

Facility DEC ID: 9140200021

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 9-1402-00021/00081
Effective Date: 05/24/2022 Expiration Date: 05/23/2027

Permit Issued To: WIELAND ROLLED PRODUCTS NORTH AMERICA, INC
70 Sayre St
BUFFALO, NY 14207

Contact: Elizabeth Zurowski
70 Sayre St
Buffalo, NY 14207-2225
(716) 879-6905

Facility: AURUBIS BUFFALO INC
70 SAYRE ST
Buffalo, NY 14207-2299

Contact: Elizabeth Zurowski
70 Sayre St
Buffalo, NY 14207-2225
(716) 879-6905

Description:

Aurubis Buffalo Inc. (ABI) operates a manufacturing facility located at 70 Sayre Street, in Buffalo, New York in a mixed residential/industrial area. The facility employs approximately 625 people, and generally operates 7 days per week, 52 weeks per year. The site encompasses 79 acres including 1.1 million square feet of manufacturing area, storage and office space. The facility was established under different ownership about 1906, and became Outokumpu American Brass in 1990, Luvata in 2006, and ultimately Aurubis Buffalo Inc in 2011.

The facility manufactures and processes various alloys composed of copper and zinc. The major activities at the facility include: casting, annealing, hot rolling, and milling. In the cast shop, copper and other metals, including zinc alloy, are melted in electric induction furnaces and poured off into water cooled molds to form hot cakes. After heating, cakes may then be hot rolled to various thicknesses followed by being run through a milling line to create a uniform thickness. Various types of annealing furnaces are used to slowly heat and cool the alloy materials resulting in added strength and reduced brittleness. Depending on the material, strand anneals, bell anneals or cup annealing furnaces could be used. At the end of the annealing process, strand materials are generally run through an acidic bath to remove scale and metal oxides that have formed prior to being re-wound. Skimmings, grindings, dross and other materials are routinely sorted and collected for reuse in raw materials.

The facility has continued to expand production in recent years. In 1998, American Brass took over ownership of the four natural gas fired boilers for heat and process steam formerly owned by Encogen Four Partners, LLP. However, the boilers were replaced by heat recovery and exotherm-boilers (utilizing heat from other processes in the facility without consuming fuels), and in 2010 the natural gas fired boilers were dismantled and removed from the facility. In

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1999, the facility permitted a new tinning line in which brass or copper strip passes through a pot of molten tin to apply a thin coating. In late 2000 and early 2001, the facility installed a new cleaning line operation for preparation of brass strip. In 2007, another minor modification was performed to include installation of a natural gas powered backup electric generator as an exempt source. The facility also has several machining operations, presses, and other metalworking operations that are not vented to the atmosphere. In addition to production, the facility performs several maintenance operations, operates a water treatment facility for production wastewaters, and performs woodworking operations for pallets, etc.

The facility is subject to Title V permitting requirements due primarily to the carbon monoxide generated from the combustion of natural gas in the annealing furnaces and boilers. The facility is subject to Prevention of Significant Deterioration requirements for the same compounds. Emission calculations were prepared using a combination of published emission factors, stack test results, and engineering calculations as discussed in the application.

An evaluation of the ABI facility relative to 6 NYCRR Part 212 was performed in accordance with NYSDEC requirements. The ABI facility currently emits several regulated air contaminants, including 11 which are classified as HAPs. Nine of the contaminants emitted by the facility are identified as being high in toxicity according to the NYSDEC's DAR-1 Document (Guidelines for the Evaluation and Control of Ambient Air Contaminants Under Part 212). These contaminants consist of metals particulates, which are emitted from the facility's casting operations and include Lead, Manganese, Mercury, Nickel, Arsenic, Beryllium, Cadmium, Chromium and Vanadium. Each of these contaminants are listed as a High Toxicity Air Contaminant (HTAC) per 6 NYCRR Part 212.2 Table 2. Emissions of these HTACs and other particulates generated from the casting furnaces are controlled by a pair of baghouses that are reported to have a higher than 99% control efficiency rating. Actual emissions of all of the HTACs have been determined to be below the applicable mass emission limits presented in Part 212.2, Table 2. These emissions are compliant with 6 NYCRR Part 212.

In addition to the nine high toxicity contaminants identified above, the facility also emits a number of contaminants with either a moderate or low toxicity rating according to DAR-1. There are also several contaminants emitted by ABI, which either have not been assigned a toxicity rating or do not appear in DAR-1. These contaminants have been assumed to be moderately toxic as per DAR-1 guidance. Some of the non-HTACs emitted by the facility are from operations that have been classified as exempt or trivial under 6 NYCRR Part 201-3.2 & 3.3 and are therefore not regulated under Part 212 as per 6 NYCRR Part 212-1.4(a).

With respect to the other non-HTACs that are subject to part 212, according to Paragraph V.C. of DAR-1, an environmental rating must be assigned to every criteria and non-criteria air contaminant from process emission sources regulated under Part 212, except for Non-HTACs emitted at an annual rate of less than 100 pounds. Of the various regulated non-HTACs emitted by the facility, only three Copper, Zinc and Carbon Black were determined to be emitted at a rate of more than 100 pounds per year. These contaminants consist of solid particulates generated from casting and other related process operations. Emission controls are currently utilized in conjunction with these operations. Particulate emissions from the induction furnaces (brass and bronze melting furnaces) associated with Emission Unit 1-CASTS are regulated under 6 NYCRR Part 212-2.5. Based on the amount of material currently being processed in the furnaces (46,382 pounds per hour), it was determined that the permissible emission rate for these equipment is approximately 32 pounds of PM per hour.

