



PRETREATMENT PERMIT

issued to

Ansonia Specialty Metals, LLC
725 Bank Street
Waterbury, CT 06708

Location Address:

725 Bank Street
Waterbury, CT 06708

Permit ID: SP0002215

Permit Expires: _____

SECTION 1: GENERAL PROVISIONS

- (A) This permit is reissued in accordance with section 22a-430 of Chapter 446k, Connecticut General Statutes ("CGS"), and Regulations of Connecticut State Agencies ("RCSA") adopted thereunder, as amended, and a modified Memorandum of Agreement (MOA) dated June 3, 1981, by the Administrator of the United States Environmental Protection Agency which authorizes the State of Connecticut to administer a Pretreatment Program pursuant to 40 CFR Part 403.
- (B) Ansonia Specialty Metals, LLC, ("Permittee"), shall comply with all conditions of this permit including the following sections of the RCSA which have been adopted pursuant to section 22a-430 of the CGS and are hereby incorporated into this permit. Your attention is especially drawn to the notification requirements of subsection (i)(2), (i)(3), (j)(1), (j)(6), (j)(8), (j)(9)(C), (j)(11)(C), (D), (E), and (F), (k)(3) and (4) and (l)(2) of section 22a-430-3.

Section 22a-430-3 General Conditions

- (a) Definitions
- (b) General
- (c) Inspection and Entry
- (d) Effect of a Permit
- (e) Duty
- (f) Proper Operation and Maintenance
- (g) Sludge Disposal
- (h) Duty to Mitigate
- (i) Facility Modifications; Notification
- (j) Monitoring, Records and Reporting Requirements
- (k) Bypass
- (l) Conditions Applicable to POTWs
- (m) Effluent Limitation Violations (Upsets)
- (n) Enforcement
- (o) Resource Conservation
- (p) Spill Prevention and Control
- (q) Instrumentation, Alarms, Flow Recorders
- (r) Equalization

Section 22a-430-4 Procedures and Criteria

- (a) Duty to Apply
- (b) Duty to Reapply

- (c) Application Requirements
- (d) Preliminary Review
- (e) Tentative Determination
- (f) Draft Permits, Fact Sheets
- (g) Public Notice, Notice of Hearing
- (h) Public Comments
- (i) Final Determination
- (j) Public Hearings
- (k) Submission of Plans and Specifications. Approval.
- (l) Establishing Effluent Limitations and Conditions
- (m) Case by Case Determinations
- (n) Permit issuance or renewal
- (o) Permit Transfer
- (p) Permit revocation, denial or modification
- (q) Variances
- (r) Secondary Treatment Requirements
- (s) Treatment Requirements for Metals and Cyanide
- (t) Discharges to POTWs - Prohibitions

- (C) Violations of any of the terms, conditions, or limitations contained in this permit may subject the Permittee to enforcement action, including but not limited to, seeking penalties, injunctions and/or forfeitures pursuant to applicable sections of the CGS and RCSA. Specifically, civil penalties of up to twenty-five thousand dollars may be assessed per violation per day.
- (D) Any false statement in any information submitted pursuant to this permit may be punishable as a criminal offense under section 22a-438 or 22a-131a of the CGS or in accordance with section 22a-6, under section 53a-157b of the CGS.
- (E) The authorization to discharge under this permit may not be transferred without prior written approval of the Commissioner of Energy and Environmental Protection ("the Commissioner"). To request such approval, the Permittee and proposed transferee shall register such proposed transfer with the Commissioner at least 30 days prior to the transferee becoming legally responsible for creating or maintaining any discharge which is the subject of the permit transfer. Failure by the transferee to obtain the Commissioner's approval prior to commencing such discharge(s) may subject the transferee to enforcement action for discharging without a permit pursuant to applicable sections of the CGS and RCSA.
- (F) Nothing in this permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- (G) An annual fee shall be paid for each year this permit is in effect as set forth in section 22a-430-7 of the Regulations of Connecticut State Agencies.

SECTION 2: DEFINITIONS

- (A) The definitions of the terms used in this permit shall be the same as the definitions contained in section 22a-423 of the CGS and section 22a-430-3(a) and 22a-430-6 of the RCSA.
- (B) In addition to the above the following definitions shall apply to this permit:

"----" in the limits column on the monitoring table means a limit is not specified but a value must be reported on the DMR.

"Average Monthly Limit" means the maximum allowable "Average Monthly Concentration" as defined in section 22a-430-3(a) of the RCSA when expressed as a concentration (e.g. mg/l); otherwise, it means "Average Monthly Discharge Limitation" as defined in section 22a-430-3(a) of the RCSA.

"Daily Concentration" means the concentration of a substance as measured in a daily composite sample, or the arithmetic average of all grab sample results defining a grab sample average.

"Daily Quantity" means the quantity of waste generated during an operating day.

"Instantaneous Limit" means the highest allowable concentration of a substance as measured by a grab sample, or the highest allowable measurement of a parameter as obtained through instantaneous monitoring.

