State of Ohio Environmental Protection Agency

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Columbus, OH 43216-1049

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7/23/2009

Wendy Myers
Quantum Technologies & Services, Inc.
948 Columbus Avenue
Marysville, OH 43040

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0180010401
Permit Number: P0104565
Permit Type: Initial Installation
County: Union

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate ("PTIO") which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, www.epa.state.oh.us/dapc, from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of $70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Central District Office. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page www.epa.state.oh.us/dapc.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-CDO

State of Ohio Environmental Protection Agency
Division of Air Pollution Control

FINAL

Air Pollution Permit-to-Install and Operate

for

Quantum Technologies & Services, Inc.

Facility ID:	0180010401
Permit Number:	P0104565
Permit Type:	Initial Installation
Issued:	7/23/2009
Effective:	7/23/2009
Expiration:	7/23/2014

State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Air Pollution Permit-to-Install and Operate
for
Quantum Technologies & Services, Inc.

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Authorization

Facility ID: 0180010401
Application Number(s): A0037100
Permit Number: P0104565
Permit Description: Installation of a dry filter type spray booth (K101) and coating mixing room (P101)
Permit Type: Initial Installation
Permit Fee: $400.00
Issue Date: 7/23/2009
Effective Date: 7/23/2009
Expiration Date: 7/23/2014
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15
This document constitutes issuance to:

Quantum Technologies & Services, Inc.
648 Clymer Rd
Marysville, OH 43040

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Central District Office
50 West Town Street, 6th Floor
P.O. Box 1049
Columbus, OH 43216-1049
(614)728-3778

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director

Authorization (continued)

Permit Number: P0104565
Permit Description: Installation of a dry filter type spray booth (K101) and coating mixing room (P101)

Permits for the following emissions unit(s) or groups of emissions units are in this document as indicated below:

Emissions Unit ID:	**K101**
Company Equipment ID:	Booth C1
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P101**
Company Equipment ID:	Mixing Room
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

A. Standard Terms and Conditions

1. **What does this permit-to-install and operate ("PTIO") allow me to do?**

   This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. **Who is responsible for complying with this permit?**

   The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

   The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. **What records must I keep under this permit?**

   You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. **What are my permit fees and when do I pay them?**

   There are two fees associated with permitted air contaminant sources in Ohio:

   - PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

     You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

   - Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. **When does my PTIO expire, and when do I need to submit my renewal application?**

   This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Central District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the

change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

   a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

      (1) None.

   b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

      (1) C.1.b)(1)f. (Note: HAPs limit only, VOC limit not facility-wide), C.1.b)(2)f., C.2.b)(1)b. (Note: HAPs limit only, VOC limit not facility-wide), b)(2).c., and d)(2).

C. Emissions Unit Terms and Conditions

1. K101

Operations, Property and/or Equipment Description:

one spray booth (K101), with HVLP spray gun, dry filters, and two internal natural gas-fired drying ovens (0.88 million Btu per hour each), coating miscellaneous metal and plastic parts

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. d)(8)(9), and (10), and e(3).

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. b)(1)f., b)(2)e., f., and g., d)(7), and e(1).

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)(1)	Visible emissions from any stack shall not exceed twenty percent opacity as a six minute average, except as provided by the rule.
b.	OAC rule 3745-17-11(C)	See Section b)(2)b and(2)c
c.	OAC rule 3745-21-07(G)	Photochemically reactive organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day. See Section b)(2)d. below.
d.	OAC rule 3745-31-05(A)(3)	Volatile organic compound (VOC) emissions from K101 shall not exceed 13.22 pounds per hour. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
e.	OAC rule 3745-31-05(A)(3)(a)(ii)	See b)(2)i. below.
f.	OAC rule 3745-31-05(D) (Synthetic Minor to Avoid Title V)	Hazardous air pollutant (HAP) emissions from K001-K004, K006, P001, K101, and

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		P101 shall not exceed, as a rolling 12-month summation, 9.9 tons per year from any individual HAP and 24.9 tons per year from all HAPs combined from coating and cleanup material usage. Volatile organic compound (VOC) emissions from K101 and P101 shall not exceed, as a rolling 12-month summation, 18.24 tons per year from coating and cleanup material usage. See Section b)(2)e., f. and g.
g.	OAC rule 3745-114	See Section d)(8), (9), and (10), and e(3)

(2) Additional Terms and Conditions

a. Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

[OAC rule 3745-17-07(A)(1)]

b. On February 1, 2008, OAC rule 3745-17-11 was revised to include paragraph (C), pertaining to control requirements for particulate emissions from surface coating processes. These control requirements and the associated operational restrictions, monitoring, record keeping, and reporting requirements contained in this permit shall become federally enforceable on the date the U.S. EPA approves paragraph (C) of OAC rule 3745-17-11 as a revision to the Ohio State Implementation Plan.

