



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM**

PLAN APPROVAL

Issue Date:	April 25, 2023	Effective Date:	September 28, 2026
Revision Date:	September 1, 2026	Expiration Date:	March 28, 2027
Revision Type:	Extension		

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

[Plan Approval No. 63-00995](#)

Federal Tax Id - Plant Code: 25-1210576-1

Owner Information

Name: W G TOMKO INC
Mailing Address: 2559 STATE ROUTE 88
FINLEYVILLE, PA 15332-3504

Plant Information

Plant: WG TOMKO INC/HEADQUARTERS
Location: 63 Washington County 63960 Union Township
SIC Code: 1442 Mining - Construction Sand And Gravel

Responsible Official

Name: WILLIAM G TOMKO
Title: PRESIDENT
Phone: (724) 348 - 2000 Ext.1618 Email: wtomko@wgtomko.com

Plan Approval Contact Person

Name: STEFAN CLAIR
Title: SAFETY DIR
Phone: (724) 348 - 2000 Ext.1618 Email: sclair@wgtomko.com

[Signature] _____

MARK R. GOROG, P.E., ENVIRONMENTAL PROGRAM MANAGER, SOUTHWEST REGION



Plan Approval Description

The subject of this Plan Approval is for the post-construction permitting of a surface coating booth, an abrasive blasting booth, a glue station, twelve (12) welding stations, a plasma and torch cutting source, parts washers and two (2) waste oil heaters. The Finleyville facility performs HVAC component assembly and oil and gas industry component manufacturing. This operation is at 2559 PA-88, Finleyville, PA 15332-3504, in Union Township, Washington County, latitude 40.246019, longitude -80.003015 degrees. This application was received at the Department on April 6, 2022.



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Note: These same sub-sections are repeated for each source!

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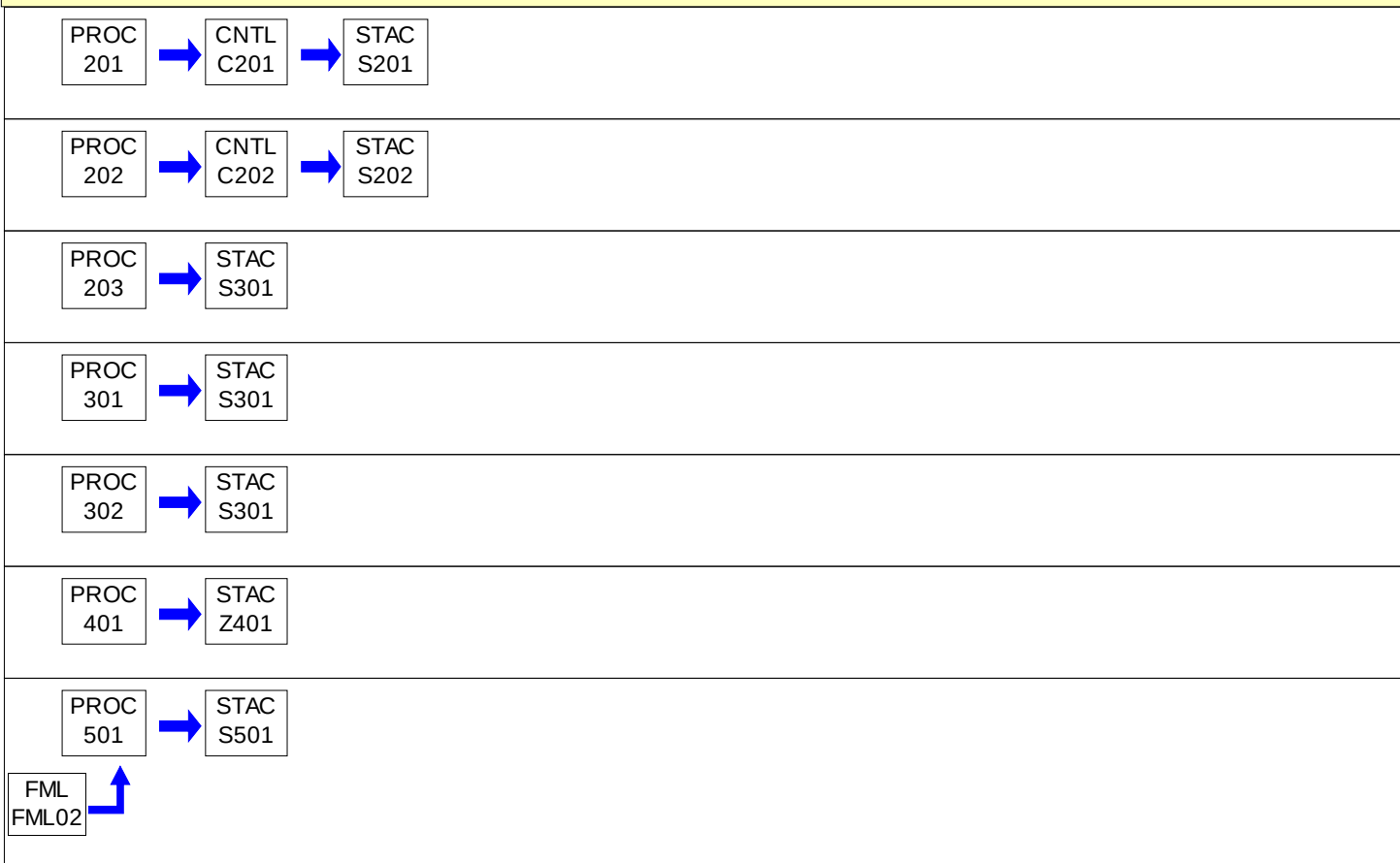
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**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
201	SPRAY BOOTH #1	0.500 Gal/HR	VOC EMISSIONS
202	ABRASIVE BLASTING BOOTH	150.000 Lbs/HR	ABRASIVE GRIT MEDIA
203	GLUE STATION	0.040 Gal/HR	ADHESIVE
301	WELDING STATIONS (12)	0.001 TH LBS/HR	WELDING ELECTRODE
302	PLASMA AND TORCH CUTTING STATION	0.020 Gal/HR	
401	PARTS WASHERS (2)	0.080 Lbs/HR	SOLVENT
501	WASTE OIL HEATERS (2)(0.50 MMBTU/HR EACH)	3.300 Gal/HR	Waste Oil
C201	BOOTH #1 FILTER PANELS		
C202	BLASTING BOOTH BAGHOUSE (14,000 CFM)		
FML02	WASTE OIL STORAGE TANK		
S201	SPRAY BOOTH STACK		
S202	BLASTING BOOTH STACK		
S301	FACILITY EXHAUST STACK		
S501	WASTE OIL STACK		
Z401	PARTS WASHERS FUGITIVE EMISSIONS		

PERMIT MAPS

**SECTION B. General Plan Approval Requirements****#001 [25 Pa. Code § 121.1]****Definitions**

Words and terms that are not otherwise defined in this plan approval shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.12b (a) (b)]**Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

#003 [25 Pa. Code § 127.12b]**Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 30 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#004 [25 Pa. Code § 127.12(a) (10)]**Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]**Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

**SECTION B. General Plan Approval Requirements**

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

#006 [25 Pa. Code § 127.12b]**Plan Approval Terms and Conditions**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

#007 [25 Pa. Code § 127.32]**Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

#008 [25 Pa. Code § 127.12(a)(4) & 35 P.S. § 4008 & § 114 of the CAA]**Inspection and Entry**

(a) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

**SECTION B. General Plan Approval Requirements**

(c) Nothing in this plan approval condition shall limit the ability of the Environmental Protection Agency to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#009 [25 Pa. Code 127.13a]**Plan Approval Changes for Cause**

This plan approval may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

(a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.

(b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(c) The permittee fails to submit a report required by this plan approval.

(d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

#010 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

(a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#011 [25 Pa. Code § 127.12c]**Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager

PA Department of Environmental Protection

(At the address given on the plan approval transmittal letter or otherwise notified)

#012 [25 Pa. Code § 127.12(a)(9) & 40 CFR Part 68]**Risk Management**

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

**SECTION B. General Plan Approval Requirements**

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or the Environmental Protection Agency concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this plan approval condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

#013 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. §§ 4001-4015).

#014 [25 Pa. Code § 127.25]**Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.

**SECTION C. Site Level Plan Approval Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §121.7]****Prohibition of air pollution.**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P. S. § 4001—4015).

002 [25 Pa. Code §123.1]**Prohibition of certain fugitive emissions**

a) No person may permit the emission into the outdoor atmosphere of fugitive air contaminant from a source other than the following:

(1) Construction or demolition of buildings or structures.

(2) Grading, paving and maintenance of roads and streets.

(3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.

(4) Clearing of land.

(5) Stockpiling of materials.

(6) Open burning operations.

(7) Not Applicable.

(8) Not Applicable.

(9) Sources and classes of sources other than those identified in paragraphs (1)-(8), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

(i) the emissions are of minor significance with respect to causing air pollution; and

(ii) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

(b) An application form for requesting a determination under either subsection (a)(9) or §129.15(c) is available from the Department. In reviewing these applications, the Department may require the applicant to supply information including, but not limited to, a description of proposed control measures, characteristics of emissions, quantity of emissions, and ambient air quality data and analysis showing the impact of the source on ambient air quality. The applicant shall be required to demonstrate that the requirements of subsections (a)(9) and (c) and §123.2 (relating to fugitive particulate matter) or of the requirements of §129.15(c) have been satisfied. Upon such demonstration, the Department will issue a determination, in writing, either as an operating permit condition, for those sources subject to permit requirements under the act, or as an order containing appropriate conditions and limitations.

(c) [Paragraph (c) is printed under Work Practice Requirements in this section of permit.]

(d) Not Applicable.

003 [25 Pa. Code §123.2]**Fugitive particulate matter**

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code §123.1(a)(1) through (a)(8) [Condition #002 above] (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

**SECTION C. Site Level Plan Approval Requirements****# 004 [25 Pa. Code §123.31]****Limitations**

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

005 [25 Pa. Code §123.41]**Limitations**

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (1) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.
- (2) Equal to or greater than 60% at any time.