"Maximum Daily Limit" means the maximum allowable "Daily Concentration" (defined above) when expressed as a concentration (e.g. mg/l); otherwise, it means the maximum allowable "Daily Quantity" as defined above unless it is expressed as a flow quantity. If expressed as a flow quantity it means "Maximum Daily Flow" as defined in section 22a-430-3(a) of the RCSA.

"NA" as a Monitoring Table abbreviation means "not applicable".

"NR" as a Monitoring Table abbreviation means "not required".

"Quarterly" in the context of a sampling frequency, means sampling is required in the months of March, June, September, and December.

"Range During Sampling" or "RDS", as a sample type, means the maximum and minimum of all values recorded as a result of analyzing each grab sample of; 1) a Composite Sample, or 2) a Grab Sample Average. For those permittees with continuous monitoring and recording pH meters, Range During Sampling shall mean the maximum and minimum readings recorded with the continuous monitoring device during the Composite or Grab Sample Average sample collection.

"Range During Month" or "RDM", as a sample type, means the lowest and the highest values of all of the monitoring data for the reporting month.

"µg/l" means micrograms per liter.

SECTION 3: COMMISSIONER'S FINAL DETERMINATION

- (A) The Commissioner has made a final determination and found that the continuance of the existing system to treat the discharge will protect the waters of the state from pollution. The Commissioner's decision is based on Application No. 201100440 for permit reissuance, received on January 25, 2011 and the administrative record established in the processing of that application.
- (B) (1) From the issuance of this permit through and including [LAST DAY OF MONTH, MONTH OF PERMIT REISSUANCE], the Commissioner hereby authorizes the Permittee to discharge in accordance with the terms and conditions of Permit No.SP0002215, issued by the Commissioner to the Permittee on July 27, 2006, the previous application submitted by the Permittee on February 13, 2004, and all modifications and approvals issued by the Commissioner or the Commissioner's authorized agent for the discharge and/or activities authorized by, or associated with, Permit No.SP0002215, issued by the Commissioner to the Permittee on July 27, 2006.
- (2) From [FIRST DAY OF MONTH, MONTH FOLLOWING PERMIT REISSUANCE] until this permit expires or is modified or revoked, the Commissioner hereby authorizes the Permittee to discharge in accordance with the terms and conditions of Permit No.SP0002215 issued by the Commissioner to the Permittee on [DATE OF PERMIT REISSUANCE], Application No. 201100440 received by the Department on January 25, 2011, and all modifications and approvals issued by the Commissioner or the Commissioner's authorized agent for the discharge and/or activities authorized by, or associated with, Permit No. SP0002215, issued by the Commissioner to the Permittee on [DATE OF PERMIT REISSUANCE].
- (C) The Commissioner reserves the right to make appropriate revisions to the permit in order to establish any appropriate effluent limitations, schedules of compliance, or other provisions that may be authorized under the Federal Clean Water Act or the Connecticut General Statutes or regulations adopted thereunder, as amended. The permit as modified or renewed under this paragraph may also contain any other requirements of the Federal Clean Water Act or Connecticut General Statutes or regulations adopted thereunder which are then applicable.

SECTION 4: EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- (A) The discharge shall not exceed and shall otherwise conform to specific terms and conditions listed below. The discharge is restricted by, and shall be monitored in accordance with, the table below.

