



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 1-4726-00009/00019
Effective Date: 06/16/2016 Expiration Date: 06/15/2021

Permit Issued To: AMERICAN TECHNICAL CERAMICS
1 NORDEN LN
HUNTINGTON STATION, NY 11746-2140

Facility: AMERICAN TECHNICAL CERAMICS
1 NORDEN LN AND 10 & 15 STEPAR PL
HUNTINGTON STATION, NY 11746

Contact: JANINE FERRANDIZ
AMERICAN TECHNICAL CERAMICS
1 NORDEN LN
HUNTINGTON STATION, NY 11746-2101
(631) 622-4833

Description:

This application is for a renewal of Title V permit. American Technical Ceramics Corporation provides component and interconnection substrate solution for RH microwave and Telecom industries. It designs, develops, manufactures and markets MLCC's. The facility operations include casting, mixing fume hood, batching room, furnace room, screening room with fume hood, kilns, cleaning room with fume hood, dicing room, rotary rooms, termination ink blending, electrode ink blending, quality control lab, chipstar, drying kilns, Polomar machines, nickel plating (lead/tin bath), gold plating, cyanide bath, lead/tin plating, chemical dispensing and waste storage, hand dip pots, degreaser and ovens.

New York State Department of Environmental Conservation
Facility DEC ID: 1472600009



By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: LAURA J SCOVAZZO
 NYSDEC - REGION 1 SUNY @ STONY BROOK
 50 CIRCLE RD
 STONY BROOK, NY 11790-3409

Authorized Signature: _____ Date: ___ / ___ / _____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

- Facility Inspection by the Department
- Relationship of this Permit to Other Department Orders and Determinations
- Applications for permit renewals, modifications and transfers
- Permit modifications, suspensions or revocations by the Department

Facility Level

- Submission of application for permit modification or renewal -
REGION 1 HEADQUARTERS



DEC GENERAL CONDITIONS

****** General Provisions ******

For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions.

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations

Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

The permittee must submit a renewal application at least 180 days before expiration of permits for both Title V and State Facility Permits.

Item 3.3:

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Condition 4: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:



The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

Condition 5: Submission of application for permit modification or renewal - REGION 1 HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator
Region 1 Headquarters
Division of Environmental Permits
Stony Brook University
50 Circle Road
Stony Brook, NY 11790-3409
(631) 444-0365

New York State Department of Environmental Conservation

Permit ID: 1-4726-00009/00019

Facility DEC ID: 1472600009



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

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1 NORDEN LN
HUNTINGTON STATION, NY 11746-2140

Facility: AMERICAN TECHNICAL CERAMICS
1 NORDEN LN AND 10 & 15 STEPAR PL
HUNTINGTON STATION, NY 11746

Authorized Activity By Standard Industrial Classification Code:
3675 - ELECTRONIC CAPACITORS

Permit Effective Date: 06/16/2016

Permit Expiration Date: 06/15/2021



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.4 (a) (7): Fees
- 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.4 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 18 6 NYCRR 202-1.1: Required Emissions Tests
- 19 40 CFR Part 68: Accidental release provisions.
- 20 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 21 6 NYCRR Subpart 201-6: Emission Unit Definition
- 22 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 23 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- 23 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- *24 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 25 6 NYCRR 211.1: Air pollution prohibited
- 26 40CFR 63, Subpart A: General Provisions-Effective for entire length of Permit
- 27 40CFR 63, Subpart WWWW: Deadlines for the submittal of initial notification of applicability-Effective for entire length of Permit
- 28 40CFR 63, Subpart WWWW: General requirements for initial notification of applicability-Effective for entire of Permit
- 29 40CFR 63, Subpart WWWW: Compliance Certification
- 30 40CFR 63, Subpart WWWW: Compliance Certification
- Emission Unit Level**
- 31 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 32 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

EU=1-50023,EP=00023

- 33 6 NYCRR 226.2: Compliance Certification
- 34 6 NYCRR 226.3 (b): Compliance Certification
- 35 6 NYCRR 226.4 (b): Compliance Certification



STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 36 ECL 19-0301: Contaminant List
- 37 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 38 6 NYCRR 211.2: Visible Emissions Limited

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.