006 [25 Pa. Code §123.42]**Exceptions**

The limitations of §123.41 (relating to limitations) shall not apply to a visible emission in any of the following instances:

- (1) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (3) When the emission results from sources specified in 25 Pa. Code §123.1(a)(1) through (9) [Condition #002] (relating to prohibition of certain fugitive emissions).
- (4) [Not applicable]

007 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Total VOC emissions of all surface coating operations, including wipe down and cleanup solvents, shall not exceed 8.5 ton/yr in any twelve (12) month rolling period.

008 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(b) All combined HAP emissions shall not exceed 1.56 tons per year as a 12-month rolling total.

II. TESTING REQUIREMENTS.**# 009 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

- (1) A device approved by the Department and maintained to provide accurate opacity measurements.
- (2) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION C. Site Level Plan Approval Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall calculate actual VOC emissions from the surface coating operations, including wipe down and cleanup solvents, for each calendar month. This information shall be kept on file for a period of at least five (5) years and shall be made available to Department personnel upon request.

011 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall maintain a monthly record of the total amount of VOCs emitted from this facility.

(b) At the end of each month, the current monthly VOC total shall be added to the monthly totals from the previous 11 months to determine the 12-month rolling total VOC emissions.

(c) All records used to demonstrate compliance with the emission limits shall be maintained for at least 5 years.

012 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall maintain a monthly record of HAP emissions to demonstrate compliance with the emission limits for each single HAP and all combined HAPs.

(b) At the end of each month, the current monthly total of each individual HAP and all combined HAPs shall be added to the monthly totals from the previous 11 months to determine the 12-month rolling totals for each.

(c) All records used to demonstrate compliance with the emission limits shall be maintained for at least 5 years.

013 [25 Pa. Code §135.5]**Recordkeeping**

Source owners or operators shall maintain and make available upon request by the Department records including computerized records that may be necessary to comply with 135.21 (relating to reporting; and emission statements). These may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

V. REPORTING REQUIREMENTS.**# 014 [25 Pa. Code §135.3]****Reporting**

(a) The permittee shall submit by March 1 of each year a source report for the preceding calendar year. The report shall include information for all previously reported sources, new sources which were first operated during the proceeding calendar year and sources modified during the same period which were not previously reported.

(b) [Not applicable.]

(c) A source owner or operator may request an extension of time from the Department for the filing of a source report, and the Department may grant the extension for reasonable cause.

015 [25 Pa. Code §135.4]**Report format**

All source reports shall contain sufficient information to enable the Department to complete its emission inventory. Source reports shall be made by the source owner or operator in a format specified by the Department.

VI. WORK PRACTICE REQUIREMENTS.**# 016 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

[From 25 Pa. Code §123.1(c)]

**SECTION C. Site Level Plan Approval Requirements**

(c) A person responsible for any source specified in 25 Pa. Code §123.1(a)(1) through (a)(8) [Condition #002 above] shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (2) Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (3) Paving and maintenance of roadways.
- (4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

017 [25 Pa. Code §129.14]**Open burning operations**

- (a) [Not Applicable.]
- (b) Outside of air basins. No person may permit the open burning of material in an area outside of air basins in a manner that:
- (1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.
 - (2) Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.
 - (3) The emissions interfere with the reasonable enjoyment of life or property.
 - (4) The emissions cause damage to vegetation or property.
 - (5) The emissions are or may be deleterious to human or animal health.
- (c) Exceptions: The requirements of subsections (a) and (b) do not apply where the open burning operations result from:
- (1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
 - (2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
 - (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
 - (4) - (5) Not Applicable.
 - (6) A fire set solely for recreational or ceremonial purposes.
 - (7) A fire set solely for cooking food.
- (d) Clearing and grubbing wastes. The following is applicable to clearing and grubbing wastes:
- (1) As used in this subsection the following terms shall have the following meanings:

Air curtain destructor -- A mechanical device which forcefully projects a curtain of air across a pit in which open burning is being conducted so that combustion efficiency is increased and smoke and other particulate matter are contained.



SECTION C. Site Level Plan Approval Requirements

Clearing and grubbing wastes -- Trees, shrubs, and other native vegetation which are cleared from land during or prior to the process of construction. The term does not include demolition wastes and dirt laden roots.

(2) [Not Applicable.]

(3) Subsection (b) notwithstanding clearing and grubbing wastes may be burned outside of an air basin, subject to the following limitations:

(i) Upon receipt of a complaint or determination by the Department that an air pollution problem exists, the Department may order that the open burning cease or comply with subsection (b) of this section.

(ii) Authorization for open burning under this paragraph does not apply to clearing and grubbing wastes transported from an air basin for disposal outside of an air basin.

(4) During an air pollution episode, open burning is limited by Chapter 137 (relating to air pollution episodes) and shall cease as specified in such chapter.

[This permit does not constitute authorization to burn solid waste pursuant to Section 610(3) of the Solid Waste Management Act, 35 P.S. Section 6018.610(3), or any other provision of the Solid Waste Management Act.]

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 201

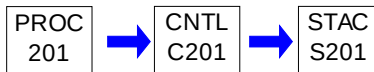
Source Name: SPRAY BOOTH #1

Source Capacity/Throughput:

0.500 Gal/HR

VOC EMISSIONS

Conditions for this source occur in the following groups: 1) ADHESIVES, PRIMERS, SEALANTS.

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter from this process, at any time, in such a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

a) VOC emissions from surface coating operations (including coatings, pre-wash paint thinners, and cleanup solvents, shall not exceed 8.5 tons per year (tpy) in any twelve (12) month rolling period.

b) HAP emissions from surface coating operations (including coatings, thinners and cleanup solvents, shall not exceed 1.52 tons in any twelve (12) month rolling period.

003 [25 Pa. Code §129.52d]**Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surf**

[Emission Restrictions from 129.52d (c) and (d)]

(c) Not applicable.

(d) Emission limitations. Beginning January 1, 2017, a person subject to subsection (a)(1) may not cause or permit the emission into the outdoor atmosphere of VOCs from a miscellaneous metal part coating unit or miscellaneous plastic part coating unit, or both, unless emissions of VOCs are controlled in accordance with paragraph (1), (2) or (3).

(1) Compliant materials option. The VOC content of each miscellaneous metal part coating or each miscellaneous plastic part coating, as applied, excluding water and exempt compounds, is equal to or less than the VOC content limit for the applicable coating category specified in the applicable table of VOC content limits in Tables I—V.

(2) Not applicable. .

(3) Not applicable.

(4) Least restrictive VOC limit. If more than one VOC content limit or VOC emission rate limit applies to a specific coating, then the least restrictive VOC content limit or VOC emission rate limit applies.

(5) Coatings not listed in Table I, II, VI or VII. For a miscellaneous metal part or miscellaneous plastic part coating that does not meet the coating categories listed in Table I, II, VI or VII, the VOC content limit or VOC emission rate limit shall be determined by classifying the coating as a general one component coating or general multicomponent coating. The corresponding general one component coating or general multicomponent coating limit applies.

(6) Not applicable.

**SECTION D. Source Level Plan Approval Requirements****# 004 [25 Pa. Code §129.52d]****Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surf**

[Applicable Emission Limits from 129.52d, Table 1]

Table I. VOC Content Limits for Metal Parts and Products Surface Coatings

Weight of VOC per Volume of Coating, Less Water and Exempt Compounds, as Applied

Coating Category	Air Dried		Baked	
	kg VOC/lb VOC/ 1 coating gal coating		kg VOC/lb VOC/ 1 coating gal coating	
General One-component	0.34	2.8	0.28	2.3
General Multicomponent	0.34	2.8	0.28	2.3
Camouflage	0.42	3.5	0.42	3.5
Electric-insulating Varnish	0.42	3.5	0.42	3.5
Etching Filler	0.42	3.5	0.42	3.5
Extreme High-gloss	0.42	3.5	0.36	3.0
Extreme Performance	0.42	3.5	0.36	3.0
Heat-resistant	0.42	3.5	0.36	3.0
High-performance Architectural	0.74	6.2	0.74	6.2
High-temperature	0.42	3.5	0.42	3.5
Metallic	0.42	3.5	0.42	3.5
Military Specification	0.34	2.8	0.28	2.3
Mold-seal	0.42	3.5	0.42	3.5
Pan-backing	0.42	3.5	0.42	3.5
Prefabricated Architectural Multicomponent	0.42	3.5	0.28	2.3
Prefabricated Architectural One-component	0.42	3.5	0.28	2.3
Pretreatment	0.42	3.5	0.42	3.5
Touch-up and Repair	0.42	3.5	0.36	3.0
Silicone-release	0.42	3.5	0.42	3.5
Solar-absorbent	0.42	3.5	0.36	3.0
Vacuum-metalizing	0.42	3.5	0.42	3.5
Drum Coating, New, Exterior	0.34	2.8	0.34	2.8
Drum Coating, New, Interior	0.42	3.5	0.42	3.5
Drum Coating, Reconditioned, Exterior	0.42	3.5	0.42	3.5
Drum Coating, Reconditioned, Interior	0.50	4.2	0.50	4.2

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.**# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall keep a record of paint booth filter maintenance and inspection activities.

**SECTION D. Source Level Plan Approval Requirements****# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Records of coating usage shall be maintained in accordance with 25 Pa Code §129.52d. Daily records shall be maintained of coating usage, gallons of diluents used, and density of diluents used. The records shall be maintained for a period of five (5) years, and shall be made available to the Department upon request.

007 [25 Pa. Code §129.52d]**Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surface coating processes and pleasure craft surface coatings.**

[Recordkeeping Requirements from 129.52d(f)]

(f) Recordkeeping and reporting requirements.

(1) The owner or operator of a miscellaneous metal part coating unit or miscellaneous plastic part coating unit, or both, subject to subsection (a)(1) shall maintain monthly records sufficient to demonstrate compliance with this section. The records must include the following information:

(i) The following parameters for each coating, thinner, component and cleaning solvent as supplied:

(A) Name and identification number of the coating, thinner, other component or cleaning solvent.

(B) Volume used.

(C) Mix ratio.

(D) Density or specific gravity.

(E) Weight percent of total volatiles, water, solids and exempt solvents.

(F) Volume percent of total volatiles, water and exempt solvents for the applicable table of limits in Tables I—V.

(G) Volume percent of solids for the applicable table of limits in Tables VI—IX.

(ii) The VOC content of each coating, thinner, other component and cleaning solvent as supplied.

(iii) The VOC content of each as applied coating or cleaning solvent.

(iv) The calculations performed for each applicable requirement under subsections (d) and (e).

