



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

STATE ONLY NATURAL MINOR OPERATING PERMIT

Issue Date: April 14, 2022

Effective Date: April 25, 2022

Expiration Date: April 24, 2027

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

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated.

State Only Permit No: 09-00222

Natural Minor

Federal Tax Id - Plant Code: 83-1884969-1

Owner Information

Name: KYMERA INTL
Mailing Address: 105 PHYLLIS AVE
CROYDON, PA 19021-7509

Plant Information

Plant: KYMERA INTL LLC/CROYDON
Location: 09 Bucks County 09001 Bristol Township
SIC Code: 5093 Wholesale Trade - Scrap And Waste Materials

Operator

Name: TELEX METALS [If different from owner]
Mailing Address: 105 PHYLLIS AVE
CROYDON, PA 19021-7509

Responsible Official

Name: JOHN GURULE
Title: PLANT MANAGER
Phone: (215) 781 - 6335 Ext.101 Email: john.gurule@kymerainternational.com

Permit Contact Person

Name: JOHN GURULE
Title: PLANT MANAGER
Phone: (215) 781 - 6335 Ext.101 Email: john.gurule@kymerainternational.com

[Signature] _____
JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER



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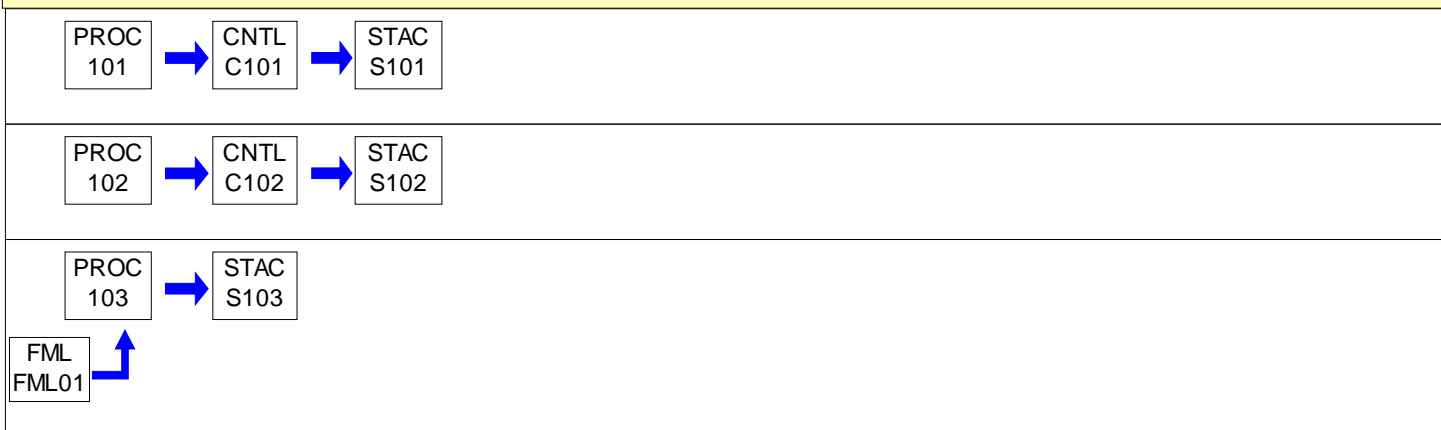
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Source ID	Source Name	Capacity/Throughput	Fuel/Material
101	HYDROCHLORIC ACID (HCL) METAL REFINING LINE		
102	NITRIC ACID (HNO3) METAL REFINING LINE		
103	GENERAC EMERGENCY GENERATOR SET	N/A	Natural Gas
C101	HCL LINE PACKED TOWER WET SCRUBBER		
C102	HNO3 LINE PACKED TOWER WET SCRUBBERS (TWO IN SERIES)		
FML01	NATURAL GAS PIPELINE		
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S102	HNO3 LINE PACKED TOWER WET SCRUBBER STACK		
S103	GENERAC EMERGENCY GENERATOR SET STACK		

PERMIT MAPS

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

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

#002 [25 Pa. Code § 127.446]**Operating Permit Duration.**

(a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.

(b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

#003 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446 & 127.703(b)]**Permit Renewal.**

(a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.

(b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

(c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.

(d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.

(e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).

(f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

#004 [25 Pa. Code § 127.703]**Operating Permit Fees under Subchapter I.**

(a) The permittee shall pay the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.

(1) For a synthetic minor facility, a fee equal to:

(i) Four thousand dollars (\$4,000) for calendar years 2021—2025.

(ii) Five thousand dollars (\$5,000) for calendar years 2026—2030.

(iii) Six thousand three hundred dollars (\$6,300) for the calendar years beginning with 2031.

**SECTION B. General State Only Requirements**

(2) For a facility that is not a synthetic minor, a fee equal to:

- (i) Two thousand dollars (\$2,000) for calendar years 2021—2025.
- (ii) Two thousand five hundred dollars (\$2,500) for calendar years 2026—2030.
- (iii) Three thousand one hundred dollars (\$3,100) for the calendar years beginning with 2031.

(b) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]**Transfer of Operating Permits.**

(a) This operating permit may not be transferred to another person, except in cases of transfer-of-ownership that are documented and approved by the Department.

(b) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership of the source shall be treated as an administrative amendment if the Department determines that no other change in the permit is required and a written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee and a compliance review form has been submitted to, and the permit transfer has been approved by, the Department.

(c) This operating permit is valid only for those specific sources and the specific source locations described in this permit.

#006 [25 Pa. Code § 127.441 and 35 P.S. § 4008]**Inspection and Entry.**

(a) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Department or authorized representatives of the Department to perform the following:

(1) Enter at reasonable times upon the permittee's premises where a source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(2) Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, any facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;

(4) Sample or monitor, at reasonable times, any substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.