[OAC rule 3745-17-11(C)]

c. The Permittee shall operate the dry particulate filter whenever this emissions unit is in operation.

[OAC rule 3745-17-11(C)(1)]; [OAC rule 3745-31-05(D)]

d. On February 18, 2008, OAC rule 3745-21-07 was revised in its entirety; therefore, the 21-07 rule that was in effect prior to this date is no longer part of the State regulations. On April 4, 2008, the rule revision was submitted to the U.S. EPA as a revision to Ohio=s State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to comply with the previous 21-07 rule provisions still exists as part of the federally-approved SIP for Ohio. The requirements of amended OAC rule 3745-21-07 do not apply to emissions units that are installed after February 18, 2008. The following terms and conditions shall become void after U.S. EPA approves the rule revision:

b)(1)c. and d)(6).

[OAC rule 3745-21-07]

e. Emission units K001-K004 and P001 (Permit No. P0104133) and K006 (Permit No. P0103659) are located at the following facility (Ohio EPA Facility ID: 0180010167) :

Precision Coating Systems, Inc
946 Columbus Ave.
Marysville, OH 43040

which is considered, along with Quantum Technologies and Services, Inc. (Ohio EPA Facility ID: 0180010401), to be one facility for the purposes of Title V applicability.

f. The facility-wide individual and combined hazardous air pollutant (HAP) emissions are effectively limited to less than 9.9 tons and 24.9 tons per year, respectively, by limiting the maximum annual total coating usage of K001-K004, K006, P001, to less than 10,000 gallons per year and the maximum annual total coating usage of K101 and P101 to less than 5,000 gallons per year.

g. The volatile organic compound (VOC) emissions from emission unit K101 and P101 are effectively limited to less than 18.24 tons per year by limiting the maximum annual total coating usage for K101 and P101 to less than 5,000 gallons per year based upon a rolling monthly summation of the coating usage figures.

h. The hourly VOC emissions limit is established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with this limit.

i. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to particulate emissions (PE) from this air contaminant source since the uncontrolled potential to emit for the criteria pollutant is less than ten tons per year.

c) Operational Restrictions

(1) The Permittee shall install, operate, and maintain a dry particulate filter system for the surface coating operations in accordance with the manufacturer=s recommendations, instructions, and/or operating manual(s) with any modifications deemed necessary by the Permittee. The dry particulate filter shall be employed during all periods of coating application to control particulate emissions.

[OAC rule 3745-17-11(C)(2)(b)]; [OAC rule 3745-31-05(D)]

(2) The Permittee shall expeditiously repair the dry particulate filter or otherwise return it to normal operations, as recommended by the manufacturer with any modifications deemed necessary by the Permittee, whenever it is determined that the control device is not operating in accordance with these requirements.

[OAC rule 3745-17-11(C)(2)(e)]

d) Monitoring and/or Recordkeeping Requirements

(1) The Permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the Permittee. These documents shall be maintained at the facility and shall be made available to the Ohio EPA, Central District Office, upon request.

[OAC 3745-17-11(C)(2)(a)]

(2) The Permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer=s recommendations, instructions, or operating manuals with any modifications deemed necessary by the Permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the Permittee shall maintain a copy of the manufacturer=s recommended inspection frequency and it shall be made available to the Ohio EPA, Central District Office, upon request.

[OAC rule 3745-17-11(C)(2)(c)]

(3) In addition to the recommended periodic inspections, not less than once each calendar year the Permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.

[OAC rule 3745-17-11(C)(2)(c)]

(4) The Permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:

a. the date of the inspection;

b. a description of each/any problem identified and the date it was corrected;

c. a description of any maintenance and repairs performed; and

d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the Ohio EPA, Central District Office, upon request.

[OAC rule 3745-17-11(C)(2)(d) and (f)]

(5) The Permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit was in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer=s recommendations with any documented modifications made by the Permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA, Central District Office, upon request.

