

TECHNICAL SUPPORT DOCUMENT
For
DRAFT/PROPOSED AIR EMISSION PERMIT NO. 05300113-003
Part 70 Reissuance

This technical support document (TSD) is intended for all parties interested in the draft/proposed permit and to meet the requirements that have been set forth by the federal and state regulations (40 CFR § 70.7(a)(5) and Minn. R. 7007.0850, subp. 1). The purpose of this document is to provide the legal and factual justification for each applicable requirement or policy decision considered in the preliminary determination to issue the draft/proposed permit.

1. General Information

1.1 Applicant and Stationary Source Location:

Table 1. Applicant and Source Address

Applicant/Address	Stationary Source/Address (SIC Code: 3471)
Nico Products, Inc. 2929 First Ave South Minneapolis, MN 55408	Nico Products, Inc. 2929 First Ave South Minneapolis, MN 55408 Hennepin County
Contact: Jayne Lecy Phone: 612-355-4004	Contact: Jayne Lecy Phone: 612-355-4004

1.2 Facility Description

Nico Products, Inc., (Permittee) is a job shop metal finishing facility (Facility), with SIC Code 3471, which houses 19 separate metal plating and finishing lines consisting of large-capacity automated lines, hoist lines and hand operated lines. The Facility processes steel, stainless steel, zinc die cast, brass, copper, and aluminum/aluminum die cast parts. Plating is applied to the base metals for a variety of reasons, including appearance, wear, corrosion resistance, electrical resistance and overall protection of the part. The Facility also operates a solvent vapor degreasing unit, two boilers and natural gas burning air makeup units.

Metal finishing and plating is accomplished through both electrical and non-electrical processes. Parts are typically degreased, using either the vapor degreaser or liquid alkaline cleaners, acid etched to remove any metal oxides from the parts surface and then moved through the plating of the specific finish metal. A final protective or decorative emersion coating is typically applied following the plating. The metals that the Facility uses for plating are zinc, nickel, trivalent-chromium, copper, silver, gold, manganese and tin. Nonplated finishes include chromates (clear, yellow, olive drab and black), passivation and iridite. These finishes are used on a variety of parts for numerous industries which include tool/hardware, electronics, aerospace/aircraft, military, medical and decorative art fixtures.

The Facility currently has five high-capacity air scrubbing units for pollution control; however, the pollution control equipment is not needed in order to meet applicable requirements or to limit the

potential to emit and does not appear in the permit. Because the pollution control equipment is not listed in the permit, the Permittee cannot take credit for the control in their emission inventory. The Facility also has several operations that qualify as insignificant activities under Minnesota Rules. See Section 3.5 for more discussion of these units.

1.3 Description of any Changes Allowed with this Permit Issuance

There are no changes allowed by this permit.

1.4 Description of All Amendments Issued Since the Issuance of the Last Total Facility Permit

No amendments have been issued to the Part 70 permit. The Facility made many changes since the permit was issued, but has stated that all of them qualified as insignificant modifications.

1.5 Facility Emissions:

Table 2. Total Facility Potential to Emit Summary

	PM tpy	PM ₁₀ tpy	PM _{2.5} tpy	SO ₂ tpy	NO _x tpy	CO tpy	CO ₂ e tpy	VOC tpy	Trichloroethylene tpy	All HAPs tpy
Total Facility Limited Potential Emissions	3.25	3.25	3.25	0.0493	10.0	6.91	10789	16.0	15.5	18.3
Total Facility Actual Emissions (2010)**	3.85	3.85	3.85	0.02	10.19	0.95	*	40.16	*	

*Not reported in MN emission inventory.

** Some 2010 actual emissions are greater than the potential to emit. This is because several emission units that were used in the 2010 emission inventory are now considered to be insignificant activities and are not accounted for in PTE calculations. The VOC PTE is smaller than the actual emission primarily due to a new vapor degreaser being installed with a smaller PTE.

Table 3. Facility Classification

Classification	Major/Affected Source	Synthetic Minor/Area	Minor/Area
PSD			X
Part 70 Permit Program	X		
Part 63 NESHAP	X		

1.6 Changes to Permit

No significant changes have been made to the requirements in the permit. The following types of changes have been made:

- updates to reflect current MPCA templates and standard citation formatting;
- completed requirements and the requirements for equipment that has been removed have been deleted;
- some requirements have been reordered to help with clarity (i.e., similar requirements are grouped);
- several process tanks have been removed from the Facility;

- zinc flash line added to Facility;
- gold line added to Facility;
- Sanchem line added to Facility;
- several process tanks previously listed in permit have been listed as insignificant activities under Minn. R. 7007.1300, subp. 3(l);
- several process tanks have been added as insignificant modifications;
- GPs 001 through 009 deleted;
- process tanks not deemed insignificant placed in GP 010;
- air makeup units added as GP 011;
- several natural gas burning units added as insignificant activities;
- updated emission factors for PM, NO_x, SO₂, and CO for burning propane for boilers in accordance with up-to-date version of AP-42;
- several process tanks have been renumbered, including EU 020 renumbered as EU 179;
- EU 001 data has been updated based on new vapor degreaser that was installed in June 2012;
- with the installation of the new vapor degreaser, the Permittee chose to change compliance option for NESHAP T from Option #4 of Table 2 in 40 CFR pt. 63, subp. T to the idling emission limit option found in 40 CFR § 63.463(b)(2)(ii);
- requirements for Part 63, Subpart N NESHAP for EUs 012, 015 and 179 have been updated in accordance with amended rules;
- requirements for Part 63, Subpart T NESHAP for EU 001 have been updated in accordance with amended rules and change in compliance option; and
- requirements for Part 63, Subpart DDDDD NESHAP for EUs 112 and 113 have been added in accordance with amended rules.

2. Regulatory and/or Statutory Basis

New Source Review

The Facility is an existing true minor source for New Source Review.

Part 70 Permit Program

The facility is a major source under the Part 70 permit program due to potential HAP emissions.

New Source Performance Standards (NSPS)

The Permittee has stated that there are no New Source Performance Standards applicable to the operations at this facility.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

Certain emissions units at the Facility are subject to the following NESHAPs:

- EUs 012, 015 and 179 are subject to 40 CFR pt. 63, subp. N, "National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks" (Chrome Plating NESHAP)
- EU 001 is subject to 40 CFR pt. 63, subp. T, "National Emissions Standards for Halogenated Solvent Cleaning" (Degreaser NESHAP)

- EUs 112 and 113 are subject to 40 CFR pt. 63, subp. DDDDD, “National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters” (Boiler NESHAP)

Minnesota State Rules

Portions of the facility are subject to the following Minnesota Standards of Performance:

- Minn. R. 7011.0515 Standards of Performance for New Indirect Heating Equipment
- Minn. R. 7011.0715 Standards of Performance for Post-1969 Industrial Process Equipment

Table 4. Regulatory Overview of Facility

Level*	Applicable Regulations	Comments:
EU 001	40 CFR pt. 63, subp. T	Degreaser NESHAP: The permit includes requirements for compliance using an idling emission rate limit found in 40 CFR § 63.463(b)(2)(ii).
	Minn. R. 7011.0715	Standards of Performance for New Industrial Equipment: Unit is post July 9, 1969, and is therefore subject to these requirements.
EU 012 EU 015 EU 179	40 CFR pt. 63, subp. N	Chrome Plating NESHAP: The permit includes the requirements for trivalent chromium baths that use wetting agents as a bath ingredient.
EU 112 EU 113	40 CFR pt. 63, subp. DDDDD	Boiler NESHAP: The permit includes requirements for existing boilers that are designed to burn gas 1 fuels.
	Minn. R. 7011.0515	Standards of Performance for New Indirect Heating Equipment: Includes PM and opacity limits only. Determination of applicable limits from rule: <ul style="list-style-type: none"> • the units were constructed in 1996 and 2000; • the Facility is located within Minneapolis; • the unit capacities are less than 250 MMBtu/hr; and • the Facility has less than 250 MMBtu/hr of indirect heating equipment.
	Minn. R. 7005.0100, subp. 35a	Fuel limited to natural gas or propane.
GP 010	Minn. R. 7011.0715	Standards of Performance for New Industrial Equipment: All units are post July 9, 1969, and are therefore subject to these requirements.
GP 011	Minn. R. 7011.0515	Standards of Performance for New Indirect Heating Equipment: Includes PM and opacity limits only. Determination of applicable limits from rule: <ul style="list-style-type: none"> • the units were constructed in 1995; • the Facility is located within Minneapolis; • the unit capacities are less than 250 MMBtu/hr; and • the Facility has less than 250 MMBtu/hr of indirect heating equipment.
	Minn. R. 7005.0100, subp. 35a	Fuel limited to natural gas.

*Where the requirement appears in the permit (e.g., EU, SV, GP, etc.).

3. Technical Information

3.1 Calculations of Potential to Emit

Attachment 1 to this TSD contains a summary of the PTE of the Facility along with detailed spreadsheets and supporting information prepared by the MPCA and the Permittee. The basic calculation methods are the same as in previous permit actions with updates for new equipment and emission factors.

Vapor Degreaser

The emissions for the degreasers were calculated using the prescribed equation in 40 CFR § 63.465(e). A new degreaser with a smaller solvent to air interface that was installed in June of 2012 decreases the annual and hourly PTE of the unit.

Boilers

Emissions from both EUs 112 and 113 are based on the maximum capacity of the units, the fuels used (natural gas and propane), and EPA published emission factors in AP-42. The boilers' emissions have both increased and decreased since the last permit depending on pollutant. This is based on the use of an updated propane heating value and new emission factors for propane from AP-42. The heating value used changed from 90500 Btu/gal to 91500 Btu/gal. Emission factors for PM and CO have increased while the emission factors for SO₂ and NO_x have decreased.

Process Tanks

Emissions from most of the process tanks were calculated using the gassing rate method for open surface tanks. A percent loss of makeup is assigned for each reagent in a given process tank. This is multiplied by the concentration of the reagent and the amount of reagent used during the year to determine the actual emissions from each tank. Many tanks contain multiple reagents. For these tanks, the emissions from each reagent used in the tank are summed to determine the total emissions from the tank.

For process tanks where nickel electroplating occurs, emissions are calculated using emission factors instead of gassing rates. As found in AP-42, the emission rate for electroplating nickel is 0.63 gr/A-hr. (This rate can be converted to gr/dscf by multiplying by 0.01 A-hr/dscf.) Actual emissions are calculated by multiplying the emission factor by the air flow from the exhaust stack that applies to the tank and the actual hours operated during the year. See Attachment 1 for emission factor calculations.

The PTE for all process tanks is found by scaling up actual emissions by a safety factor of 1.3 and a factor based on the hours the Facility is operating. The Facility operates 5.5 days every week so a scale up factor of $(7 \text{ days per week}) / (5.5 \text{ working days per week}) = 1.27$ is used. Both methods of PTE calculation are based on guidance from the MPCA's Small Business Environmental Assistance Program.

Most of the process tanks at the Facility are now considered insignificant activities and, therefore, their emissions are not included in the emission inventory. This has caused a general decrease in PTE from the previous permit. But, because of the inclusion of new tanks as insignificant modifications, the PTE for some pollutants has increased.

Natural Gas Combustion Units

All combustion source emissions are based on the maximum capacity of the units, the fuels used (natural gas only), and EPA published emission factors in AP-42.

3.2 Compliance Assurance Monitoring (CAM)

The degreaser has control equipment that is used to meet the NESHAP T standards and the potential emissions from the unit are greater than the major source level (i.e., 10 tpy of individual HAP); however, CAM does not apply to NESHAPs promulgated after November 15, 1990, so CAM does not apply to the degreaser for the NESHAP.

For the units that are controlled by the scrubbers, the pollution control equipment is not used to comply with a limit; therefore, the units are not subject to CAM.

3.3 Periodic Monitoring

In accordance with the Clean Air Act, it is the responsibility of the owner or operator of a facility to have sufficient knowledge of the facility to certify that the facility is in compliance with all applicable requirements.

In evaluating the monitoring included in the permit, the MPCA considered the following:

- The likelihood of the facility violating the applicable requirements;
- Whether add-on controls are necessary to meet the emission limits;
- The variability of emissions over time;
- The type of monitoring, process, maintenance, or control equipment data already available for the emission unit;
- The technical and economic feasibility of possible periodic monitoring methods; and
- The kind of monitoring found on similar units elsewhere.

Table 4 summarizes the periodic monitoring requirements for those emission units for which the monitoring required by the applicable requirement is nonexistent.