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

#007 [25 Pa. Code §§ 127.441 & 127.444]**Compliance Requirements.**

(a) The permittee shall comply with the conditions of this operating permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one or more of the following:

**SECTION B. General State Only Requirements**

- (1) Enforcement action
- (2) Permit termination, revocation and reissuance or modification
- (3) Denial of a permit renewal application

(b) A person may not cause or permit the operation of a source which is subject to 25 Pa. Code Article III unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued for the source is operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

#008 [25 Pa. Code § 127.441]**Need to Halt or Reduce Activity Not a Defense.**

It shall not be a defense for the permittee in an enforcement action that it was necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#009 [25 Pa. Code §§ 127.442(a) & 127.461]**Duty to Provide Information.**

(a) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of each source at the facility.

(b) The permittee shall furnish to the Department, in writing, information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to maintain in accordance with this permit.

#010 [25 Pa. Code § 127.461]**Revising an Operating Permit for Cause.**

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

- (1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.
- (2) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.
- (4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

#011 [25 Pa. Code §§ 127.450, 127.462, 127.465 & 127.703]**Operating Permit Modifications**

(a) The permittee is authorized to make administrative amendments, minor operating permit modifications and significant operating permit modifications, under this permit, as outlined below:

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(b) Administrative Amendments. The permittee shall submit the application for administrative operating permit amendments (as defined in 25 Pa. Code § 127.450(a)), according to procedures specified in § 127.450 unless precluded by the Clean Air Act or its regulations.

(c) Minor Operating Permit Modifications. The permittee shall submit the application for minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(d) Significant Operating Permit Modifications. The permittee shall submit the application for significant operating permit modifications in accordance with 25 Pa. Code § 127.465.

(e) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

#012 [25 Pa. Code § 127.441]**Severability Clause.**

The provisions of this permit are severable, and if any provision of this permit is determined by a court of competent jurisdiction to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#013 [25 Pa. Code § 127.449]**De Minimis Emission Increases.**

(a) This permit authorizes de minimis emission increases in accordance with 25 Pa. Code § 127.449 so long as the permittee provides the Department with seven (7) days prior written notice before commencing any de minimis emissions increase. The written notice shall:

(1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

(b) The Department may disapprove or condition de minimis emission increases at any time.

(c) Except as provided below in (d), the permittee is authorized to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:

(1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.

(2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

(3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.

(4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

(5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

(6) Other sources and classes of sources determined to be of minor significance by the Department.

(d) In accordance with § 127.14, the permittee is authorized to install the following minor sources without the need for a plan approval or permit modification:

**SECTION B. General State Only Requirements**

(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

(2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

(3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.

(4) Space heaters which heat by direct heat transfer.

(5) Laboratory equipment used exclusively for chemical or physical analysis.

(6) Other sources and classes of sources determined to be of minor significance by the Department.

(e) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:

(1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (c)(4) and (5) of this permit condition.

(2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.

(3) Violate any applicable requirement of this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.

(g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

(h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#014 [25 Pa. Code § 127.3]**Operational Flexibility.**

The permittee is authorized to make changes within the facility in accordance with the regulatory provisions outlined in 25 Pa. Code § 127.3 (relating to operational flexibility) to implement the operational flexibility requirements provisions authorized under Section 6.1(i) of the Air Pollution Control Act and the operational flexibility terms and conditions of this permit. The provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements include the following:

(1) Section 127.14 (relating to exemptions)

(2) Section 127.447 (relating to alternative operating scenarios)

(3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)

(4) Section 127.449 (relating to de minimis emission increases)

(5) Section 127.450 (relating to administrative operating permit amendments)

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(6) Section 127.462 (relating to minor operating permit modifications)

(7) Subchapter H (relating to general plan approvals and general operating permits)

#015 [25 Pa. Code § 127.11]**Reactivation**

(a) The permittee may not reactivate a source that has been out of operation or production for at least one year unless the reactivation is conducted in accordance with a plan approval granted by the Department or in accordance with reactivation and maintenance plans developed and approved by the Department in accordance with 25 Pa. Code § 127.11a(a).

(b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).

#016 [25 Pa. Code § 127.36]**Health Risk-based Emission Standards and Operating Practice Requirements.**

(a) When needed to protect public health, welfare and the environment from emissions of hazardous air pollutants from new and existing sources, the permittee shall comply with the health risk-based emission standards or operating practice requirements imposed by the Department, except as precluded by §§ 6.6(d)(2) and (3) of the Air Pollution Control Act [35 P.S. § 4006.6(d)(2) and (3)].

(b) A person challenging a performance or emission standard established by the Department has the burden to demonstrate that performance or emission standard does not meet the requirements of Section 112 of the Clean Air Act.

#017 [25 Pa. Code § 121.9]**Circumvention.**

No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of 25 Pa. Code Article III, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#018 [25 Pa. Code §§ 127.402(d) & 127.442]**Reporting Requirements.**

(a) The permittee shall comply with the applicable reporting requirements of the Clean Air Act, the regulations thereunder, the Air Pollution Control Act and 25 Pa. Code Article III including Chapters 127, 135 and 139.

(b) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of any air contamination source.

(c) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given in the permit transmittal letter, or otherwise notified)

(d) Any records or information including applications, forms, or reports submitted pursuant to this permit condition shall contain a certification by a responsible official as to truth, accuracy and completeness. The certifications submitted under this permit shall require a responsible official of the facility to certify that based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate and complete.

(e) Any records, reports or information submitted to the Department shall be available to the public except for such

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records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

#019 [25 Pa. Code §§ 127.441(c) & 135.5]**Sampling, Testing and Monitoring Procedures.**

(a) The permittee shall comply with the monitoring, recordkeeping or reporting requirements of 25 Pa. Code Chapter 139 and the other applicable requirements of 25 Pa. Code Article III and additional requirements related to monitoring, reporting and recordkeeping required by the Clean Air Act and the regulations thereunder including the Compliance Assurance Monitoring requirements of 40 CFR Part 64, where applicable.

(b) Unless alternative methodology is required by the Clean Air Act and regulations adopted thereunder, sampling, testing and monitoring required by or used by the permittee to demonstrate compliance with any applicable regulation or permit condition shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139.