[OAC rule 3745-17-11(C)(2)(f) and (g)]

(6) The Permittee shall collect and record the following information for each day for emissions unit K101:

a. the company identification for each coating and photochemically reactive cleanup material employed;

b. the number of gallons of each coating and photochemically reactive cleanup material employed;

c. the organic compound content of each coating and photochemically reactive cleanup material, in pounds per gallon;

d. for each day during which a photochemically reactive material is employed, the total organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day;

e. for each day during which a photochemically reactive material is employed, the total number of hours the emissions unit was in operation; and

f. for each day during which a photochemically reactive material is employed, the average hourly organic compound emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in pounds per hour (average).

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definitions of Aphotochemically reactive@ and Anonphotochemically reactive@ are based upon OAC rule 3745-21-01(C)(5).]

[OAC rule 3745-21-07(G)(2)]

(7) The Permittee shall maintain monthly records of the following for emissions units K101 and P101:

a. the company identification of each coating and cleanup material employed;

b. the total number of gallons of each coating and cleanup material employed;

c. the volatile organic compound (VOC), individual hazardous air pollutant (HAP), and total HAP content of each coating and cleanup material employed, in pounds per gallon;

d. the VOC, individual HAP, and total HAP emissions from each coating and cleanup material employed, in pounds;

e. the total VOC, individual HAP, and total HAP emissions from the emission units for all coatings and cleanup materials employed, in pounds;

f. the updated rolling, 12-month summation of the total VOC individual HAP, and total HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

g. the total gallons of all coatings and cleanup materials employed for all coatings and cleanup materials employed; and,

h. the updated rolling, 12-month summation for usage of all coatings and cleanup materials employed, in gallons. This shall include the information for the current month and the preceding eleven calendar months.

(8) The federally enforceable permit-to-install and operate (FEPTIO) application for this emissions unit, spray booth K101, was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the Permittee. The AToxic Air Contaminant Statute@, ORC 3704.03(F), was applied to this emissions unit for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled AReview of New Sources of Air Toxic Emissions, Option A@, as follows:

a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound emitted from the emissions unit, (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists= (ACGIH) AThreshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices@; or

ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists= (ACGIH) AThreshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices@; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.

b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).

c. This standard was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., 24 hours per day and 7 days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV/10 \times 8/24 \times 5/7 = 4\ TLV/XY = MAGLC$$

d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or Aworst case@ toxic contaminant(s):

Toxic Contaminant: xylene (worst case; also toluene, MIBK)

TLV (mg/m3): 434 mg/m^3

Maximum Hourly Emission Rate (lbs/hr): 7.43

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 22.21

MAGLC (ug/m3): 10,338

The Permittee, has demonstrated that emissions of xylene from emissions unit K101, are calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the AToxic Air Contaminant Statute@, ORC 3704.03(F).

[ORC 3704.03(F)(3)(c) and F(4)], [OAC rule 3745-114-01], Option A, Engineering Guide #70

(9) Prior to making any physical changes to or changes in the method of operation of the emissions unit, that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration@, the Permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:

a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and

c. physical changes to the emissions unit or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the Permittee determines that the AToxic Air Contaminant Statute@ will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the AToxic Air Contaminant Statute@, ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a “modification”, the Permittee shall apply for and obtain a final FEPTIO prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the Permittee to submit a permit application for the increased emissions.

[ORC 3704.03(F)(3)(c) and F(4)], [OAC rule 3745-114-01], Option A, Engineering Guide #70

(10) The Permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the AToxic Air Contaminant Statute@, ORC 3704.03(F):

a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);

b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the AToxic Air Contaminant Statute@, ORC 3704.03(F);

c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the AToxic Air Contaminant Statute@, ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and

d. the documentation of the initial evaluation of compliance with the AToxic Air Contaminant Statute@, ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

[ORC 3704.03(F)(3)(c) and F(4)], [OAC rule 3745-114-01], Option A, Engineering Guide #70

e) Reporting Requirements

(1) The Permittee shall submit quarterly deviation (excursion) reports that identify:

a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the Potential to Emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:

i. HAP emissions limitation outlined in b)(2)f.,

ii. VOC emissions limitation outlined in b)(2)g, and;

iii. all exceedances of the rolling, monthly coating usage limitation.

b. the probable cause of each deviation (excursion);

c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and

d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted (postmarked) each year by the thirty-first of January (covering October to December), the thirtieth of April (covering January to March), the thirty-first of July (covering April to June), and the thirty-first of October (covering July to September), unless an alternative schedule has been established and approved by the director (Ohio EPA, Central District Office).