(v) The information required in a plan approval issued under subsection (e)(2).

(2) An owner or operator subject to subsection (a)(2), or otherwise claiming an exemption or exception in this section, shall maintain records sufficient to verify the applicability of subsection (a)(2), the exemption or exception. Records maintained for compliance demonstrations may include purchase, use, production and other records.

(3) The records shall be maintained onsite for 2 years, unless a longer period is required by an order, plan approval or operating permit issued under Chapter 127 (relating to construction, modification, reactivation and operation of sources).

(4) The records shall be submitted to the Department in an acceptable format upon receipt of a written request from the Department.

**SECTION D. Source Level Plan Approval Requirements****V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.**# 008 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- (a) The paint booth shall not be operated unless the panel filters are in place and functioning properly.
- (b) When the paint booth is operational, the panel filters shall be inspected weekly.
- (c) The permittee shall maintain the dry panel filters and replace them as needed to ensure efficient removal of paint contained in the booth exhaust.

009 [25 Pa. Code §129.52d]**Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surface coating processes and pleasure craft surface coatings.**

[Work practice requirement from 129.52d(g)]

(g) Coating application methods. A person subject to subsection (a)(1) may not cause or permit the emission into the outdoor atmosphere of VOCs from a miscellaneous metal part coating unit or miscellaneous plastic part coating unit, or both, unless the coatings are applied using one or more of the following coating application methods:

- (1) Electrostatic coating.
- (2) Flow coating.
- (3) Dip coating, including electrodeposition.
- (4) Roll coating.
- (5) High volume-low pressure (HVLP) spray coating.
- (6) Airless spray coating.
- (7) Air-assisted airless spray coating.
- (8) Other coating application method if approved in writing by the Department prior to use.

(i) The coating application method must be capable of achieving a transfer efficiency equivalent to or better than that achieved by HVLP spray coating.

(ii) The owner or operator shall submit the request for approval to the Department in writing.

010 [25 Pa. Code §129.52d]**Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surface coating processes and pleasure craft surface coatings.**

[Work practice requirement from 129.52d(i) and (j)]

(i) Work practice requirements for coating-related activities. The owner or operator of a miscellaneous metal part coating unit or miscellaneous plastic part coating unit, or both, subject to subsection (a)(1) shall comply with the following work practices for coating-related activities:

**SECTION D. Source Level Plan Approval Requirements**

- (1) Store all VOC-containing coatings, thinners or coating-related waste materials in closed containers.
- (2) Ensure that mixing and storage containers used for VOC-containing coatings, thinners or coating-related waste materials are kept closed at all times, except when depositing or removing these coatings, thinners or waste materials.
- (3) Minimize spills of VOC-containing coatings, thinners or coating-related waste materials and clean up spills immediately.
- (4) Convey VOC-containing coatings, thinners or coating-related waste materials from one location to another in closed containers or pipes.
- (j) Work practice requirements for cleaning materials. The owner or operator of a miscellaneous metal part coating unit or miscellaneous plastic part coating unit subject to subsection (a)(1) shall comply with the following work practices for cleaning materials:
 - (1) Store all VOC-containing cleaning materials and used shop towels in closed containers.
 - (2) Ensure that mixing vessels and storage containers used for VOC-containing cleaning materials are kept closed at all times except when depositing or removing these materials.
 - (3) Minimize spills of VOC-containing cleaning materials and clean up spills immediately.
 - (4) Convey VOC-containing cleaning materials from one location to another in closed containers or pipes.
 - (5) Minimize VOC emissions from cleaning of application, storage, mixing or conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers

011 [25 Pa. Code §129.52d]**Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surface coating processes and pleasure craft surface coatings.**

[Work practice requirement from 125.52d(k)]

- (k) Measurements and calculations. To determine the properties of a coating or component used in a miscellaneous metal parts surface coating process or miscellaneous plastic parts surface coating process, measurements and calculations shall be performed according to one or more of the following:
- (1) EPA Reference Method 24, Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings, found at 40 CFR Part 60, Subpart D, Appendix A, including updates and revisions.
 - (2) Manufacturer's formulation data.
 - (3) Sampling and testing done in accordance with the procedures and test methods specified in Chapter 139.
 - (4) Other test method demonstrated to provide results that are acceptable for purposes of determining compliance with this section if prior approval is obtained in writing from the Department.
 - (5) Add-on air pollution control devices shall be equipped with the applicable monitoring equipment according to manufacturers' specifications. The monitoring equipment shall be installed, calibrated, operated and maintained according to manufacturers' specifications at all times the add-on air pollution control device is in use.
 - (6) EPA calculations information in the following:
 - (i) A Guideline for Surface Coating Calculations, EPA-340/1-86-016, including updates and revisions.

**SECTION D. Source Level Plan Approval Requirements**

(ii) Procedures for Certifying Quantity of Volatile Organic Compounds Emitted by Paint, Ink, and Other Coatings, EPA-450/3-84-019, including updates and revisions.

VII. ADDITIONAL REQUIREMENTS.**# 012 [25 Pa. Code §129.52d]****Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surface coating processes and pleasure craft surface coatings.**

[Additional requirement providing an overview of 129.52d applicability and definitions from 129.52d(a) and (b)]

(a) Applicability.

(1) This section applies to the owner and operator of a miscellaneous metal part surface coating process or miscellaneous plastic part surface coating process, or both, if the total actual VOC emissions from all miscellaneous metal part coating units and miscellaneous plastic part coating units, including related cleaning activities, at the facility are equal to or greater than 2.7 tons per 12-month rolling period, before consideration of controls.

(2) This section applies, as specified, to the owner and operator of a miscellaneous metal part surface coating process or miscellaneous plastic part surface coating process, or both, if the total actual VOC emissions from all miscellaneous metal part coating units and miscellaneous plastic part coating units, including related cleaning activities, at the facility are below 2.7 tons per 12-month rolling period, before consideration of controls.

(3) Compliance with the VOC emission limits and other requirements of this section assures compliance with the VOC emission limits and other requirements of § 129.52 (relating to surface coating processes) for the miscellaneous metal parts and products surface coating processes as specified in § 129.52, Table I, Category 10.

(4) If an owner or operator elects to comply with § 129.52e (relating to control of VOC emissions from automobile and light-duty truck assembly surface coating operations and heavier vehicle coating operations) under § 129.52e(a)(2) or (3), then § 129.52e instead of this section applies to the separate coating line at the facility, or to the coating of a body or body part for a new heavier vehicle at the facility, or both, for which the election is made.

(5) This section does not apply to an owner or operator in the use or application of the following:

(i) Aerosol coatings that meet the requirements of 40 CFR Part 59, Subpart E (relating to National volatile organic compound emission standards for aerosol coatings).

(ii) Aerospace coatings.

(iii) Architectural coatings.

(iv) Automobile refinishing coatings.

(v) Auto and light-duty truck assembly coatings.

(vi) Can, coil or magnet wire coatings.

(vii) Coating applied to a test panel or coupon, or both, in research and development, quality control or performance testing activities, if records are maintained as required under subsections (e) and (f).

(viii) Fiberglass boat manufacturing materials.

(ix) Flat wood paneling coatings.

(x) Large appliance coatings.

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- (xi) Metal furniture coatings.
- (xii) Miscellaneous industrial adhesives.
- (xiii) Paper, film and foil coatings.
- (xiv) Shipbuilding and repair coatings.
- (xv) Wood furniture coatings.

(b) Definitions. The following words and terms, when used in this section, have the following meanings unless the context clearly indicates otherwise:

Adhesion primer—A coating applied to a polyolefin part to promote the adhesion of a subsequent coating. This type of coating is clearly identified on its accompanying MSDS by this term or as an adhesion promoter.

Air-dried coating—A coating that is cured or dried at a temperature below 90°C (194°F).

Antifoulant or antifouling coating—A coating applied to the underwater portion of a pleasure craft to prevent or reduce the attachment of biological organisms, and registered with the EPA as a pesticide under section 2 of the Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C.A. § 136).

Appurtenance—An accessory to a stationary structure that is coated at the facility. The term includes:

- (i) Bathroom and kitchen fixtures.
- (ii) Cabinets.
- (iii) Concrete forms.
- (iv) Doors.
- (v) Elevators.
- (vi) Fences.
- (vii) Hand railings.
- (viii) Heating equipment, air conditioning equipment, and other fixed mechanical equipment or stationary tools.
- (ix) Lampposts.
- (x) Partitions.
- (xi) Pipes and piping systems.
- (xii) Rain gutters and downspouts.
- (xiii) Stairways.
- (xiv) Fixed ladders.
- (xv) Catwalks and fire escapes.
- (xvi) Window screens.

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Baked coating—A coating cured at a temperature at or above 90°C (194°F).

Black coating—A coating that meets either of the following:

- (i) Both of the following criteria, which are based on Cielab color space, 0/45 geometry:
 - (A) Maximum lightness: 23 units.
 - (B) Saturation: less than 2.8, where saturation equals the square root of $A^2 + B^2$.
- (ii) For spherical geometry, specular included, maximum lightness is 33 units.

Business machine—

- (i) A device that uses an electronic or mechanical method to process information, perform calculations, print or copy information, or convert sound into electrical impulses for transmission.
- (ii) The term includes the following:
 - (A) Devices listed in Standard Industrial Classification Codes 3572, 3573, 3574, 3579 and 3661.
 - (B) Photocopy machines, a subcategory of Standard Industrial Classification Code 3861.

Camouflage coating—A coating used principally by the military to conceal equipment from detection.

Cleaning material or cleaning solvent—A material used during cleaning activities or cleaning operations to remove residue or other unwanted materials from equipment.

Clear coating—

- (i) A colorless coating that contains binders, but no pigment, and is formulated to form a transparent film.
- (ii) The term includes a transparent coating that uses the undercoat as a reflectant base or undertone color.

Clear wood finishes—A clear or semitransparent topcoat applied to a wood substrate to provide a transparent or translucent film.

Coating—

- (i) A material applied onto or into a substrate for protective, decorative or functional purposes.
- (ii) The term includes paints, sealants, caulks, primers, inks and maskants.
- (iii) The term does not include protective oils, acids or bases, or combinations of these materials.

Coating unit—A series of one or more coating applicators and associated drying area or oven or both wherein a coating is applied and dried or cured, or both. The unit ends at the point where the coating is dried or cured, or prior to subsequent application of a different coating.