#020 [25 Pa. Code §§ 127.441(c) and 135.5]**Recordkeeping.**

(a) The permittee shall maintain and make available, upon request by the Department, the following records of monitored information:

- (1) The date, place (as defined in the permit) and time of sampling or measurements.
- (2) The dates the analyses were performed.
- (3) The company or entity that performed the analyses.
- (4) The analytical techniques or methods used.
- (5) The results of the analyses.
- (6) The operating conditions as existing at the time of sampling or measurement.

(b) The permittee shall retain records of any required monitoring data and supporting information for at least five (5) years from the date of the monitoring, sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

#021 [25 Pa. Code § 127.441(a)]**Property Rights.**

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

#022 [25 Pa. Code § 127.447]**Alternative Operating Scenarios.**

The permittee is authorized to make changes at the facility to implement alternative operating scenarios identified in this permit in accordance with 25 Pa. Code § 127.447.

**SECTION B. General State Only Requirements****#023 [25 Pa. Code §135.3]****Reporting**

(a) If the facility is a Synthetic Minor Facility, the permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported. All air emissions from the facility should be estimated and reported.

(b) A source owner or operator of a Synthetic Minor Facility may request an extension of time from the Department for the filing of an annual emissions report, and the Department may grant the extension for reasonable cause.

#024 [25 Pa. Code §135.4]**Report Format**

If applicable, the emissions reports shall contain sufficient information to enable the Department to complete its emission inventory. Emissions reports shall be made by the source owner or operator in a format specified by the Department.

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

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. Section 4003).

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

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

(1) Construction or demolition of buildings or structures.

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

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

(4) Clearing of land.

(5) Stockpiling of materials.

(6) Open burning operations, as specified in 25 Pa. Code § 129.14.

(7) N/A

(8) N/A

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

(i) The emissions are of minor significance with respect to causing air pollution.

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

003 [25 Pa. Code §123.31]**Limitations**

The permittee shall ensure that emission into the outdoor atmosphere of any malodorous air contaminants from any source occurs in such a manner that the malodors are not detectable outside the property of the person on whose land the source is being operated.

004 [25 Pa. Code §123.41]**Limitations**

The permittee shall ensure that emission into the outdoor atmosphere of visible air contaminants from this facility occurs in such a manner that the opacity of the emission is neither of the following.

(a) Equal to or greater than 20% for a period or periods aggregating more than 3 minutes in any 1 hour.

(b) Equal to or greater than 60% at any time.

005 [25 Pa. Code §123.42]**Exceptions**

The opacity limitations as per 25 Pa. Code § 123.41 shall not apply to a visible emission in any of the following instances.

(a) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.

(b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.

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(c) When the emission results from the sources specified in 25 Pa. Code § 123.1(a) (relating to prohibition of certain fugitive emissions).

006 [25 Pa. Code §129.14]**Open burning operations**

No person may permit the open burning of material in the Southeast Air Basin except where the open burning operations result from.

(a) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.

(b) Any fire set for the purpose of instructing personnel in firefighting, when approved by the Department.

(c) A fire set for the prevention and control of disease or pests, when approved by the Department.

(d) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.

(e) A fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure.

(f) A fire set solely for recreational or ceremonial purposes.

(g) A fire set solely for cooking food.

007 [25 Pa. Code §123.2]**Fugitive particulate matter**

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

II. TESTING REQUIREMENTS.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) If at any time the Department has cause to believe that air contaminant emissions from any source may be in excess of the limitations specified in this Operating Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).

(b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139 and the most current version of the DEP Source Testing Manual, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §123.43]****Measuring techniques**

The permittee may measure visible air contaminant emissions using either of the following.

(a) A device approved by the Department and maintained to provide accurate opacity measurements.

(b) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

**SECTION C. Site Level Requirements****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall monitor the facility, once per operating day, for the following.

- (1) Odors which may be objectionable (as per 25 Pa. Code §123.31).
- (2) Visible emissions (as per 25 Pa. Code §§123.41 and 123.42).
- (3) Fugitive particulate matter (as per 25 Pa. Code §§ 123.1 and 123.2).

(b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:

- (1) Be investigated.
- (2) Be reported to the facility management, or individual(s) designated by the permittee.
- (3) Have appropriate corrective action taken (for emissions that originate on-site).
- (4) Be recorded in a permanent written log.

(c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly.

(d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.

(e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification (if applicable), complaints, monitoring results, and/or Department findings.

IV. RECORDKEEPING REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records of all the facility's increases of emissions from the following categories.

- (a) Emissions increase of minor significance without notification to the Department.
- (b) De minimis increases with notification to the Department, via letter.
- (c) Increases resulting from a Request for Determination (RFD) to the Department.
- (d) Increases resulting from the issuance of a plan approval and subsequent operating permit.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall maintain a record of all monitoring of fugitive emissions, visible emissions and odors, including those that deviate from the conditions found in this permit. The record of deviations shall contain, at a minimum, the following items.

- (a) Date, time, and location of the incident(s).
- (b) The cause of the event.
- (c) The corrective action taken, if necessary, to abate the situation and prevent future occurrences.

V. REPORTING REQUIREMENTS.**# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department at 484-250-5920. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment,

**SECTION C. Site Level Requirements**

process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

(b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.

(c) The report shall describe the following.

- (1) Name, permit or authorization number, and location of the facility.
- (2) Nature and cause of the malfunction, emergency or incident.
- (3) Date and time when the malfunction, emergency or incident was first observed.
- (4) Expected duration of excess emissions.
- (5) Estimated rate of emissions.
- (6) Corrective actions or preventative measures taken.

(d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.

(e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.

(f) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.

(g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

014 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR Part 68.]

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

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

(1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following.

- (i) Three (3) years after the date on which a regulated substance is first listed in 40 CFR § 68.130.
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

**SECTION C. Site Level Requirements**

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

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

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

(d) If this facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall perform the following:

(1) Submit a compliance schedule for satisfying all applicable provisions of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a).

(2) Certify that the facility is in compliance with all applicable provisions of 40 CFR Part 68 including the registration and submission of the RMP.