Table 5. Periodic Monitoring

Level*	Requirement (basis)	Additional Monitoring	Discussion
EU 001	Trichloroethylene < 31085 lb/yr	None	40 CFR pt. 63 subp. T contains adequate monitoring requirements.
	(40 CFR pt. 63, subp. T)		
	PM: varies with airflow Opacity ≤ 20% (Minn. R. 7011.0715)		
EU 112 EU 113	PM < 0.4 lb/MMBtu Opacity ≤ 20 %, with exceptions	Fuel purchase records	Both units use natural gas and propane; therefore, the likelihood of violating

Level*	Requirement (basis)	Additional Monitoring	Discussion
	(Minn. R. 7011.0515)		either of the emission limits is very small. The Permittee can demonstrate that these units will continue to operate such that emissions are well below the emission limits by only burning natural gas or propane. Design based PM PTE for each unit, using AP-42, is 0.0077 lb/MMBtu compared to the rule limit of 0.4 lb/MMBtu.
GP 010	PM: varies with airflow Opacity \leq 20% (Minn. R. 7011.0715)	None	The uncontrolled potential to emit from these units is less than 5% of the allowable rate. No monitoring is necessary.
GP 011	PM < 0.4 lb/MMBtu Opacity \leq 20 %, with exceptions (Minn. R. 7011.0515)	None	All units use natural gas; therefore, the likelihood of violating either of the emission limits is very small. The Permittee can demonstrate that these units will continue to operate such that emissions are well below the emission limits by only burning natural gas. Design based PM PTE for each unit, using AP-42, is 0.0075 lb/MMBtu compared to the rule limit of 0.4 lb/MMBtu.

*Where the requirement appears in the permit (e.g., EU, SV, GP, etc.).

3.4 Insignificant Activities

The Facility has several operations which are classified as insignificant activities under the MPCA's permitting rules. These are listed in Appendix I to the permit. The permit is required to include periodic monitoring for all emissions units, including insignificant activities, per EPA guidance. The insignificant activities at the Facility are only subject to general applicable requirements. Using the criteria outlined earlier in this TSD, the following table documents the justification why no additional periodic monitoring is necessary for the current insignificant activities.

Table 6. Insignificant Activities

Insignificant Activity	General Applicable Emission limit	Discussion
Emissions from a laboratory, as defined in Minn. R. 7007.1300, subp. 3(G)	PM, variable depending on airflow Opacity \leq 20% (Minn. R. 7011.0715)	These are very small, intermittent, bench-top operations that typically do not even have any emissions. It is highly unlikely that they could violate the applicable requirement.
Brazing, soldering or	PM, variable depending	For these units, based on EPA published

Insignificant Activity	General Applicable Emission limit	Discussion
welding equipment	on airflow Opacity \leq 20% (Minn. R. 7011.0715)	emissions factors, it is highly unlikely that they could violate the applicable requirement. In addition, these units are typically operated and vented inside a building, so testing for PM or opacity is not feasible.
Cleaning operations: alkaline/phosphate cleaners and associated cleaners and burners	PM, variable depending on airflow Opacity \leq 20% (Minn. R. 7011.0610 & Minn. R. 7011.0715)	For these units, there are some factors available for the burners, but very little information regarding the cleaning operation itself. However, based on general knowledge of how they operate, it is highly unlikely that they could violate the applicable requirement or that testing would be feasible.
Individual units with potential emissions less than 2000 lb/year of certain pollutants	PM \leq 0.4 lb/MMBtu Opacity \leq 20% (with exceptions) (Minn. R. 7011.0515)	There are five room heaters and six roof top units that burn only natural gas. For these units, based on the fuel used and EPA published emissions factors, it is highly unlikely that they could violate the applicable requirements.
	PM, variable depending on airflow Opacity \leq 20% (with exceptions) (Minn. R. 7011.0715)	There are several process tanks that meet the requirements as insignificant activities. These units emit very little PM so it is very unlikely that these units would violate the applicable requirements.
Equipment venting PM/PM ₁₀ inside a building, provided that emissions from the equipment are: a). filtered through an air cleaning system; and b). vented inside of the building 100% of the time	PM, variable depending on airflow Opacity \leq 20% (Minn. R. 7011.0715)	For these units, it is highly unlikely that they could violate the applicable requirement. In addition, these units are vented inside a building, so testing for PM or opacity is not feasible.

3.5 Permit Organization

In general, the permit meets the MPCA Delta Guidance for ordering and grouping of requirements. This permit utilizes groups as a way to cluster units with common requirements. GP 010 consists of permitted process tanks and GP 011 consists of four air make-up units.

Although EUs 012, 015 and 179 meet the qualifications of an insignificant activity found in Minn. R. 7007.1300, subp. 3(l), those three units are listed in the permit. This is because these units are subject to the requirements of 40 CFR pt. 63, subp. N (Chrome Plating NESHAP).

One area where this permit deviates slightly from Delta guidance is in the use of appendices. While appendices are fully enforceable parts of the permit, in general, any requirement that the MPCA thinks should be electronically tracked (e.g., limits, submittals, etc.), should be in Table A or B of the permit. The main reason is that the appendices are word processing sections and are not part of the electronic tracking system. Violation of the appendices can be enforced, but the computer system will not automatically generate the necessary enforcement notices or documents. Staff must generate these.

3.6 Comments Received

This Section will be completed after the referenced review periods.

Public Notice Period: <start date> - <end date>

EPA 45-day Review Period: <start date> - <end date>

4. Permit Fee Assessment

This permit action is the reissuance of an individual Part 70; therefore, no application fees apply under Minn. R. 7002.0016, subp. 1. to the changes that are covered by the reissuance application.

5. Conclusion

Based on the information provided by Nico Products, Inc., the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 05300113-003 and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff Members on Permit Team: Benjamin Wenkel (permit writer/engineer)
Brent Rohne (enforcement)
Marc Severin (stack testing)
Peggy Bartz (peer reviewer)

AQ File No. 3172; DQ 4074

Attachments: 1. PTE Summary and Calculation Spreadsheets
2. Facility Description
3. CD-01 Compliance Plan

Attachment #1

PTE Summary & Calculation Spreadsheets

Facility PTE Summary

	EU 001		EU 112		EU 113		GP 010		GP 011		IAs		Facility w/o IAs		Facility w/IAs	
	[tpy]	[lb/hr]	[tpy]	[lb/hr]	[tpy]	[lb/hr]	[tpy]	[lb/hr]	[tpy]	[lb/hr]	[tpy]	[lb/hr]	[tpy]	[lb/hr]	[tpy]	[lb/hr]
NO _x	0	0	3.12	0.713	2.61	0.595	0	0	4.27	0.975	2.18	0.498	10.0	2.28	12.2	2.78
SO ₂	0	0	0.0129	0.00295	0.0108	0.00246	0	0	0.0256	0.00585	0.0909	0.0208	0.0493	0.0113	0.140	0.0320
VOC	15.5	7.10	0.1202	0.0274	0.100	0.0229	0	0	0.235	0.0536	0.0567	0.0129	16.0	7.21	16.1	7.22
CO	0	0	1.81	0.413	1.51	0.345	0	0	3.59	0.819	0.488	0.111	6.91	1.58	7.40	1.69
PM/PM ₁₀ /PM _{2.5}	0	0	0.168	0.0384	0.140	0.0321	2.61	0.596	0.324	0.0741	9.89	2.26	3.25	0.741	13.1	3.00
CH ₄	0	0	0.0496	0.0113	0.0414	0.00945	0	0	0.0982	0.0224	0.0237	0.00541	0.189	0.0432	0.213	0.0486
N ₂ S	0	0	0.216	0.0494	0.181	0.0412	0	0	0.0939	0.0214	0.0227	0.00518	0.491	0.112	0.513	0.117
CO ₂	0	0	3004	686	2507	572	0	0	5122	1169	1237	282	10633	2428	11870	2710
CO ₂ e	0	0	3072	701	2564	585	0	0	5153	1177	1244	284	10789	2463	12033	2747
Arsenic	0	0	0.00000431	0.000000984	0.00000360	0.000000822	0	0	0.00000854	0.00000195	0.00000206	0.000000471	0.0000164	0.00000375	0.0000185	0.00000423
Beryllium	0	0	0.000000259	0.0000000591	0.000000216	0.0000000493	0	0	0.000000512	0.000000117	0.000000124	0.0000000282	0.000000987	0.000000225	0.00000111	0.000000254
Cadmium	0	0	0.00000237	0.000000541	0.00000198	0.000000452	0	0	0.00000470	0.00000107	0.00000113	0.000000259	0.00000905	0.00000207	0.000102	0.00000232
Cobalt	0	0	0.00000181	0.000000413	0.00000151	0.000000345	0	0	0.00000359	0.000000819	0.000000866	0.000000198	0.00000691	0.00000158	0.00000777	0.00000177
Chromium	0	0	0.0000302	0.00000689	0.0000252	0.00000575	0	0	0.0000598	0.0000136	0.0867	0.0198	0.000115	0.0000263	0.0868	0.0198
Mercury	0	0	0.00000560	0.00000128	0.00000468	0.000000468	0	0	0.0000111	0.00000253	0.00000268	0.000000612	0.0000214	0.00000849	0.0000241	0.00000910
Manganese	0	0	0.00000819	0.00000187	0.00000684	0.00000156	0	0	0.0000162	0.00000370	0.0763	0.0174	0.0000312	0.00000713	0.0763	0.0174
Nickel	0	0	0.0000453	0.0000103	0.0000378	0.00000863	0	0	0.0000896	0.0000205	0.280	0.0640	0.000173	0.0000394	0.281	0.0641
Lead	0	0	0.0000108	0.00000246	0.00000900	0.00000205	0	0	0.0000213	0.00000487	0.000119	0.0000272	0.0000411	0.00000939	0.000160	0.0000366
Selenium	0	0	0.000000517	0.000000118	0.000000432	0.0000000986	0	0	0.00000102	0.000000234	0.000000247	0.0000000565	0.00000197	0.000000451	0.00000222	0.000000507
Benzene	0	0	0.00000453	0.0000103	0.00000378	0.000000863	0	0	0.0000896	0.0000205	0.0000216	0.00000494	0.000173	0.0000394	0.000194	0.0000444
Cyanide	0	0	0	0	0	0	0	0	0	0	0.357	0.0815	0	0	0.357	0.0815
Formaldehyde	0	0	0.00162	0.000369	0.00135	0.000308	0	0	0.00320	0.000731	0.000773	0.000176	0.00617	0.00141	0.00694	0.00158
HCl	0	0	0	0	0	0	2.60	0.595	0	0	5.51	1.26	2.60	0.595	8.11	1.85
Hexane	0	0	0.0388	0.00886	0.0324	0.00739	0	0	0.0768	0.0175	0.0186	0.00424	0.148	0.0338	0.167	0.0380
Naphthalene	0	0	0.0000131	0.00000300	0.0000110	0.00000251	0	0	0.0000260	0.00000594	0.00000629	0.00000144	0.0000502	0.0000115	0.0000564	0.0000129
POM	0	0	0.00000186	0.000000425	0.00000155	0.000000355	0	0	0.00000368	0.000000841	0.000000889	0.000000203	0.00000710	0.00000162	0.00000799	0.00000182
Toluene	0	0	0.0000733	0.0000167	0.0000612	0.0000140	0	0	0.000145	0.0000331	0.0000350	0.00000800	0.000280	0.0000638	0.000315	0.0000718
Trichloroethylene	15.5	7.10	0	0	0	0	0	0	0	0	0	0	15.5	7.10	15.5	7.10
Total HAPs	15.5	7.10	0.0407	0.00929	0.0340	0.00776	2.60	0.595	0.0806	0.0184	6.33	1.44	18.3	7.73	24.6	9.18