Drum—A cylindrical metal shipping container larger than 12 gallons capacity but not larger than 110 gallons capacity.

EMI/RFI shielding coating—A coating used on electrical or electronic equipment to provide shielding against electromagnetic interference, radio frequency interference or static discharge.

Electric dissipating coating—A coating that rapidly dissipates a high voltage electric charge.

**SECTION D. Source Level Plan Approval Requirements**

Electric-insulating varnish—A non-convertible-type coating applied to electric motors, components of electric motors or power transformers to provide electrical, mechanical or environmental protection or resistance.

Electrostatic prep coating—A coating applied to a plastic part solely to provide conductivity for the subsequent application of a primer, a topcoat or other coating through the use of electrostatic application methods. This term is clearly identified as an electrostatic prep coat on its accompanying MSDS.

Etching filler—A coating that contains less than 23% solids by weight and at least 0.5% acid by weight, and is used instead of applying a pretreatment coating followed by a primer.

Extreme high-gloss coating—A coating that achieves the following:

(i) For miscellaneous metal part surface coatings or miscellaneous plastic part surface coatings, other than pleasure craft surface coatings, a coating when tested by the American Society for Testing Material Test Method D-523-08 shows a reflectance of at least 75% on a 60° meter.

(ii) For pleasure craft surface coatings, a coating that shows a reflectance of at least 90% on a 60° meter when tested by American Society for Testing Material Test Method D-523-08.

Extreme-performance coating—

(i) A coating used on a metal or plastic surface where the coated surface is, in its intended use, subject to one or more of the following:

(A) Chronic exposure to corrosive, caustic or acidic agents, chemicals, chemical fumes, chemical mixtures or solutions.

(B) Repeated exposure to temperatures in excess of 250°F.

(C) Repeated heavy abrasion, including mechanical wear and repeated scrubbing with industrial grade solvents, cleansers or scouring agents.

(ii) The term includes coatings applied to locomotives, railroad cars, farm machinery and heavy duty trucks.

Finish primer/surfacer—A coating applied with a wet film thickness of less than 10 mils prior to the application of a topcoat for purposes of providing corrosion resistance, adhesion of subsequent coatings, a moisture barrier or promotion of a uniform surface necessary for filling in surface imperfections.

Flexible primer—A coating required to comply with engineering specifications for impact resistance, mandrel bend or elongation as defined by the original equipment manufacturer.

Fog coat—A coating applied to a plastic part, at a thickness of no more than 0.5 mil of coating solids, for the purpose of color matching without masking a molded-in texture.

Gloss reducer—A coating applied to a plastic part, at a thickness of no more than 0.5 mil of coating solids, solely to reduce the shine of the part.

Heat-resistant coating—A coating that must withstand a temperature of at least 400°F during normal use.

Heavier vehicle—A self-propelled vehicle designed for transporting persons or property on a street or highway that has a gross vehicle weight rating over 8,500 pounds.

High bake coating—A coating designed to cure only at temperatures of more than 90°C (194°F).

High build primer/surfacer—A coating applied with a wet film thickness of 10 mils or more prior to the application of a topcoat for purposes of providing corrosion resistance, adhesion of subsequent coatings, a moisture barrier or promotion of

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a uniform surface necessary for filling in surface imperfections.

High gloss coating—A coating that achieves at least 85% reflectance on a 60° meter when tested by ASTM Method D-523-08.

High-performance architectural coating—A coating used to protect aluminum architectural subsections and which meets the requirements of the American Architectural Manufacturers Association's publication number AAMA 2604 (Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels) or 2605 (Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels), including updates and revisions.

High-temperature coating—A coating certified to withstand a temperature of 1,000°F for 24 hours.

Mask coating—A thin film coating applied through a template to coat a small portion of a substrate.

Metal particles—Pieces of a pure elemental metal or a combination of elemental metals.

Metallic coating—A coating that contains more than 5 grams of metal particles per liter of coating as applied.

Military specification coating—A coating that has a formulation approved by a United States Military Agency for use on military equipment.

Miscellaneous metal parts and miscellaneous plastic parts—Metal or plastic components of parts or products, as well as the parts or products themselves, constructed either entirely or partially from metal or plastic, or both, including the following:

- (i) Fabricated metal products.
- (ii) Molded plastic parts.
- (iii) Farm machinery.
- (iv) Commercial and industrial machinery and equipment.
- (v) Automotive or transportation equipment.
- (vi) Interior or exterior automotive parts.
- (vii) Construction equipment.
- (viii) Motor vehicle accessories.
- (ix) Bicycles and sporting goods.
- (x) Toys.
- (xi) Recreational vehicles.
- (xii) Watercraft.
- (xiii) Extruded aluminum structural components.
- (xiv) Railroad cars.
- (xv) Heavier vehicles.
- (xvi) Lawn and garden equipment.

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(xvii) Business machines.

(xviii) Laboratory and medical equipment.

(xix) Electronic equipment.

(xx) Steel drums.

(xxi) Metal pipes.

Mold-release coating—A coating applied to a mold to prevent the molded product from sticking to the mold as it is removed.

Mold-seal coating—The initial coating applied to a new or repaired mold to provide a smooth surface that when coated with a mold-release coating prevents products from sticking to the mold.

Motor vehicle bedliner—A multicomponent coating, used at a facility that is not an automobile or light-duty truck assembly coating facility, applied to a cargo bed after the application of topcoat to provide additional durability and chip resistance.

Motor vehicle cavity wax—A coating, used at a facility that is not an automobile or light-duty truck assembly coating facility, applied into the cavities of the vehicle primarily to enhance corrosion protection.

Motor vehicle deadener—A coating, used at a facility that is not an automobile or light-duty truck assembly coating facility, applied to selected vehicle surfaces primarily to reduce the sound of road noise in the passenger compartment.

Motor vehicle gasket/sealing material—

(i) A fluid, used at a facility that is not an automobile or light-duty truck assembly coating facility, applied to coat a gasket or replace and perform the same function as a gasket.

(ii) The term includes room temperature vulcanization seal material.

Motor vehicle lubricating wax/compound—A protective lubricating material, used at a facility that is not an automobile or light-duty truck assembly coating facility, applied to vehicle hubs and hinges.

Motor vehicle sealer—A high viscosity material, used at a facility that is not an automobile or light-duty truck assembly coating facility, applied in the paint shop after the body has received an electrodeposition primer coating and before the application of subsequent coatings (for example, a primer/surfacer). The primary purpose of the material is to fill body joints completely so that there is no intrusion of water, gases or corrosive materials into the passenger area of the body compartment. The material is also referred to as sealant, sealant primer or caulk.

Motor vehicle trunk interior coating—A coating, used at a facility that is not an automobile or light-duty truck assembly coating facility, applied to the trunk interior to provide chip protection.

Motor vehicle underbody coating—A coating, used at a facility that is not an automobile or light-duty truck assembly coating facility, applied to the undercarriage or firewall to prevent corrosion or provide chip protection, or both.

Multicolored coating—A coating that exhibits more than one color when applied and which is packaged in a single container and applied in a single coat.

Multicomponent coating—A coating requiring the addition of a separate reactive resin, commonly known as a catalyst or hardener, before application to the substrate to form an acceptable dry film.

One-component coating—A coating that is ready for application as it comes out of its container to form an acceptable dry film. A thinner may be added to reduce the viscosity, but is not considered a component.

**SECTION D. Source Level Plan Approval Requirements**

Optical coating—A coating applied to an optical lens.

Pan-backing coating—A coating applied to the surface of pots, pans or other cooking implements that are exposed directly to a flame or other heating element.

Pleasure craft—A vessel that is manufactured or operated primarily for recreational purposes, or leased, rented or chartered to a person or business for recreational purposes.

Pleasure craft coating—A marine coating, except unsaturated polyester resin (fiberglass) coatings, applied by brush, spray, roller or other means to a pleasure craft.

Powder coating—A coating applied as a dry, finely divided solid that, when melted and fused, adheres to the substrate as a paint film.

Prefabricated architectural component coating—A coating applied to a prefabricated metal part or product if the part or product is to be used as an architectural appurtenance or structure. The appurtenance is detached from the structure when coated in a shop setting.

Pretreatment coating—A coating that contains no more than 12% solids by weight and at least 0.5% acid by weight that is used to provide surface etching and that is applied directly to metal surfaces to provide corrosion resistance, adhesion and ease of stripping.

Pretreatment wash primer—A coating that contains no more than 12% solids by weight and at least 0.5% acid by weight that is used to provide surface etching and that is applied directly to fiberglass and metal surfaces to provide corrosion resistance and adhesion of subsequent coatings.

Red coating—A coating that meets the following:

- (i) All of the following criteria, which are based on Cielab color space, 0/45 geometry:
 - (A) Yellow limit: the hue of hostaperm scarlet.
 - (B) Blue limit: the hue of monastral red-violet.
 - (C) Lightness limit for metallics: 35% aluminum flake.
 - (D) Lightness limit for solids: 50% titanium dioxide white.
 - (E) Solid reds: hue angle of -11 to 38 degrees and maximum lightness of 23 to 45 units.
 - (F) Metallic reds: hue angle of -16 to 35 degrees and maximum lightness of 28 to 45 units.
- (ii) For spherical geometry, specular included, the upper limit is 49 units.

Repair coating—A coating used to recoat portions of a previously coated product that has sustained mechanical damage to the coating following normal coating operations.

Resist coating—A coating that is applied to a plastic part before metallic plating to prevent deposits of metal on portions of the plastic part.

Shock-free coating—A coating applied to electrical components to protect the user from electric shock. The coating has characteristics of being of low capacitance and high resistance, and being resistant to breaking down under high voltage.

Silicone-release coating—A coating which contains silicone resin and is intended to prevent food from sticking to metal surfaces, such as baking pans.

**SECTION D. Source Level Plan Approval Requirements**

Solar-absorbent coating—A coating which has as its prime purpose the absorption of solar radiation.

Stencil coating—An ink or coating that is applied onto a template, stamp or stencil to add identifying letters, numbers or decorative designs, or a combination of these, to a metal or plastic part or product.

Texture coat—A coating that is applied to a plastic part which, in its finished form, consists of discrete raised spots of the coating.

Topcoat—A final coating applied in a surface coating process that applies two or more coatings.