Particulate emissions from the other existing process emission sources are subject to the applicable limits established under 6 NYCRR Part 212-2.4 as well as 6 NYCRR Part

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212-1.6(a)(Limiting of Opacity). A summary sheet containing emissions totals, toxicity data, and other relevant information pertaining to 6 NYCRR Part 212 was submitted to DEC for the ABI facility. After DEC review, it was determined that no air dispersion modeling or other further analysis in regards to 6 NYCRR Part 212 is required at this time.

Emission Unit 1-CASTS

This emission unit consists of four casting stations (Castings Stations 2, 3, 4, and 5) where copper stock and alloying elements are melted and poured into water cooled molds to form cakes. The metals are melted using electric induction furnaces. Fluxing agents are used for mold release. Natural gas preheat torches are used at each casting station to maintain the temperature of the runner boxes. Overhead fans are used to vent fugitive emissions. Casting stations 2 and 3 have five fans each, casting station 4 has three fans, and casting station 5 has four fans. In addition, emissions from casting stations 2 through 4 are vented to a baghouse. Emissions from casting station 5 are vented to a second baghouse. The emission points associated with this unit include EP#s 00030 and 00055. EPs 00033, 00034 & 00040 are associated with overhead fans/vents.

Emission Unit 2-ANEAL

This emission unit consists of 12 annealing furnaces that are used by the facility for the heat treating of copper alloy. There are three types of annealing furnaces used at the Aurubis facility: strand anneals, bell anneals, and cup annealing furnaces. Copper alloy stock is heat treated in one of the three types of furnaces depending on the desired properties. The furnaces use natural gas to generate a carbon-rich atmosphere to heat-treat the metal. The emission points associated with this unit include EP#s 00056, 00057, 00058, 00059, 00060, 00063, 00064, 00065, 00066, 00067, 00068 & 00069.

Emission Unit 3-STRND

This emission unit is associated with the facility's 148 strand annealing furnace. This furnace uses natural gas to create a carbon rich atmosphere for heat treating copper alloy. The heat treating enhances the physical properties of the alloy. This process is similar to the annealing process used in the steel industry, however the same emission factors do not apply. Emissions from the annealing furnaces at the Aurubis facility are based on stack testing results and natural gas usage records. The 148 strand anneal furnace was installed after 1974 and is therefore subject to compliance with the Prevention of Significant Deterioration (PSD) regulation. The emission points associated with this unit include EPs 00061 & 00062.

Emission Unit 4-HOTRL

This emission unit consists of two natural gas fired furnaces (130 and 146 Cake Heaters) which are used to heat cakes of copper alloy prior to rolling and a pair of cyclones located within the milling department. The furnaces generate emissions attributed to the combustion of natural gas. Emissions from the cyclones are in the form of particulate matter. After rolling, bars are surface milled. Metal chips generated from the milling process are transported by a vacuum system to a pair of cyclones where they are collected for recycling. The emission points associated with this unit include EP#s 00070, 00071 and 00100.

Emission Unit 6-TREAT

This emission unit consists of a steam jacket dryer that is used to dry filter cake at the facility's on-site wastewater treatment plant. The dryer emits particulate matter comprised mainly of copper and zinc and is

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connected to a scrubber which is reported to be 99% efficient. There is only one emission point associated with unit, identified as EP 00048.

Emission Unit 7-CRACK

This emission unit consists of a cracking tank that is used to reclaim oil from spent coolant. The coolant consists of a mixture of soluble oil and water and is used in the facility's rolling operations. Minor amounts of hydrogen sulfide and oil mist are emitted during reclaiming. There is only one emission point associated with unit, identified as EP 00050.

Emission Unit 8-SHAKE

This emission unit consists of a pair of shaker tables which are used for sorting casting station skimmings and runner box debris prior to being sent out for brass/copper reclamation. The contents of the skimming boxes are wetted prior to dumping on the shaker table in order to minimize dust. Minor amounts of particulate matter consisting of copper, zinc and carbon are emitted. There is only one emission point associated with unit, identified as EP 00025.

Emission Unit 9-TINLN

This emission unit is associated with the facility's tinning line and consists of a flux application tank, an on-line molten tin application tank, a refining station molten tin tank and a scrubber. The scrubber is used to control HCl and particulate (zinc oxide) emissions from the flux dryer, flux tank and refining station. The flux dryer and tin tanks use natural gas-fired burners that emit gaseous byproducts associated with combustion. The emission points associated with this unit include EP 00080, EP 00081 and EP 00082.

ABI also has several exempt and trivial activities at its facility.

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: LISA M CZECHOWICZ
NYSDEC - REGION 9
700 Delaware Ave
BUFFALO, NY 14209

Authorized Signature: _____ Date: ___ / ___ / ____

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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.

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- 7 3 Applications for permit renewals, modifications and transfers
- 8 4 Permit modifications, suspensions or revocations by the Department

Facility Level

- 8 5 Submission of application for permit modification or renewal-REGION 9 HEADQUARTERS

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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 separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before the expiration of permits for 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

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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 9
HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 9 Headquarters
Division of Environmental Permits
700 Delaware Ave.,
Buffalo, NY 14209
(716) 851-7130

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ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: WIELAND ROLLED PRODUCTS NORTH AMERICA, INC
70 Sayre St
BUFFALO, NY 14207

Facility: AURUBIS BUFFALO INC
70 SAYRE ST
Buffalo, NY 14207-2299

Authorized Activity By Standard Industrial Classification Code:
3351 - COPPER ROLLING AND DRAWING