GP 010 Unit

Process Tank #	Emission Unit	Stack/Vent SV#	Controlled 1=Yes 0=No	Process	Primary Components	Pollutant Type	Poll Type 1	Poll Type 2	Poll Type 3	RY 2011 Make Up (gallons) ¹	RY 2011 Make Up (pounds) ¹	% Conc. of Reagent	Density (lb/gal)	% Loss Of Makeup
Q-2	001	001	0	Vapor Degreaser	TRICHLOROETHYLENE	VOC	VOC			0	15928	1.00	12.00	1
A-6	IA	002	1	ZINC #1 AUTO HCL ACID	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		11410		0.24	9.25	0.03
A-7	IA	002	1	ZINC #1 AUTO HCL ACID	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		4414		0.24	9.25	0.03
B-7	IA	002	1	ZINC #2 AUTO HCL ACID	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		1540		0.24	9.25	0.03
B-8	IA	002	1	ZINC #2 AUTO HCL ACID	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		11150		0.24	9.25	0.03
B-12	IA	002	1	ZINC #2 ALKALINE ZINC PLATE	SODIUM HYDROXIDE	PM10	PM10			660		0.50	11.08	0.02
B-12	IA	002	1	ZINC #2 ALKALINE ZINC PLATE	Protolux 3200 Maintenance*	PM10	PM10			336		1.00	8.55	0.02
B-21	IA	002	1	ZINC #2 ALKALINE ZINC REGEN	SODIUM HYDROXIDE	PM10	PM10			795		0.50	11.08	0.02
E-6	IA	002	1	NICKEL #1 HCL ACID	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10			0	0.24	9.25	0.03
E-10	IA	008	0	NICKEL #1 CYANIDE COPPER (STRIKE)	COPPER CYANIDE	CN, PM10	CN	PM10		160		0.05	11.00	0.05
E-10	IA	008	0	NICKEL #1 CYANIDE COPPER (STRIKE)	POTASSIUM CYANIDE	CN, PM10	CN	PM10			0	1.00	DNN	0.05
E-11	IA	008	0	NICKEL #1 CYANIDE COPPER (PLATE)	COPPER CYANIDE	CN, PM10	CN	PM10		125		1.00	12.61	0.05
E-11	IA	008	0	NICKEL #1 CYANIDE COPPER (PLATE)	POTASSIUM HYDROXIDE	PM10	PM10				262	1.00	DNN	0.05
E-11	IA	008	0	NICKEL #1 CYANIDE COPPER (PLATE)	POTASSIUM CYANIDE	CN, PM10	CN	PM10			247	1.00	DNN	0.02
E-23	012	002	1	NICKEL #1 TRI-CHROME PLATE	TC ADDITIVE	Cr, PM10	Cr	PM10		0	1664	0.24	9.75	0.02
F-9	IA	002	1	NICKEL #2 HCL ACID	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		1548		0.24	9.25	0.03
F-25	015	002	1	NICKEL #2 TRI-CHROME PLATE	TC ADDITIVE	Cr, PM10	Cr	PM10		0	300	0.24	9.75	0.02
H-7	IA	003	1	ZINC HANDLINE HCL ACID	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		1290		0.37	10.02	0.03
H-8	IA	003	1	ZINC HANDLINE HCL ACID	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		1548		0.37	10.02	0.03
H-13	IA	003	1	ZINC HANLINE ALKALINE ZINC PLATE (424)	SODIUM HYDROXIDE	PM10	PM10			441.8		0.50	11.08	0
H-13	IA	003	1	ZINC HANLINE ALKALINE ZINC PLATE (424)	Protolux 3200 Maintenance*	PM10	PM10			74		1.00	8.55	0.02
H-20	IA	003	1	ZINC HANDLINE BLACK CHROMATE	CHROMATER 50	Cr, PM10	Cr VI	PM10		29		0.30	9.75	0
H-20	IA	003	1	ZINC HANDLINE BLACK CHROMATE	HAVABLACK 50	Cr, PM10	Cr VI	PM10		102		0.01	11.41	0
H-20	IA	003	1	ZINC HANDLINE BLACK CHROMATE	HAVABLACK 140	PM10	PM10			0		0.01	8.41	0
H-20	IA	003	1	ZINC HANDLINE BLACK CHROMATE	SULFURIC ACID	SOx, PM10	SOx	PM10		0		1.00	11.66	0
I-6	IA	003	1	TIN HANDLINE HCL ACID (STEEL ONLY)	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		838		0.37	10.02	0.03
I-5	IA	003	1	TIN HANDLINE HCl ACID (COPPER ONLY)	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		512		0.37	10.02	0.03
I-10	IA	003	1	TIN HANDLINE STRIP	FORSTRIP TLC	NOx, PM10	NOx	PM10		328		0.25	11.41	0.05
J-1	IA	007	0	PASSIVATE PERMANGANATE	POTASSIUM PERMANGANATE	PM10	PM10				264	1.00	22.53	0.05
J-1	IA	007	0	PASSIVATE PERMANGANATE	SODIUM HYDROXIDE	PM10	PM10			173		0.50	11.08	0.05
J-13	IA	003	1	PASSIVATE DICHROMATE TYPE IV	NITRIC ACID	NOx, PM10	NOx	PM10			105	0.67	12.50	0.05
J-13	IA	003	1	PASSIVATE DICHROMATE TYPE IV	SODIUM DICHROMATE	PM10	PM10				110	1.00	DNN	0.05
J-16	IA	003	1	PASSIVATE CAUSTIC	SODIUM HYDROXIDE	PM10	PM10			35		0.50	11.08	0.05
H-27	IA	007	0	MISC. HANDLINE ZINC REGEN	SODIUM HYDROXIDE	PM10	PM10			317.2		0.50	11.08	0.03
O-7	IA	011	0	STRIPS CHROMIC ACID	CHROMIC ACID FLAKES	Cr, PM10	Cr VI	PM10			696	1.00	DNN	0.05
O-7	IA	011	0	STRIPS CHROMIC ACID	SULFURIC ACID	SOx, PM10	SOx	PM10		20		0.03	11.66	0.05
K-6	043	005	1	ZINC #3 AUTO HCL ACID	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		22736		0.24	9.25	0.03
K-10	IA	005	1	ZINC #3 AUTO ALKALINE ZINC PLATE (424)	SODIUM HYDROXIDE	PM10	PM10			550		0.50	11.08	0.02
K-10	IA	005	1	ZINC #3 AUTO ALKALINE ZINC PLATE (424)	Protolux 3200 Maintenance*	PM10	PM10			195		1.00	8.55	0.02
K-11	IA	005	1	ZINC #3 AUTO ALKALINE ZINC PLATE (424)	SODIUM HYDROXIDE	PM10	PM10			550		0.50	11.08	0.05
K-11	IA	005	1	ZINC #3 AUTO ALKALINE ZINC PLATE (424)	Protolux 3200 Maintenance*	PM10	PM10			195		1.00	8.55	0.02

Process Tank	Actual Uncontrolled Emissions tons ¹	Actual Emissions NO _x	Actual Emissions SO ₂	Actual Emissions VOC	Actual Emissions PM/PM ₁₀ /PM _{2.5}	Actual Emissions Cr	Actual Emissions HCl	Actual Emissions CN Compounds	Ni Actual Emissions Compounds	Actual Emissions Pb Compounds	Actual Emissions Mn Compounds
Q-2	7.96	0	0	7.96	0	0	0	0	0	0	0
A-6	0.380	0	0	0	0.380	0	0.380	0	0	0	0
A-7	0.147	0	0	0	0.147	0	0.147	0	0	0	0
B-7	0.0513	0	0	0	0.0513	0	0.0513	0	0	0	0
B-8	0.371	0	0	0	0.371	0	0.371	0	0	0	0
B-12	0.0366	0	0	0	0.0366	0	0	0	0	0	0
B-12	0.0287	0	0	0	0.0287	0	0	0	0	0	0
B-21	0.0440	0	0	0	0.0440	0	0	0	0	0	0
E-6	0	0	0	0	0	0	0	0	0	0	0
E-10	0.00220	0	0	0	0.00220	0	0	0.00220	0	0	0
E-10	0	0	0	0	0	0	0	0	0	0	0
E-11	0.0394	0	0	0	0.0394	0	0	0.0394	0	0	0
E-11	0.00655	0	0	0	0.00655	0	0	0	0	0	0
E-11	0.00247	0	0	0	0.00247	0	0	0.00247	0	0	0
E-23	0.00399	0	0	0	0.00399	0 - See Footnote 2	0	0	0	0	0
F-9	0.0515	0	0	0	0.0515	0	0.0515	0	0	0	0
F-25	0.000720	0	0	0	0.000720	0 - See Footnote 2	0	0	0	0	0
H-7	0.0717	0	0	0	0.0717	0	0.0717	0	0	0	0
H-8	0.0861	0	0	0	0.0861	0	0.0861	0	0	0	0
H-13	0	0	0	0	0	0	0	0	0	0	0
H-13	0.00633	0	0	0	0.00633	0	0	0	0	0	0
H-20	0	0	0	0	0	0	0	0	0	0	0
H-20	0	0	0	0	0	0	0	0	0	0	0
H-20	0	0	0	0	0	0	0	0	0	0	0
H-20	0	0	0	0	0	0	0	0	0	0	0
I-6	0.0466	0	0	0	0.0466	0	0.0466	0	0	0	0
I-5	0.0285	0	0	0	0.0285	0	0.0285	0	0	0	0
I-10	0.0234	0.0234	0	0	0.0234	0	0	0	0	0	0
J-1	0.00660	0	0	0	0.00660	0	0	0	0	0	0
J-1	0.0240	0	0	0	0.0240	0	0	0	0	0	0
J-13	0.00176	0.00176	0	0	0.00176	0	0	0	0	0	0
J-13	0.00275	0	0	0	0.00275	0	0	0	0	0	0
J-16	0.00485	0	0	0	0.00485	0	0	0	0	0	0
H-27	0.0264	0	0	0	0.0264	0	0	0	0	0	0
O-7	0.0174	0	0	0	0.0174	0.0174	0	0	0	0	0
O-7	0.000175	0	0.000175	0	0.000175	0	0	0	0	0	0
K-6	0.7574	0	0	0	0.7574	0	0.757	0	0	0	0
K-10	0.0305	0	0	0	0.0305	0	0	0	0	0	0
K-10	0.0167	0	0	0	0.0167	0	0	0	0	0	0
K-11	0.0762	0	0	0	0.0762	0	0	0	0	0	0
K-11	0.0167	0	0	0	0.0167	0	0	0	0	0	0

PTE Factor

actual operating days = 5.5

safety factor = 1.3

actual factor then = $1.3 * (7/5.5) = 1.65$

Process Tank	NO _x PTE Tons/Yr	NO _x PTE Lbs/Hr	SO ₂ PTE Tons/Yr	SO ₂ PTE Lbs/Hr	VOC PTE Tons/Yr	VOC PTE Lbs/Hr	PM/PM ₁₀ /PM _{2.5} PTE Tons/Yr	PM/PM ₁₀ /PM _{2.5} PTE Lbs/Hr	Cr PTE Tons/Yr	Cr PTE Lbs/Hr	HCl PTE Tons/Yr	HCl PTE Lbs/Hr	CN PTE Tons/Yr	CN PTE Lbs/Hr	Ni PTE Tons/Yr	Ni PTE Lbs/Hr	Pb PTE Tons/Yr	Pb PTE Lbs/Hr	Mn PTE Tons/Yr	Mn PTE Lbs/Hr
Q-2	0	0	0	0	31.1	7.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A-6	0	0	0	0	0	0	0.629	0.144	0	0	0.629	0.144	0	0	0	0	0	0	0	0
A-7	0	0	0	0	0	0	0.243	0.0555	0	0	0.243	0.0555	0	0	0	0	0	0	0	0
B-7	0	0	0	0	0	0	0.0848	0.0194	0	0	0.0848	0.0194	0	0	0	0	0	0	0	0
B-8	0	0	0	0	0	0	0.614	0.140	0	0	0.614	0.140	0	0	0	0	0	0	0	0
B-12	0	0	0	0	0	0	0.0605	0.0138	0	0	0	0	0	0	0	0	0	0	0	0
B-12	0	0	0	0	0	0	0.0475	0.0109	0	0	0	0	0	0	0	0	0	0	0	0
B-21	0	0	0	0	0	0	0.0729	0.0166	0	0	0	0	0	0	0	0	0	0	0	0
E-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E-10	0	0	0	0	0	0	0.00364	0.000831	0	0	0	0	0.00364	0.000831	0	0	0	0	0	0
E-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E-11	0	0	0	0	0	0	0.0652	0.0149	0	0	0	0	0.0652	0.0149	0	0	0	0	0	0
E-11	0	0	0	0	0	0	0.0108	0.00247	0	0	0	0	0	0	0	0	0	0	0	0
E-11	0	0	0	0	0	0	0.00409	0.000933	0	0	0	0	0.00409	0.000933	0	0	0	0	0	0
E-23	0	0	0	0	0	0	0.00661	0.00151	0	0	0	0	0	0	0	0	0	0	0	0
F-9	0	0	0	0	0	0	0.0853	0.0195	0	0	0.0853	0.0195	0	0	0	0	0	0	0	0
F-25	0	0	0	0	0	0	0.00119	0.000272	0	0	0	0	0	0	0	0	0	0	0	0
H-7	0	0	0	0	0	0	0.119	0.0271	0	0	0.119	0.0271	0	0	0	0	0	0	0	0
H-8	0	0	0	0	0	0	0.142	0.0325	0	0	0.142	0.0325	0	0	0	0	0	0	0	0
H-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
H-13	0	0	0	0	0	0	0.0105	0.00239	0	0	0	0	0	0	0	0	0	0	0	0
H-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
H-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
H-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
H-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I-6	0	0	0	0	0	0	0.0771	0.0176	0	0	0.0771	0.0176	0	0	0	0	0	0	0	0
I-5	0	0	0	0	0	0	0.0471	0.0108	0	0	0.0471	0.0108	0	0	0	0	0	0	0	0
I-10	0.0387	0.00884	0	0	0	0	0.0387	0.00884	0	0	0	0	0	0	0	0	0	0	0	0
J-1	0	0	0	0	0	0	0.0109	0.00249	0	0	0	0	0	0	0	0	0	0	0	0
J-1	0	0	0	0	0	0	0.0396	0.00905	0	0	0	0	0	0	0	0	0	0	0	0
J-13	0.00291	0.000664	0	0	0	0	0.00291	0.000664	0	0	0	0	0	0	0	0	0	0	0	0
J-13	0	0	0	0	0	0	0.00455	0.00104	0	0	0	0	0	0	0	0	0	0	0	0
J-16	0	0	0	0	0	0	0.00802	0.00183	0	0	0	0	0	0	0	0	0	0	0	0
H-27	0	0	0	0	0	0	0.0436	0.00996	0	0	0	0	0	0	0	0	0	0	0	0
O-7	0	0	0	0	0	0	0.0288	0.00657	0.0288	0.00657	0	0	0	0	0	0	0	0	0	0
O-7	0	0	0.000289	0.0000661	0	0	0.000289	0.0000661	0	0	0	0	0	0	0	0	0	0	0	0
K-6	0	0	0	0	0	0	1.25	0.286	0	0	1.25	0.286	0	0	0	0	0	0	0	0
K-10	0	0	0	0	0	0	0.0504	0.0115	0	0	0	0	0	0	0	0	0	0	0	0
K-10	0	0	0	0	0	0	0.0276	0.00630	0	0	0	0	0	0	0	0	0	0	0	0
K-11	0	0	0	0	0	0	0.126	0.0288	0	0	0	0	0	0	0	0	0	0	0	0
K-11	0	0	0	0	0	0	0.0276	0.00630	0	0	0	0	0	0	0	0	0	0	0	0

