanner Hanner Hanner & Hanner P.O. Box 122 Rockville IN 47872 *(Affected Party)*									
5		Pulaski County Commissioners 112 East Main Street, Rm 200 Winamac IN 46996 *(Local Official)*									
6		Winamac Town Council and Town Manager 120 West Main Street Winamac IN 46996 *(Local Official)*									
7		Pulaski County Health Department 125 S. Riverside Dr, County Bldg, Suite 205 Winamac IN 46996-1528 *(Health Department)*									
8		Pulaski Co Public Library 121 S Riverside Dr Winamac IN 46996-1596 *(Library)*									
9		Jim Euler DECA Environmental & Associates, Inc. 410 1st Ave. NE Carmel IN 46032 *(Consultant)*									
10											
11											
12											
13											
14											
15											

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is $50,000 per piece subject to a limit of $50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is $500. The maximum indemnity payable is $25,000 for registered mail, sent with optional postal insurance. See ***Domestic Mail Manual*** **R900, S913**, and **S921** for limitations of coverage on inured and COD mail. See ***International Mail Manual*** for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.

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