(e) If the facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for 5 years in accordance with 40 CFR § 68.200.

(f) When the facility is subject to the accidental release program provisions of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if the permittee fails to register and submit the RMP or a revised plan pursuant to 40 C.F.R. Part 68.

VI. WORK PRACTICE REQUIREMENTS.**# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

A person responsible for any source specified 25 Pa. Code § 123.1 shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following.

(a) Use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.

(b) Application of asphalt, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.

(c) Paving and maintenance of roadways.

(d) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

016 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall ensure that the source(s) and air pollution control device(s), listed in this Operating Permit, are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturer's specifications.

017 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall immediately, upon discovery, implement measures which may include the application for the installation of an air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in this Operating Permit, is causing the emission of air

**SECTION C. Site Level Requirements**

contaminants in excess of the limitations specified in, or established pursuant to 25 Pa. Code Article III or any other applicable rule promulgated under the Clean Air Act.

018 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee may not modify any air contaminant system identified in this Operating permit, prior to obtaining Department approval, except those modifications authorized by Condition #013(g), of Section B, of this permit.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating to State Only General Requirements).

IX. COMPLIANCE SCHEDULE.

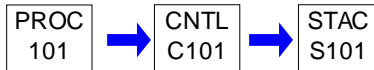
No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: 101

Source Name: HYDROCHLORIC ACID (HCL) METAL REFINING LINE

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that HCl emissions do not exceed 150 lbs/yr, calculated monthly as a 12-month rolling sum.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall monitor the following operating parameters on a per-job basis for the material processed.

- (1) The name/type of each metal comprising the material.
- (2) The date added to the line.
- (3) The amount added to the line (pounds).
- (4) The amount removed from the line (pounds).
- (5) The difference between the amounts added to and removed from the line (pounds) (i.e., (a)(3), above, minus (a)(4), above).

(b) The permittee shall monitor the following operating parameters on a per-job basis for the reagent(s) used.

- (1) The name/type or composition.
- (2) The amount(s) added (gallons).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall monitor the following operating parameters for the wet scrubber on a continuous basis.

- (1) The pH of the scrubber liquor (at the inlet to the wet scrubber).
- (2) The level of the scrubber liquor (in the sump of the wet scrubber).
- (3) The temperature of the scrubber liquor (in the sump of the wet scrubber).

(b) The permittee shall monitor the following operating parameters for the wet scrubber on an operating day basis.

- (1) The differential pressure across the wet scrubber.

**SECTION D. Source Level Requirements**

- (2) The sodium hydroxide (NaOH) concentration of the scrubber liquor (at the inlet to the wet scrubber).
- (3) The recirculation rate of the scrubber liquor (at the recirculation pump).
- (4) The discharge pressure of the recirculation pump.
- (5) The blow down flow rate (in the recirculation piping).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate the HCl emissions on a monthly and 12-month rolling basis.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records of the following operating parameters on a per-job basis for the material processed.

- (1) The name/type of each metal comprising the material.
- (2) The date added to the line.
- (3) The amount added to the line (pounds).
- (4) The amount removed from the line (pounds).
- (5) The difference between the amounts added to and removed from the line (pounds).

(b) The permittee shall maintain records of the following operating parameters on a per-job basis for the reagent(s) used.

- (1) The name/type or composition.
- (2) The amount(s) added (gallons).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records of the following operating parameters for the wet scrubber on an operating shift basis.

- (1) The pH of the scrubber liquor (at the inlet to the wet scrubber).
- (2) The level of the scrubber liquor (in the sump of the wet scrubber).
- (3) The temperature of the scrubber liquor (in the sump of the wet scrubber).

(b) The permittee shall maintain records of the following operating parameters for the wet scrubber on an operating day basis.

- (1) The differential pressure across the wet scrubber.
- (2) The NaOH concentration of the scrubber liquor (at the inlet to the wet scrubber).
- (3) The recirculation rate of the scrubber liquor (at the recirculation pump).
- (4) The discharge pressure of the recirculation pump.

**SECTION D. Source Level Requirements**

(5) The blow down flow rate (in the recirculation piping).

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of all maintenance performed for the wet scrubber and monitoring equipment to include the following.

(a) The date and time of the maintenance (i.e., routine and/or preventative maintenance, repairs, parts replacement, adjustments, calibrations, etc.).

(b) The type of maintenance performed.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of the HCl emissions on a monthly and 12-month rolling basis.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall operate and maintain a pH probe to indicate the pH of the scrubber liquor in the wet scrubber.

(b) The permittee shall maintain the pH of the scrubber liquor within the range of 9.5–11.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall operate and maintain an ultrasonic sensor to indicate the level of the scrubber liquor in the sump of the wet scrubber.

(b) The permittee shall maintain the level of the scrubber liquor in the sump at a minimum of 340 gallons.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall operate and maintain an indicator to indicate the temperature of the scrubber liquor in the sump of the wet scrubber.

(b) The permittee shall maintain the temperature of the scrubber liquor in the sump at a maximum of 130 °F.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall operate and maintain a pressure gauge to indicate the differential pressure across the wet scrubber.

(b) The permittee shall maintain the differential pressure across the wet scrubber within the range of 1.5–2.5 inches of water.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall operate and maintain a flow meter to indicate the recirculation rate of the scrubber liquor at the recirculation pump of the wet scrubber.

**SECTION D. Source Level Requirements**

(b) The permittee shall maintain the recirculation rate of the scrubber liquor at the recirculation pump at a minimum of 170 gals/min.

014 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall operate and maintain a pressure gauge to indicate the discharge pressure of the recirculation pump of the wet scrubber.

(b) The permittee shall maintain the discharge pressure of the recirculation pump within the range of 10–20 psig.

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall ensure that the wet scrubber is operating whenever any of the process tanks of the line are processing, or contain, materials.

016 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall ensure that the HCl and NaOH used at this facility is stored in approved containers in designated areas that are appropriate for the different hazards that they pose.