Touch-up coating—A coating used to cover minor coating imperfections appearing after the main coating operation.

Translucent coating—A coating that contains binders and pigment and is formulated to form a colored, but not opaque, film.

Two-component coating—A coating requiring the addition of a separate reactive resin, commonly known as a catalyst, before application to form an acceptable dry film.

Vacuum-metalizing coating—A coating meeting either of the following:

- (i) An undercoat applied to a substrate on which the metal is deposited prior to a vacuum-metalizing process.
- (ii) An overcoat applied directly to the metal film after a vacuum-metalizing process.

Vacuum-metalizing process—The process of evaporating metals inside a vacuum chamber and depositing them on a substrate to achieve a uniform metalized layer.

013 [25 Pa. Code §129.52d]**Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surface coating processes and pleasure craft surface coatings.**

[Additional requirement providing an overview of exempt coatings and exempt coating unit operations from 129.52d(h)]

(h) Exempt coatings and exempt coating unit operations.

(1) The requirements of subsections (d) and (g) do not apply to the application of the following coatings to a metal part:

- (i) Stencil coating.
- (ii) Safety-indicating coating.
- (iii) Solid-film lubricant.
- (iv) Electric-insulating and thermal-conducting coating.
- (v) Magnetic data storage disk coating.
- (vi) Plastic extruded onto metal parts to form a coating.
- (vii) Powder coating.

(2) The requirements of subsection (d) do not apply to the application of the following coatings to a plastic part:

- (i) Touch-up and repair coating.
- (ii) Stencil coating applied on a clear or transparent substrate.

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- (iii) Clear or translucent coating.
 - (iv) Coating applied at a paint manufacturing facility while conducting performance tests on coating.
 - (v) Reflective coating applied to highway cones.
 - (vi) Mask coating, if the coating is less than 0.5 millimeter thick (dried) and the area coated is less than 25 square inches.
 - (vii) EMI/RFI shielding coating.
 - (viii) Heparin-benzalkonium chloride (HBAC)-containing coating applied to a medical device, provided that the total usage of HBAC-containing coatings does not exceed 100 gallons in 1 calendar year at the facility.
 - (ix) Powder coating.
 - (x) An individual coating category used in an amount less than 50 gallons in 1 calendar year provided that the total usage of all of the coatings, combined, does not exceed 200 gallons per year at the facility. This exception applies only if substitute compliant coatings are not available.
- (3) The requirements of subsection (d) do not apply to the application of the following coatings to automotive-transportation and business machine parts:
- (i) Texture coat.
 - (ii) Vacuum-metalizing coating.
 - (iii) Gloss reducer.
 - (iv) Texture topcoat.
 - (v) Adhesion primer.
 - (vi) Electrostatic prep coat.
 - (vii) Resist coating.
 - (viii) Stencil coating.
 - (ix) Powder coating.
- (4) The requirements of subsection (g) do not apply to the following activities:
- (i) Application of a touch-up coating, repair coating or textured finish to a metal part.
 - (ii) Application of a powder coating to the following:
 - (A) Plastic part.
 - (B) Automotive-transportation plastic part.
 - (C) Business machine plastic part.
 - (iii) Airbrush application of coating to a metal part or plastic part using no more than 5 gallons of coating per year.
 - (iv) Use of an add-on air pollution control device to comply with subsection (d).

**SECTION D. Source Level Plan Approval Requirements**

(v) Application of extreme high-gloss coating in a pleasure craft surface coating operation.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 202

Source Name: ABRASIVE BLASTING BOOTH

Source Capacity/Throughput:

150.000 Lbs/HR

ABRASIVE GRIT MEDIA

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Neither the particulate matter nor the PM10 (particulate matter with an aerodynamic diameter of 10 microns or less) emissions from the exhaust of the fabric collector (baghouse) or cartridge collector shall exceed 0.005 grains per dry standard cubic foot of effluent gas volume.

[This condition is from GP-19, Condition 13(b)(ii) and considered BAT for dry abrasive blasting operations. This condition streamlines out the requirements from 25 Pa Code §123.13 because it is more stringent.]

002 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

There shall be no visible air contaminant emissions from the exhaust of the fabric collector (baghouse) or cartridge collector other than water vapor or steam.

Operation Hours Restriction(s).**# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

This source shall be limited to 1,248 hours of operation in any consecutive twelve (12) month rolling period.

II. TESTING REQUIREMENTS.**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

If, at any time, the Department has reason to believe that the air contaminant emissions from the exhaust of a fabric collector (baghouse) or cartridge collector associated with a dry abrasive blasting operation operating under this General Permit are, or may be, in excess of any applicable air contaminant emission limitation, the permittee shall conduct such stack tests or source tests as are deemed necessary by the Department to determine the actual air contaminant emission rate. The permittee shall perform any such testing in accordance with the applicable provisions of 25 Pa. Code, Chapter 139 (relating to sampling and testing) as well as in accordance with any additional requirements or source conditions established by the Department at the time the permittee is notified, in writing, of the need to conduct testing.

III. MONITORING REQUIREMENTS.**# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

a) When the Blasting Booth is in operation, the permittee shall perform a daily observation of the following:

- 1) source including filter conditions and baghouse pressure drop.
- 2) source hours of operation.
- 3) Throughput of blasting media used.

006 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall observe once a day for any visible emissions from the fabric collector (baghouse) or cartridge collector.

**SECTION D. Source Level Plan Approval Requirements**

If any visible emissions are observed, the permittee shall take immediate action to eliminate the emissions.

IV. RECORDKEEPING REQUIREMENTS.**# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

When the source is in operation, daily observations shall be recorded and entered into a facility log, to include, at a minimum:

- 1) Cartridge filter condition.
- 2) Baghouse pressure drop.
- 3) Source hours of operation.

The log shall be kept on-site and be retained for a period of five (5) years.

008 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Pursuant to 25 Pa. Code § 135.5 (relating to recordkeeping), air contamination source owners or operators shall maintain and make available upon request by the Department such records as may be necessary to comply with 25 Pa. Code § 135.3 (relating to reporting). These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 009 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Within 60 days of plan approval issuance, the applicant will provide an operating pressure drop range for the baghouse. The top of the pressure drop range will be indicator to change the filters.

010 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall notify the Department by telephone within 24 hours of the discovery of any malfunction of a dry abrasive blasting operation operating pursuant to this Permit, or any malfunction of an associated fabric collector (baghouse) or cartridge collector, which results in, or may possibly be resulting in, the emission of air contaminants in excess of any applicable limitation, or which otherwise results in, or may possibly be resulting in, noncompliance with the requirements specified in any applicable condition of this Permit.

If the permittee is unable to provide notification to the appropriate Regional Office within 24 hours of discovery due to a weekend or holiday, the notification shall be made to the Department by no later than 4 p.m. on the first business day for the Department following the respective weekend or holiday. The permittee shall additionally provide whatever subsequent written report the Department may request regarding any reported malfunction

VI. WORK PRACTICE REQUIREMENTS.**# 011 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- a) The baghouse shall be operated at all times the source is in operation.
- b) A magnehelic gauge (or equivalent) shall be permanently installed and maintained at a conveniently readable location to indicate pressure drop across the baghouse. The gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (+/- 2%) of full scale reading.
- c) When the source is in operation, the sealed access door shall be closed.

**SECTION D. Source Level Plan Approval Requirements****# 012 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Source 202 Permit shall be:

- a. operated in such a manner as to not cause air pollution, as that term is defined in 25 Pa. Code § 121.1;
- b. operated and maintained in a manner consistent with good operating practices and;
- c. operated and maintained in accordance with the manufacturer's specifications.

013 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

All fugitive air contaminant emissions generated within the enclosed machine, permanently located building or permanently located enclosure in which the dry abrasive blasting operation is performed shall be captured and ducted to an appropriately-designed fabric collector (baghouse) or cartridge collector. A specific fabric collector (baghouse) or cartridge collector shall be accepted by the Department as "appropriately-designed" only if the Department determines it to be based upon the information provided by the applicant and any other pertinent information available to the Department.

014 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

- a) No fugitive air contaminant emissions shall be generated as a result of removing collected dust from the fabric collector (baghouse) or cartridge collector or as a result of subsequently handling the collected dust on-site following its removal from the collector.
- b) The fabric collector (baghouse) or cartridge collector shall be equipped with instrumentation to monitor the differential pressure across the collector on a continuous basis.
- c) The permittee shall keep on hand a sufficient quantity of spare fabric collector (baghouse) bags or cartridge collector cartridges in order to immediately replace any bags or cartridges requiring replacement due to deterioration resulting from routine operation.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 203

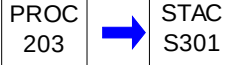
Source Name: GLUE STATION

Source Capacity/Throughput:

0.040 Gal/HR

ADHESIVE

Conditions for this source occur in the following groups: 1) ADHESIVES, PRIMERS, SEALANTS.

**I. RESTRICTIONS.****Throughput Restriction(s).****# 001 [25 Pa. Code §127.12b]**
Plan approval terms and conditions.

This source shall be limited to 500 gallons of adhesive per consecutive twelve (12) month rolling period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.**# 002 [25 Pa. Code §127.12b]**
Plan approval terms and conditions.

The permittee shall monitoring Source 203 hours of operation and throughput of glue.

IV. RECORDKEEPING REQUIREMENTS.**# 003 [25 Pa. Code §127.12b]**
Plan approval terms and conditions.

The permittee shall keep records of the following:

- a) Hours of operation daily when the source is in operation.
- b) Throughput of adhesive used.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 301

Source Name: WELDING STATIONS (12)

Source Capacity/Throughput:

0.001 TH LBS/HR

WELDING ELECTRODE

PROC
301STAC
S301**I. RESTRICTIONS.****Throughput Restriction(s).**

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

This source shall be limited to 16,334 pounds of welding electrode use per consecutive twelve (12) month rolling period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall monitor the source hours of operation and the consumption of metallic rods and wire.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall keep records of source hours of operation and welding rod and wire consumption on a weekly basis. At the end of the month, weekly totals shall be summed into a monthly total. The monthly total shall be combined with the totals from the eleven (11) previous months to form a twelve (12) month rolling total.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

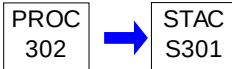
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 302

Source Name: PLASMA AND TORCH CUTTING STATION

Source Capacity/Throughput:

0.020 Gal/HR

**I. RESTRICTIONS.****Operation Hours Restriction(s).****# 001 [25 Pa. Code §127.12b]**
Plan approval terms and conditions.