- Item A: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)**
The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.
- Item B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (a) (4)**
Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.
- Item C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (d) (12)**
Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- Item D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (a) (2)**
The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)**
This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and



reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4 (a) (5)

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

Item G: Property Rights - 6 NYCRR 201-6.4 (a) (6)

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

Item H: Severability - 6 NYCRR 201-6.4 (a) (9)

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

Item I: Permit Shield - 6 NYCRR 201-6.4 (g)

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V



facility for any violation of applicable requirements prior to or at the time of permit issuance;

iii. The applicable requirements of Title IV of the Act;

iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item J: Reopening for Cause - 6 NYCRR 201-6.4 (i)

This Title V permit shall be reopened and revised under any of the following circumstances:

i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide



Condition 5: Compliance Certification
Effective between the dates of 06/16/2016 and 06/15/2021

Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (3) (ii)

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring



report required above.

(4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate



whether or not the Department or EPA has approved the results.

All semiannual reports may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2016.

Subsequent reports are due every 6 calendar month(s).

Condition 6: Compliance Certification
Effective between the dates of 06/16/2016 and 06/15/2021

Applicable Federal Requirement: 6 NYCRR 201-6.4 (e)

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions;



and

- such additional requirements as may be specified elsewhere in this permit related to compliance certification.

ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.

iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

iv. All annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Stationary Source Compliance Section
USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
NYSDEC- Region 1 Headquarters
Stony Brook University
50 Circle Road
Stony Brook, NY 11790-3409

The address for the BQA is as follows:

NYSDEC

New York State Department of Environmental Conservation

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Facility DEC ID: 1472600009



Emission Unit: 0-10003
Emission Unit Description:
Batching Room

Building(s): 1

Item 21.4:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 0-10004
Emission Unit Description:
Furnace Room/BBO

Building(s): 1

Item 21.5:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-00200
Emission Unit Description:
Screening room with fume hood

Building(s): 10

Item 21.6:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-00202
Emission Unit Description:
Kilns

Building(s): 10

Item 21.7:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-00203
Emission Unit Description:
Screen cleaning room: vents for solvent use, cleaning
room with fume hood, low point room

Building(s): 10

Item 21.8:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-00204
Emission Unit Description:
Dicing room

Building(s): 10

Item 21.9:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-00205
Emission Unit Description:
Rotary room 2

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Building(s): 10

Item 21.10:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-00206

Emission Unit Description:

Rotary room 1 - Ceramic blocks are cut and ink is applied to some. Blank sheets are stacked to make a block; screens are cleaned with solvent soaked rags which contain 50% toluene and 50% isopropanol.

Building(s): 10

Item 21.11:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-30002

Emission Unit Description:

Termination ink blending - Formation of silvering inks and cleaning with 50% Axarel 2200 / 50% isopropanol solution.

Building(s): 15

Item 21.12:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-30200

Emission Unit Description:

Electrode ink blending - Preparation of palladium metal inks & cleaning of vessels/utensils using a solution of 50% isopropanol and 50% toluene.

Building(s): 15

Item 21.13:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50001

Emission Unit Description:

Quality control lab

Building(s): 15

Item 21.14:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50002

Emission Unit Description:

Chipstar

Building(s): 15

Item 21.15:

The facility is authorized to perform regulated processes under this permit for:

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Emission Unit: 1-50003
Emission Unit Description:
Drying kilns

Building(s): 15

Item 21.16:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50004
Emission Unit Description:
Palomar machines - ink application and cleaning

Building(s): 15

Item 21.17:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50006
Emission Unit Description:
Nickel plating lead/tin bath

Building(s): 15

Item 21.18:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50010
Emission Unit Description:
Parts cleaning and oven drying

Building(s): 15

Item 21.19:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50012
Emission Unit Description:
Lead/tin plating

Building(s): 15

Item 21.20:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50013
Emission Unit Description:
Assembly reflow kilns

Building(s): 15

Item 21.21:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50014
Emission Unit Description:
Chemical dispensing and waste storage

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Building(s): 15

Item 21.22:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50023

Emission Unit Description:

Branson 950R ultrasonic vapor degreaser which uses Lenium ES solvent. This replaced the previous degreaser which used 1,1,1 trichloroethane (TCE). The unit also contains fume hoods, hand dip pots and ovens.