DRAFT

Table A								
Discharge Serial Number: 001-1						Monitoring Location: 1		
Wastewater Description: Copper forming wastewaters which include; quenching, annealing, pickling rinse, pickling bath, tumbling, and hydrostatic testing wastewaters, and recycled air compressor condensate and recycled boiler blowdown.								
Monitoring Location Description: Sample tap on sand filter discharge pipe								
Discharge is to: The City of Waterbury Water Pollution Control Facility								
PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/Reporting Frequency ²	Sample Type or measurement to be reported
Chromium, Total	mg/l	0.13	0.31	Quarterly	Daily Composite	0.46	NR	Grab
Chromium, Total	gr/d	12.0	30.0	Quarterly	Daily Composite	NA	NR	NA
Copper, Total	mg/l	0.54	0.73	Weekly	Daily Composite	1.09	NR	Grab
Copper, Total	gr/d	51.1	69.1	Weekly	Daily Composite	NA	NR	NA
Flow rate, (Average Daily) ¹	gpd	25,000	NA	Continuous	Total Daily Flow	NA	NR	NA
Flow, Maximum during a 24 hour period ¹	gpd	NA	50,000	Continuous	Total Daily Flow	NA	NR	NA
Flow, Day of Sampling	gpd	NA	50,000	Continuous	Total Daily Flow	NA	NR	NA
Lead, Total	mg/l	0.09	0.11	Weekly	Daily Composite	0.16	NR	Grab
Lead, Total	gr/d	9.0	10.0	Weekly	Daily Composite	NA	NR	NA
Nickel, Total	mg/l	0.63	0.85	Weekly	Daily Composite	1.28	NR	Grab
Nickel, Total	gr/d	59.6	80.4	Weekly	Daily Composite	NA	NR	NA
Oil and grease, Total	mg/l	8.6	14.3	Weekly	Grab Sample Average	21.5	NR	Grab
Oil and grease, Total	gr/d	810	1350	Weekly	Grab Sample Average	NA	NR	NA
pH, Day of Sampling	S.U.	NA	NA	NR	NA	6.0 – 10.0	Weekly	RDS
pH, Minimum	S.U.	NA	NA	NR	NA	6.0	Continuous	Continuous
pH, Maximum	S.U.	NA	NA	NR	NA	10.0	Continuous	Continuous
Total Suspended Solids	mg/l	NA	----	Quarterly	Daily Composite	NA	NR	NA
Zinc, Total	mg/l	0.44	0.72	Weekly	Daily Composite	1.08	NR	Grab
Zinc, Total	gr/d	41.6	68.1	Weekly	Daily Composite	NA	NR	NA
Table Footnotes and Remarks:								
Footnotes:								
¹ For this parameter, the Permittee shall maintain at the facility a record of the Total Daily Flow for each day of discharge and shall report the Average Daily Flow and the Maximum Daily Flow for each sampling month.								
² The first entry in this column is the ‘Sample Frequency’. If this entry is not followed by a ‘Reporting Frequency’ and the ‘Sample Frequency’ is more frequent than monthly then the ‘Reporting Frequency’ is monthly. If the ‘Sample frequency’ is specified as monthly, or less frequent, then the ‘Reporting Frequency’ is the same as the ‘Sample Frequency’.								
Remarks:								
a) The Permittee shall implement the Solvent Management Plan for the facility that was approved on March 20, 2006.								

- (B) All samples shall be comprised of only those wastewaters described in this schedule; therefore, samples shall be taken prior to combination with wastewaters of any other type and after all approved treatment units, if applicable. All samples taken shall be representative of the discharge during standard operating conditions.
- (C) In cases where limits and sample type are specified but sampling is not required, the limits specified shall apply to all samples which may be collected and analyzed by, the Department of Energy and Environmental Protection personnel, the Permittee, or other parties.

SECTION 5: SAMPLE COLLECTION, HANDLING AND ANALYTICAL TECHNIQUES AND REPORTING REQUIREMENTS

- (A) Chemical analyses to determine compliance with effluent limits and conditions established in this permit shall be performed using the methods approved by the Environmental Protection Agency pursuant to 40 CFR 136 unless an alternative method has been approved in writing in accordance with 40 CFR 136.4 or as provided in section 22a-430-3(j)(7) of the RCSA. Chemicals which do not have methods of analysis defined in 40 CFR 136 shall be analyzed in accordance with methods specified in this permit.
- (B) All metals analyses identified in this permit shall refer to analyses for Total Recoverable Metal as defined in 40 CFR 136 unless otherwise specified.
- (C) The results of chemical analysis required above shall be entered on the Discharge Monitoring Report (DMR), provided by this office, and reported to the Bureau of Materials Management and Compliance Assurance at the following address. Except for continuous monitoring, any monitoring required more frequently than monthly shall be reported on an attachment to the DMR, and any additional monitoring conducted in accordance with 40 CFR 136 or other methods approved by the Commissioner shall also be included on the DMR, or as an attachment, if necessary. The report shall also include a detailed explanation of any violations of the limitations specified. The DMR shall be received at this address by the last day of the month following the month in which samples are taken.

Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division (Attn: DMR Processing)
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

- (D) If this permit requires monitoring of a discharge on a calendar basis (e.g. Monthly, quarterly, etc.) but a discharge has not occurred within the frequency of sampling specified in the permit, the Permittee must submit the DMR as scheduled, indicating "NO DISCHARGE". For those permittees whose required monitoring is discharge dependent (e.g. per batch), the minimum reporting frequency is monthly. Therefore, if there is no discharge during a calendar month for a batch discharge, a DMR must be submitted indicating such by the end of the following month.

(E) NetDMR Reporting Requirements

1. Prior to one-hundred and eighty (180) days after the issuance of this permit, the Permittee may either submit monitoring data and other reports to the Department in hard copy form or electronically using NetDMR, a web-based tool that allows Permittees to electronically submit discharge monitoring reports (DMRs) and other required reports through a secure internet connection. Unless otherwise approved in writing by the Commissioner, no later than one-hundred and eighty (180) days after the issuance of this permit the Permittee shall begin reporting electronically using NetDMR. Specific requirements regarding subscription to NetDMR and submittal of data and reports in hard copy form and for submittal using NetDMR are described below:

a. Submittal of *NetDMR Subscriber Agreement*

On or before fifteen (15) days after the issuance of this permit, the Permittee and/or the person authorized to sign the Permittee's discharge monitoring reports ("Signatory Authority") as described in RCSA Section 22a-430-3(b)(2) shall contact the Department at deep.netdmr@ct.gov and initiate the NetDMR subscription process for electronic submission of Discharge Monitoring

Report (DMR) information. Information on NetDMR is available on the Department's website at www.ct.gov/deep/netdmr. On or before ninety (90) days after issuance of this permit the Permittee shall submit a signed and notarized copy of the **Connecticut DEEP NetDMR Subscriber Agreement** to the Department.

b. Submittal of Reports Using NetDMR

Unless otherwise approved by the Commissioner, on or before one-hundred and eighty (180) days after issuance of this permit, the Permittee and/or the Signatory Authority shall electronically submit DMRs and reports required under this permit to the Department using NetDMR in satisfaction of the DMR submission requirement of Section 5(C) of this permit.