Process Tank #	Emission Unit	Stack/Vent SV#	Controlled 1=Yes 0=No	Process	Primary Components	Pollutant Type	Poll Type 1	Poll Type 2	Poll Type 3	RY 2011 Make Up (gallons) ¹	RY 2011 Make Up (pounds) ¹	% Conc. of Reagent	Density (lb/gal)	% Loss Of Makeup
K-22	IA	005	1	ZINC #3 AUTO ALKALINE ZINC REGEN	SODIUM HYDROXIDE	PM10	PM10			978.4		0.50	11.08	0.05
K-24	IA	005	1	ZINC #3 AUTO HCL ACID REGEN	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		27		0.37	10.02	0.03
S-0a	IA	004	1	ZINC #4 CARRIER STRIP	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		0		0.24	10.02	0.05
S-2	IA	004	1	ZINC #4 ZINC STRIP	SODIUM HYDROXIDE	PM10	PM10				0	0.50	11.08	0.05
S-7	IA	004	1	ZINC #4 HCl ACID #1	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		3207		0.24	9.25	0.03
S-13	IA	004	1	ZINC #4 HCl ACID #2	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		15214		0.24	9.25	0.03
S-33	IA	004	1	ZINC #4 REGENERATION	SODIUM HYDROXIDE	PM10	PM10			16		0.50	11.08	0.05
S-36	IA	004	1	ZINC #4 REGEN ACID	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		10		0.24	9.25	0.05
S-18	IA	004	1	ZINC #4 ALKALINE ZINC PLATE	SODIUM HYDROXIDE	PM10	PM10			978		0.50	11.08	0.02
S-18	IA	004	1	ZINC #4 ALKALINE ZINC PLATE	Protolux 3200 Maintenance*	PM10	PM10			338		1.00	8.55	0.02
S-19	IA	004	1	ZINC #4 ALKALINE ZINC PLATE	SODIUM HYDROXIDE	PM10	PM10			978		0.50	11.08	0.02
S-19	IA	004	1	ZINC #4 ALKALINE ZINC PLATE	Protolux 3200 Maintenance*	PM10	PM10			338		1.00	8.55	0.02
S-20	IA	004	1	ZINC #4 ALKALINE ZINC PLATE	SODIUM HYDROXIDE	PM10	PM10			978		0.50	11.08	0.02
S-20	IA	004	1	ZINC #4 ALKALINE ZINC PLATE	Protolux 3200 Maintenance*	PM10	PM10			338		1.00	8.55	0.02
S-24	IA	004	1	ZINC #4 CLEAR CHROMATE	Hyprotec	Cr, PM10	Cr	PM10		196		0.01	9.75	0.02
S-27	IA	004	1	ZINC #4 YELLOW CHROMATE	Hyprotec	Cr, PM10	Cr VI	PM10		84		0.30	9.75	0.02
H-18	IA	007	0	ZINC HANDLINE CLEAR CHROMATE	Hyprotec	Cr, PM10	Cr	PM10		72		0.30	9.75	0.02
H-19	IA	007	0	ZINC HANDLINE YELLOW CHROMATE	UNICHROME 95-A	Cr, PM10	Cr VI	PM10		5		0.30	9.75	0.02
I-12	IA	007	0	TIN HANDLINE IRIDITE	IRRIDITE 14-2	Cr, PM10	Cr VI	PM10		0		0.55	11.55	0.03
I-15	IA	007	0	TIN HANDLINE ACID TIN PLATE - TIN #2	STANNOUS SULFATE	SOx, PM10	SOx	PM10			90	1.00	11.55	0.02
I-17	IA	007	0	TIN HANDLINE ACID TIN PLATE - TIN #1	SULFURIC ACID	SOx, PM10	SOx	PM10		242		0.96	11.55	0.02
J-12	IA	007	0	PASSIVATE 50% NITRIC ACID	NITRIC ACID	NOx, PM10	NOx	PM10		234.2		0.67	12.50	0.05
J-22	IA	007	0	PASSIVATE OAKITE	OAKITE 31	PM10	PM10			6		1.00	11.34	0.03
H-32	IA	007	0	ZINC HANDLINE HCl	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		1148		0.37	10.02	0.03
D-13	IA	007	0	PHOSPHATE - MANGANESE PHOSPHATE	MANAGANESE PHOSPHATE	NOx, PM10, Mn	NOx	PM10	Mn	650		0.25	11.35	0.05
O-1/O-5	IA	011	0	STRIPS NITRIC ACID - EAST/WEST	NITRIC ACID	NOx, PM10	NOx	PM10		52		0.67	12.50	0.05
O-1/O-5	IA	011	0	STRIPS NITRIC ACID - EAST/WEST	NITRIC ACID	NOx, PM10	NOx	PM10		330		0.67	12.50	0.05
T-14	IA	007	0	NICKEL CYANIDE COPPER #6	COPPER CYANIDE	CN, PM10	CN	PM10		250		1.00	12.61	0.02
T-14	IA	007	0	NICKEL CYANIDE COPPER #6	POTASSIUM CYANIDE	CN, PM10	CN	PM10			392	1.00	DNN	0.02
T-14	IA	007	0	NICKEL CYANIDE COPPER #6	POTASSIUM HYDROXIDE	PM10	PM10				462	1.00	DNN	0.02
E-5	IA	008	0	NICKEL #1 WOODS STRIKE	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		17		0.37	10.02	0.03
E-5	IA	008	0	NICKEL #1 WOODS STRIKE	NICKEL CHLORIDE	Ni, PM10	Ni	PM10			570	1.00	DNN	Emission Factor
E-19	IA	008	0	NICKEL #1 NICKEL PLATE	NICKEL SALTS	Ni, PM10	Ni	PM10				1.00	DNN	Emission Factor
F-18	IA	008	0	NICKEL #2 CYANIDE COPPER (STRIKE)	COPPER CYANIDE	CN, PM10	CN	PM10		0		1.00	12.91	0.05
F-18	IA	008	0	NICKEL #2 CYANIDE COPPER (STRIKE)	POTASSIUM CYANIDE	CN, PM10	CN	PM10			242	1.00	DNN	0.05
F-19	IA	008	0	NICKEL #2 SEMI-BRIGHT NICKEL PLATE	NICKEL SALTS	Ni, PM10	Ni	PM10						Emission Factor
A-16	IA	009	0	ZINC #1 AUTO BLACK CHROMATE RoHS	TRIPASS ELV 5200 - AN	SOx, Cr, PM10	SOx	Cr	PM10	494		0.18	10.85	0.02
A-16	IA	009	0	ZINC #1 AUTO BLACK CHROMATE RoHS	TRIPASS ELV 5200 - B	NOx	NOx			414		0.03	8.71	0.02
A-15	IA	009	0	ZINC #1 AUTO CLEAR CHROMATE	Hyprotec	Cr, NOx, PM10	Cr	NOx	PM10	37		0.20	9.75	0.02
K-16	IA	011	0	ZINC #3 AUTO CLEAR CHROMATE	Hyprotec	Cr, PM10	Cr	PM10		200		0.24	9.75	0.02
NA	IA	006	0	4000 gal New HCl ACID Storage	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		0	0	0.00	0.00	0
NA	IA	006	0	4000 gal Used HCl ACID Storage	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		0	0	0.00	0.00	0
NA	IA	006	0	3000 gal Chromate Storage	CHROMATE and NITRIC ACID	Cr, NOx, PM10	Cr	Nox	PM10	0	0	0.00	0.00	0
NA	IA	011	0	3000 gal Cyanide Dragout Storage	CYANIDE COMPOUNDS	CN, PM10	CN	PM10		0	0	0.00	0.00	0
NA	IA	011	0	3000 gal Extra Holding	VARIABLE (no longer used)	PM10	PM10			0	0	0.00	0.00	0
T-21	IA	007	0	NICKEL HOIST - NICKEL PLATE	NICKEL SALTS	Ni, PM10	Ni	PM10						Emission Factor
T-1	IA	007	0	NICKEL HOIST - CARRIER STRIP	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		100	0	0.24	9.25	0.03

Process Tank	Actual Uncontrolled Emissions tons ¹	Actual Emissions NO _x	Actual Emissions SO ₂	Actual Emissions VOC	Actual Emissions PM/PM ₁₀ /PM _{2.5}	Actual Emissions Cr	Actual Emissions HCl	Actual Emissions CN Compounds	Ni Actual Emissions Compounds	Actual Emissions Pb Compounds	Actual Emissions Mn Compounds
K-22	0.136	0	0	0	0.136	0	0	0	0	0	0
K-24	0.00150	0	0	0	0.00150	0	0.00150	0	0	0	0
S-0a	0	0	0	0	0	0	0	0	0	0	0
S-2	0	0	0	0	0	0	0	0	0	0	0
S-7	0.107	0	0	0	0.107	0	0.107	0	0	0	0
S-13	0.507	0	0	0	0.507	0	0.507	0	0	0	0
S-33	0.00222	0	0	0	0.00222	0	0	0	0	0	0
S-36	0.000555	0	0	0	0.000555	0	0.000555	0	0	0	0
S-18	0.0542	0	0	0	0.0542	0	0	0	0	0	0
S-18	0.0289	0	0	0	0.0289	0	0	0	0	0	0
S-19	0.0542	0	0	0	0.0542	0	0	0	0	0	0
S-19	0.0289	0	0	0	0.0289	0	0	0	0	0	0
S-20	0.0542	0	0	0	0.0542	0	0	0	0	0	0
S-20	0.0289	0	0	0	0.0289	0	0	0	0	0	0
S-24	0.000191	0	0	0	0.000191	0 - See Footnote 2	0	0	0	0	0
S-27	0.00246	0	0	0	0.00246	0.00246	0	0	0	0	0
H-18	0.00211	0	0	0	0.00211	0 - See Footnote 2	0	0	0	0	0
H-19	0.000146	0	0	0	0.000146	0.000146	0	0	0	0	0
I-12	0	0	0	0	0	0	0	0	0	0	0
I-15	0.000900	0	0.000900	0	0.000900	0	0	0	0	0	0
I-17	0.0268	0	0.0268	0	0.0268	0	0	0	0	0	0
J-12	0.0490	0.0490	0	0	0.0490	0	0	0	0	0	0
J-22	0.00102	0	0	0	0.00102	0	0	0	0	0	0
H-32	0.0638	0	0	0	0.0638	0	0.0638	0	0	0	0
D-13	0.0461	0.0461	0	0	0.0461	0	0	0	0	0	0.0461
O-1/O-5	0.0109	0.0109	0	0	0.0109	0	0	0	0	0	0
O-1/O-5	0.0691	0.0691	0	0	0.0691	0	0	0	0	0	0
T-14	0.0315	0	0	0	0.0315	0	0	0.0315	0	0	0
T-14	0.00392	0	0	0	0.00392	0	0	0.00392	0	0	0
T-14	0.00462	0	0	0	0.00462	0	0	0	0	0	0
E-5	0.000945	0	0	0	0.000945	0	0.000945	0	0	0	0
E-5	0.00418	0	0	0	0.00418	0	0	0	0.00418	0	0
E-19	0.0141	0	0	0	0.0141	0	0	0	0.0141	0	0
F-18	0	0	0	0	0	0	0	0	0	0	0
F-18	0.00605	0	0	0	0.00605	0	0	0.00605	0	0	0
F-19	0.0100	0	0	0	0.0100	0	0	0	0.0100	0	0
A-16	0.00965	0	0.00965	0	0.00965	0 - See Footnote 2	0	0	0	0	0
A-16	0.000901	0.000901	0	0	0	0	0	0	0	0	0
A-15	0.000722	0.000722	0	0	0.000722	0 - See Footnote 2	0	0	0	0	0
K-16	0.00468	0	0	0	0.00468	0 - See Footnote 2	0	0	0	0	0
NA	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	0 - See Footnote 2	0	0	0	0	0
NA	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	0	0	0	0	0	0
T-21	0.0364	0	0	0	0.0364	0	0	0	0.0364	0	0
T-1	0.00333	0	0	0	0.00333	0	0.00333	0	0	0	0