VII. ADDITIONAL REQUIREMENTS.**# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) This HCl metal refining line shall consist of ten polypropylene process tanks (designated as PTT11–PTT15 and PTT26–PTT30) manufactured by Heil Process Equipment, LLC. Each tank is 4.67 ft x 2.67 ft x 3 ft (length x width x depth) (270 gallons) and is used to refine various metals.

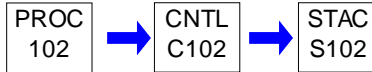
(b) HCl emissions from the line are routed to a packed tower wet scrubber (with high-efficiency entrainment separator), model no. 736, manufactured by Heil Process Equipment, LLC (via a push system with a dedicated hood for each process tank and a common header for the line). NaOH and water are used to form the scrubber liquor.

**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: NITRIC ACID (HNO₃) METAL REFINING LINE

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall ensure that either of the following HNO₃ emissions are achieved and maintained.

(1) A minimum HNO₃ removal efficiency by the wet scrubbers (two in series) of 99.0%.

(2) A HNO₃ concentration, as measured at the stack (Source ID S102) of the wet scrubbers (i.e., after the second wet scrubber), of less than or equal to 0.1 ppmv, dry basis.

(b) The permittee shall ensure that the nitrogen oxides (NO_x) emissions, as measured at the stack of the wet scrubbers, do not exceed 10.0 ppmv, dry basis.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall monitor the following operating parameters on a per-job basis for the material processed.

(1) The name/type of each metal comprising the material.

(2) The date added to the line.

(3) The amount added to the line (pounds).

(4) The amount removed from the line (pounds).

(5) The difference between the amounts added to and removed from the line (pounds).

(b) The permittee shall monitor the following operating parameters on a per-job basis for the reagent(s) used.

(1) The name/type or composition.

(2) The amount(s) added (gallons).

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall monitor the following operating parameters for the wet scrubbers on a continuous basis.

(1) The pH of the scrubber liquor (at the inlet to each wet scrubber).

(2) The oxidation-reduction potential (ORP) of the scrubber liquor (at the inlet to each wet scrubber), if sodium hydrosulfide

**SECTION D. Source Level Requirements**

(NaSH) is used.

(3) The level of the scrubber liquor (in the sump of each wet scrubber).

(4) The temperature of the scrubber liquor (in the sump of each wet scrubber).

(b) The permittee shall monitor the following operating parameters for the wet scrubbers for each stage, on an operating day basis.

(1) The differential pressure across each wet scrubber.

(2) The NaOH concentration of the scrubber liquor (at the inlet to each wet scrubber).

(3) The NaSH concentration of the scrubber liquor (at the inlet to each wet scrubber), if used.

(4) The recirculation rate of the scrubber liquor (at the recirculation pump for each wet scrubber).

(5) The discharge pressure of the recirculation pump (for each wet scrubber).

(6) The blow down flow rate (in the recirculation piping for each wet scrubber).

(c) The permittee shall monitor the name/type of all metals processed in the line on an operating day basis (i.e., to demonstrate pure tantalum only, or other metal(s) as well).

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records of the following operating parameters on a per-job basis for the material processed.

(1) The name/type of each metal comprising the material.

(2) The date added to the line.

(3) The amount added to the line (pounds).

(4) The amount removed from the line (pounds).

(5) The difference between the amounts added to and removed from the line (pounds).

(b) The permittee shall maintain records of the following operating parameters on a per-job basis for the reagent(s) used.

(1) The name/type or composition.

(2) The amount(s) added (gallons).

(c) The permittee shall maintain records of the difference between the total amounts of material added to and removed from the line (pounds) on a daily basis (based on the date that material(s) is/are added to the line).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records of the following operating parameters for the wet scrubbers for each stage on an operating shift basis.

(1) The pH of the scrubber liquor (at the inlet to each wet scrubber).

**SECTION D. Source Level Requirements**

- (2) The ORP of the scrubber liquor (at the inlet to each wet scrubber), if NaSH is used.
- (3) The level of the scrubber liquor (in the sump of each wet scrubber).
- (4) The temperature of the scrubber liquor (in the sump of each wet scrubber).
- (b) The permittee shall maintain records of the following operating parameters for the wet scrubbers for each stage on an operating day basis.
- (1) The differential pressure across each wet scrubber.
- (2) The NaOH concentration of the scrubber liquor (at the inlet to each wet scrubber).
- (3) The NaSH concentration of the scrubber liquor (at the inlet to each wet scrubber), if used.
- (4) The recirculation rate of the scrubber liquor (at the recirculation pump for each wet scrubber).
- (5) The discharge pressure of the recirculation pump (for each wet scrubber).
- (6) The blow down flow rate (in the recirculation piping for each wet scrubber).
- (c) The permittee shall maintain records of the name/type of all metals processed in the line on an operating day basis.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall maintain records of all maintenance performed on the wet scrubbers and monitoring equipment to include the following.

- (a) The date and time of the maintenance.
- (b) The type of maintenance performed.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) The permittee shall operate and maintain a pH probe to indicate the pH of the scrubber liquor in each of the wet scrubbers.
- (b) The permittee shall maintain the pH of the scrubber liquor in each wet scrubber within the following ranges.

Metal(s) Processed	pH Range
Pure Tantalum Only	9–12
Any Other Type or Combination	10–12

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

- (a) The permittee shall operate and maintain a ORP probe to indicate the ORP of the scrubber liquor in each of the wet scrubbers.

**SECTION D. Source Level Requirements**

(b) Except as indicated in Condition # 017, Section D (under Source ID 102), of this permit, the permittee shall maintain the ORP of the scrubber liquor in each wet scrubber within the range of -200 to -500 mV.

009 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall operate and maintain an ultrasonic sensor to indicate the level of the scrubber liquor in the sump of each of the wet scrubbers.

(b) The permittee shall maintain the level of the scrubber liquor in each sump at a minimum of 700 gallons.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall operate and maintain an indicator to indicate the temperature of the scrubber liquor in the sump of each of the wet scrubbers.