Building(s): 15

Item 21.23:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50024

Emission Unit Description:

Abrading room

Building(s): 15

Item 21.24:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50027

Emission Unit Description:

QA lab hood, solder station, IPA and flux

Building(s): 15

Item 21.25:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50029

Emission Unit Description:

Fume hood

Building(s): 15

Item 21.26:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50030

Emission Unit Description:

Belt cleaning and chip wash

Building(s): 15

Item 21.27:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50031

Emission Unit Description:

SBE plating, parts cleaning and oven drying - SBE automatic nickel/tin plating system; parts cleaning and oven drying.

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Building(s): 15

Item 21.28:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-50032

Emission Unit Description:

Mold making area and Humiseal

Building(s): 15

Condition 22: Progress Reports Due Semiannually
Effective between the dates of 06/16/2016 and 06/15/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (d) (4)

Item 22.1:

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

(i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

(ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Condition 23: Facility Permissible Emissions
Effective between the dates of 06/16/2016 and 06/15/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 23.1:

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 0NY998-00-0

PTE: 48,000 pounds per year

Name: VOC

Condition 23: Facility Permissible Emissions
Effective between the dates of 06/16/2016 and 06/15/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 23.1:

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

New York State Department of Environmental Conservation

Permit ID: 1-4726-00009/00019

Facility DEC ID: 1472600009



CAS No: 0NY998-00-0
Name: VOC

PTE: 48,000 pounds per year

Condition 24: Capping Monitoring Condition
Effective between the dates of 06/16/2016 and 06/15/2021

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 24.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR 212-3.1 (a) (1)

Item 24.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 24.3:

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Item 24.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 24.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 24.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY998-00-0 VOC

Item 24.7:

Compliance Certification shall include the following monitoring:

Capping: Yes
Monitoring Type: MONITORING OF PROCESS OR CONTROL



DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Facility owner shall ensure that cumulative emissions of Volatile Organic Compounds (VOC), including those from permitted, exempt, and trivial sources, will remain less than 48,000 pounds during any consecutive 12 month period.

Facility owner shall maintain records that verify the facility's monthly VOC emissions. These records must be maintained at the facility for a minimum period of five years. Reports will be submitted Semi-annually, in a format acceptable to the Commissioner's representative, which document that the facility's VOC emissions over any consecutive 12 month period were below 48,000 pounds. The reports must include information that documents the VOC emissions from all emission sources. The report must also include all emission factors and other data used in calculating the monthly VOC emissions. Any noncompliance with the VOC emission limit in this condition must be reported by sending a copy of such record to the NYSDEC Region 1 within 30 days of the occurrence.

Parameter Monitored: VOC

Upper Permit Limit: 24 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2016.

Subsequent reports are due every 6 calendar month(s).

Condition 25: Air pollution prohibited
Effective between the dates of 06/16/2016 and 06/15/2021

Applicable Federal Requirement:6 NYCRR 211.1

Item 25.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 26: General Provisions-Effective for entire lengthof Permit
Effective between the dates of 06/16/2016 and 06/15/2021

Applicable Federal Requirement:40CFR 63, Subpart A

Item 26.1:

This condition applies to:

New York State Department of Environmental Conservation

Permit ID: 1-4726-00009/00019

Facility DEC ID: 1472600009



Emission Unit:1-50006

Emission Unit'1-500012

Item 26.2:

This emission source is subject to the applicable provisions of 40CFR 63 Subpart A. The facility owner is responsible for complying with all applicable technical, administrative and reporting requirements.

**Condition 27: Deadlines for the submittal of initial notification of applicability-Effective for entire length of Permit
Effective between the dates of 06/16/2016 and 06/15/2021**

Applicable Federal Requirement:40CFR 63, Subpart WWWWWW

Item 27.1:

For a new affected source after July 1, 2008, the initial notification of applicability, as required by 40CFR 63.1109 (a), shall be submitted no later than 120 calendar days after the facility become subject to this subpart. For an existing affected source, the initial notification shall be submitted no later than 120 calendar days after July 1, 2008.