Process Tank	NO _x PTE Tons/Yr	NO _x PTE Lbs/Hr	SO ₂ PTE Tons/Yr	SO ₂ PTE Lbs/Hr	VOC PTE Tons/Yr	VOC PTE Lbs/Hr	PM/PM ₁₀ /PM _{2.5} PTE Tons/Yr	PM/PM ₁₀ /PM _{2.5} PTE Lbs/Hr	Cr PTE Tons/Yr	Cr PTE Lbs/Hr	HCl PTE Tons/Yr	HCl PTE Lbs/Hr	CN PTE Tons/Yr	CN PTE Lbs/Hr	Ni PTE Tons/Yr	Ni PTE Lbs/Hr	Pb PTE Tons/Yr	Pb PTE Lbs/Hr	Mn PTE Tons/Yr	Mn PTE Lbs/Hr
K-22	0	0	0	0	0	0	0.224	0.0512	0	0	0	0	0	0	0	0	0	0	0	0
K-24	0	0	0	0	0	0	0.00248	0.000567	0	0	0.00248	0.000567	0	0	0	0	0	0	0	0
S-0a	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S-7	0	0	0	0	0	0	0.177	0.0404	0	0	0.177	0.0404	0	0	0	0	0	0	0	0
S-13	0	0	0	0	0	0	0.839	0.191	0	0	0.839	0.191	0	0	0	0	0	0	0	0
S-33	0	0	0	0	0	0	0.00367	0.000837	0	0	0	0	0	0	0	0	0	0	0	0
S-36	0	0	0	0	0	0	0.000919	0.000210	0	0	0.000919	0.000210	0	0	0	0	0	0	0	0
S-18	0	0	0	0	0	0	0.0896	0.0205	0	0	0	0	0	0	0	0	0	0	0	0
S-18	0	0	0	0	0	0	0.0478	0.0109	0	0	0	0	0	0	0	0	0	0	0	0
S-19	0	0	0	0	0	0	0.0896	0.0205	0	0	0	0	0	0	0	0	0	0	0	0
S-19	0	0	0	0	0	0	0.0478	0.0109	0	0	0	0	0	0	0	0	0	0	0	0
S-20	0	0	0	0	0	0	0.0896	0.0205	0	0	0	0	0	0	0	0	0	0	0	0
S-20	0	0	0	0	0	0	0.0478	0.0109	0	0	0	0	0	0	0	0	0	0	0	0
S-24	0	0	0	0	0	0	0.000316	0.0000722	0	0	0	0	0	0	0	0	0	0	0	0
S-27	0	0	0	0	0	0	0.00407	0.000928	0.00407	0.000928	0	0	0	0	0	0	0	0	0	0
H-18	0	0	0	0	0	0	0.00348	0.000796	0	0	0	0	0	0	0	0	0	0	0	0
H-19	0	0	0	0	0	0	0.000242	0.0000552	0.000242	0.0000552	0	0	0	0	0	0	0	0	0	0
I-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I-15	0	0	0.00149	0.000340	0	0	0.00149	0.000340	0	0	0	0	0	0	0	0	0	0	0	0
I-17	0	0	0.0444	0.0101	0	0	0.0444	0.0101	0	0	0	0	0	0	0	0	0	0	0	0
J-12	0.0811	0.0185	0	0	0	0	0.0811	0.0185	0	0	0	0	0	0	0	0	0	0	0	0
J-22	0	0	0	0	0	0	0.00169	0.000386	0	0	0	0	0	0	0	0	0	0	0	0
H-32	0	0	0	0	0	0	0.106	0.0241	0	0	0.106	0.0241	0	0	0	0	0	0	0	0
D-13	0.0763	0.0174	0	0	0	0	0.0763	0.0174	0	0	0	0	0	0	0	0	0	0	0.0763	0.0174
O-1/O-5	0.0180	0.00411	0	0	0	0	0.0180	0.00411	0	0	0	0	0	0	0	0	0	0	0	0
O-1/O-5	0.114	0.0261	0	0	0	0	0.114	0.0261	0	0	0	0	0	0	0	0	0	0	0	0
T-14	0	0	0	0	0	0	0.0522	0.0119	0	0	0	0	0.0522	0.0119	0	0	0	0	0	0
T-14	0	0	0	0	0	0	0.00649	0.00148	0	0	0	0	0.00649	0.00148	0	0	0	0	0	0
T-14	0	0	0	0	0	0	0.00764	0.00175	0	0	0	0	0	0	0	0	0	0	0	0
E-5	0	0	0	0	0	0	0.00156	0.000357	0	0	0.00156	0.000357	0	0	0	0	0	0	0	0
E-5	0	0	0	0	0	0	0.00691	0.00158	0	0	0	0	0	0	0.00691	0.00158	0	0	0	0
E-19	0	0	0	0	0	0	0.0233	0.00533	0	0	0	0	0	0	0.0233	0.00533	0	0	0	0
F-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F-18	0	0	0	0	0	0	0.0100	0.0023	0	0	0	0	0.0100	0.00229	0	0	0	0	0	0
F-19	0	0	0	0	0	0	0.0166	0.00379	0	0	0	0	0	0	0.0166	0.00379	0	0	0	0
A-16	0	0	0.0160	0.00364	0	0	0.0160	0.00364	0	0	0	0	0	0	0	0	0	0	0	0
A-16	0.00149	0.000340	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A-15	0.00119	0.000273	0	0	0	0	0.00119	0.000273	0	0	0	0	0	0	0	0	0	0	0	0
K-16	0	0	0	0	0	0	0.00774	0.00177	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T-21	0	0	0	0	0	0	0.0602	0.0137	0	0	0	0	0	0	0.0602	0.0137	0	0	0	0
T-1	0	0	0	0	0	0	0.00551	0.00126	0	0	0.00551	0.00126	0	0	0	0	0	0	0	0

Process Tank #	Emission Unit	Stack/Vent SV#	Controlled 1=Yes 0=No	Process	Primary Components	Pollutant Type	Poll Type 1	Poll Type 2	Poll Type 3	RY 2011 Make Up (gallons) ¹	RY 2011 Make Up (pounds) ¹	% Conc. of Reagent	Density (lb/gal)	% Loss Of Makeup
K-19	IA	011	0	ZINC #3 YELLOW CHROMATE RoHS	LANTHIUM 335 PART A	Cr, PM10	Cr	PM10		300		0.24	9.75	0.02
A-21	IA	002	1	ZINC #1 AUTO ALKALINE ZINC REGEN	SODIUM HYDROXIDE	PM10	PM10			42		0.05	11.08	0.02
A-23	IA	002	1	ZINC #1 AUTO ALKALINE ZINC REGEN ACID	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		16		0.24	9.25	0.05
B-23	IA	009	0	ZINC #2 AUTO ALKALINE ZINC REGEN ACID	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		0		0.24	9.25	0.05
B-17	IA	009	0	ZINC #2 AUTO ALKALINE YELLOW CHROMATE	UNICHROME 95-A	Cr, PM10	Cr VI	PM10		524.4		0.24	9.75	0.02
J-8	IA	007	0	PASSIVATE - CHROMIC BRITE DIP	CHROMIC ACID FLAKES	Cr, PM10	Cr VI	PM10			330	1.00	DNN	0.05
J-8	IA	007	0	PASSIVATE - CHROMIC BRITE DIP	SULFURIC ACID	SOx, PM10	SOx	PM10			8	1.00	11.60	0.02
T-10	IA	003	1	NICKEL HOIST LINE - HCL ACID	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		5278		0.24	9.25	0.03
T-9	IA	003	1	NICKEL HOIST LINE - NITRIC ACID (PASSIVATE)	NITRIC ACID	NOx, PM10	NOx	PM10			850	0.67	12.50	0.05
S-2	IA	004	1	ZINC #4 STRIPPER	SODIUM HYDROXIDE	PM10	PM10				1100	0.50	11.08	0.05
S-2	IA	004	1	ZINC #4 STRIPPER	METALINE 1296	NOx, PM10	NOx	PM10			3682	0.60	DNN	0.05
S-29	IA	004	1	ZINC #4 BLACK CHROMATE	CHROMATER 50	Cr, SOx, PM10	Cr VI	SOx	PM10	166		0.30	9.75	0.02
D-17	IA	007	0	PHOSPHATE ZINC PHOSPHATE - LIGHT	Light Zinc Phos	NOx, PM10	NOx	PM10		160		0.45	11.41	0.05
D-16	IA	007	0	PHOSPHATE - ZINC BLACK	INTERLOX 902	HCl, PM10	HCl	PM10		260		0.01	11.41	0.05
A-10	IA	002	1	ZINC #1 AUTO ALKALINE ZINC PLATE	SODIUM HYDROXIDE	PM10	PM10			770		0.50	11.08	0.02
A-10	IA	002	1	ZINC #1 AUTO ALKALINE ZINC PLATE	Protolux 3200 Maintenance*	PM10	PM10			232		1.00	8.55	0.02
K-00	IA	011	0	ZINC #3 AUTO ZINC STRIPPER	SODIUM HYDROXIDE	PM10	PM10				0	0.30	11.08	0.05
K-00	IA	011	0	ZINC #3 AUTO ZINC STRIPPER	METALINE 1296	NOx, PM10	NOx	PM10		0	0	1.00	0.00	0.05
U-08	IA	004	1	TIN AUTO ACID TIN PLATE	SULFURIC ACID	SOx, PM10	SOx	PM10		60		0.03	11.66	0
V-6	IA	005	1	ZINC BARREL LINE - PICTAX	PICTAX	HCl, PM10	HCl	PM10			560	0.24	DNN	0.03
V-7	IA	005	1	ZINC BARREL LINE - HCL	HCL	HCl, PM10	HCl	PM10		9828		0.24	9.25	0.03
V-12	IA	005	1	ZINC BARREL LINE - ZINC PLATE	SODIUM HYDROXIDE	PM10	PM10			1375		0.50	11.08	0.02
V-12	IA	005	1	ZINC BARREL LINE - ZINC PLATE	Protolux 3200 Maintenance*	PM10	PM10			750		1.00	8.55	0.02
V-17	IA	005	1	ZINC BARREL LINE - RoHS YELLOW CHROMATE	LANTHIUM 335 PART A	Cr, PM10	Cr	PM10		83		0.24	9.75	0.02
V-19	IA	005	1	ZINC BARREL LINE - RoHS CLEAR CHROMATE	Hyprotec	Cr, PM10	Cr	PM10		88		0.01	9.75	0.02
V-22	IA	005	1	ZINC BARREL LINE - UNICHROME	UNICHROME 95-A	Cr, PM10	Cr VI	PM10		35.5		0.24	9.75	0.02
V-25	IA	005	1	ZINC BARREL LINE - BLACK HEX CHROMATE	CHROMATER 50	Cr, PM10	Cr VI	PM10		40		0.30	9.75	0.02
V-29	IA	005	1	ZINC BARREL LINE - ZINC REGEN	SODIUM HYDROXIDE	PM10	PM10			161		0.50	11.08	0.02
V-31	IA	005	1	ZINC BARREL LINE - ZINC REGEN HCL	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		0		0.24	9.25	0.03
F-8	IA	002	1	NICKEL #2 PICTAX	PICTAX (ACID SALTS)	SOx, PM10	SOx	PM10		0	56	0.10	DNN	0.05
E-7	IA	002	1	NICKEL #1 HCL ACID	HYDROCHLORIC ACID	HCl, PM10	HCl	PM10		2926	0	0.37	10.02	0.03
E-16	IA	002	1	NICKEL #1 ELECTROLESS NICKEL	NICKEL COMPOUNDS	Ni, PM10	Ni	PM10		143	0	0.45	10.08	0.03
F-17	IA	008	0	NICKEL #2 COPPER PLATE	COPPER CYANIDE	CN, PM10	CN	PM10		145		1.00	12.61	0.05
F-17	IA	008	0	NICKEL #2 COPPER PLATE	POTASSIUM CYANIDE	CN, PM10	CN	PM10			344	1.00	DNN	0.05
F-17	IA	008	0	NICKEL #2 COPPER PLATE	POTASSIUM HYDROXIDE	PM10	PM10				268	1.00	DNN	0.02
F-20	IA	008	0	NICKEL #2 SULFAMATE NICKEL	NICKEL SALTS	Ni, PM10	Ni	PM10						Emission Factor
F-21	IA	008	0	NICKEL #2 BRIGHT NICKEL	NICKEL SALTS	Ni, PM10	Ni	PM10						Emission Factor
F-29	IA	008	0	NICKEL #2 DULL SUFAMATE NICKEL	NICKEL SALTS	Ni, PM10	Ni	PM10						Emission Factor
F-32	IA	008	0	NICKEL #2 NICKEL STRIKE	NICKEL SALTS	Ni, PM10	Ni	PM10						Emission Factor
F-34	IA	002	1	NICKEL #2 ACID ETCH	NITRIC ACID	NOx, PM10	NOx	PM10		1216		0.67	12.50	0.05
F-34	IA	002	1	NICKEL #2 ACID ETCH	METEXSALTS	PM10	PM10				388	1.00	DNN	0.05
F-35	IA	002	1	NICKEL #2 DESMUT	NITRIC ACID	Nox	NOx			1170		0.15	12.48	0.05
F-39	IA	002	1	NICKEL #2 ZINCATE	ALUMON EN	PM10	PM10			70		0.30	11.08	0.02
F-39	IA	002	1	NICKEL #2 ZINCATE	SODIUM HYDROXIDE	PM10	PM10			0			11.08	0.02
F-42	IA	008	0	NICKEL #2 WOODS STRIKE	NICKEL SALTS	Ni, PM10	Ni	PM10		0				Emission Factor
F-42	IA	008	0	NICKEL #2 WOODS STRIKE	HCl	HCL	HCl	PM10		30		0.37	10.02	0.02