(b) The permittee shall maintain the temperature of the scrubber liquor in each sump at a maximum of 100 °F.

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall operate and maintain a pressure gauge to indicate the differential pressure across each of the wet scrubbers.

(b) The permittee shall maintain the differential pressure across each wet scrubber within the range of 2.5–4.5 inches of water.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall operate and maintain a flow meter to indicate the recirculation rate of the scrubber liquor at the recirculation pump of each of the wet scrubbers.

(b) The permittee shall maintain the recirculation rate of the scrubber liquor at each recirculation pump at a minimum of 400 gals/min.

013 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall operate and maintain a pressure gauge to indicate the discharge pressure of the recirculation pump of each of the wet scrubbers.

(b) The permittee shall maintain the discharge pressure of each recirculation pump within the range of 10–20 psig.

014 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall ensure that the wet scrubbers are operating whenever any of the process tanks are processing, or contain, materials.

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall ensure that the following chemicals used in this HNO₃ metal refining line and the associated wet scrubbers are stored in approved containers in designated areas that are appropriate for the different hazards that they pose.

Chemical	Associated Source ID
HNO ₃	102
Hydrogen Peroxide (H ₂ O ₂)	102
NaOH	C102

**SECTION D. Source Level Requirements**

NaSH	C102
<p># 016 [25 Pa. Code §127.441] Operating permit terms and conditions. Whenever processing pure tantalum only in this HNO₃ metal refining line, the permittee may operate each of the associated wet scrubbers without using NaSH in the scrubber liquor. (In this scenario, the permittee is not required to monitor or maintain records of the ORP of the scrubber liquor.)</p>	
<p># 017 [25 Pa. Code §127.441] Operating permit terms and conditions. The permittee shall ensure that the difference between the amounts of metal added to and removed from this HNO₃ metal refining line does not exceed 284 lbs/day (based on the date that material(s) are added to the line).</p>	

VII. ADDITIONAL REQUIREMENTS.

<p># 018 [25 Pa. Code §127.441] Operating permit terms and conditions. (a) This HNO₃ metal refining line source grouping shall consist of 20 polypropylene process tanks (designated as PTT1–PTT10 and PTT16–PTT25) manufactured by Heil Process Equipment, LLC. Each tank is 4.67 ft x 2.67 ft x 3 ft (length x width x depth) (270 gallons) and is used to refine various metals. (b) HNO₃ and NO_x emissions from the line are routed to two packed tower wet scrubbers (each with a high-efficiency entrainment separator) in series, model no. 739, manufactured by Heil Process Equipment, LLC (via a push system with a dedicated hood for each process tank and a common header for the line), before exhausting into the outdoor atmosphere. NaOH, water, and NaSH are used to form the scrubber liquor.</p>

**SECTION D. Source Level Requirements**

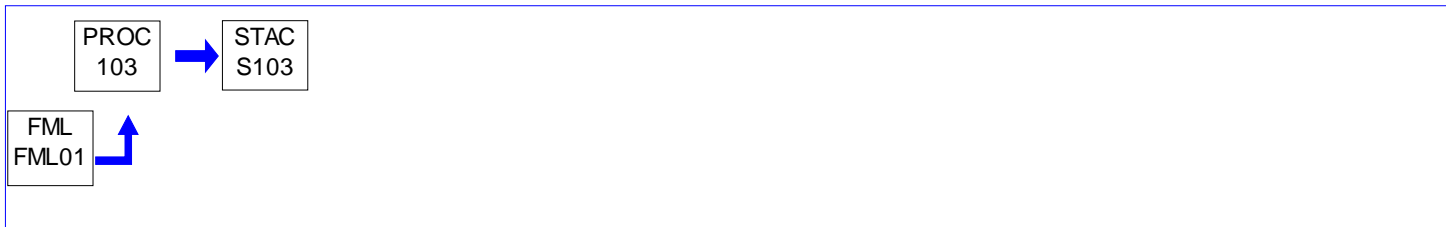
Source ID: 103

Source Name: GENERAC EMERGENCY GENERATOR SET

Source Capacity/Throughput:

N/A

Natural Gas

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This generator engine shall not exceed an actual NOx emission rate of less than 100 lbs/hr, 1000 lbs/day, 2.75 tons per ozone season and 6.6 tons per year on a 12-month rolling basis.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that natural gas is the only fuel consumed by the emergency generator engine.

Operation Hours Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is also derived from 40 CFR § 60.4243(d)(2)–(3) and 25 Pa. Code Chapter 122]

The permittee shall ensure that the emergency generator engine is operated in compliance with the following operating hour restrictions.

(a) There is no operating hours restriction for emergency situations.

(b) A total operating time of less than or equal to 50 hours per calendar year for non-emergency situations, except that the following operations are prohibited.

(1) Peak shaving.

(2) Demand response.

(3) Supplying power to an electric grid to generate income, or otherwise supplying power as part of a financial arrangement with another entity, unless all of the following requirements are met.

(i) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

(ii) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(iii) The dispatch is in accordance with reliability, emergency operation, or similar protocols that follow specific North American Electric Reliability Corporation, regional, state, public utility commission, or local standards or guidelines.

(iv) The power is provided only to the facility itself or to support the local transmission and distribution system.

**SECTION D. Source Level Requirements**

(v) The permittee identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission, or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the permittee.

(c) A total operating time of less than or equal to a total of 100 hours per calendar year for the following purposes.

(1) Any maintenance, including readiness testing and tune-ups.

(2) The non-emergency situations indicated in (b), above.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following operating parameters for this emergency generator.

(a) The type(s) of operation, on an operating day basis.

(b) The following hours of operation, on an operating day basis.

(1) The hours of operation for each type of operation.

(2) The total hours of operation.

(c) The amount of natural gas consumed by the emergency generator engine on a monthly basis.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate the total NOx emissions from the emergency generator engine on a monthly, ozone season, and 12-month rolling basis.

IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of the following operating parameters for this emergency generator.

(a) The type(s) of operation, on an operating day basis.

(b) The following hours of operation.