[OAC rule 3745-15-03(B)(1)(b)] and [OAC rule 3745-15-03(C)]

(2) Annual Permit Evaluation Report (PER) forms will be mailed to the Permittee at the end of the reporting period specified in the Authorization section of this permit. The Permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

[OAC rule 3745-15-03(B)(2)] and [OAC rule 3745-15-03(D)]

(3) The Permittee shall include any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration, in the annual permit evaluation report (PER). If no changes to the emissions, emissions unit(s), or the exhaust stack have been made, then the report shall include a statement to this effect.

[ORC 3704.03(F)(3)(c) and F(4)], [OAC rule 3745-114-01],

f) Testing Requirements

(1) Compliance with the emission limitation shall be determined in accordance with the following methods:

a. Emissions Limitation

VOC emissions from K101 shall not exceed 13.22 lbs/hr, excluding cleanup solvent usage

Applicable Compliance Method

The hourly emission rate was derived from the maximum coating application rate and maximum coating solvent content (as applied) as follows: 2.0 gal/hr * 6.61 lbs VOC/gal = 13.22 lbs VOC/hr

b. Emissions Limitation:

The maximum annual coating usage for K101 and P101 shall not exceed 5,000 gallons of coating based on a rolling, 12-month summation of monthly usages.

Applicable Compliance Method:

Compliance with the annual usage restrictions shall be determined by summing the monthly usages for the calendar year.

c. Emissions Limitation:

Volatile organic compound (VOC) emissions from K101 and P101 shall not exceed 18.24 tons of VOC per year, based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method

Compliance shall be demonstrated by record keeping in d)(7), above.

d. Emissions Limitation

Facility-wide emissions from K001-K004, K006, P001, K101 and P101 shall not exceed 9.9 of an individual HAP and 24.9 tons of total combined HAPs per year, based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method

Compliance shall be demonstrated by record keeping in d)(7), above.

e. Emission Limitation:

Visible PE from any stack serving this emissions unit shall not exceed 20% opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance with the above visible emission limitation shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

g) Miscellaneous Requirements

(1) None.

2. P101, Mixing Room

Operations, Property and/or Equipment Description:

one mixing room for mixing/preparing coatings for use in spray booth K101

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. b)(1)b., b)(2)b., c., and d., d)(2) and e)(1)

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-21-07 (G)(2)	When mixing photochemically reactive coatings organic compound emissions shall not exceed 8 lbs organic compounds (OC)/hr, 40 lbs OC/day See Section b)(2)a. below.
b.	OAC rule 3745-31-05(D) (Synthetic Minor to Avoid Title V)	Hazardous air pollutant (HAP) emissions from K001-K004, K006, P001, K101, and P101 shall not exceed, as a rolling 12-month summation, 9.9 tons per year from any individual HAP and 24.9 tons per year from all HAPs combined from coating and cleanup material usage. Volatile organic compound (VOC) emissions from K101 and P101 shall not exceed, as a rolling 12-month summation, 18.24 tons per year from coating and cleanup material usage. See b)(2)b., c., and d., d)(2) and e)(1)

(2) Additional Terms and Conditions

a. On February 18, 2008, OAC rule 3745-21-07 was revised in its entirety; therefore, the 21-07 rule that was in effect prior to this date is no longer part of the State regulations. On April 4, 2008, the rule revision was submitted to the U.S. EPA as a revision to Ohio=s State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to comply with the previous 21-07 rule provisions still exists as part of the federally-approved SIP for Ohio. The requirements of amended OAC rule 3745-21-07 do not apply to emissions units that are installed after February 18, 2008. The following terms and conditions shall become void after U.S. EPA approves the rule revision:

b)(1)a. and d)(1).

[OAC rule 3745-21-07]

b. Emission units K001-K004 and P001 (Permit No. P0104133) and K006 (Permit No. P0103659) are located at the following facility (Ohio EPA Facility ID: 0180010167) :

Precision Coating Systems, Inc
946 Columbus Ave.
Marysville, OH 43040

which is considered, along with Quantum Technologies and Services, Inc. (Ohio EPA Facility ID: 0180010401), to be one facility for the purposes of Title V applicability.

c. The facility-wide individual and combined hazardous air pollutant (HAP) emissions are effectively limited to less than 9.9 tons and 24.9 tons per year, respectively, by limiting the maximum annual total coating usage from K001-K004, K006, and P001 to less than 10,000 gallons per year and the coating gallon usage from K101 and P101 to less than 5,000 gallons per year based upon a rolling, 12-month summation of the coating usage figures.