Permit Effective Date: 05/24/2022

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- 8 2 6 NYCRR 201-6.4 (a) (7): Fees
- 8 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 8 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 9 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 11 6 6 NYCRR 201-6.4 (e): Compliance Certification
- 13 7 6 NYCRR 202-2.1: Compliance Certification
- 13 8 6 NYCRR 202-2.5: Recordkeeping requirements
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- 17 17 6 NYCRR 202-1.1: Required Emissions Tests
- 17 18 40 CFR Part 68: Accidental release provisions.
- 17 19 40CFR 82, Subpart F: Recycling and Emissions Reduction
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- 20 21 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 20 22 6 NYCRR 201-6.4 (f): Operational Flexibility
- 21 23 6 NYCRR 201-7.1: Facility Permissible Emissions
- 21 24 6 NYCRR 202-2.4 (a) (3): Statement dates for emissions statements.
- 21 25 6 NYCRR 211.2: Visible Emissions Limited
- 21 26 6 NYCRR 212-1.6 (a): Compliance Certification
- 22 27 6 NYCRR 212-2.4 (b): Compliance Certification

Emission Unit Level

- 23 28 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 26 29 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 31 30 6 NYCRR 201-7.1: Emission Unit Permissible Emissions

EU=1-CASTS

- 31 31 6 NYCRR 202-1.1: Compliance Certification
- 32 32 40CFR 60.132(b), NSPS Subpart M: Compliance Certification

EU=1-CASTS,EP=00030

- 33 33 6 NYCRR 200.7: Compliance Certification

EU=1-CASTS,EP=00055

- 34 34 6 NYCRR 200.7: Compliance Certification

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EU=3-STRND

35 *35 6 NYCRR 201-7.1: Capping Monitoring Condition

EU=4-HOTRL,Proc=MIL

36 36 6 NYCRR 200.7: Compliance Certification

EU=6-TREAT

37 37 6 NYCRR 200.7: Compliance Certification

EU=9-TINLN

38 38 6 NYCRR 200.7: Compliance Certification

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40 39 ECL 19-0301: Contaminant List

40 40 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities

41 41 6 NYCRR 201-6.5 (a): CLCPA Applicability

41 42 6 NYCRR 211.1: Air pollution prohibited

NOTE: * preceding the condition number indicates capping.

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FEDERALLY ENFORCEABLE CONDITIONS

Renewal 3/FINAL

**** 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

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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

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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. When additional applicable requirements under the act become applicable to a title V facility with a remaining permit term of 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 the 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 section 201- 6.6 of this Subpart.

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

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is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

Item K: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item L: Federally Enforceable Requirements - 40 CFR 70.6 (b)

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.

Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement: 6 NYCRR 200.6**Item 1.1:**

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where

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contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Condition 2: Fees
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (7)

Item 2.1:

The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

Condition 3: Recordkeeping and Reporting of Compliance Monitoring
Effective between the dates of 05/24/2022 and 05/23/2027

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

Item 3.1:

The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii)The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.2 of Part 201.

Condition 4: Records of Monitoring, Sampling, and Measurement
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 201-6.4 (c) (2)

Item 4.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all

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reports required by the permit.

Condition 5: Compliance Certification
Effective between the dates of 05/24/2022 and 05/23/2027

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,

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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

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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.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 6: Compliance Certification
Effective between the dates of 05/24/2022 and 05/23/2027

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;

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- 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 – Air Compliance Branch
 USEPA Region 2 DECA/ACB
 290 Broadway, 21st Floor
 New York, NY 10007

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
 NYSDEC Region 9 Headquarters
 700 Delaware Ave.,
 Buffalo, NY 14209

The address for the BQA is as follows:

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NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2023.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:

The Compliance Certification activity will be performed for the Facility.

Item 7.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emission statements shall be submitted on or before April
15th each year for emissions of the previous calendar
year.

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 106 days after the reporting period.
The initial report is due 4/15/2023.
Subsequent reports are due every 12 calendar month(s).

Condition 8: Recordkeeping requirements
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:

(a) The following records shall be maintained for at least five years:

(1) a copy of each emission statement submitted to the department; and

(2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

Condition 9: Open Fires - Prohibitions
Effective between the dates of 05/24/2022 and 05/23/2027

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Applicable Federal Requirement: 6 NYCRR 215.2**Item 9.1:**

Except as allowed by Title 6 NYCRR Section 215.3, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

Item 9.2

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.
- (h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.
- (i) Prescribed burns performed according to Part 194 of this Title.
- (j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.
- (k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.
- (l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

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**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.

[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]

**Condition 10: Maintenance of Equipment
Effective between the dates of 05/24/2022 and 05/23/2027**

Applicable Federal Requirement:6 NYCRR 200.7

Item 10.1:

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

**Condition 11: Recycling and Salvage
Effective between the dates of 05/24/2022 and 05/23/2027**

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

Where practical, the owner or operator of an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

**Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air
Effective between the dates of 05/24/2022 and 05/23/2027**

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

No person shall unnecessarily remove, handle or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

**Condition 13: Exempt Sources - Proof of Eligibility
Effective between the dates of 05/24/2022 and 05/23/2027**

Applicable Federal Requirement:6 NYCRR 201-3.2 (a)

Item 13.1:

The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The

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owner or operator of any such emission source or activity must maintain all records necessary for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.

Condition 14: Trivial Sources - Proof of Eligibility

Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 201-3.3 (a)

Item 14.1:

The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request.

Condition 15: Requirement to Provide Information

Effective between the dates of 05/24/2022 and 05/23/2027

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

Item 15.1:

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

Condition 16: Right to Inspect

Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (8)

Item 16.1:

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

(i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

(ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

(iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and

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(iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Condition 17: Required Emissions Tests
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 17.1:
 For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

Condition 18: Accidental release provisions.
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:40 CFR Part 68

Item 18.1:
 If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:
 - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
 - 2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

Risk Management Plan Reporting Center
 C/O CSC
 8400 Corporate Dr
 Carrollton, Md. 20785

Condition 19: Recycling and Emissions Reduction
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:40CFR 82, Subpart F

Item 19.1:
 The permittee shall comply with all applicable provisions of 40 CFR Part 82.