**Condition 28: General requirements for initial notification of applicability-Effective for entire of Permit
Effective between the dates of 06/16/2016 and 06/15/2021**

Applicable Federal Requirement:40CFR 63, Subpart WWWWWW

Item 28.1:

Applicable notifications required under 40CFR 63.11509 (a) and (b) must be submitted by the dates specified in those sections.

**Condition 29: Compliance Certification
Effective between the dates of 06/16/2016 and 06/15/2021**

Applicable Federal Requirement:40CFR 63, Subpart WWWWWW

Item 29.1:

The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: 1-50006

Emission Unit: 1-50012

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP



Item 29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For Nickel Plating (Lead/Tin bath) and Lead/Tin plating (copper bath), the facility must implement the applicable management practices in following paragraph (1) through (12), as practicable.

- (1) Minimize bath agitation when removing any parts processed in the tank, as practicable except when necessary to meet part quality requirements.
- (2) Maximize the draining of bath solution back into the tank, as practicable, by extending drip time when removing parts from the tank; using drain boards (also known as drip shields); or withdrawing parts slowly from the tank, as practicable.
- (3) Optimize the design of barrels, racks, and parts to minimize dragout of bath solution (such as by using slotted barrels and tilted racks, or by designing parts with flow-through holes to allow the tank solution to drip back into the tank), as practicable.
- (4) Use tank covers, if already owned and available at the facility, whenever practicable.
- (5) Minimize or reduce heating of process tanks, as practicable (e.g., when doing so would not interrupt production or adversely affect part quality).
- (6) Perform regular repair, maintenance, and preventive maintenance of racks, barrels, and other equipment associated with affected sources, as practicable.
- (7) Minimize bath contamination, such as through the prevention or quick recovery of dropped parts, use of distilled/de-ionized water, water filtration, pre-cleaning of parts to be plated, and thorough rinsing of pre-treated parts to be plated, as practicable.
- (8) Maintain quality control of chemicals, and chemical and other bath ingredient concentrations in the tanks, as practicable.
- (9) Perform general good housekeeping, such as regular sweeping or vacuuming, if needed, and periodic washdowns, as practicable.
- (10) Minimize spills and overflow of tanks, as

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Permit ID: 1-4726-00009/00019

Facility DEC ID: 1472600009



practicable.

(11) Use squeegee rolls in continuous or reel-to-reel plating tanks, as practicable.

(12) Perform regular inspections to identify leaks and other opportunities for pollution prevention.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

Subsequent reports are due every 12 calendar month(s).

Condition 30: Compliance Certification
Effective between the dates of 06/16/2016 and 06/15/2021

Applicable Federal Requirement:40CFR 63, Subpart WWWW

Item 30.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-50006

Emission Unit: 1-50012

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 30.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For Nickel Plating (Lead/Tin bath) and Lead/Tin plating (Copper bath) the facility must comply with the requirements in following paragraph (1), (2) or (3).

1)The facility must use a wetting agent/fume suppressant, as defined in §63.11511, "What definitions apply to this subpart?", in the bath of the affected tank according to paragraphs (a)(1)(i) through (iii) of this section.

(i)The facility must initially add the wetting agent/fume suppressant in the amounts recommended by the manufacturer for the specific type of electrolytic process.

(ii) The facility must add wetting agent/fume suppressant



in proportion to the other bath chemistry ingredients that are added to replenish the tank bath, as in the original make-up of the tank.

(iii) If a wetting agent/fume suppressant is included in the electrolytic process bath chemicals used in the affected tank according to the manufacturer's instructions, it is not necessary to add additional wetting agent/fume suppressants to the tank to comply with this rule.

(2) The facility must capture and exhaust emissions from the affected tank to any one of the following emission control devices: composite mesh pad, packed bed scrubber, or mesh pad mist eliminator, according to paragraphs (a)(2)(i) and (ii) of this section.