DMRs shall be submitted electronically to the Department no later than the 30th day of the month following the completed reporting period. All reports required under the permit, including any monitoring conducted more frequently than monthly or any additional monitoring conducted in accordance with 40 CFR 136, shall be submitted to the Department as an electronic attachment to the DMR in NetDMR. Once a Permittee begins submitting reports using NetDMR, it will no longer be required to submit hard copies of DMRs or other reports to the Department. The Permittee shall also electronically file any written report of non-compliance described in Section 6 of this permit as an attachment in NetDMR. NetDMR is accessed from: <http://www.epa.gov/netdmr>.

c. Submittal of NetDMR Opt-Out Requests

If the Permittee is able to demonstrate a reasonable basis, such as technical or administrative infeasibility, that precludes the use of NetDMR for electronically submitting DMRs and reports, the Commissioner may approve the submission of DMRs and other required reports in hard copy form ("opt-out request"). Opt-out requests must be submitted in writing to the Department for written approval on or before fifteen (15) days prior to the date a Permittee would be required under this permit to begin filing DMRs and other reports using NetDMR. This demonstration shall be valid for twelve (12) months from the date of the Department's approval and shall thereupon expire. At such time, DMRs and reports shall be submitted electronically to the Department using NetDMR unless the Permittee submits a renewed opt-out request and such request is approved by the Department.

All opt-out requests and requests for the NetDMR subscriber form should be sent to the following address or by email at deep.netdmr@ct.gov:

Attn: NetDMR Coordinator
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

- (F) Copies of all DMRs shall be submitted concurrently to the local Water Pollution Control Authority(ies) ("WPCA") involved in the treatment and collection of the permitted discharge.

SECTION 6: RECORDING AND REPORTING OF VIOLATIONS, ADDITIONAL TESTING REQUIREMENTS

- (A) If any sample analysis indicates that an effluent limitation specified in Section 4 of this permit has been exceeded, a second sample of the effluent shall be collected and analyzed for the parameter(s) in question and the results reported to the Bureau of Materials Management and Compliance Assurance (Attn: DMR Processing) within 30 days of the exceedance.
- (B) The Permittee shall immediately notify the Bureau of Materials Management and Compliance Assurance and the local WPCA of all discharges that could cause problems to the Publicly Owned Treatment Works ("POTW"), including but not limited to slug loadings of pollutants which may cause a violation of the POTW's NPDES permit, or which may inhibit or disrupt the POTW, its treatment processes or operations,

or its sludge processes, use or disposal.

- (C) In addition to the notification requirements specified in Section 1(B) of this permit, if any sampling and analysis of the discharge performed by the Permittee indicates a violation of limits specified in Section 4 of this permit, the Permittee shall notify the Bureau of Materials Management and Compliance Assurance within 24 hours of becoming aware of the violation.

SECTION 7: COMPLIANCE CONDITIONS

In accordance with 40 CFR §403.8(f)(2)(viii), the Commissioner may provide public notification, in a newspaper of general circulation in the area of the respective POTW, of permittees that at any time in the previous twelve months were in significant noncompliance with the provisions of this permit. For the purposes of this provision, a permittee that is a Significant Industrial User is in significant noncompliance if its violation(s) meet(s) one or more of the following criteria:

- **Chronic violations:** Those in which sixty-six (66%) percent or more of all measurements taken for the same pollutant parameter during a six-month period exceed (by any magnitude) the Average Monthly, Maximum Daily, or Maximum Instantaneous Limit(s).
- **Technical Review Criteria violations:** Those in which thirty-three (33%) or more of all of the measurements taken for the same pollutant parameter during a six-month period equal or exceed the Average Monthly, Maximum Daily, or Maximum Instantaneous Limit(s) multiplied by 1.4 for BOD, TSS, fats, oil, and grease, or 1.2 for all other pollutants except pH.
- **Monitoring Reports:** Failure to provide, within 45 days after the due date, required reports such as DMRs.
- **Compliance Schedule:** Failure to meet within 90 days after the schedule date, a compliance schedule milestone contained in or linked to a respective permit for starting construction, completing construction, or attaining final compliance.
- **Noncompliance Reporting:** Failure to accurately report noncompliance in accordance with provisions identified in Section 6 of this permit.
- **Discretionary:** Any other violation of an effluent limit that the Department determines has caused, alone or in combination with other discharges, a violation of the POTW's NPDES permit, inhibition or disruption of the POTW, its treatment processes or operations, or its sludge processes, use or disposal.
- **Imminent Endangerment:** Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or to the environment, or has resulted in the Department's exercise of its emergency authority under 40 CFR §403.8(f)(1)(vi)(B) to halt or prevent such a discharge.
- **BMPs:** Any other violation or group of violations, which may include a violation of Best Management Practices, which the Department determines will adversely affect the operation or implementation of the pretreatment program.