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The following conditions are subject to annual compliance certification requirements for Title V permits only.

Condition 20: Emission Unit Definition
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 20.1:

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

Emission Unit: 1-CASTS

Emission Unit Description:

There are four casting stations in operation at the Aurubis facility, designated as castings stations 2, 3, 4, and 5. Copper stock and alloying elements are melted in electric induction furnaces and poured into water cooled molds to form cakes. Fluxing agents are used for mold release. Natural gas preheat torches are used at each casting station to maintain the temperature of the runner boxes. Overhead fans are used to vent fugitive emissions.

Casting stations 2 and 3 have five fans each, casting station 4 has three fans, and casting station 5 has four fans. In addition, emissions from casting stations 2 through 4 are vented to a baghouse. Emissions from casting station 5 are vented to a second baghouse. In addition, the electric induction furnaces are subject to 40 CFR Part 60 Subpart M which has a 10% opacity limit.

Building(s): CASTSHOP

Item 20.2:

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

Emission Unit: 2-ANEAL

Emission Unit Description:

There are three types of annealing equipment in use at the Aurubis facility: strand anneals, bell anneals, and cup annealing furnaces. Copper alloy stock is heat treated in one of the three types of furnaces depending on the desired properties. The furnaces use natural gas to generate a carbon-rich atmosphere to heat-treat the metal.

Building(s): 24
 29
 2A
 31
 33
 PRESSRM

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STANNEAL

Item 20.3:

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

Emission Unit: 3-STRND

Emission Unit Description:

The 148 strand anneal furnace uses natural gas to generate a carbon-rich atmosphere to heat-treat the metal.

Building(s): STANNEAL

Item 20.4:

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

Emission Unit: 4-HOTRL

Emission Unit Description:

Two natural gas furnaces are used to heat cakes of copper alloy prior to rolling. Emissions from these furnaces are from the combustion of natural gas. After rolling, bars are surface milled. Chips are transported by a vacuum system, are collected by two cyclones and a scrubber (installed January 2005). The collected chips are recycled.

Building(s): 25A
CAKESTRG

Item 20.5:

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

Emission Unit: 6-TREAT

Emission Unit Description:

A steam jacket dryer is used to dry filter cake at the wastewater treatment plant. A wet scrubber is used to control emissions. Control efficiency of the scrubber is 99%.

Building(s): 1

Item 20.6:

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

Emission Unit: 7-CRACK

Emission Unit Description:

A cracking tank is used to reclaim oil from an oil/water emulsion. Emissions of hydrogen sulfide and oil mist are vented through emission point 00050.

Building(s): TUBEBAY

Item 20.7:

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

Emission Unit: 8-SHAKE

Emission Unit Description:

Two sorting shaker tables identified as the ash table and

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Didion table are used to sort the casting stations' skimming and runner box debris prior to being sent out for brass/copper reclamation. A dust collector is used for controlling particulate emissions at the Didion table. This system exhausts inside the building.

Building(s): SCRAPSTG

Item 20.8:

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

Emission Unit: 9-TINLN

Emission Unit Description:

The emission unit consists of a flux application tank, an on-line molten tin application tank, a refining station molten tin tank and a scrubber to reduce emissions to atmosphere.

Building(s): N CON. BAY

Condition 21: Progress Reports Due Semiannually**Effective between the dates of 05/24/2022 and 05/23/2027****Applicable Federal Requirement:6 NYCRR 201-6.4 (d) (4)****Item 21.1:**

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 22: Operational Flexibility**Effective between the dates of 05/24/2022 and 05/23/2027****Applicable Federal Requirement:6 NYCRR 201-6.4 (f)****Item 22.1:**

A permit modification is not required for changes that are provided for in the permit. Such changes include approved alternate operating scenarios and changes that have been submitted and approved pursuant to an established operational flexibility protocol and the requirements of this section. Each such change cannot be a modification under any provision of Title I of the Clean Air Act or exceed, or cause the facility to exceed, an emissions cap or limitation in the permit. The facility owner or operator must incorporate all changes into any compliance certifications, record keeping, and/or reporting required by the permit.

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Condition 23: Facility Permissible Emissions
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 201-7.1

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: 000630-08-0

PTE: 2,000,000 pounds per year

Name: CARBON MONOXIDE

Condition 24: Statement dates for emissions statements.
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 202-2.4 (a) (3)

Item 24.1:

This facility is required to submit an annual emission statement electronically and these emissions statements must be submitted to the department as per the following schedule:

- (i) March 15th of each year for facilities with three or fewer processes listed in their Title V permit:
- (ii) March 31st of each year for facilities with four to six processes listed in their Title V permit:
- (iii) April 15th of each year for facilities with 7 to 12 processes listed in their Title V permit:
- (iv) April 30th of each year for facilities with 13 or more processes listed in their Title V permit.

Condition 25: Visible Emissions Limited
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 211.2

Item 25.1:

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to 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.