Process Tank	Actual Uncontrolled Emissions tons ¹	Actual Emissions NO _x	Actual Emissions SO ₂	Actual Emissions VOC	Actual Emissions PM/PM ₁₀ /PM _{2.5}	Actual Emissions Cr	Actual Emissions HCl	Actual Emissions CN Compounds	Ni Actual Emissions Compounds	Actual Emissions Pb Compounds	Actual Emissions Mn Compounds
K-19	0.00702	0	0	0	0.00702	0 - See Footnote 2	0	0	0	0	0
A-21	0.000233	0	0	0	0.000233	0	0	0	0	0	0
A-23	0.000888	0	0	0	0.000888	0	0.000888	0	0	0	0
B-23	0	0	0	0	0	0	0	0	0	0	0
B-17	0.0123	0	0	0	0.0123	0.0123	0	0	0	0	0
J-8	0.00825	0	0	0	0.00825	0.00825	0	0	0	0	0
J-8	0.0000800	0	0.0000800	0	0.0000800	0	0	0	0	0	0
T-10	0.176	0	0	0	0.176	0	0.176	0	0	0	0
T-9	0.0142	0.0142	0	0	0.0142	0	0	0	0	0	0
S-2	0.0138	0	0	0	0.0138	0	0	0	0	0	0
S-2	0.0552	0.0552	0	0	0.0552	0	0	0	0	0	0
S-29	0.00486	0	0.00486	0	0.00486	0.00486	0	0	0	0	0
D-17	0.0205	0.0205	0	0	0.0205	0	0	0	0	0	0
D-16	0.000742	0	0	0	0.000742	0	0.000742	0	0	0	0
A-10	0.04266	0	0	0	0.0427	0	0	0	0	0	0
A-10	0.0198	0	0	0	0.0198	0	0	0	0	0	0
K-00	0	0	0	0	0	0	0	0	0	0	0
K-00	0	0	0	0	0	0	0	0	0	0	0
U-08	0	0	0	0	0	0	0	0	0	0	0
V-6	0.00202	0	0	0	0.00202	0	0.00202	0	0	0	0
V-7	0.3273	0	0	0	0.3273	0	0.327	0	0	0	0
V-12	0.0762	0	0	0	0.0762	0	0	0	0	0	0
V-12	0.0641	0	0	0	0.0641	0	0	0	0	0	0
V-17	0.00194	0	0	0	0.00194	0 - See Footnote 2	0	0	0	0	0
V-19	0.0000858	0	0	0	0.0000858	0 - See Footnote 2	0	0	0	0	0
V-22	0.000831	0	0	0	0.000831	0.000831	0	0	0	0	0
V-25	0.00117	0	0	0	0.00117	0.00117	0	0	0	0	0
V-29	0.00892	0	0	0	0.00892	0	0	0	0	0	0
V-31	0	0	0	0	0	0	0	0	0	0	0
F-8	0.000140	0	0.000140	0	0.000140	0	0	0	0	0	0
E-7	0.163	0	0	0	0.163	0	0.163	0	0	0	0
E-16	0.00973	0	0	0	0.00973	0	0	0	0.00973	0	0
F-17	0.0457	0	0	0	0.0457	0	0	0.0457	0	0	0
F-17	0.00860	0	0	0	0.00860	0	0	0.00860	0	0	0
F-17	0.00268	0	0	0	0.00268	0	0	0	0	0	0
F-20	0.0141	0	0	0	0.0141	0	0	0	0.0141	0	0
F-21	0.0141	0	0	0	0.0141	0	0	0	0.0141	0	0
F-29	0.00835	0	0	0	0.00835	0	0	0	0.00835	0	0
F-32	0.00303	0	0	0	0.00303	0	0	0	0.00303	0	0
F-34	0.2546	0.255	0	0	0.255	0	0	0	0	0	0
F-34	0.00970	0	0	0	0.00970	0	0	0	0	0	0
F-35	0.0548	0.0548	0	0	0	0	0	0	0	0	0
F-39	0.00233	0	0	0	0.00233	0	0	0	0	0	0
F-39	0	0	0	0	0	0	0	0	0	0	0
F-42	0.00251	0	0	0	0.00251	0	0	0	0.00251	0	0
F-42	0.00111	0	0	0	0.00111	0	0.00111	0	0	0	0

Process Tank	NO _x PTE Tons/Yr	NO _x PTE Lbs/Hr	SO ₂ PTE Tons/Yr	SO ₂ PTE Lbs/Hr	VOC PTE Tons/Yr	VOC PTE Lbs/Hr	PM/PM ₁₀ /PM _{2.5} PTE Tons/Yr	PM/PM ₁₀ /PM _{2.5} PTE Lbs/Hr	Cr PTE Tons/Yr	Cr PTE Lbs/Hr	HCl PTE Tons/Yr	HCl PTE Lbs/Hr	CN PTE Tons/Yr	CN PTE Lbs/Hr	Ni PTE Tons/Yr	Ni PTE Lbs/Hr	Pb PTE Tons/Yr	Pb PTE Lbs/Hr	Mn PTE Tons/Yr	Mn PTE Lbs/Hr
K-19	0	0	0	0	0	0	0.01161	0.00265	0	0	0	0	0	0	0	0	0	0	0	0
A-21	0	0	0	0	0	0	0.000385	0.0000879	0	0	0	0	0	0	0	0	0	0	0	0
A-23	0	0	0	0	0	0	0.00147	0.000336	0	0	0.00147	0.000336	0	0	0	0	0	0	0	0
B-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B-17	0	0	0	0	0	0	0.0203	0.00464	0.0203	0.00464	0	0	0	0	0	0	0	0	0	0
J-8	0	0	0	0	0	0	0.01365	0.00312	0.0137	0.00312	0	0	0	0	0	0	0	0	0	0
J-8	0	0	0.000132	0.0000302	0	0	0.000132	0.0000302	0	0	0	0	0	0	0	0	0	0	0	0
T-10	0	0	0	0	0	0	0.291	0.0664	0	0	0.291	0.0664	0	0	0	0	0	0	0	0
T-9	0.0236	0.00538	0	0	0	0	0.0236	0.00538	0	0	0	0	0	0	0	0	0	0	0	0
S-2	0	0	0	0	0	0	0.0228	0.00519	0	0	0	0	0	0	0	0	0	0	0	0
S-2	0.0914	0.0209	0	0	0	0	0.0914	0.0209	0	0	0	0	0	0	0	0	0	0	0	0
S-29	0	0	0.00803	0.00183	0	0	0.00803	0.00183	0.00803	0.00183	0	0	0	0	0	0	0	0	0	0
D-17	0.0340	0.00776	0	0	0	0	0.0340	0.00776	0	0	0	0	0	0	0	0	0	0	0	0
D-16	0	0	0	0	0	0	0.00123	0.000280	0	0	0.00123	0.000280	0	0	0	0	0	0	0	0
A-10	0	0	0	0	0	0	0.0706	0.0161	0	0	0	0	0	0	0	0	0	0	0	0
A-10	0	0	0	0	0	0	0.0328	0.00749	0	0	0	0	0	0	0	0	0	0	0	0
K-00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
K-00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U-08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V-6	0	0	0	0	0	0	0.00334	0.000762	0	0	0.00334	0.000762	0	0	0	0	0	0	0	0
V-7	0	0	0	0	0	0	0.541	0.124	0	0	0.541	0.124	0	0	0	0	0	0	0	0
V-12	0	0	0	0	0	0	0.126	0.0288	0	0	0	0	0	0	0	0	0	0	0	0
V-12	0	0	0	0	0	0	0.106	0.0242	0	0	0	0	0	0	0	0	0	0	0	0
V-17	0	0	0	0	0	0	0.00321	0.000734	0	0	0	0	0	0	0	0	0	0	0	0
V-19	0	0	0	0	0	0	0.000142	0.0000324	0	0	0	0	0	0	0	0	0	0	0	0
V-22	0	0	0	0	0	0	0.00137	0.000314	0.00137	0.000314	0	0	0	0	0	0	0	0	0	0
V-25	0	0	0	0	0	0	0.00194	0.000442	0.00194	0.000442	0	0	0	0	0	0	0	0	0	0
V-29	0	0	0	0	0	0	0.0148	0.00337	0	0	0	0	0	0	0	0	0	0	0	0
V-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F-8	0	0	0.000232	0.0000529	0	0	0.000232	0.0000529	0	0	0	0	0	0	0	0	0	0	0	0
E-7	0	0	0	0	0	0	0.269	0.0615	0	0	0.269	0.0615	0	0	0	0	0	0	0	0
E-16	0	0	0	0	0	0	0.0161	0.00368	0	0	0	0	0	0	0.0161	0.00368	0	0	0	0
F-17	0	0	0	0	0	0	0.0756	0.0173	0	0	0	0	0.0756	0.0173	0	0	0	0	0	0
F-17	0	0	0	0	0	0	0.0142	0.00325	0	0	0	0	0.0142	0.00325	0	0	0	0	0	0
F-17	0	0	0	0	0	0	0.00443	0.00101	0	0	0	0	0	0	0	0	0	0	0	0
F-20	0	0	0	0	0	0	0.0234	0.00533	0	0	0	0	0	0	0.0234	0.00533	0	0	0	0
F-21	0	0	0	0	0	0	0.0234	0.00533	0	0	0	0	0	0	0.0234	0.00533	0	0	0	0
F-29	0	0	0	0	0	0	0.0138	0.00315	0	0	0	0	0	0	0.0138	0.00315	0	0	0	0
F-32	0	0	0	0	0	0	0.00501	0.00114	0	0	0	0	0	0	0.00501	0.00114	0	0	0	0
F-34	0.4212	0.0962	0	0	0	0	0.421	0.0962	0	0	0	0	0	0	0	0	0	0	0	0
F-34	0	0	0	0	0	0	0.0160	0.00366	0	0	0	0	0	0	0	0	0	0	0	0
F-35	0.0906	0.0207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F-39	0	0	0	0	0	0	0.00385	0.000879	0	0	0	0	0	0	0	0	0	0	0	0
F-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F-42	0	0	0	0	0	0	0.00415	0.000947	0	0	0	0	0	0	0.00415	0.000947	0	0	0	0
F-42	0	0	0	0	0	0	0.00184	0.000420	0	0	0.00184	0.000420	0	0	0	0	0	0	0	0