This permit is hereby issued on

Macky McCleary
Deputy Commissioner
Department of Energy and Environmental Protection

cc: City of Waterbury Water Pollution Control Facility

WASTEWATER DISCHARGE PERMIT: DATA TRACKING AND TECHNICAL FACT SHEET

Permittee: Ansonia Specialty Metals, LLC

PERMIT, ADDRESS, AND FACILITY DATA

PERMIT #: SP0002215

APPLICATION #: 201100440

<u>Mailing Address:</u>						<u>Location Address:</u>					
Street:	725 Bank Street					Street:	725 Bank Street				
City:	Waterbury	ST:	CT	Zip:	06708	City:	Waterbury	ST:	CT	Zip:	06708
Contact Name:	John Barto					DMR Contact	Charlie Essex				
Phone No.:	(203) 755-6087					Phone No.:	(203) 755-6087				
Contact E-mail:	jbarto@ansoniacb.com					DMR Contact E-mail:	cessex@ansoniacb.com				

PERMIT INFORMATION

DURATION 5 YEAR X 10 YEAR 30 YEAR

TYPE New Reissuance X Modification

CATEGORIZATION POINT (X) NON-POINT () GIS #

NPDES () PRETREAT (X) GROUND WATER (UIC) () GROUND WATER (OTHER) ()

NPDES MAJOR (MA)

NPDES SIGNIFICANT MINOR or PRETREAT SIU (SI)

NPDES or PRETREATMENT MINOR (MI)

PRETREAT SIGNIFICANT INDUS USER (SIU) X

PRETREAT CATEGORICAL (CIU) X

POLLUTION PREVENTION MANDATE ENVIRONMENTAL EQUITY ISSUE

SIC CODE 3351

SOLVENT MANAGEMENT PLAN

IS THE FACILITY OPERATING UNDER AN APPROVED SOLVENT MANAGEMENT PLAN? Yes X No

Approved on March 20, 2006

COMPLIANCE SCHEDULE YES NO X

POLLUTION PREVENTION TREATMENT REQUIREMENT WATER CONSERVATION

WATER QUALITY REQUIREMENT REMEDIATION OTHER

RECENT ENFORCEMENT HISTORY

IS THE PERMITTEE SUBJECT TO A PENDING ENFORCEMENT ACTION? YES NO X

OWNERSHIP CODE

Private X Federal State Municipal (town only) Other public

DEEP STAFF ENGINEER Oluwatoyin Fakiledede

PERMIT FEES

<i>Discharge Code</i>	<i>DSN Number</i>	<i>Annual Fee</i>
501017Z	001-1	\$8425.00

FOR SEWER DISCHARGES

Discharge is to The City of Waterbury POTW via its collection system. The facility ID of the POTW is 151-001.

NATURE OF BUSINESS GENERATING DISCHARGE

Ansonia Specialty Metals, LLC. extrudes, draws and anneals large diameter copper tubing for the defense and specialty markets.

PROCESS AND TREATMENT DESCRIPTION (by DSN)

DSN 001-1: This discharge is composed of a maximum flow of 50,000 gpd of pretreated copper forming wastewaters, recycled boiler blowdown, and recycled air compressor condensate. The wastewaters undergo equalization, pH adjustment, flocculation, clarification, and filtration prior to discharge to the sanitary sewer.

Air compressor condensate, is discharged to an oil-water separator where it is skimmed to remove oil, and then sent to the quench tank. Aztec boiler condensate and blowdown are used as a hot rinse for the acid pickle line. Therefore, these waste streams do not contribute any dilution to the final wastewater discharge since they are used as process supply water.

RESOURCES USED TO DRAFT PERMIT

- X Federal Effluent Limitation Guideline 40 CFR 468.14
name of category
- Performance Standards
- Federal Development Document
name of category
- Treatability Manual
- X Department File Information
- Connecticut Water Quality Standards
- Coastal Management Consistency Review
- X Other - Explain

BASIS FOR LIMITATIONS, STANDARDS OR CONDITIONS

- X Pretreatment Standards for Existing Sources (PSES) (Permittee started operations before 1982)
DSN 001-1: Mass limits - Chromium (AML, MDL), lead (AML, MDL) and oil & grease (AML, MDL)
- DSN 001-1: Concentration limits (the concentration limits were calculated from the mass limits using the permitted average daily flow) - Chromium (AML, MDL), lead (AML, MDL), oil & grease (AML, MDL) and zinc (AML)
- X Case by Case Determination using Best Professional Judgment (See Other Comments)

DSN 001-1: Mass and concentration limits - Chromium (MIL), copper (AML, MDL, MIL), lead (MIL), nickel (AML, MDL, MIL), oil & grease (MIL) and zinc (MDL, MIL)

AML: Average Monthly Limit

MDL: Maximum Daily Limit

MIL: Maximum Instantaneous Limit

GENERAL COMMENTS

Ansonia Copper and Brass, Inc. was the previous Permittee of Permit No. SP0002215. However, this permit and pending application were transferred to Ansonia Specialty Metals, LLC. on June 14, 2013, after the Department received a permit transfer registration in accordance with Section 22a-60(b) of the Connecticut General Statutes.