Condition 26: Compliance Certification
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 212-1.6 (a)

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Item 26.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 26.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Facility owner or operator shall not cause or allow emissions having an average opacity of 20 percent or greater for any consecutive six minute period from any emission source subject to 6 NYCRR Part 212 into the outdoor atmosphere. The induction furnaces are subject to 40 CFR Part 60 Subpart M which has a 10% opacity limit. The facility owner or operator will observe all regulated emission points visible from ground level within the boundaries of the facility at least once each week during daylight hours. Should any visible emissions appear, the facility owner or operator shall determine the cause and immediately make the necessary correction(s). These observations will be recorded in a log book at the facility and shall be made available to the Department upon request. Records will be maintained for a minimum of 5 years. If after corrections are made and any emissions continue to be observed, the facility owner or operator will conduct a Method 9 assessment to determine the degree of opacity. The facility owner or operator will notify the DEC immediately if the Method 9 test indicates that the opacity standard is not met.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation to determine compliance with the above opacity limit.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: WEEKLY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 27: Compliance Certification

Effective between the dates of 05/24/2022 and 05/23/2027

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Applicable Federal Requirement:6 NYCRR 212-2.4 (b)

Item 27.1:

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

Emission Unit: 1-CASTS

Emission Unit: 4-HOTRL

Emission Unit: 9-TINLN

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 27.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions from any process emission source for which an application was received by the department after July 1, 1973 are restricted as follows:

(1) No facility owner or operator shall cause or allow emissions of particulate that exceed 0.050 grains per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis, except in instances where determination of permissible emission rate using process weight for a specific source category emitting solid particulate is based upon table 5 and table 6 of subdivisions 212-2.5(a) and (b) of this Subpart.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.050 grains per cubic foot

Reference Test Method: EPA Method 5

Monitoring Frequency: UPON REQUEST OF REGULATORY AGENCY

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

****** Emission Unit Level ******

Condition 28: Emission Point Definition By Emission Unit
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 28.1:

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

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Facility DEC ID: 9140200021

Emission Unit: 1-CASTS

Emission Point: 00030

Height (ft.): 28 Diameter (in.): 12
 NYTMN (km.): 4762.52 NYTME (km.): 182.429

Emission Point: 00033

Height (ft.): 58 Diameter (in.): 48
 NYTMN (km.): 4762.52 NYTME (km.): 182.429

Emission Point: 00034

Height (ft.): 58 Diameter (in.): 48
 NYTMN (km.): 4762.52 NYTME (km.): 182.429

Emission Point: 00040

Height (ft.): 58 Diameter (in.): 48
 NYTMN (km.): 4762.52 NYTME (km.): 182.429

Emission Point: 00055

Height (ft.): 60 Diameter (in.): 30
 NYTMN (km.): 4762.52 NYTME (km.): 182.429 Building: CASTSHOP

Item 28.2:

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

Emission Unit: 2-ANEAL

Emission Point: 00056

Height (ft.): 100 Diameter (in.): 42
 NYTMN (km.): 4762.52 NYTME (km.): 182.429 Building: 24

Emission Point: 00057

Height (ft.): 100 Diameter (in.): 45
 NYTMN (km.): 4762.52 NYTME (km.): 182.429 Building: 29

Emission Point: 00058

Height (ft.): 82 Length (in.): 20 Width (in.): 24
 NYTMN (km.): 4762.52 NYTME (km.): 182.429 Building: STANNEAL

Emission Point: 00059

Height (ft.): 118 Length (in.): 26 Width (in.): 26
 NYTMN (km.): 4762.52 NYTME (km.): 182.429 Building: 31

Emission Point: 00060

Height (ft.): 118 Length (in.): 29 Width (in.): 30
 NYTMN (km.): 4762.52 NYTME (km.): 182.429 Building: 33

Emission Point: 00063

Height (ft.): 40 Diameter (in.): 2
 NYTMN (km.): 4762.52 NYTME (km.): 182.429 Building: PRESSRM

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Emission Point: 00064	Height (ft.): 40	Diameter (in.): 2	
	NYTMN (km.): 4762.52	NYTME (km.): 182.429	Building: PRESSRM
Emission Point: 00065	Height (ft.): 40	Length (in.): 5	Width (in.): 17
	NYTMN (km.): 4762.52	NYTME (km.): 182.429	Building: 2A
Emission Point: 00066	Height (ft.): 40	Diameter (in.): 5	
	NYTMN (km.): 4762.52	NYTME (km.): 182.429	Building: 2A
Emission Point: 00067	Height (ft.): 40	Length (in.): 5	Width (in.): 17
	NYTMN (km.): 4762.52	NYTME (km.): 182.429	Building: 2A
Emission Point: 00068	Height (ft.): 26	Length (in.): 5	Width (in.): 17
	NYTMN (km.): 4762.52	NYTME (km.): 182.429	Building: 2A
Emission Point: 00069	Height (ft.): 26	Length (in.): 5	Width (in.): 17
	NYTMN (km.): 4762.52	NYTME (km.): 182.429	Building: 2A

Item 28.3:

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

Emission Unit: 3-STRND			
Emission Point: 00061	Height (ft.): 40	Diameter (in.): 9	
	NYTMN (km.): 4762.52	NYTME (km.): 182.429	Building: STANNEAL
Emission Point: 00062	Height (ft.): 40	Diameter (in.): 9	
	NYTMN (km.): 4762.52	NYTME (km.): 182.429	Building: STANNEAL

Item 28.4:

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

Emission Unit: 4-HOTRL			
Emission Point: 00070	Height (ft.): 50	Length (in.): 46	Width (in.): 64
	NYTMN (km.): 4762.52	NYTME (km.): 182.429	Building: CAKESTRG
Emission Point: 00071	Height (ft.): 50	Length (in.): 36	Width (in.): 68
	NYTMN (km.): 4762.52	NYTME (km.): 182.429	Building: CAKESTRG
Emission Point: 00100	Height (ft.): 69	Diameter (in.): 70	

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NYTMN (km.): 4762.3 NYTME (km.): 182.4 Building: 25A

Item 28.5:

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

Emission Unit: 6-TREAT

Emission Point: 00048

Height (ft.): 39 Diameter (in.): 16
 NYTMN (km.): 4762.52 NYTME (km.): 182.429

Item 28.6:

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

Emission Unit: 7-CRACK

Emission Point: 00050

Height (ft.): 39 Diameter (in.): 20
 NYTMN (km.): 4762.52 NYTME (km.): 182.429

Item 28.7:

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

Emission Unit: 8-SHAKE

Emission Point: 00052

Height (ft.): 43 Diameter (in.): 36
 NYTMN (km.): 4762.52 NYTME (km.): 182.429

Item 28.8:

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

Emission Unit: 9-TINLN

Emission Point: 00080

Height (ft.): 49 Diameter (in.): 32
 NYTMN (km.): 4762.52 NYTME (km.): 182.429 Building: N CON. BAY

Emission Point: 00081

Height (ft.): 49 Diameter (in.): 13
 NYTMN (km.): 4762.52 NYTME (km.): 182.429 Building: N CON. BAY

Emission Point: 00082

Height (ft.): 49 Diameter (in.): 13
 NYTMN (km.): 4762.52 NYTME (km.): 182.429 Building: N CON. BAY

Condition 29: Process Definition By Emission Unit
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 29.1:

Permit ID: 9-1402-00021/00081

Facility DEC ID: 9140200021

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

Emission Unit: 1-CASTS
 Process: CAS Source Classification Code: 3-04-050-01
 Process Description:
 Copper and alloying elements, including zinc alloy, are melted in electric induction furnaces and poured off into water cooled molds to form flat cakes. Charcoal, carbon black, and other fluxing agents are used to minimize excessive fuming. Two baghouses are utilized to control emissions. Overhead roof fans are also used to alleviate fugitive emissions.

Emission Source/Control: C5BH1 - Control
 Control Type: FABRIC FILTER

Emission Source/Control: C5BH2 - Control
 Control Type: CENTRIFUGAL

Emission Source/Control: CSBH1 - Control
 Control Type: FABRIC FILTER

Emission Source/Control: CSBH2 - Control
 Control Type: FABRIC FILTER

Emission Source/Control: CAST2 - Process

Emission Source/Control: CAST3 - Process

Emission Source/Control: CAST4 - Process

Emission Source/Control: CAST5 - Process

Item 29.2:

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

Emission Unit: 1-CASTS
 Process: HTR Source Classification Code: 3-03-900-03
 Process Description:
 Natural gas is combusted in preheat torches at each of the five casting stations to maintain the temperature of the molten alloy as it is being pouted through the runner boxes. Emissions are vented through the baghouses as well as the overhead roof fans.

Emission Source/Control: C5BH1 - Control
 Control Type: FABRIC FILTER

Emission Source/Control: C5BH2 - Control
 Control Type: CENTRIFUGAL

Emission Source/Control: CSBH1 - Control

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Control Type: FABRIC FILTER

Emission Source/Control: CSBH2 - Control
Control Type: FABRIC FILTER

Emission Source/Control: CAST2 - Process

Emission Source/Control: CAST3 - Process

Emission Source/Control: CAST4 - Process

Emission Source/Control: CAST5 - Process

Emission Source/Control: TORCH - Process

Item 29.3:

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

Emission Unit: 2-ANEAL

Process: ANL

Source Classification Code: 3-03-009-34

Process Description:

There are 12 annealing furnaces installed prior to 1970 in use at the facility to heat treat copper alloy. There are 3 types: strand anneals, bell anneals, and annealing furnaces. The 12 furnaces are located across 7 different buildings: building #24, #29, #31, #33, 2a, press room and the strip anneal bay. The furnaces use natural gas to create a carbon rich atmosphere for treating the alloy. The heat treating enhances the physical properties of the alloy making it stronger and/or more malleable. This process is similar to the annealing process used in the steel industry, however the same emission factors do not apply. Emissions from the annealing furnaces at the Aurubis facility are based on stack testing results and natural gas usage records.

Emission Source/Control: 121BL - Combustion

Emission Source/Control: 125BL - Combustion

Emission Source/Control: 127BL - Combustion

Emission Source/Control: 128BL - Combustion

Emission Source/Control: 129BL - Combustion

Emission Source/Control: 132ST - Combustion

Emission Source/Control: 133ST - Combustion

Emission Source/Control: 134ST - Combustion

Permit ID: 9-1402-00021/00081

Facility DEC ID: 9140200021

Emission Source/Control: 135AN - Combustion

Emission Source/Control: 138AN - Combustion

Emission Source/Control: 143ST - Combustion

Emission Source/Control: 147ST - Combustion

Item 29.4:

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

Emission Unit: 3-STRND

Process: STR

Source Classification Code: 3-03-009-34

Process Description:

An additional strand annealing furnace is in use at the facility to heat treat copper alloy, the 148 strand. This furnace uses natural gas to create a carbon rich atmosphere for treating the alloy. The heat treating enhances the physical properties of the alloy. This process is similar to the annealing process used in the steel industry, however the same emission factors do not apply. Emissions from the annealing furnaces at the Aurubis facility are based on stack testing results and natural gas usage records. The 148 strand anneal furnace was installed after 1974 and is subject to compliance with Prevention of Significant Deterioration (PSD) regulations.

Emission Source/Control: 148ST - Combustion

Item 29.5:

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

Emission Unit: 4-HOTRL

Process: CHT

Source Classification Code: 3-99-900-03

Process Description:

Natural gas is used to fire two furnaces, the 130 and 146 cake heaters. These furnaces are used to heat cakes of copper alloy prior to hot or cold rolling.