(i) The facility must operate all capture and control devices according to the manufacturer's specifications and operating instructions.

(ii) The facility must keep the manufacturer's specifications and operating instructions at the facility at all times in a location where they can be easily accessed by the operators.

(3) The facility must cover the tank surface according to paragraph (a)(3)(i) or (ii) of this section.

(i) For batch electrolytic process tanks, as defined in §63.11511, "What definitions apply to this subpart?", you must use a tank cover, as defined in §63.11511, over all of the effective surface area of the tank for at least 95 percent of the electrolytic process operating time.

(ii) For continuous electrolytic process tanks, as defined in §63.11511, "What definitions apply to this subpart?", you must cover at least 75 percent of the surface of the tank, as defined in §63.11511, whenever the electrolytic process tank is in operation.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

Subsequent reports are due every 12 calendar month(s).



**** Emission Unit Level ****

Condition 31: Emission Point Definition By Emission Unit
Effective between the dates of 06/16/2016 and 06/15/2021

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 31.1:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 0-10001

Emission Point: 01001
Height (ft.): 35 Diameter (in.): 12
NYTMN (km.): 4521.9 NYTME (km.): 632.6 Building: 1

Item 31.2:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 0-10002

Emission Point: 01002
Height (ft.): 35 Diameter (in.): 12
NYTMN (km.): 4521.9 NYTME (km.): 632.6 Building: 1

Item 31.3:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 0-10003

Emission Point: 01003
Height (ft.): 36 Diameter (in.): 3
NYTMN (km.): 4521.9 NYTME (km.): 632.6 Building: 1

Item 31.4:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 0-10004

Emission Point: 01004
Height (ft.): 35 Diameter (in.): 12
NYTMN (km.): 4521.9 NYTME (km.): 632.6 Building: 1

Item 31.5:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-00200

Emission Point: 00200
Height (ft.): 25 Diameter (in.): 12
NYTMN (km.): 4521.9 NYTME (km.): 632.6 Building: 10



Item 31.6:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-00202
Emission Point: 00202
Height (ft.): 25 Diameter (in.): 16
NYTMN (km.): 4521.9 NYTME (km.): 632.6 Building: 10

Item 31.7:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-00203
Emission Point: 00203
Height (ft.): 25 Diameter (in.): 8
NYTMN (km.): 4521.9 NYTME (km.): 632.6 Building: 10

Item 31.8:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-00205
Emission Point: 00205
Height (ft.): 25 Diameter (in.): 14
NYTMN (km.): 4521.9 NYTME (km.): 632.6 Building: 10
Emission Point: 00206
Height (ft.): 25 Diameter (in.): 12
NYTMN (km.): 4521.9 NYTME (km.): 632.6 Building: 10

Item 31.9:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-00206
Emission Point: 00220
Height (ft.): 25 Diameter (in.): 14
NYTMN (km.): 4521.9 NYTME (km.): 632.6 Building: 10
Emission Point: 00221
Height (ft.): 25 Diameter (in.): 12
NYTMN (km.): 4521.9 NYTME (km.): 632.6 Building: 10

Item 31.10:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-30002
Emission Point: 30002
Height (ft.): 29 Diameter (in.): 9
NYTMN (km.): 4521.9 NYTME (km.): 632.5 Building: 15



Item 31.11:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-30200
Emission Point: 30200
Height (ft.): 29 Diameter (in.): 9
NYTMN (km.): 4521.9 NYTME (km.): 632.5 Building: 15

Item 31.12:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50001
Emission Point: 00001
Height (ft.): 23 Diameter (in.): 10
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.13:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50002
Emission Point: 00002
Height (ft.): 23 Diameter (in.): 10
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.14:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50003
Emission Point: 00003
Height (ft.): 26 Diameter (in.): 22
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.15:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50004
Emission Point: 00004
Height (ft.): 19 Diameter (in.): 14
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.16:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50006
Emission Point: 00006

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Height (ft.): 19 Diameter (in.): 31
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.17:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50010

Emission Point: 00010
Height (ft.): 19 Diameter (in.): 31
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.18:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50012