In developing the permit's concentration limits, EPA Copper Forming Categorical Limits (40 CFR Part 468) and Section 22a-430-4(s)(2) of the Regulations of Connecticut State Agencies (RCSA) limits were compared (see Appendix A). The EPA limits were found to be more stringent and were incorporated in the permit, with the exception of copper (MDL, MIL), nickel and zinc. Limits for copper, nickel and zinc are based on best professional judgment (see other comments), with the exception of average monthly limit for zinc. The mass limits were calculated by multiplying the concentration limits by the permitted average daily flow.

OTHER COMMENTS

Based on a case by case determination using the criteria of best professional judgment, maximum instantaneous limitations for chromium, lead and oil & grease were developed by multiplying the maximum daily limitations by a factor of 1.5, consistent with ratios used in Section 22a-430-4(s)(2) of the Regulations of Connecticut State Agencies (RCSA).

The Department has concerns with the level of copper, nickel and zinc in the City of Waterbury POTW's effluent. As a result, the Department is now including certain lower metal limits for discharges to this POTW. Based on a Case by Case Determination using the criteria of Best Professional Judgment, average monthly limits of 0.54 mg/l for copper and 0.63 mg/l for nickel, maximum daily limits of 0.73 mg/l, 0.85 mg/l and 0.72 mg/l, and maximum instantaneous limits of 1.09 mg/l, 1.28 mg/l and 1.08 mg/l were included for copper, nickel and zinc respectively. A review of the discharge monitoring reports (DMRs) from January 2009 to December 2011 revealed that the Permittee shouldn't have any problems meeting these limits.

Instead of incorporating limits for total toxic organics, oil and grease limits were included in this permit in accordance with EPA Federal Effluent Limitation Guideline 40 CFR 468.03(b) which states that "As an alternate monitoring procedure for TTO, indirect dischargers may monitor for oil and grease and meet the alternate monitoring standards for oil and grease established for PSES and PSNS. Any indirect discharger meeting the alternate monitoring standards for oil and grease standards shall be considered to meet the TTO standard." In addition to the oil and grease limits, a requirement that the Permittee shall implement the approved Solvent Management Plan was also included as Remark a) in Table A of Section 4(A) of this permit.

APPENDIX A: LIMITS CALCULATION FOR ANSONIA SPECIALTY METALS

40 CFR 468.14 - Pretreatment standards for existing sources (PSES)

(d) Subpart A: Solution Heat Treatment (PSES).

Pollutant or pollutant property	MDL (mg/kg)	AML (mg/kg)
Chromium	0.284	0.116
Copper	1.227	0.646
Lead	0.096	0.083
Nickel	1.240	0.820
Zinc	0.943	0.394
TTO	0.419	0.219
Oil and Grease ¹	12.920	7.752

¹ For alternate monitoring.

(h) Subpart A: Alkaline Cleaning Rinse (PSES).

Pollutant or pollutant property	MDL (mg/kg)	AML (mg/kg)
Chromium	1.854	0.758
Copper	8.006	4.214
Lead	0.632	0.547
Nickel	8.090	5.351
Zinc	6.152	2.570
TTO	2.739	1.432
Oil and grease ¹	84.280	50.568

¹ For alternate monitoring

(k) Subpart A: Pickling Rinse (PSES).

Pollutant or pollutant property	MDL (mg/kg)	AML (mg/kg)
Chromium	0.574	0.235
Copper	2.481	1.306
Lead	0.195	0.169
Nickel	2.507	1.658
Zinc	1.906	0.796
TTO	0.848	0.444
Oil and grease ¹	26.120	15.672

¹ For alternate monitoring

(m) Subpart A: Pickling Bath (PSES).

Pollutant or pollutant property	MDL (mg/kg)	AML (mg/kg)
Chromium	0.051	0.020

Copper	0.220	0.116
Lead	0.017	0.015
Nickel	0.222	0.147
Zinc	0.169	0.070
TTO	0.075	0.039
Oil and grease ¹	2.320	1.392

¹ For alternate monitoring

(q) Subpart A: Miscellaneous Waste Streams (PSES).

Pollutant or pollutant property	MDL (mg/kg)	AML (mg/kg)
Chromium	0.009	0.003
Copper	0.041	0.021
Lead	0.003	0.002
Nickel	0.041	0.027
Zinc	0.031	0.013
TTO	0.014	0.007
Oil and grease ¹	0.436	0.261

¹ For alternate monitoring

(f) Subpart A: Annealing with Water (PSES).