Source 302 shall be limited to 5,000 hours of operation during any consecutive twelve (12) month operating period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.**# 002 [25 Pa. Code §127.12b]**
Plan approval terms and conditions.

The permittee shall record source 302 hours of operation and throughput of consumable supplies on a weekly basis.

IV. RECORDKEEPING REQUIREMENTS.**# 003 [25 Pa. Code §127.12b]**
Plan approval terms and conditions.

The permittee shall keep records of source 302 throughput hours and use of consumable supplies weekly. At the end of each month, monthly totals will be calculated. The monthly total will be combined with those from the eleven (11) previous months to form a consecutive twelve (12) month rolling total. These records shall be kept for five (5) years and be made available to the Department for review upon request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 004 [25 Pa. Code §127.12b]**
Plan approval terms and conditions.

Plasma and torch cutting operations shall be conducted indoors in operation proximity of the integrated exhaust hoods. .

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 401

Source Name: PARTS WASHERS (2)

Source Capacity/Throughput:

0.080 Lbs/HR

SOLVENT

PROC
401STAC
Z401**I. RESTRICTIONS.****Throughput Restriction(s).**

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Source 401 shall be limited to one hundred and sixty (160) gallons of solvent use per consecutive twelve (12) month rolling period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall keep records of solvent use and disposal for Source 401.

003 [25 Pa. Code §129.63]

Degreasing operations

(a)(1) - (4) See WORK PRACTICE REQUIREMENTS.

(5) On and after December 22, 2002, a person who sells or offers for sale any solvent containing VOCs for use in a cold cleaning machine shall provide, to the purchaser, the following written information:

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

(ii) The type of solvent including the product or vendor identification number.

(iii) The vapor pressure of the solvent measured in mm hg at 20°C (68°F).

(6) A person who operates a cold cleaning machine shall maintain for at least 2 years and shall provide to the Department, on request, the information specified in paragraph (5). An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

(7) See WORK PRACTICE REQUIREMENTS for this source.

(b) - (e) See WORK PRACTICE REQUIREMENTS for this source.

**SECTION D. Source Level Plan Approval Requirements****V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall keep the lid closed on Source 401, when not in use. This will slow the rate of solvent evaporation.

005 [25 Pa. Code §129.63]**Degreasing operations**

(a) Cold cleaning machines. Except for those subject to the Federal National emissions standards for hazardous air pollutants (NESHAP) for halogenated solvent cleaners under 40 CFR Part 63 (relating to National emission standards for hazardous air pollutants for source categories), this subsection applies to cold cleaning machines that use 2 gallons or more of solvents containing greater than 5% VOC content by weight for the cleaning of metal parts.

(1) Immersion cold cleaning machines shall have a freeboard ratio of 0.50 or greater.

(2) Immersion cold cleaning machines and remote reservoir cold cleaning machines shall:

(i) Have a permanent, conspicuous label summarizing the operating requirements in paragraph (3). In addition, the label shall include the following discretionary good operating practices:

(A) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.

(B) When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.

(C) Work area fans should be located and positioned so that they do not blow across the opening of the degreaser unit.

(ii) Be equipped with a cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent. For remote reservoir cold cleaning machines which drain directly into the solvent storage reservoir, a perforated drain with a diameter of not more than 6 inches shall constitute an acceptable cover.

(3) Cold cleaning machines shall be operated in accordance with the following procedures:

(i) Waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.

(ii) Flushing of parts using a flexible hose or other flushing device shall be performed only within the cold cleaning machine. The solvent spray shall be a solid fluid stream, not an atomized or shower spray.

(iii) Sponges, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in the cold cleaning machine.

(iv) Air agitated solvent baths may not be used.

(v) Spills during solvent transfer and use of the cold cleaning machine shall be cleaned up immediately.

(4) After December 22, 2002, a person may not use, sell or offer for sale for use in a cold cleaning machine any solvent with a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater and containing greater than 5% VOC by weight, measured at 20°C (68°F) containing VOCs.

**SECTION D. Source Level Plan Approval Requirements**

(5) - (6) See RECORDKEEPING REQUIREMENTS for this source.

(7) Not applicable.

(b) - (e) Not applicable.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §121.1 A - L]

Definitions.

Freeboard ratio --

(i) For a cold cleaning machine or batch vapor cleaning machine, the distance from the liquid solvent in the idling mode to the top edge of the cleaning machine divided by the smaller dimension of the cleaning machine.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 501

Source Name: WASTE OIL HEATERS (2)(0.50 MMBTU/HR EACH)

Source Capacity/Throughput:

3.300 Gal/HR

Waste Oil

**I. RESTRICTIONS.****Fuel Restriction(s).**

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

This source shall only be fueled using waste oil.

Throughput Restriction(s).

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

This source shall be limited to a total of 500 gallons of waste oil combusted, per twelve (12) month rolling period.

(500 gallons of waste oil use is based on calculations on page 21 of 28 and throughputs for source 501 from page 11 of 28, in the Draft Plan Approval Comments prepared by CFS Environmental Professional and Technical Services, dated March 27, 2023)

II. TESTING REQUIREMENTS.

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

a) Within 180 days of permit issuance, and within 60 days of permit reissuance, a fuel test must be conducted on the waste oil used to fuel source 030.

b) Testing must be conducted for the following constituents using analytical techniques and methods, or alternative methods approved in writing by the Department. Parameters are as follows:

Arsenic EPA Method 6010, 6020, 7010, 7061 or 7062.

Cadmium EPA Method 6010, 6020, 7000 or 7010.

Chromium EPA Method 6010, 7000 or 7010.

Lead EPA Method 6010, 7000 or 7010

PCBs EPA Method 8082

TX EPA Method 9075, 9076 or 9077.

Flash Point EPA Method 1010 or ASTM D93

Ash ASTM D482

Sulfur ASTM D3227, D1552, D4294 or D129.

**SECTION D. Source Level Plan Approval Requirements**

c) Results from testing will be used to create emission factors to calculate source 030 emissions.

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

- a) Records shall be kept of the annual throughput of waste oil burned.
- b) Records shall be kept of annual burner servicing included the following:
 - a) Date of service performed.
 - b) Name of person performing the service.
 - c) Issues or problems observed.
 - d) Corrective actions taken, or maintenance performed.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

- a) The applicant shall track the amount of waste oil consumed by the source.
- b) Waste oil burners are serviced annually to ensure proper electrode, fuel nozzle and fuel filter operation to maintain proper operating conditions and ensuring fuel is fully combusted.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: 1) ADHESIVES, PRIMERS, SEALANTS.

Group Description: This group is applicable to sources which apply adhesives, sealants, primers or use solvents.

Sources included in this group

ID	Name
201	SPRAY BOOTH #1
203	GLUE STATION

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §129.77.]

Control of emissions from the use or application of adhesives, sealants, primers and solvents.

(a) See Additional Requirements for applicability details.

(b) On or after January 1, 2012, an owner or operator of a facility may not use or apply at the facility an adhesive, sealant, adhesive primer or sealant primer that exceeds the applicable VOC content limit in Table V or VI, except as provided elsewhere in this section.

(c) On or after January 1, 2012, an owner or operator of a facility may not use or apply at the facility a surface preparation or cleanup solvent that exceeds the applicable VOC content limit or composite partial vapor pressure requirements of this section, except as provided elsewhere in this section.

(d) The VOC content limits in Table VI for adhesives or sealants applied to particular substrates apply as follows:

(1) If an owner or operator of a facility uses or applies at the facility an adhesive or sealant subject to a specific VOC content limit in Table V, the specific limit is applicable rather than the adhesive-to-substrate limit in Table VI.

(2) If an owner or operator of a facility uses or applies at the facility an adhesive to bond dissimilar substrates together, the applicable substrate category with the highest VOC content limit is the limit for this use.

(e) An owner or operator of a facility subject to this section using or applying a surface preparation solvent or cleanup solvent at the facility may not:

(1) Except as provided in paragraph (2) for single-ply roof membrane, use materials containing VOCs for surface preparation, unless the VOC content of the surface preparation solvent is less than 70 grams per liter of material or 0.6 pound of VOC per gallon of material.

(2) Use materials containing VOCs for surface preparation or cleanup when applying single-ply roof membrane, unless the composite partial vapor pressure, excluding water and exempt compounds, of the surface preparation solvent or cleanup solvent is less than or equal to 45 mm mercury at 20° C.

(3) Except as provided in subsection (f), use cleanup solvent materials containing VOCs for the removal of adhesives, sealants, adhesive primers or sealant primers from surfaces, other than from the parts of spray application equipment, unless the composite partial vapor pressure of the solvent is less than or equal to 45 mm mercury at 20° C.

(f) through (i) See Work Practice Requirements.

(j) An owner or operator of a facility subject to this section who uses or applies an adhesive, sealant, adhesive primer or sealant primer subject to this section may not add solvent to the adhesive, sealant, adhesive primer or sealant primer in an amount in excess of the manufacturer's recommendation for application, if this addition causes the adhesive, sealant, adhesive primer or sealant primer to exceed the applicable VOC content limit listed in Table V or VI, unless the emissions are controlled through the use of add-on air pollution control equipment as specified in subsection (g).

(k) through (n) See Additional Requirements.