Emission Point: 00012
Height (ft.): 16 Diameter (in.): 36
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.19:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50013

Emission Point: 00013
Height (ft.): 20 Diameter (in.): 18
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.20:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50014

Emission Point: 00014
Height (ft.): 17 Diameter (in.): 10
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.21:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50023

Emission Point: 00023
Height (ft.): 20 Diameter (in.): 18
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.22:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50024



Emission Point: 00024
Height (ft.): 32 Diameter (in.): 18
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.23:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50027

Emission Point: 00027
Height (ft.): 26 Diameter (in.): 18
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.24:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50029

Emission Point: 00029
Height (ft.): 19 Diameter (in.): 10
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.25:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50030

Emission Point: 00030
Height (ft.): 25 Diameter (in.): 8
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.26:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50031

Emission Point: 00031
Height (ft.): 28 Diameter (in.): 36
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Item 31.27:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-50032

Emission Point: 00032
Height (ft.): 10 Diameter (in.): 8
NYTMN (km.): 4522. NYTME (km.): 632.5 Building: 15

Condition 32: Process Definition By Emission Unit
Effective between the dates of 06/16/2016 and 06/15/2021



Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 32.1:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 0-10001
Process: P24 Source Classification Code: 3-05-030-99
Process Description:
Casting - 12 casting machines - ceramic roll formation.
Dryers on casting belt batches contain isopropanol.

Emission Source/Control: 10011 - Process

Item 32.2:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 0-10002
Process: P21 Source Classification Code: 3-13-035-02
Process Description: Mixing fume hood - Exhaust for the mixing area.

Emission Source/Control: 10021 - Process

Item 32.3:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 0-10003
Process: P22 Source Classification Code: 3-05-030-99
Process Description:
Batching room - Batch mixing and formation of ceramic.
Various mixers (all <100 gallons) and grinders. Batches
contain alcohol.

Emission Source/Control: 10031 - Process

Item 32.4:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 0-10004
Process: P25 Source Classification Code: 3-04-020-04
Process Description:
Furnace room/BBO - Furnace room for binder burnout.

Emission Source/Control: 10041 - Process

Emission Source/Control: 10042 - Process

Item 32.5:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-00200
Process: P18 Source Classification Code: 4-05-008-01

New York State Department of Environmental Conservation

Permit ID: 1-4726-00009/00019

Facility DEC ID: 1472600009



Process Description:

Screening room with fume hood - Screening room, for the manufacture of screens for printing. Also the removal of metal on screen print to etch pattern (ferric chloride is used).

Emission Source/Control: 02001 - Process

Item 32.6:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-00202

Process: P19

Source Classification Code: 3-04-020-04

Process Description: Firing in Kiln

Emission Source/Control: 02021 - Process

Item 32.7:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-00203

Process: P20

Source Classification Code: 4-02-009-04

Process Description:

Screen cleaning room/low point room; vents for solvent use - A cleaning room with a fume hood. Vent is for solvent use - cork and tape removal of blocks, soak in a solution of 80%/20% mixes of Speedball/IPA and Axarel 2200/IPA.

Emission Source/Control: 02031 - Process

Item 32.8:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-00204

Process: P23

Source Classification Code: 3-05-030-99

Process Description:

Dicing room - Cutting of ceramics parts to required sizes.

Emission Source/Control: 02042 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 02041 - Process

Item 32.9:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-00205

Process: P30

Source Classification Code: 4-05-008-01

Process Description:

Ceramic blanks are cut, ink is applied to some blanks

New York State Department of Environmental Conservation

Permit ID: 1-4726-00009/00019

Facility DEC ID: 1472600009



sheets are stacked to make a block; screens are cleaned with solvent soaked rags which contain 50/50 toluene/isopropanol.

Emission Source/Control: 02005 - Process

Item 32.10:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-00206

Process: P31

Source Classification Code: 4-05-008-01

Process Description:

Ceramic blanks are cut, ink is applied to some blanks sheets are stacked to make a block; screens are cleaned with solvent soaked rags which contain 50/50 toluene/isopropanol.