Pollutant or pollutant property	MDL (mg/kg)	AML (mg/kg)
Chromium	0.545	0.223
Copper	2.356	1.240
Lead	0.186	0.161
Nickel	2.380	1.574
Zinc	1.810	0.756
TTO	0.806	0.421
Oil and grease ¹	24.800	14.880

¹ For alternate monitoring

PSES Effluent limits

- 1) Copper Forming (Solution heat treatment) - 468.14(d):- 30,000 lbs/day
- 2) Copper Forming (Alkaline cleaning rinse) - 468.14(h):- 90,000 lbs/day
- 3) Copper Forming (Pickling rinse) - 468.14(k):- 90,000 lbs/day
- 4) Copper Forming (Pickling bath) - 468.14(m):- 90,000 lbs/day
- 5) Copper Forming (Miscellaneous waste stream) - 468.14(q):- 10,000 lbs/day
- 6) Copper Forming (Annealing with water) - 468.14(f):- 30,000 lbs/day

LIMITS CALCULATION

Calculations of portions of the production that are affected by different limits

3 + 9 + 9 + 9 + 1 + 3 = 34 (1 lb = 0.45359237 kg)

- 1) 468.14(d):- $\frac{3}{34} \times 90,000 \text{ lbs/day} = 7,941.18 \text{ lbs/day} = 3,602 \text{ kg/d}$
- 2) 468.14(h):- $\frac{9}{34} \times 90,000 \text{ lbs/day} = 23,823.53 \text{ lbs/day} = 10,806 \text{ kg/d}$
- 3) 468.14(k):- $\frac{9}{34} \times 90,000 \text{ lbs/day} = 23,823.53 \text{ lbs/day} = 10,806 \text{ kg/d}$

- 4) 468.14(m):- $9/34 \times 90,000 \text{ lbs/day} = 23,823.53 \text{ lbs/day} = 10,806 \text{ kg/d}$
- 5) 468.14(q):- $1/34 \times 90,000 \text{ lbs/day} = 2,647.06 \text{ lbs/day} = 1,201 \text{ kg/d}$
- 6) 468.14(f):- $3/34 \times 90,000 \text{ lbs/day} = 7,941.18 \text{ lbs/day} = 3,602 \text{ kg/d}$

CHROMIUM

Compare with Section 22a-430-4(s)(2)

Permitted average daily flow = 25,000 gallons per day = 94625 liters per day (1 gallon = 3.785 liters)

Convert production mass limits to concentration limits

COPPER

Compare with Section 22a-430-4(s)(2)

Permitted average daily flow = 25,000 gallons per day = 94625 liters per day (1 gallon = 3.785 liters)

Convert production mass limits to concentration limits

LEAD

Compare with Section 22a-430-4(s)(2)

Permitted average daily flow = 25,000 gallons per day = 94625 liters per day (1 gallon = 3.785 liters)

Convert production mass limits to concentration limits

NICKEL

Compare with Section 22a-430-4(s)(2)

Permitted average daily flow = 25,000 gallons per day = 94625 liters per day (1 gallon = 3.785 liters)

Convert production mass limits to concentration limits

ZINC

Compare with Section 22a-430-4(s)(2)

Permitted average daily flow = 25,000 gallons per day = 94625 liters per day (1 gallon = 3.785 liters)

Convert production mass limits to concentration limits

OIL & GREASE

Convert production mass limits to concentration limits

COMPARISON OF LIMITS

Pollutants of concern	Federal Effluent limits (PSES)			Section 22a-430-4(s)(2) Effluent limits			Federal Effluent limits (PSES)			Section 22a-430-4(s)(2) Effluent limits		
	(Mass limits) kg/d			(Mass limits) kg/d			(Concentration Limits) mg/l			(Concentration Limits) mg/l		
	AML	MDL	*MIL	AML	MDL	MIL	AML	MDL	*MIL	AML	MDL	MIL
Chromium	.012	.030	.045	.09	.19	.28	.13	.31	.46	1.0	2.0	3.0
Copper	.068	.129	.194	.09	.19	.28	.72	1.36	2.04	1.0	2.0	3.0
Lead	.009	.01	.015	.009	.047	.071	.09	.11	.16	0.1	0.5	0.75
Nickel	.086	.13	.195	.09	.19	.28	.91	1.37	2.06	1.0	2.0	3.0
Zinc	.041	.1	.15	.09	.19	.28	.44	1.04	1.56	1.0	2.0	3.0
Oil & Grease	.81	1.35	2.03	N/A	N/A	N/A	8.59	14.31	21.50	N/A	N/A	N/A

* Maximum instantaneous limits (MIL) are not included in Federal Effluent guidelines. The MILs included under the Federal Effluent limits listed above are based on best professional judgment by multiplying the maximum daily limits by a factor of 1.5, consistent with ratios used in Section 22a-430-4(s) of the Regulations of Connecticut State Agencies (RCSA).