(1) The hours of operation for each type of operation, on an operating day, monthly, and annual basis.

(2) The total hours of operation, on an operating day, monthly, and 12-month rolling basis.

(c) The amount of natural gas consumed by the emergency generator engine on a monthly basis.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of the manufacturer's emission-related instructions (or operating manual) for the emergency generator engine.

**SECTION D. Source Level Requirements****# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 60.4245(a)(2) and 25 Pa. Code Chapter 122]

The permittee shall maintain records of all maintenance performed for this emergency generator. These records shall contain the following.

(a) The date and time of the maintenance.

(b) The type of maintenance performed.

009 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall maintain records of the total NOx emissions from the emergency generator engine on a monthly, ozone season, and 12-month rolling basis.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is also derived from 40 CFR § 60.4243(b)(1) and 25 Pa. Code Chapter 122 and §127.444]

(a) The permittee shall ensure that the emergency generator engine set is configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions.

(b) The permittee shall not change any emission-related settings on the engine except those that are permitted by the manufacturer.

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall operate and maintain a non-resettable hour meter for this emergency generator.

VII. ADDITIONAL REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) This source consists of an emergency generator set, model series / no. Quiet Test / QT10068KNAC, manufactured by Generac Power Systems, Inc. The emergency generator set is rated at 94 kW power output.

(b) The emergency generator set is equipped with a V-10, natural gas-fired (plan approval-exempt) engine, manufactured by Generac Power Systems, Inc. The engine was produced on February 17, 2014, is rated at 148.84 bhp power output, and has a displacement of 0.68 liters per cylinder.

013 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The emergency generator engine, as specified in Condition # 013(b), Section D (under Source ID 103), of this permit, is subject to, and shall comply with all applicable requirements of, 40 CFR Part 60, Subpart JJJJ.² In accordance with 40 CFR § 60.4, copies of all requests, reports, applications, submittals, and other communications are required to be submitted to both the U.S. EPA and the Department. The U.S. EPA copies shall be forwarded to.

**SECTION D. Source Level Requirements**

Associate Director
Office of Air Enforcement and Compliance Assistance (3AP20)
U.S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

² The engine is also subject to 40 CFR Part 63, Subpart ZZZZ, but, pursuant to 40 CFR § 63.6590(c)(1), complies with this regulation by complying with the provisions of 40 CFR Part 60, Subpart JJJJ, instead.



SECTION E. Source Group Restrictions.



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
101	HYDROCHLORIC ACID (HCL) METAL REFINING LINE		
Emission Limit		Pollutant	
150.000	Lbs/Yr	12-Month Rolling Sum, Calculated Monthly	Hydrochloric Acid
102	NITRIC ACID (HNO3) METAL REFINING LINE		
Emission Limit		Pollutant	
0.100	PPMV	Dry Basis; At the Stack of the Associated Packed Tower Wet Scrubbers (If the Removal Efficiency is Less Than 99.0%)	HNO3
10.000	PPMV	Dry Basis; At the Stack of the Associated Packed Tower Wet Scrubbers	NOX

Site Emission Restriction Summary

Emission Limit	Pollutant
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SECTION H. Miscellaneous.

(a) The following previously-issued documents serve as the basis for certain terms and conditions set forth in this permit:

RFD No. 2895, Plan Approval No. 09-0222, RFD No. 4287, RFD No. 5369, RFD No. 5461, RFD No. 5469, RFD No. 6165, RFD No. 6170.

(b) The following sources have been determined by the Department to be insignificant sources of air emissions and, therefore, do not require additional restrictions, monitoring, or recordkeeping. They are still subject to any applicable federal, state, and local regulations, including those indicated in Section C, of this permit.

(1) Four natural gas-fired space heaters, brand name Reznor, model no. UDAP-225, manufactured by Nortek Global HVAC LLC. Each space heater is rated at 0.225 mmBtu/hr heat input (0.900 mmBtu/hr heat input total).

(2) A natural gas-fired make-up air unit, model no. DGX-136-H42, manufactured by Greenheck Fan Corp. The make-up air unit is rated at 1.69 mmBtu/hr heat input.

(3) An electric hot water heater.

(4) Two natural gas-fired heat cleaning/burn-off ovens, model nos. 443 BA-P and 454 BA-C, manufactured by Steelman Industries, Inc. Each oven is rated at 0.420 mmBtu/hr heat input (0.840 mmBtu/hr heat input total).

(5) Three electric drying ovens, brand name Blue M, model nos. DCSA-366-G-ST350, EM-246G, and DC-166G, manufactured by Thermal Product Solutions.

(6) Two custom, natural gas-fired metal oxide process rotary retort furnaces. Each furnace is equipped with two burners, model type / nos. INCINOMITE / J81A-3 or J83-DS, manufactured by MIDCO International, Inc. Each burner is rated at 0.8 mmBtu/hr heat input (1.6 mmBtu/hr heat input per furnace, 3.2 mmBtu/hr heat input total).

(7) Two metal oxide process furnace dust collectors, model no. VS-1200 [Vibra Shake], manufactured by Donaldson Co., Inc.—Torit Division. The dust collectors capture metal oxide dust emissions from (b)(6)(i)–(ii), above, and exhaust into the indoor atmosphere.

(8) Sixteen electrically-powered, heat-treating induction coil furnaces. Each furnace is equipped with a natural gas-fired burner rated at 7.5 mBtu/hr heat input (0.12 mmBtu/hr heat input total), which is used to combust hydrogen gas used as a cap above the metal oxide/metal carbide reactants in the furnace.

(9) Two induction coil furnace vacuums, model no. 970C, manufactured by McMaster-Carr Supply Company. The vacuums are equipped with HEPA filters, capture metal oxide/metal carbide dust generated during the filling and emptying of the crucibles of (b)(8), above, and exhaust into the indoor atmosphere.

(10) A Mikro Pulverizer hammer and screen mill, model no. 1SH, manufactured by Hosokawa Micron Powder Systems.