Emission Source/Control: 02002 - Process

Item 32.11:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-30002

Process: P26

Source Classification Code: 3-13-035-02

Process Description:

Termination ink blending - formation of silvering inks and cleaning with 50% Axeral 2200 and 50% isopropanol solution.

Emission Source/Control: 30021 - Process

Emission Source/Control: 30022 - Process

Item 32.12:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-30200

Process: P60

Source Classification Code: 3-13-035-02

Process Description:

Electrode ink blending - Preparation of palladium metal inks & cleaning of vessels/utensils using a solution of 50% isopropanol and 50% toluene.

Emission Source/Control: 30200 - Process

Item 32.13:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-50001

Process: P01

Source Classification Code: 6-31-340-27

Process Description:

Quality control lab - Testing and rating of parts; also



Item 32.18:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-50010
Process: P09 Source Classification Code: 4-01-002-02
Process Description:
Parts cleaning and oven drying - ovens to drive off acetone.

Emission Source/Control: 00101 - Process

Item 32.19:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-50012
Process: P10 Source Classification Code: 3-09-060-05
Process Description:
Lead/tin plating - performed under fume hood. Also, copper bath performed under fume hood.

Emission Source/Control: 00121 - Process

Item 32.20:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-50013
Process: P61 Source Classification Code: 3-13-035-01
Process Description:
Solder reflow kiln - parts are passed through electric furnace to melt solder.

Emission Source/Control: 00131 - Process

Item 32.21:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-50014
Process: P11 Source Classification Code: 4-02-009-04
Process Description:
Chemical dispensing and waste storage - storage area for solvents.

Emission Source/Control: 00141 - Process

Item 32.22:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-50023
Process: P12 Source Classification Code: 4-02-009-29
Process Description:
Fume hood, hand dip pots, solder dip pots, degreaser.
Parts are degreased under a fume hood using a Branson



model B950R degreaser and Lunium ES solvent.

Emission Source/Control: 00231 - Process

Emission Source/Control: 00232 - Process

Emission Source/Control: 00233 - Process

Emission Source/Control: 00234 - Process

Item 32.23:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-50024

Process: P13

Source Classification Code: 3-13-035-01

Process Description:

Abrading room - hand dip pots; aluminum oxide particles.

Emission Source/Control: 00242 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00241 - Process

Item 32.24:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-50027

Process: P15

Source Classification Code: 4-02-009-29

Process Description: QA lab hood, solder station, IPA and flux

Emission Source/Control: 00271 - Process

Item 32.25:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-50029

Process: P17

Source Classification Code: 3-09-060-05

Process Description:

Fume hood - Atomic adsorption and termination paste firing under fume hood.

Emission Source/Control: 00291 - Process

Emission Source/Control: 00292 - Process

Item 32.26:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-50030

Process: P27

Source Classification Code: 3-13-030-63

Process Description: Belt Cleaning and chip wash



Emission Source/Control: 00300 - Process

Item 32.27:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-50031
Process: P29 Source Classification Code: 3-09-060-05
Process Description:
SBE automatic nickel/tin plating system. parts cleaning
and oven drying

Emission Source/Control: 00310 - Process

Item 32.28:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-50032
Process: P28 Source Classification Code: 3-08-006-99
Process Description: Mold making area

Emission Source/Control: 00320 - Process

Condition 33: Compliance Certification
Effective between the dates of 06/16/2016 and 06/15/2021

Applicable Federal Requirement:6 NYCRR 226.2

Item 33.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-50023 Emission Point: 00023

Regulated Contaminant(s):
CAS No: 000067-63-0 ISOPROPYL ALCOHOL
CAS No: 000075-65-0 2-METHYL-2-PROPANOL
CAS No: 000106-88-7 ETHYL OXIRANE
CAS No: 000109-87-5 METHANE, DIMETHOXY
CAS No: 000106-94-5 PROPANE, 1-BROMO-

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person shall conduct solvent metal cleaning
unless:
(a)Solvent is stored in covered containers and waste
solvent is transferred or disposed of in such manner that
less than 20% of the waste solvent (by weight) can
evaporate into the atmosphere.
(b)equipment used in solvent metal cleaning is maintained
to minimize leaks and fugitive emissions.