Emission Source/Control: 130CH - Combustion

Emission Source/Control: 146CH - Combustion

Item 29.6:

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

Emission Unit: 4-HOTRL

Process: MIL

Source Classification Code: 3-05-150-03

Process Description:

Copper alloy bars are surface milled at the torin mill, generating chips which are transported by a vacuum system.

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The chips are collected by a centrifugal precipitator and a rotoclone and are recycled.

Emission Source/Control: TORIN - Process

Item 29.7:

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

Emission Unit: 6-TREAT
 Process: DRY Source Classification Code: 3-99-999-94
 Process Description:

A steam jacket dryer is used to dry filter cake at the wastewater treatment plant. A wet scrubber is used to control emissions. Control efficiency of the scrubber is 99%.

Emission Source/Control: DRYER - Control
 Control Type: WET SCRUBBER

Emission Source/Control: STMJK - Process

Item 29.8:

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

Emission Unit: 7-CRACK
 Process: OIL Source Classification Code: 3-99-999-95
 Process Description:

Soluble oil and water is used as a coolant in the rolling operations at the facility. The oil and water emulsion is collected and separated in a cracking tank.

Emission Source/Control: CRKTK - Process

Item 29.9:

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

Emission Unit: 8-SHAKE
 Process: SHK Source Classification Code: 3-99-999-94
 Process Description:

Two sorting shaker tables are used to sort the casting stations' skimming and runner box debris prior to being sent out for brass and copper reclamation.

Emission Source/Control: STSHK - Process

Item 29.10:

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

Emission Unit: 9-TINLN
 Process: GAS Source Classification Code: 3-04-002-99
 Process Description:

Natural gas is combusted in the flux dryer to provide

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heat to dry the flux before entering the tin bath, and in the on-line tin pot and refining tin pot to provide heat and maintain temperatures necessary to keep the tin molten.

Emission Source/Control: FLUXD - Process
Design Capacity: 300 feet per minute

Emission Source/Control: ONLIN - Process
Design Capacity: 300 feet per minute

Emission Source/Control: REFIN - Process

Item 29.11:

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

Emission Unit: 9-TINLN
Process: TIN Source Classification Code: 3-04-002-99
Process Description:

Emissions collected by the scrubber system include hydrochloric acid (HCl) from the flux tank, flux dryer, and from the refining station. Zinc oxide mist is also collected by the scrubber system, from the refining station.

Emission Source/Control: SCR80 - Control
Control Type: WET SCRUBBER

Emission Source/Control: FLUXD - Process
Design Capacity: 300 feet per minute

Emission Source/Control: REFIN - Process

Condition 30: Emission Unit Permissible Emissions
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 30.1:

The sum of emissions from all regulated processes specified in this permit for the emission unit cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: 3-STRND
CAS No: 000630-08-0
Name: CARBON MONOXIDE
PTE(s): 21.7 pounds per hour
190,000 pounds per year

Condition 31: Compliance Certification
Effective between the dates of 05/24/2022 and 05/23/2027

Permit ID: 9-1402-00021/00081

Facility DEC ID: 9140200021

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 31.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CASTS

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 31.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility must conduct a performance test on both baghouses, EP 00030 and EP 00055, within 180 days of the issuance date of this permit in order to demonstrate that these devices are achieving the maximum level of control as suggested by the manufacturer. The performance testing must be performed in accordance with 40 CFR 60, Appendix A, using USEPA approved test methods. The test protocol(s) shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at least 60 days prior to the proposed test date(s). Department staff will be afforded the opportunity to witness the performance test by notifying the RAPCE of the actual test date at least 30 days prior to the test date. A test report shall be submitted to the RAPCE within 60 days of test completion. Testing of these devices is required every 5 years.

To ensure that the baghouses are operating as designed, the following emissions must also be tested using USEPA methods, or those approved by the Department, within 180 days of the issuance date of this permit:
Aluminum, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Silver, Sodium, Thallium, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Vanadium, Zinc, Calcium, Selenium, and Dioxin and Dioxin-like Compounds.

Lower Permit Limit: 99.9 percent

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 32: Compliance Certification

Effective between the dates of 05/24/2022 and 05/23/2027

Permit ID: 9-1402-00021/00081

Facility DEC ID: 9140200021

Applicable Federal Requirement: 40CFR 60.132(b), NSPS Subpart M

Item 32.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CASTS

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The facility owner or operator shall observe emission point(s) associated with the emission unit 1-CASTS weekly during daylight hours. If any visible emissions are present, the facility owner or operator shall determine the cause immediately and make the necessary correction(s). The records of these observations will be recorded in a bound log book at the facility and shall be made available to the Department upon request. Records will be maintained for a minimum of 5 years.

If after corrections are made and the emissions appear to be potentially in excess of 10% opacity, the facility owner or operator will conduct a Method 9 evaluation to determine the degree of opacity. The Department reserves the right to perform or require the performance of a Method 9 evaluation.

Parameter Monitored: OPACITY

Upper Permit Limit: 10 percent

Reference Test Method: Method 9

Monitoring Frequency: WEEKLY

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 33: Compliance Certification

Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement: 6 NYCRR 200.7

Item 33.1:

The Compliance Certification activity will be performed for:

Permit ID: 9-1402-00021/00081

Facility DEC ID: 9140200021

Emission Unit: 1-CASTS

Emission Point: 00030

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Flow through the baghouse will be measured on the outlet of the baghouse. A minimum flow of 70,000 cfm and a maximum flow of 110,000 cfm will be monitored to demonstrate that the bags are intact, but not overloaded. An alarm condition for a flow below 70,000 cfm would indicate blinding, or other obstruction, and would result in a system check and maintenance activity initiated within 24 hours. An alarm condition for a flow above 110,000 cfm would result in the individual baghouse module being shut down and the bags would be replaced before being brought on-line. Audible alarms for high and low flow are installed.