**NOTICE OF TENTATIVE DECISION
INTENT TO RENEW A STATE PERMIT FOR THE FOLLOWING DISCHARGE
INTO THE WATERS OF THE STATE OF CONNECTICUT**

TENTATIVE DECISION

The Commissioner of Energy and Environmental Protection hereby gives notice of a tentative decision to renew a permit based on an application submitted by **Ansonia Specialty Metals, LLC** ("the applicant") under section 22a-430 of the Connecticut General Statutes for a permit to discharge into the waters of the state.

In accordance with applicable federal and state law, the Commissioner has made a tentative decision that continuance of the existing system to treat the discharge would protect the waters of the state from pollution and the Commissioner proposes to renew a permit for the discharge to the sanitary sewer.

The proposed permit, if issued by the Commissioner, will require that all wastewater be treated to meet the applicable effluent limitations and periodic monitoring to demonstrate that the discharge will not cause pollution.

APPLICANT'S PROPOSAL

Ansonia Specialty Metals, LLC presently discharges a maximum flow of 50,000 gallons per day of pretreated copper forming wastewaters to the City of Waterbury Water Pollution Control Facility from a copper forming operation.

The name and mailing address of the permit applicant are: Ansonia Specialty Metals, LLC, 725 Bank Street, Waterbury, CT 06708.

The activity takes place at: 725 Bank Street, Waterbury, CT 06708.

REGULATORY CONDITIONS

Type of Treatment

DSN 001-1: Equalization, pH adjustment, flocculation, clarification, and filtration.

Effluent Limitations

This permit contains effluent limitations consistent with Pretreatment Standards for Existing Sources (PSES) and a Case by Case Determination using the criteria of Best Professional Judgment and which will protect the waters of the state from pollution when all the conditions of this permit have been met.

In accordance with section 22a-430-4(l) of the Regulations of Connecticut State Agencies the permit contains effluent limitations for the following types of toxic substances: heavy metals.

COMMISSIONER'S AUTHORITY

The Commissioner of Environmental Protection is authorized to approve or deny such permits pursuant to section 22a-430 of the Connecticut General Statutes and the Water Discharge Permit Regulations (section 22a-430-3 and 4 of the Regulations of Connecticut State Agencies).

INFORMATION REQUESTS

The application has been assigned the following numbers by the Department of Energy and Environmental Protection. Please use these numbers when corresponding with this office regarding this application.

APPLICATION NO. 201100440

PERMIT ID NO.SP0002215

Interested persons may obtain copies of the application from John Barto, Ansonia Specialty Metals, LLC, 725 Bank Street, Waterbury, CT 06708, (203) 755-6087.

The application is available for inspection by contacting Oluwatoyin Fakilede at 860-424-3018, at the Department of Energy and Environmental Protection, Bureau of Materials Management and Compliance Assurance, 79 Elm Street, Hartford, CT, 06106-5127 from 8:30 - 4:30, Monday through Friday.

Any interested person may request in writing that his or her name be put on a mailing list to receive notice of intent to issue any permit to discharge to the surface waters of the state. Such request may be for the entire state or any geographic area of the state and shall clearly state in writing the name and mailing address of the interested person and the area for which notices are requested.

PUBLIC COMMENT

Prior to making a final determination to approve or deny any application, the Commissioner shall consider written comments on the application from interested persons that are received within 30 days of this public notice. Written comments should be directed to Oluwatoyin Fakilede, Bureau of Materials Management and Compliance Assurance, Department of Energy and Environmental Protection, 79 Elm Street, Hartford, CT, 06106-5127. The Commissioner may hold a public hearing prior to approving or denying an application if in the Commissioner's discretion the public interest will be best served thereby, and shall hold a hearing upon receipt of a petition signed by at least twenty-five persons. Notice of any public hearing shall be published at least 30 days prior to the hearing.

Petitions for a hearing should include the application number noted above and also identify a contact person to receive notifications. Petitions may also identify a person who is authorized to engage in discussions regarding the application and, if resolution is reached, withdraw the petition. Original petitions must be *mailed or delivered* to: DEEP Office of Adjudications, 79 Elm Street, 3rd floor, Hartford, CT, 06106-5127. Petitions cannot be sent by fax or email. Additional information can be found at www.ct.gov/deep/adjudications.

The Department of Energy and Environmental Protection is an Affirmative Action/Equal Opportunity Employer. Persons with a disability who may need information in an alternative format should contact the ADA Coordinator at 860-424-3194 or at DEEP.HRmed@CT.Gov. Persons who are limited English proficient who may need information in another language should contact the Title VI Coordinator at (860) 424-3035 or at DEEP.aaoffice@ct.gov. Persons who are hearing impaired should call the State of Connecticut relay number 711. Discrimination complaints should be filed with the Title VI Coordinator.

Oswald Inglese, Jr.
Director
Water Permitting and Enforcement Division
Bureau of Materials Management and Compliance Assurance

Dated: 6/21/2013