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(c)Equipment used in solvent metal cleaning displays a conspicuous summary of proper operating procedures consistent with minimizing emissions of volatile organic compounds.

(d)Equipment covers are closed when the solvent metal cleaning unit is not in service.

(e)A record of solvent consumption shall be maintained for each year and made available for review.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

Subsequent reports are due every 12 calendar month(s).

Condition 34: Compliance Certification
Effective between the dates of 06/16/2016 and 06/15/2021

Applicable Federal Requirement:6 NYCRR 226.3 (b)

Item 34.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-50023

Emission Point: 00023

Regulated Contaminant(s):

| | |
|---------------------|---------------------|
| CAS No: 000067-63-0 | ISOPROPYL ALCOHOL |
| CAS No: 000075-65-0 | 2-METHYL-2-PROPANOL |
| CAS No: 000106-88-7 | ETHYL OXIRANE |
| CAS No: 000109-87-5 | METHANE, DIMETHOXY |
| CAS No: 000106-94-5 | PROPANE, 1-BROMO- |

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except where otherwise permitted by the commissioner, the following device is required by a source owner conducting solvent metal cleaning:

Open-top vapor degreasing.

(1)The cover shall be operated easily without disturbing the vapor zone.

(2)Safety switches shall shut off sump heat if the condenser malfunctions and shall shut off the pump if vapor level drops excessively.

(3)One of the following shall be provided:

(I) a free board ratio that is greater than or equal to 0.75, and a powered or mechanically assisted cover if the top opening is greater than 10 square feet;

(ii) a refrigerated chiller;

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- (iii) local exhaust ventilation and an adsorption or other system for collection of volatile organic compound;
- or
- (iv) an enclosed design whereby the cover is open only when the dry part is entering or exiting the degreaser.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

Subsequent reports are due every 12 calendar month(s).

Condition 35: Compliance Certification
Effective between the dates of 06/16/2016 and 06/15/2021

Applicable Federal Requirement: 6 NYCRR 226.4 (b)

Item 35.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-50023

Emission Point: 00023

Regulated Contaminant(s):

| | |
|---------------------|---------------------|
| CAS No: 000067-63-0 | ISOPROPYL ALCOHOL |
| CAS No: 000075-65-0 | 2-METHYL-2-PROPANOL |
| CAS No: 000106-88-7 | ETHYL OXIRANE |
| CAS No: 000109-87-5 | METHANE, DIMETHOXY |
| CAS No: 000106-94-5 | PROPANE, 1-BROMO- |

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except where otherwise permitted by the commissioner, the following operating practices are required by a source owner conducting solvent metal cleaning for Open-top vapor degreasing:

- (1) Minimize solvent carryout by the following measures:
 - (i) rack parts to allow full drainage;
 - (ii) move parts in and out of degreaser tank at less than 11 ft/min;
 - (iii) degrease the work load in the vapor zone at least 30 seconds or until condensation ceases;
 - (iv) tip out any pools of solvent before removal; and
 - (v) dry parts for at least 15 seconds or visually dry before removal.
- (2) Degrease only nonporous or nonadsorbent material.

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(3) Work loads shall not occupy more than half of degreaser tank open-top area.

(4) Spray only below the vapor level.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

Subsequent reports are due every 12 calendar month(s).



STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;

(3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

Item B: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and



standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

Condition 36: Contaminant List
Effective between the dates of 06/16/2016 and 06/15/2021

Applicable State Requirement:ECL 19-0301

Item 36.1:

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 000067-63-0
Name: ISOPROPYL ALCOHOL

CAS No: 000075-65-0
Name: 2-METHYL-2-PROPANOL

CAS No: 000106-88-7
Name: ETHYL OXIRANE

CAS No: 000106-94-5
Name: PROPANE, 1-BROMO-

CAS No: 000109-87-5
Name: METHANE, DIMETHOXY

CAS No: 0NY100-00-0
Name: TOTAL HAP

CAS No: 0NY998-00-0
Name: VOC

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emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