(11) A Mikro Pulverizer dust collector, model no. VS-1200 QD [Vibra Shake], manufactured by Donaldson Co., Inc.—Torit Division. The dust collector captures metal oxide dust emissions from (b)(10), above, and exhausts into the indoor atmosphere.

(12) A sifter, model no. SK30.1.1.1, manufactured by Screener King LLC.

(13) A sifter dust collector, model no. VS-1200 [Vibra Shake], manufactured by Donaldson Co., Inc.—Torit Division. The dust collector captures metal oxide dust emissions from (b)(12), above, and exhausts into the indoor atmosphere.

(14) Four V-blenders manufactured by The Patterson-Kelley Co., Inc., as follows. Each V-blender has a capacity of 20 cubic feet.

Material Processed	Quantity
Metal Oxide	1
Metal Carbide	3

(15) Four V-blender dust collectors manufactured by Donaldson Co., Inc.—Torit Division, as follows. The dust collectors capture metal oxide/metal carbide dust emissions from (b)(14), above, and exhaust into the indoor atmosphere:

**SECTION H. Miscellaneous.**

Model No. [Description]	Quantity
VS-1200 QD [Vibra Shake]	1
80 CAB [Cabinet]	3

(16) A gravity/density separator ("air table"), model no. BX-110-RH, manufactured by Triple/S Dynamics, Inc.

(17) An air table dust collector, model no. VS-3000 [Vibra Shake], manufactured by Donaldson Co., Inc.—Torit Division. The dust collector captures metal oxide dust emissions from (b)(16), above, and exhaust into the indoor atmosphere.

(18) A 12-inch [roll diameter] two-roll crusher manufactured by Denver.

(19) A two-roll crusher dust collector, model no. VS-1200 [Vibra Shake], manufactured by Donaldson Co., Inc.—Torit Division. The dust collector captures metal oxide dust emissions from (b)(18), above, and exhausts into the indoor atmosphere.

(20) Two separators, as follows.

Manufacturer	Model (Type) No.
Macon	IN30S6666
SWECO	(Vibro-Energy) MX30S666LK

(21) Two separator dust collectors, model no. DFO 2-4 [Downflo Oval], manufactured by Donaldson Co., Inc.—Torit Division. The dust collectors captures metal oxide dust emissions from (b)(20), above, and exhaust into the indoor atmosphere.

(22) Three metal carbide size reduction rooms, each comprised of the following equipment.

(i) A vibratory sifter, model no. 804/4, manufactured by Russell Finex Ltd.

(ii) A 12-inch [roll diameter] roll crusher manufactured by Denver.

(iii) A fine grinding mill (brick crusher or "delumper"), model no. PSZ66-HH [Particle-Sizer], manufactured by Atlantic Coast Crushers, Inc.

(23) Three metal carbide size reduction room dust collectors, model no. DFO 2-4 [Downflo Oval], manufactured by Donaldson Co., Inc.—Torit Division. Each dust collector captures metal carbide dust emissions from a dedicated metal carbide size reduction room [of (b)(22), above] and exhausts into the indoor atmosphere.

(24) Two jet mills, model type / no. Micron-Master / 20-296, manufactured by The Jet Pulverizer Co.

(25) Four custom dust collectors (with inline HEPA filters). Each dust collector captures metal carbide dust emissions from either of the jet mills [of (b)(24), above], and exhausts into the outdoor atmosphere via a dedicated inline HEPA filter and common stack.

(c) This permit (APS ID 938238, Auth ID 1292396) is a minor operating permit modification of State Only Operating Permit No. 09-00222, originally issued on April 26, 2017 (APS ID 938238, Auth ID 1177942). The following is a listing of the changes reflected in this permit:

(1) Requirements for the reporting of malfunctions, emergencies, or incidents of excess emissions have been added as Condition # 023, Section B, of this permit.

(2) Requirements that emissions reports contain sufficient information to enable the Department to complete its emission inventory, and be made in a format specified by the Department, have been added as Condition # 025, Section B, of this permit.

(3) An exception from the visible emission restrictions specified in 25 Pa. Code § 123.41 for the operation of equipment used solely to train and test persons in observing the opacity of visible emissions has been added to Condition # 006, Section C, of the original permit(same condition number in this permit), as Sub-condition (b).

(4) Condition # 014, Section C, of the original permit, has been removed (replaced by Condition # 023, Section B, of this permit).

**SECTION H. Miscellaneous.**

(5) Condition # 016, Section C, of the original permit, has been moved to Condition # 024, Section B, of this permit.

(6) Condition # 001, Section D (under Source ID 101), of the original permit, has been removed.

(7) An HCl emission rate restriction for the HCl metal refining line has been added as Condition # 001, Section D (under Source ID 101), of this permit.

(8) Requirements to calculate and maintain records of the HCl emissions from the HCl metal refining line on a monthly and 12-month rolling basis, have been added as Conditions # 004 and 008, Section D (under Source ID 101), of this permit, respectively.

(9) The HCl emission concentration restriction for the HCl metal refining line, as indicated in Section F (under Source ID 101), of the original permit, has been removed.

(10) An HCl emission rate restriction for the HCl metal refining line has been added to Section F (under Source ID 101), of this permit.

(d) April 2022, this permit has been renewed under Auth ID 1385133 and APS ID 1056793.

(1) The permittee has submitted RFDs for the following sources and the Department has determined these sources to be trivial activities. The permittee shall monitor and record NOx emissions from these sources and are to be included in the facility aggregate NOx emissions total. The sources are still subject to any applicable federal, state, and local regulations, including those indicated in Section C, of this permit.

RFD #6165 for a 454 BA-C burn-off oven (420,000 btu/hr).

RFD #6170 for two J83-DS burn off ovens (800,000 btu/hr (each))

RFD #7813 for relocation of two baghouses and addition of one new bag house.

RFD #8715 for a 454 BA-C burn-off oven (420,000 btu/hr).

RFD #8816 for a Encon N66V4-96 thermal evaporator.

(2) This authorization also included a change in ownership from Telex Metals to Kymera International. The Facility will still operate as Telex Metals.



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