Table V. VOC Content Limits for Adhesives, Sealants, Adhesive Primers and Sealant Primers, As Applied

**SECTION E. Source Group Plan Approval Restrictions.**

Adhesive, sealant, adhesive primer or
sealant primer category

VOC content limit (pounds VOC per gallon, less water and exempt compounds)* VOC content limit (grams VOC per liter,
less water and exempt compounds)*

Adhesives

ABS welding 3.3 400

Ceramic tile installation 1.1 130

Computer diskette jacket manufacturing 7.1 850

Contact bond 2.1 250

Cove base installation 1.3 150

CPVC welding 4.1 490

Indoor floor covering installation 1.3 150

Metal to urethane/rubber molding or casting 7.1 850

Multipurpose construction 1.7 200

Nonmembrane roof installation/repair 2.5 300

Outdoor floor covering installation 2.1 250

Perimeter bonded sheet vinyl flooring installation 5.5 660

Plastic cement welding, other than ABS, CPVC or PVC welding 4.3 510

PVC welding 4.3 510

Sheet rubber installation 7.1 850

Single-ply roof membrane installation/ repair 2.1 250

Structural glazing 0.8 100

Thin metal laminating 6.5 780

Tire retread 0.8 100

Waterproof resorcinol glue 1.4 170

Sealants

Architectural 2.1 250

Marine deck 6.3 760

Nonmembrane roof installation/repair 2.5 300

Roadway 2.1 250

Single-ply roof membrane 3.8 450

Other 3.5 420

Adhesive Primers

Automotive glass 5.8 700

Plastic cement welding 5.4 650

Single-ply roof membrane 2.1 250

Traffic marking tape 1.3 150

Other 2.1 250

Sealant Primers

Marine deck 6.3 760

Nonporous architectural 2.1 250

Porous architectural 6.5 775

Other 6.3 750

*The VOC content is determined as the weight of VOC per volume of product, less water and exempt compounds, as specified in subsections (See Additional Requirements) (bb) and (cc) or as the weight of VOC per volume of product, as specified in subsection (dd).

Table VI. VOC Content Limits for Adhesive or Sealant Products Applied to Particular Substrates, As Applied

Adhesive or Sealant Products

Applied to the Listed

Substrate VOC content limit (pounds VOC per gallon, less water and exempt compounds)* VOC content limit (grams VOC per liter, less water and exempt compounds)*

Fiberglass 1.7 200

Flexible vinyl 2.1 250

Metal 0.3 30

**SECTION E. Source Group Plan Approval Restrictions.**

Porous material 1.0 120

Rubber 2.1 250

Other substrates 2.1 250

*The VOC content is determined as the weight of VOC per volume of product, less water and exempt compounds, as specified in subsections (See Additional Requirements) (bb) and (cc) or as the weight of VOC per volume of product, as specified in subsection (dd).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.**# 002 [25 Pa. Code §129.77.]****Control of emissions from the use or application of adhesives, sealants, primers and solvents.**

(g) 1 through 4, See Work Practice Requirements.

(g)

(5) Operation records sufficient to demonstrate compliance with the requirements of this section are maintained in accordance with subsections (o), (p) and (q).

(6) The following information is also recorded and maintained:

(i) Daily records of the volume used each day of each noncomplying as applied adhesive, sealant, adhesive primer, sealant primer, surface preparation solvent and cleanup solvent.

(ii) Daily records of the hours of operation of the add-on air pollution control equipment.

(iii) Records of all maintenance performed on the add-on air pollution control equipment, including the date and type of maintenance.

(7) and (8) See Work Practice Requirements.

(k) through (n) See Additional Requirements.

(o) Except as provided in subsection (p), each owner or operator subject to this section shall maintain records demonstrating compliance with this section, including the following information:

(1) A list of each adhesive, sealant, adhesive primer, sealant primer, surface preparation solvent and cleanup solvent product in use and in storage.

(2) A data sheet or material list which provides the product name, manufacturer identification and use or material application for each product included on the list required under paragraph (1).

(3) The VOC content of each product on the list required under paragraph (1), as supplied.

(4) Catalysts, reducers or other components used and the mix ratio.

(5) The VOC content or vapor pressure of each product on the list required by paragraph (1), as applied, if solvent or other VOC is added to the product before application.

(6) The volume purchased or produced of each product on the list required under paragraph (1).

**SECTION E. Source Group Plan Approval Restrictions.**

(7) The monthly volume used or applied as part of a manufacturing process at the facility of each product on the list required under paragraph (1).

(p) For an adhesive, sealant, adhesive primer and sealant primer product subject to the laboratory testing exemption of subsection (k)(1), the person conducting the testing shall make and maintain records of all products used, including the following information:

- (1) The product name.
- (2) The product category of the material or type of application.
- (3) The VOC content of the material.

(q) Records made to determine compliance with this section shall be:

- (1) Maintained onsite for 5 years from the date the record is created.
- (2) Made available to the Department upon receipt of a written request.

(r) through (ff) See Additional Requirements.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

003 [25 Pa. Code §129.77.]

Control of emissions from the use or application of adhesives, sealants, primers and solvents.

(b) through (e) See Emission Restrictions

(f) Removal of an adhesive, sealant, adhesive primer or sealant primer from the parts of spray application equipment shall be performed by one or more of the following methods:

- (1) Using an enclosed cleaning system, or an equivalent cleaning system as determined by the test method identified in subsection (z).
- (2) Using a solvent with a VOC content less than or equal to 70 grams of VOC per liter of material or 0.6 pound of VOC per gallon of material.
- (3) Soaking parts containing dried adhesive in a solvent if the composite partial vapor pressure of the solvent, excluding water and exempt compounds, is less than or equal to 9.5 mm mercury at 20° C and the parts and solvent are in a closed container that remains closed except when adding parts to or removing parts from the container.

(g) An owner or operator of a facility using or applying at the facility an adhesive, sealant, adhesive primer, sealant primer, surface preparation solvent or cleanup solvent subject to the VOC content limits of this section may comply with the requirements of this section through the use of add-on air pollution control equipment if the following requirements are met:

- (1) The VOC emissions from the use of all noncomplying as applied adhesives, sealants, adhesive primers, sealant primers, surface preparation solvents and cleanup solvents subject to this section are reduced by an overall efficiency of at least 85%, by weight.
 - (i) The capture efficiency of the system shall be determined in accordance with subsection (y)(1).
 - (ii) The control efficiency of the system shall be determined in accordance with subsection (y)(2).
- (2) The combustion temperature is continuously monitored and recorded daily if a thermal incinerator is operated.

**SECTION E. Source Group Plan Approval Restrictions.**

- (3) Inlet and exhaust gas temperatures are continuously monitored and recorded daily if a catalytic incinerator is operated.
- (4) Control device efficiency is monitored continuously and recorded daily if a carbon absorber or control device other than a thermal or catalytic incinerator is operated.
- (5) Operation records sufficient to demonstrate compliance with the requirements of this section are maintained in accordance with subsections (o), (p) and (q).
- (6) See Recordkeeping Requirements.
- (7) The control equipment is approved, in writing, by the Department in an operating permit.
- (8) The owner or operator of a facility that intends to comply with this section using add-on air pollution control equipment may apply to the Department for an extension to the compliance date specified in subsections (a)—(c).
- (i) The Department will approve the extension request if the request meets the requirements in subparagraph (ii).
- (ii) The extension request must:
- (A) Be received, in writing, by January 1, 2012.
- (B) Include the date by which a permit application or request for plan approval will be submitted.
- (C) Demonstrate to the Department's satisfaction that an extension is necessary.
- (iii) An extension will be automatically revoked if the recipient fails to comply with its terms by the dates specified in it.
- (h) An owner or operator of a facility subject to this section shall store or dispose of all absorbent materials, including cloth or paper, which are moistened with adhesives, sealants, primers, surface preparation solvents or cleanup solvents subject to this section, in nonabsorbent containers at the facility that are kept closed except when placing materials in or removing materials from the container.
- (i) An owner or operator of a facility subject to this section may not solicit, require or specify the use or application of an adhesive, sealant, adhesive primer, sealant primer, surface preparation solvent or cleanup solvent if the use or application would result in a violation of this section, unless the emissions are controlled through the use of add-on air pollution control equipment as specified in subsection (g). The prohibition of this subsection applies to all written or oral contracts created on or after January 1, 2012, under which an adhesive, sealant, adhesive primer, sealant primer, surface preparation solvent or cleanup solvent subject to this section is to be used or applied at a facility in this Commonwealth.
- (j) An owner or operator of a facility subject to this section who uses or applies an adhesive, sealant, adhesive primer or sealant primer subject to this section may not add solvent to the adhesive, sealant, adhesive primer or sealant primer in an amount in excess of the manufacturer's recommendation for application, if this addition causes the adhesive, sealant, adhesive primer or sealant primer to exceed the applicable VOC content limit listed in Table V or VI, unless the emissions are controlled through the use of add-on air pollution control equipment as specified in subsection (g).
- (k) through (n) See Additional Requirements

VII. ADDITIONAL REQUIREMENTS.**# 004 [25 Pa. Code §129.77.]****Control of emissions from the use or application of adhesives, sealants, primers and solvents.**

- (a) This section applies to the owner or operator of a facility that uses or applies one or more of the following at the facility on or after January 1, 2012:
- (1) An adhesive, sealant, adhesive primer or sealant primer subject to the VOC content limits in Table V.
- (2) An adhesive or sealant product applied to the listed substrate subject to the VOC content limits in Table VI.

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(3) A surface preparation solvent or cleanup solvent.

(b) through (e) See Emission Restrictions.

(f) through (j) See Work Practice Requirements

(k) This section does not apply to the use or application of the following compounds or products:

(1) Adhesives, sealants, adhesive primers or sealant primers being tested or evaluated in a research and development, quality assurance or analytical laboratory, if records are maintained as required in subsections (p) and (q).

(2) Adhesives, sealants, adhesive primers or sealant primers that are subject to other sections in this chapter or Chapter 130 (relating to standards for products).

(3) Adhesives and sealants that contain less than 20 grams of VOC per liter of adhesive or sealant, less water and less exempt compounds, as applied.

(4) Cyanoacrylate adhesives.

(5) Adhesives, sealants, adhesive primers or sealant primers that are sold or supplied by the manufacturer or supplier in containers with a net volume of 16 fluid ounces or less, or a net weight of 1 pound or less, except plastic cement welding adhesives and contact adhesives.

(6) Contact adhesives that are sold or supplied by the manufacturer or supplier in containers with a net volume of 1 gallon or less.

(l) This section does not apply to the use of adhesives, sealants, adhesive primers, sealant primers, surface preparation solvents or cleanup solvents in the following operations:

(1) Tire repair operations, if the label of the adhesive states, "For tire repair only."

(2) The assembly, repair and manufacture of aerospace components or undersea-based weapons systems.

(3) The manufacture of medical equipment.

(4) Plaque laminating operations in which adhesives are used to bond clear, polyester acetate laminate to wood with lamination equipment installed prior to July 1, 1992. An owner or operator claiming an exemption under this paragraph shall record and maintain operational records sufficient to demonstrate compliance with this exemption, in accordance with subsections (o)—(q).