Parameter Monitored: AIR FLOW

Lower Permit Limit: 70,000 cubic feet per minute

Upper Permit Limit: 110,000 cubic feet per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED
RANGE AT ANY TIME

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 34: Compliance Certification

Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 200.7

Item 34.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CASTS

Emission Point: 00055

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL

Permit ID: 9-1402-00021/00081

Facility DEC ID: 9140200021

DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Flow through the baghouse will be measured on the outlet of the baghouse. A minimum flow of 15,000 cfm and a maximum flow of 45,000 cfm will be monitored to demonstrate that the bags are intact, but not overloaded. An alarm condition for a flow below 15,000 cfm would indicate blinding, or other obstruction, and would result in a system check and maintenance activity initiated within 24 hours. An alarm condition for a flow above 45,000 cfm would result in the individual baghouse module being shut down and the bags would be replaced before being brought on-line. Audible alarms for high and low flow are installed.

Parameter Monitored: AIR FLOW

Lower Permit Limit: 15,000 cubic feet per minute

Upper Permit Limit: 45,000 cubic feet per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED RANGE AT ANY TIME

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 35: Capping Monitoring Condition

Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 35.1:

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:

40 CFR 52.21

Item 35.2:

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

Item 35.3:

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 35.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of

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Facility DEC ID: 9140200021

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 35.5:

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 35.6:

The Compliance Certification activity will be performed for:

Emission Unit: 3-STRND

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 35.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Natural gas usage for the 148 strand anneal will be monitored monthly to ensure that the CO emission limit of 100 tons per year (TPY) is not exceeded. Based on the 1994 stack test data, natural gas usage shall be limited to 4,147,465 cubic feet per year. The natural gas usage data must be submitted with the annual compliance certification report.

Parameter Monitored: NATURAL GAS

Upper Permit Limit: 4,147,465 cubic feet per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2023.

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

Condition 36: Compliance Certification

Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 200.7**Item 36.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 4-HOTRL

Permit ID: 9-1402-00021/00081

Facility DEC ID: 9140200021

Process: MIL

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Maintenance of the vacuum system and cyclones will be performed to ensure the proper operation and collection efficiency. Equipment will be visibly inspected on a weekly basis to determine the need for cleaning. Records of the inspections and maintenance activities must be maintained at the facility for five years.

Monitoring Frequency: WEEKLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 37: Compliance Certification

Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement:6 NYCRR 200.7

Item 37.1:

The Compliance Certification activity will be performed for:

Emission Unit: 6-TREAT

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 37.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Maintenance of the scrubber will be performed to ensure operation of the equipment at maximum collection efficiency. Equipment will be inspected weekly to meet this requirement. Records of the inspections and maintenance activities must be maintained at the facility for five years.

Monitoring Frequency: WEEKLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

Permit ID: 9-1402-00021/00081

Facility DEC ID: 9140200021

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

Condition 38: Compliance Certification

Effective between the dates of 05/24/2022 and 05/23/2027

Applicable Federal Requirement: 6 NYCRR 200.7

Item 38.1:

The Compliance Certification activity will be performed for:

Emission Unit: 9-TINLN

Regulated Contaminant(s):

CAS No: 007647-01-0 HYDROGEN CHLORIDE

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The scrubber must be operated at all times of operation.

The scrubber must be operated and maintained according to

the manufacturers specifications. The facility owner or

operator of this emission source must maintain all

required records on site for a period of five (5) years.

Manufacturer information relating to operation and

maintenance of scrubber system is maintained on-site.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Permit ID: 9-1402-00021/00081

Facility DEC ID: 9140200021

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 in 6 NYCRR 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 demonstrate, 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 facility was being properly operated and maintained;

(3) during the period of the emergency the facility owner or operator took all reasonable steps to minimize the 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 any 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 malfunction 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

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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 39: Contaminant List

Effective between the dates of 05/24/2022 and 05/23/2027

Applicable State Requirement: ECL 19-0301

Item 39.1:

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

CAS No: 000630-08-0
Name: CARBON MONOXIDE

CAS No: 007647-01-0
Name: HYDROGEN CHLORIDE

CAS No: 0NY075-00-0
Name: PARTICULATES

Condition 40: Malfunctions and Start-up/Shutdown Activities

Effective between the dates of 05/24/2022 and 05/23/2027

Applicable State Requirement: 6 NYCRR 201-1.4

Item 40.1:

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

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(b) The facility owner or operator shall compile and maintain records of all equipment maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedance occurred and if it was unavoidable, include the time, frequency and duration of the exceedance, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous monitoring and quarterly reporting requirements need not submit additional reports of exceedances to the department.

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, the air contaminants emitted, and the resulting emission rates and/or opacity.

(d) The department may also require the facility owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 41: CLCPA Applicability
Effective between the dates of 05/24/2022 and 05/23/2027

Applicable State Requirement: 6 NYCRR 201-6.5 (a)

Item 41.1:

Pursuant to The New York State Climate Leadership and Community Protection Act (CLCPA) and Article 75 of the Environmental Conservation Law, emission sources shall comply with regulations to be promulgated by the Department to ensure that by 2030 statewide greenhouse gas emissions are reduced by 40% of 1990 levels, and by 2050 statewide greenhouse gas emissions are reduced by 85% of 1990 levels.

Condition 42: Air pollution prohibited
Effective between the dates of 05/24/2022 and 05/23/2027

Permit ID: 9-1402-00021/00081

Facility DEC ID: 9140200021

Applicable State Requirement:6 NYCRR 211.1

Item 42.1:

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.

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