Process Tank #	Emission Unit	Stack/Vent SV#	Controlled 1=Yes 0=No	Process	Primary Components	Pollutant Type	Poll Type 1	Poll Type 2	Poll Type 3	RY 2011 Make Up (gallons) ¹	RY 2011 Make Up (pounds) ¹	% Conc. of Reagent	Density (lb/gal)	% Loss Of Makeup
A-19	IA	009	0	ZINC #1 AUTO 330 TOPCOAT	TOP COAT	Cr, PM10	Cr	PM10		130	0	0.24	9.75	0.02
A-20	IA	009	0	ZINC #1 AUTO 600 BG TOPCOAT	TOP COAT	Cr, PM10	Cr	PM10		460	0	0.24	9.75	0.02
B-16	IA	009	0	ZINC #2 AUTO OLIVE DRAB		Cr, PM10	Cr	PM10		0		0.35	11.09	0.02
T-13	IA	008	0	NICKEL HOIST LINE - COPPER STRIKE	POTASSIUM COPPER CYANIDE	CN, PM10	CN	PM10		0		1.00	12.61	0.05
T-13	IA	008	0	NICKEL HOIST LINE - COPPER STRIKE	POTASSIUM CYANIDE	CN, PM10	CN	PM10			320	1.00	DNN	0.05
T-25	179	008	0	NICKEL HOIST LINE - TRI CHROME	TC ADDITIVE	Cr, PM10	Cr	PM10			80	0.24	9.75	0.02
I-23	IA	007	0	TIN HAND LINE - SILVER PLATE	SILVER	Ag	CN	PM10			2	0.45	2.97	0.02
I-23	IA	007	0	TIN HAND LINE - SILVER PLATE	CYANIDE COMPOUNDS	CN, PM10	CN	PM10		0	204	1.00	12.61	0.02
I-25	IA	007	0	TIN HAND LINE - SILVER STRIKE	CYANIDE COMPOUNDS	CN, PM10	CN	PM10		0	154	1.00	12.61	0.02
I-26	IA	007	0	TIN HAND LINE - COPPER PLATE	COPPER CYANIDE	CN, PM10	CN	PM10		180		1.00	12.61	0.05
I-26	IA	007	0	TIN HAND LINE - COPPER PLATE	POTASSIUM CYANIDE	CN, PM10	CN	PM10			300	1.00	DNN	0.05
I-26	IA	007	0	TIN HAND LINE - COPPER PLATE	POTASSIUM HYDROXIDE	PM10	PM10				300	1.00	DNN	0.02
I-29	IA	007	0	TIN HAND LINE - Zinc Chloride Plating	POTASSIUM CHLORIDE	PM10	PM10			0	0	0.234	16.52	0.02
I-31	IA	007	0	TIN HAND LINE - TIN/LEAD	METHANESULFONIC ACID	PM10	PM10			1		1.00	11.26	0.02
I-31	IA	007	0	TIN HAND LINE - TIN/LEAD	STANTEK 450 LEAD CONCENTRATE	PB, PM10	PB	PM10		1		0.50	13.76	0.02
I-31	IA	007	0	TIN HAND LINE - TIN/LEAD	STANTEK 350 TIN CONCENTRATE	PM10	PM10			1		0.55	12.79	0.02
I-31	IA	007	0	TIN HAND LINE - TIN/LEAD	STANTEK AMAT PRIMARY	PM10	PM10			0.5		1.00	8.38	0.02
I-31	IA	007	0	TIN HAND LINE - TIN/LEAD	STANTEK AMAT SECONDARY	PM10	PM10			0.5		1.00	7.93	0.02
J-11	IA	007	0	PASSIVATE - CHROMIC BRITE DIP	CHROMIC ACID FLAKES	Cr, PM10	Cr VI	PM10			300	1.00	9.75	0.02
S-32	IA	004	1	ZINC #4 - 330 TOP COAT	TOP COAT	Cr, PM10	Cr	PM10		66	0	0.50	9.75	0.02
H-12	IA	007	0	ZINC HAND LINE - FLUOROBORIC ACID	fluoroboric acid	PM10	PM10			47.5	0	0.24	10.60	0.02
H-24	IA	007	0	ZINC HAND LINE - RoHS BLACK CHROMATE	TRIPASS ELV 5200 - AN	Sox, Cr, PM10	SOx	Cr	PM10	66		0.18	10.85	0.02
H-24	IA	007	0	ZINC HAND LINE - RoHS BLACK CHROMATE	TRIPASS ELV 5200 - B	Nox	NOx			52.8		0.03	8.71	0.02
H-25	IA	007	0	ZINC HAND LINE - RoHS BLACK TOPCOAT	TOP COAT	Cr, PM10	Cr	PM10		137	0	0.24	9.75	0.02
H-26	IA	007	0	ZINC HAND LINE - RoHS YELLOW CHROMATE	LANTHIUM 335 PART A	Cr, PM10	Cr	PM10		18		0.24	9.75	0.02
O-3	IA	011	0	STRIPS ALUMINUM	NITRIC ACID	NOx, PM10	NOx	PM10			0	0.67	12.50	0.05
O-9	IA	011	0	STRIPS SILVER	NITRIC ACID	NOx, PM10	NOx	PM10		12		0.67	12.50	0.05
O-9	IA	011	0	STRIPS SILVER	SULFURIC ACID	SOx, PM10	SOx	PM10		192		0.25	11.66	0.05
O-11	IA	011	0	STRIPS PARTS - NORTH	6400 - Sodium Nitrite	PM10	PM10				2160	0.15	DNN	0.05
O-12	IA	011	0	STRIPS PARTS - SOUTH	6400 - Sodium Nitrite	PM10	PM10				2160	0.15	DNN	0.05
D-3a	IA	007	0	PHOSPHATE POTASSIUM PERMANGANATE - NaOH	POTASSIUM PERMANGANATE	PM10	PM10				200	1.00	22.53	0.05
D-3a	IA	007	0	PHOSPHATE POTASSIUM PERMANGANATE - NaOH	SODIUM HYDROXIDE	PM10	PM10			120		0.50	11.08	0.05
D-8	IA	007	0	PHOSPHATE - HCL	HCL	HCl, PM10	HCl	PM10		6276		0.60	10.02	0.03
D-20	IA	007	0	CHROMIC BRITE DIP	CHROMIC ACID FLAKES	Cr, PM10	Cr VI	PM10			10	1.00	DNN	0.03
V-8	199	005	1	ZINC BARREL LINE - HCL	HCL	HCl, PM10	HCl	PM10		9828	0	0.50	11.08	0.03
V-13	IA	005	1	ZINC BARREL LINE - ZINC PLATE	SODIUM HYDROXIDE	PM10	PM10			1375	0	0.50	11.08	0.02
V-13	IA	005	1	ZINC BARREL LINE - ZINC PLATE	Protolux 3200 Maintenance*	PM10	PM10			750		1.00	8.55	0.02
V-27	IA	005	1	ZINC BARREL LINE - OLIVE DRAB	Iridite OD	Cr, PM10	Cr VI	PM10		38.5		0.35	11.09	0.02
V-28	IA	005	1	ZINC BARREL LINE - 330 TOPCOAT	TOP COAT	Cr, PM10	Cr	PM10		40	0	0.24	9.75	0.02
SC-1	IA	009	0	SANCHEM LINE - NITRIC PRE-DIP	NITRIC ACID	NOx, PM10	NOx	PM10		15	0	0.067	12.50	0.05
ZN-FL-5	IA	007	0	ZINC FLASHLINE - PICTAX	Pictax	SOx, PM10	SOx	PM10			138	0.24	DNN	0.03
ZN-FL-6	IA	005	1	ZINC FLASH LINE - HCL	HCL	HCl, PM10	HCl	PM10		5000		0.25	9.25	0.03
ZN-FL-9	IA	005	1	ZINC FLASH LINE - ZINC PLATE	SODIUM HYDROXIDE	PM10	PM10			414		0.50	11.08	0.02
ZN-FL-9	IA	005	1	ZINC FLASH LINE - ZINC PLATE	Protolux 3200 Maintenance*	PM10	PM10			750		1.00	8.55	0.02
ZN-FL-12	IA	007	0	ZINC FLASH LINE - NITRIC	NITRIC ACID	NOx, PM10	NOx	PM10		8		0.10	12.50	0.05
ZN-FL-14	IA	007	0	ZINC FLASH LINE - RoHS BLACK	TRIPASS ELV 5200 - AN	PM10, SOx, CR	PM10	SOx	CR	126		0.18	10.85	0.02
ZN-FL-14	IA	007	0	ZINC FLASH LINE - RoHS BLACK	TRIPASS ELV 5200 - B	NOx	NOx			103		0.03	8.71	0.02

Process Tank	Actual Uncontrolled Emissions tons ¹	Actual Emissions NO _x	Actual Emissions SO ₂	Actual Emissions VOC	Actual Emissions PM/PM ₁₀ /PM _{2.5}	Actual Emissions Cr	Actual Emissions HCl	Actual Emissions CN Compounds	Ni Actual Emissions Compounds	Actual Emissions Pb Compounds	Actual Emissions Mn Compounds
A-19	0.00304	0	0	0	0.00304	0 - See Footnote 2	0	0	0	0	0
A-20	0.0108	0	0	0	0.0108	0 - See Footnote 2	0	0	0	0	0
B-16	0	0	0	0	0	0 - See Footnote 2	0	0	0	0	0
T-13	0	0	0	0	0	0	0	0	0	0	0
T-13	0.00800	0	0	0	0.00800	0	0	0.00800	0	0	0
T-25	0.000192	0	0	0	0.000192	0 - See Footnote 2	0	0	0	0	0
I-23	0.00000900	0	0	0	0.00000900	0	0	0.00000900	0	0	0
I-23	0.00204	0	0	0	0.00204	0	0	0.00204	0	0	0
I-25	0.00154	0	0	0	0.00154	0	0	0.00154	0	0	0
I-26	0.0567	0	0	0	0.0567	0	0	0.0567	0	0	0
I-26	0.00750	0	0	0	0.00750	0	0	0.00750	0	0	0
I-26	0.00300	0	0	0	0.00300	0	0	0	0	0	0
I-29	0	0	0	0	0	0	0	0	0	0	0
I-31	0.000113	0	0	0	0.000113	0	0	0	0	0	0
I-31	0.0000688	0	0	0	0.0000688	0	0	0	0	0.0000688	0
I-31	0.0000703	0	0	0	0.0000703	0	0	0	0	0	0
I-31	0.0000419	0	0	0	0.0000419	0	0	0	0	0	0
I-31	0.0000397	0	0	0	0.0000397	0	0	0	0	0	0
J-11	0.00300	0	0	0	0.00300	0.00300	0	0	0	0	0
S-32	0.00322	0	0	0	0.00322	0 - See Footnote 2	0	0	0	0	0
H-12	0.00121	0	0	0	0.00121	0	0	0	0	0	0
H-24	0.00129	0	0.00129	0	0.00129	0 - See Footnote 2	0	0	0	0	0
H-24	0.000115	0.000115	0	0	0	0	0	0	0	0	0
H-25	0.00321	0	0	0	0.00321	0 - See Footnote 2	0	0	0	0	0
H-26	0.000421	0	0	0	0.000421	0 - See Footnote 2	0	0	0	0	0
O-3	0	0	0	0	0	0	0	0	0	0	0
O-9	0.00251	0.00251	0	0	0.00251	0	0	0	0	0	0
O-9	0.0140	0	0.0140	0	0.0140	0	0	0	0	0	0
O-11	0.00810	0	0	0	0.00810	0	0	0	0	0	0
O-12	0.00810	0	0	0	0.00810	0	0	0	0	0	0
D-3a	0.00500	0	0	0	0.00500	0	0	0	0	0	0
D-3a	0.0166	0	0	0	0.0166	0	0	0	0	0	0
D-8	0.566	0	0	0	0.566	0	0.566	0	0	0	0
D-20	0.000150	0	0	0	0.000150	0.000150	0	0	0	0	0
V-8	0.817	0	0	0	0.817	0	0.817	0	0	0	0
V-13	0.0762	0	0	0	0.0762	0	0	0	0	0	0
V-13	0.0641	0	0	0	0.0641	0	0	0	0	0	0
V-27	0.00149	0	0	0	0.00149	0.00149	0	0	0	0	0
V-28	0.000936	0	0	0	0.000936	0 - See Footnote 2	0	0	0	0	0
SC-1	0.000314	0.000314	0	0	0.000314	0	0	0	0	0	0
ZN-FL-5	0.000497	0	0.000497	0	0.000497	0	0	0	0	0	0
ZN-FL-6	0.173	0	0	0	0.173	0	0.173	0	0	0	0
ZN-FL-9	0.0229	0	0	0	0.0229	0	0	0	0	0	0
ZN-FL-9	0.0641	0	0	0	0.0641	0	0	0	0	0	0
ZN-FL-12	0.000250	0.000250	0	0	0.000250	0	0	0	0	0	0
ZN-FL-14	0.002461	0	0.00246	0	0.00246	0 - See Footnote 2	0	0	0	0	0
ZN-FL-14	0.000224	0.000224	0	0	0	0	0	0	0	0	0