(m) This section does not apply if the total VOC emissions from all adhesives, sealants, adhesive primers and sealant primers used or applied at the facility are less than 200 pounds or an equivalent volume, per calendar year. An owner or operator of a facility claiming exemption under this subsection shall record and maintain operational records sufficient to demonstrate compliance with this exemption, in accordance with subsections (o)—(q).

(n) This section does not apply to the use or application of a noncomplying adhesive, sealant, adhesive primer, sealant primer, surface preparation solvent or cleanup solvent if the total volume of noncomplying adhesives, sealants, primers, surface preparation and cleanup solvents used or applied facility-wide does not exceed 55 gallons per calendar year. An owner or operator of a facility claiming exemption under this subsection shall record and maintain operational records sufficient to demonstrate compliance with this exemption, in accordance with subsections (o)—(q).

(o) through (q) See Work Practice Requirements.

(r) Except as otherwise provided in this section, the VOC and solids content of nonaerosol adhesives (including one-part moisture cure urethane adhesives and silicone adhesives), sealants, adhesive primers, sealant primers, surface preparation solvents and cleanup solvents shall be determined using one of the following:

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(1) EPA Reference Method 24, Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings, found at 40 CFR 60, Subpart D, Appendix A, including updates and revisions.

(2) SCAQMD Method 304, Determination of Volatile Organic Compounds (VOC) in Various Materials, SCAQMD, 21865 Copley Drive, Diamond Bar, CA 91765 USA, including updates and revisions.

(s) The weight volatile matter content and weight solids content for one-part or multiple part reactive adhesives, except one-part moisture cure urethane adhesives and silicone adhesives, shall be determined using the EPA Reference Method, Determination of Weight Volatile Matter Content and Weight Solids Content of Reactive Adhesives, found at 40 CFR 63, Subpart P, Appendix A, including updates and revisions.

(t) The identity and concentration of exempt organic compounds shall be determined using one of the following:

(1) ASTM D4457, Standard Test Method for Determination of Dichloromethane and 1,1,1-Trichloroethane in Paints and Coatings by Direct Injection into a Gas Chromatograph, ASTM International, 100 Barr Harbor Drive, P. O. Box C700, West Conshohocken, PA 19428-2959 USA including updates and revisions.

(2) SCAQMD Method 303, Determination of Exempt Compounds, SCAQMD, 21865 Copley Drive, Diamond Bar, CA 91765 USA, including updates and revisions.

(u) The VOC content of a plastic cement welding adhesive or primer shall be determined using SCAQMD Method 316A, Determination of Volatile Organic Compounds (VOC) in Materials Used for Pipes and Fittings, SCAQMD, 21865 Copley Drive, Diamond Bar, CA 91765 USA, including updates and revisions.

(v) To determine if a diluent is a reactive diluent, the percentage of the reactive organic compound that becomes an integral part of the finished material shall be determined using SCAQMD Method 316A, Determination of Volatile Organic Compounds (VOC) in Materials Used for Pipes and Fittings, SCAQMD, 21865 Copley Drive, Diamond Bar, CA 91765 USA, including updates and revisions.

(w) The composite partial vapor pressure of organic compounds in cleaning materials shall be determined by the following procedure:

(1) Quantifying the amount of each compound in the blend using gas chromatographic analysis, using the following methods:

(i) ASTM E260, Standard Practice for Packed Column Gas Chromatography, ASTM International, 100 Barr Harbor Drive, P. O. Box C700, West Conshohocken, PA 19428-2959 USA, for organic content, including updates and revisions.

(ii) ASTM D3792, Standard Test Method for Water Content of Coatings by Direct Injection Into a Gas Chromatograph, ASTM International, 100 Barr Harbor Drive, P. O. Box C700, West Conshohocken, PA 19428-2959 USA, for water content, including updates and revisions.

(2) Calculating the composite partial vapor pressure using the following equation:

n

$(W_i)(V_{Pi})/MW_i$

$i=1$

$PP_c =$

kn

$W_w/MW_w + W_e/MW_e + W_i/MW_i$

$e=1$

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Where:

PPc = VOC composite partial vapor pressure at 20° C, in mm mercury.

Wi = Weight of the "i"th VOC compound, in grams, as determined by ASTM E260.

Ww = Weight of water, in grams, as determined by ASTM D3792.

We = Weight of the "e"th exempt compound, in grams, as determined by ASTM E260.

MWi = Molecular weight of the "i"th VOC compound, in grams per g-mole, as given in chemical reference literature.

MWw = Molecular weight of water, in grams per g-mole (18 grams per g-mole).

MWe = Molecular weight of the "e"th exempt compound, in grams per g-mole, as given in chemical reference literature.

VPI = Vapor pressure of the "i"th VOC compound at 20° C, in mm mercury, as determined by subsection (x).

(x) The vapor pressure of each single component compound shall be determined from one or more of the following:

(1) ASTM D2879, Standard Test Method for Vapor Pressure-Temperature Relationship and Initial Decomposition Temperature of Liquids by Isoteniscope, ASTM International, 100 Barr Harbor Drive, P. O. Box C700, West Conshohocken, PA 19428-2959 USA, including updates and revisions.

(2) The most recent edition of one or more of the following sources:

(i) Vapour Pressures of Pure Substances, Boublik, Elsevier Scientific Publishing Company, New York.

(ii) Perry's Chemical Engineers' Handbook, Green and Perry, McGraw-Hill Book Company.

(iii) CRC Handbook of Chemistry and Physics, CRC Press.

(iv) Lange's Handbook of Chemistry, McGraw-Hill Book Company.

(v) Additional sources approved by the SCAQMD or other California air districts.

(y) If air pollution control equipment is used to meet the requirements of this section, the owner or operator shall make both of the following determinations:

(1) The measurement of capture efficiency shall be conducted and reported in accordance with the EPA Technical Document "Guidelines for Determining Capture Efficiency," issued January 9, 1995.

(2) The control efficiency shall be determined in accordance with one of the following:

(i) EPA Reference Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, found at 40 CFR 60, Subpart D, Appendix A, including updates and revisions.

(ii) EPA Reference Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, found at 40 CFR 60, Subpart D, Appendix A, including updates and revisions.

(iii) EPA Reference Method 25B, Determination of Total Gaseous Organic Concentration Using a Nondispersive Infrared Analyzer, found at 40 CFR 60, Subpart D, Appendix A, including updates and revisions.

(iv) CARB Method 100, Procedures for Continuous Gaseous Emission Stack Sampling, California Air Resources Board, 1001 "I" Street, Post Office Box 2815, Sacramento, CA 95812 USA, including updates and revisions.

(z) The active and passive solvent losses from the use of an enclosed spray gun cleaning system or equivalent cleaning

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system, as listed in subsection (f)(1), shall be determined using the SCAQMD method, General Test Method for Determining Solvent Losses from Spray Gun Cleaning Systems, dated October 3, 1989, SCAQMD, 21865 Copley Drive, Diamond Bar, CA 91765 USA, including updates and revisions.

(1) The test solvent for this determination shall be a lacquer thinner with a minimum vapor pressure of 105 mm of mercury at 20° C.

(2) The minimum test temperature shall be 15° C.

(aa) Another test method may be used to determine the VOC or solids content of a product if the request for approval of the test method meets the following requirements:

(1) The request is submitted to the Department in writing.

(2) The request demonstrates that the test method provides results that accurately determine the concentration of VOCs in the product or its emissions.

(3) The Department approves the request in writing.

(bb) For adhesive, sealant, adhesive primer or sealant primer products that do not contain reactive diluents, grams of VOC per liter of product thinned to the manufacturer's recommendation, less water and exempt compounds, shall be calculated according to the following equation:

Grams of VOC per liter of product, as applied = $W_s - W_w - W_e$
 $V_m - V_w - V_e$

Where:

W_s = weight of volatile compounds, in grams.

W_w = weight of water, in grams.

W_e = weight of exempt compounds, in grams.

V_m = volume of material, in liters.

V_w = volume of water, in liters.

V_e = volume of exempt compounds, in liters.

(cc) For adhesive, sealant, adhesive primer or sealant primer products that contain reactive diluents, the VOC content of the product is determined after curing. The grams of VOC per liter of product thinned to the manufacturer's recommendation, less water and exempt compounds, shall be calculated according to the following equation:

Grams of VOC per liter of product, as applied = $W_{rs} - W_{rw} - W_{re}$
 $V_{rm} - V_{rw} - V_{re}$

Where:

W_{rs} = weight of volatile compounds not consumed during curing, in grams.

W_{rw} = weight of water not consumed during curing, in grams.

W_{re} = weight of exempt compounds not consumed during curing, in grams.

V_{rm} = volume of material not consumed during curing, in liters.

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V_{rw} = volume of water not consumed during curing, in liters.

V_{re} = volume of exempt compounds not consumed during curing, in liters.

(dd) For low-solids adhesive, sealant, adhesive primer or sealant primer products, grams of VOC per liter of product thinned to the manufacturer's recommendation, including the volume of water and exempt compounds, shall be calculated according to the following equation:

Grams of VOC per liter of product, as applied = $W_s - W_w - W_e$
 V_m

Where:

W_s = weight of volatile compounds, in grams.

W_w = weight of water, in grams.

W_e = weight of exempt compounds, in grams.

V_m = volume of material, in liters.

(ee) Percent VOC by weight shall be calculated according to the following equation:

% VOC by weight = $[(W_v/W)] \times 100$

Where:

W_v = weight of VOCs, in grams.

W = weight of material, in grams.

(ff) To convert from grams per liter (g/l) to pounds per gallon (lb/gal), multiply the result (VOC content) by 8.345×10^{-3} (lb/gal/g/l).

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
201	SPRAY BOOTH #1		
Emission Limit		Pollutant	
0.040	gr/DRY FT3	TSP	
5.120	Tons/Yr	in any consecutive twelve (12) month rolling period.	VOC
202	ABRASIVE BLASTING BOOTH		
Emission Limit		Pollutant	
0.005	gr/DRY FT3	of effluent gas volume.	TSP

Site Emission Restriction Summary

Emission Limit		Pollutant
6.000 Tons/Yr	on a 12-month rolling basis.	VOC
2.000 Tons/Yr	on a 12-month rolling basis.	Methyl Ethyl Ketone



SECTION H. Miscellaneous.



***** End of Report *****