d. The volatile organic compound (VOC) emissions from K101 and P101 are effectively limited to less than 18.24 tons per year, respectively, by limiting the maximum annual total coating gallon usage to less than 5,000 gallons per year based upon a rolling, 12-month summation of the coating usage figures.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall collect and record the following information for each day for the coating operation when using photochemically reactive material:

a. The company identification for each coating and photochemically reactive cleanup material mixed,

b. The number of gallons of each coating and photochemically reactive cleanup material mixed,

c. The organic compound content of each coating and photochemically reactive cleanup material, in pounds per gallon.

d. The total organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day (calculated using an AP-42 emission factor of 0.1 lb VOC / lb VOC in gallon).

e. For each day during which a photochemically reactive material is employed, the total number of hours the emissions unit was in operation.

f. For each day during which a photochemically reactive material is employed, the average hourly organic compound emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in pounds per hour (average).

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definitions of Aphotochemically reactive@ and Anonphotochemically reactive@ are based upon OAC rule 3745-21-01(C)(5).]

(2) The permittee shall collect and record the following information each month for K101-P101:

a. The name and identification number of each coating employed, thinner, and cleanup material employed.

b. The total volume, in gallons, of each coating, thinner, and cleanup material employed.

c. The individual HAP content of each coating, thinner, and cleanup material in pounds per gallon.

d. The total HAP emissions from all coatings, thinners, and cleanup materials employed, in pounds or tons.

e. The total emissions of each individual HAP from all coatings, thinners, and cleanup materials employed, in pounds or tons.

f. The rolling, 12-month summations of the data required in each of the items d. and e. above.

e) Reporting Requirements

(1) The Permittee shall submit quarterly deviation (excursion) reports that identify:

a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the Potential to Emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:

i. HAP emissions limitation outlined in b)(2)c.,

ii. VOC emissions limitation outlined in b)(2)d, and;

iii. all exceedances of the rolling, monthly coating usage limitation.

b. the probable cause of each deviation (excursion);

c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and

d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted (postmarked) each year by the thirty-first of January (covering October to December), the thirtieth of April (covering January to March), the thirty-first of July (covering April to June), and the thirty-first of October (covering July to September), unless an alternative schedule has been established and approved by the director (Ohio EPA, Central District Office).

[OAC rule 3745-15-03(B)(1)(b)] and [OAC rule 3745-15-03(C)]

(2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

[OAC rule 3745-15-03(B)(2) and OAC rule 3745-15-03(D)]

f) Testing Requirements

(1) Compliance with the emission limitations in Section A.1 of the terms and conditions of this permit shall be determined in accordance with the following methods:

a. Emission Limitations: 8 lbs OC/hr, 40 lbs OC/day from coating non-metal products

Applicable Compliance Method: The record keeping requirements in Section d)(1) of this permit shall be used to determine compliance with the above limitations.

b. Emission Limitations: The volatile organic compound (VOC) emissions from K101 and P101 shall not exceed 18.24 tons per year from coating and cleanup material usage based upon a rolling, 12-month summation of the emissions.

Applicable Compliance Method: The record keeping requirements in Section d)(2) of this permit shall be used to determine compliance with the above limitation.

c. Emission Limitation: The hazardous air pollutants (HAP) emissions from K001-K004, K006, K101, P001 and P001 shall not exceed 9.9 tons per year from any individual HAP and 24.9 tons per year from all HAPs combined from coating and cleanup materials.

Applicable Compliance Method: Monthly records shall be maintained of the coating, thinner and cleanup material usages (as required in Section d)(2) and the hazardous air pollutant (HAP) content of each coating, thinner and cleanup material. Formulation data shall be used to determine the HAP contents of the coatings, thinners, and cleanup materials. The individual HAP emission rates for each coating, thinner, and cleanup material shall be calculated by multiplying the volume of material employed by the appropriate HAP content determined for that material. The individual HAP and total HAP emission rates for each month shall be calculated by adding the emission rates for all coatings, thinners, and cleanup materials employed during that time. The rolling, 12-month summations for individual HAP and total HAPs shall be calculated each month by adding the emission rate for that month to the emission rate for the previous 11 calendar months.

(2) USEPA Method 24 or formulation data shall be used to determine the VOC and OC contents of coatings and cleanup materials.

g) Miscellaneous Requirements

(1) None.