Process Tank	NO _x PTE Tons/Yr	NO _x PTE Lbs/Hr	SO ₂ PTE Tons/Yr	SO ₂ PTE Lbs/Hr	VOC PTE Tons/Yr	VOC PTE Lbs/Hr	PM/PM ₁₀ /PM _{2.5} PTE Tons/Yr	PM/PM ₁₀ /PM _{2.5} PTE Lbs/Hr	Cr PTE Tons/Yr	Cr PTE Lbs/Hr	HCl PTE Tons/Yr	HCl PTE Lbs/Hr	CN PTE Tons/Yr	CN PTE Lbs/Hr	Ni PTE Tons/Yr	Ni PTE Lbs/Hr	Pb PTE Tons/Yr	Pb PTE Lbs/Hr	Mn PTE Tons/Yr	Mn PTE Lbs/Hr
A-19	0	0	0	0	0	0	0.00503	0.00115	0	0	0	0	0	0	0	0	0	0	0	0
A-20	0	0	0	0	0	0	0.0178	0.00407	0	0	0	0	0	0	0	0	0	0	0	0
B-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T-13	0	0	0	0	0	0	0.0132	0.00302	0	0	0	0	0.0132	0.00302	0	0	0	0	0	0
T-25	0	0	0	0	0	0	0.000318	0.0000725	0	0	0	0	0	0	0	0	0	0	0	0
I-23	0	0	0	0	0	0	0.0000149	0.00000340	0	0	0	0	0.0000149	0.00000340	0	0	0	0	0	0
I-23	0	0	0	0	0	0	0.00338	0.000771	0	0	0	0	0.00338	0.000771	0	0	0	0	0	0
I-25	0	0	0	0	0	0	0.00255	0.000582	0	0	0	0	0.00255	0.000582	0	0	0	0	0	0
I-26	0	0	0	0	0	0	0.0939	0.0214	0	0	0	0	0.0939	0.0214	0	0	0	0	0	0
I-26	0	0	0	0	0	0	0.0124	0.00283	0	0	0	0	0.0124	0.00283	0	0	0	0	0	0
I-26	0	0	0	0	0	0	0.00496	0.00113	0	0	0	0	0	0	0	0	0	0	0	0
I-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I-31	0	0	0	0	0	0	0.000186	0.0000425	0	0	0	0	0	0	0	0	0	0	0	0
I-31	0	0	0	0	0	0	0.000114	0.0000260	0	0	0	0	0	0	0	0	0.000114	0.0000260	0	0
I-31	0	0	0	0	0	0	0.000116	0.0000266	0	0	0	0	0	0	0	0	0	0	0	0
I-31	0	0	0	0	0	0	0.0000693	0.0000158	0	0	0	0	0	0	0	0	0	0	0	0
I-31	0	0	0	0	0	0	0.0000656	0.0000150	0	0	0	0	0	0	0	0	0	0	0	0
J-11	0	0	0	0	0	0	0.00496	0.00113	0.00496	0.00113	0	0	0	0	0	0	0	0	0	0
S-32	0	0	0	0	0	0	0.00532	0.00122	0	0	0	0	0	0	0	0	0	0	0	0
H-12	0	0	0	0	0	0	0.00200	0.000456	0	0	0	0	0	0	0	0	0	0	0	0
H-24	0	0	0.00213	0.000487	0	0	0.00213	0.000487	0	0	0	0	0	0	0	0	0	0	0	0
H-24	0.000190	0.0000434	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
H-25	0	0	0	0	0	0	0.00530	0.00121	0	0	0	0	0	0	0	0	0	0	0	0
H-26	0	0	0	0	0	0	0.000697	0.000159	0	0	0	0	0	0	0	0	0	0	0	0
O-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O-9	0.00416	0.000949	0	0	0	0	0.00416	0.000949	0	0	0	0	0	0	0	0	0	0	0	0
O-9	0	0	0.0232	0.00529	0	0	0.0232	0.00529	0	0	0	0	0	0	0	0	0	0	0	0
O-11	0	0	0	0	0	0	0.0134	0.00306	0	0	0	0	0	0	0	0	0	0	0	0
O-12	0	0	0	0	0	0	0.0134	0.00306	0	0	0	0	0	0	0	0	0	0	0	0
D-3a	0	0	0	0	0	0	0.00827	0.00189	0	0	0	0	0	0	0	0	0	0	0	0
D-3a	0	0	0	0	0	0	0.0275	0.00628	0	0	0	0	0	0	0	0	0	0	0	0
D-8	0	0	0	0	0	0	0.936	0.214	0	0	0.936	0.214	0	0	0	0	0	0	0	0
D-20	0	0	0	0	0	0	0.000248	0.0000567	0.000248	0.0000567	0	0	0	0	0	0	0	0	0	0
V-8	0	0	0	0	0	0	1.35	0.309	0	0	1.35	0.309	0	0	0	0	0	0	0	0
V-13	0	0	0	0	0	0	0.126	0.0288	0	0	0	0	0	0	0	0	0	0	0	0
V-13	0	0	0	0	0	0	0.106	0.0242	0	0	0	0	0	0	0	0	0	0	0	0
V-27	0	0	0	0	0	0	0.00247	0.000565	0.00247	0.000565	0	0	0	0	0	0	0	0	0	0
V-28	0	0	0	0	0	0	0.00155	0.000354	0	0	0	0	0	0	0	0	0	0	0	0
SC-1	0.000520	0.000119	0	0	0	0	0.000520	0.000119	0	0	0	0	0	0	0	0	0	0	0	0
ZN-FL-5	0	0	0.000822	0.000188	0	0	0.000822	0.000188	0	0	0	0	0	0	0	0	0	0	0	0
ZN-FL-6	0	0	0	0	0	0	0.287	0.0655	0	0	0.287	0.0655	0	0	0	0	0	0	0	0
ZN-FL-9	0	0	0	0	0	0	0.0379	0.00866	0	0	0	0	0	0	0	0	0	0	0	0
ZN-FL-9	0	0	0	0	0	0	0.106	0.0242	0	0	0	0	0	0	0	0	0	0	0	0
ZN-FL-12	0.000414	0.0000944	0	0	0	0	0.000414	0.0000944	0	0	0	0	0	0	0	0	0	0	0	0
ZN-FL-14	0	0	0.00407	0.000929	0	0	0.00407	0.000929	0	0	0	0	0	0	0	0	0	0	0	0
ZN-FL-14	0.000371	0.0000847	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Process Tank #	Emission Unit	Stack/Vent SV#	Controlled 1=Yes 0=No	Process	Primary Components	Pollutant Type	Poll Type 1	Poll Type 2	Poll Type 3	RY 2011 Make Up (gallons) ¹	RY 2011 Make Up (pounds) ¹	% Conc. of Reagent	Density (lb/gal)	% Loss Of Makeup
ZN-FL-15	IA	007	0	ZINC FLASH LINE - CLEAR	Hyprotec	Cr, PM10	CR	PM10		88		0.01	9.75	0.02
ZN-FL-18	IA	007	0	ZINC FLASH LINE - TOPCOAT	TOP COAT	Cr, PM10	CR	PM10		56		0.24	9.75	0.02
ZN-FL-20	IA	007	0	ZINC FLASH LINE - HEX YELLOW	UNICHROME 95-A	Cr, PM10	Cr VI	PM10		16		0.24	9.75	0.02
ZN-FL-23	IA	007	0	ZINC FLASH LINE - 330 TOPCOAT	TOP COAT	Cr, PM10	CR	PM10		12		0.24	9.75	0.02
ZN-FL-24	IA	007	0	ZINC FLASH LINE - ZINC REGEN HCL	HYDROCHLORIC ACID	HCl, PM10	HCl			0		0.50	10.02	0.03
ZN-FL-26	IA	007	0	ZINC FLASH LINE - ZINC REGEN	SODIUM HYDROXIDE	PM10	PM10			442		0.50	11.08	0.02
GL-04	IA	007	0	GOLD LINE STEEL ACID SALTS	PICTAX	SOx, PM10	Sox	PM10			0	0.24	DNN	0.03
GL-05	IA	007	0	GOLD LINE COPPER ACIS SALTS	Sulfuric acid	SOx, PM10	Sox	PM10		0		0.24	11.55	0.02
GL-07	IA	014	1	GOLD LINE 639 acid activator fluo carbon anodes	Sulfuric acid	SOx, PM10	Sox	PM10		0		0.30	11.55	0.02
GL-09	IA	014	1	GOLD LINE sulfamate strike	NICKEL SULFAMATE	Ni, PM10	Ni	PM10		0		0.45	10.08	Emission Factor
GL-09	IA	014	1	GOLD LINE sulfamate strike	NICKEL CHLORIDE	Ni, PM10	Ni	PM10		0		0.45	10.18	0.03
GL-09	IA	014	1	GOLD LINE sulfamate strike	BORIC ACID	PM10	PM10				0	1.00	DNN	0.05
GL-12	IA	014	1	GOLD LINE cyanide copper	POTASSIUM CYANIDE	CN, PM10	CN	PM10			0	1.00	DNN	0.02
GL-12	IA	014	1	GOLD LINE cyanide copper	COPPER CYANIDE	CN, PM10	CN	PM10			0	1.00	DNN	0.02
GL-14	IA	007	0	Gold Line 10% Sulfuric Acid Dip	Sulfuric acid	SOx, PM10	Sox	PM10		0		0.35	11.55	0.02
GL-15	IA	007	0	Gold Line 20% Fluoboric Acid Dip	fluoboric acid	HBf, PM10	HBf	PM10		0		0.25	11.00	0.05
GL-17	IA	014	1	Gold Line Woods Strike	NICKEL SALTS	Ni, PM10	Ni	PM10			0	1.00	DNN	Emission Factor
GL-17	IA	014	1	Gold Line Woods Strike	HCl	HCL	HCl	PM10		0		0.37	10.02	0.02
GL-18	IA	014	1	Gold Line Sulfamate Nickel	NICKEL SALTS	Ni, PM10	Ni	PM10			0	1.00	DNN	Emission Factor
GL-19	IA	014	1	Gold Line Electroless Nickel 1	Nickel Sulfate, Lactic Acid	Ni, PM10	Ni	PM10		0		0.45	10.08	0.03
GL-19	IA	014	1	Gold Line Electroless Nickel 1	Sodium Hypophosphite	VOC	VOC			0		0.25	10.50	0.03
GL-20	IA	014	1	Gold Line Electroless Nickel 2	Nickel Sulfate, Lactic Acid	Ni, PM10	Ni	PM10		0		0.45	10.08	0.03
GL-20	IA	014	1	Gold Line Electroless Nickel 2	Sodium Hypophosphite	VOC	VOC			0		0.25	10.50	0.03
GL-22	IA	007	0	Gold Line 10% Sulfuric Acid Dip 2	Sulfuric acid	SOx, PM10	SOx	PM10		0		0.10	15.40	0.02
GL-23	IA	007	0	Gold Line Gold Strike	Potassium Gold Cyanide	CN, PM10	CN	PM10	AU	0		0.02	11.23	0.03
GL-23	IA	007	0	Gold Line Gold Strike	POTASSIUM CYANIDE	CN, PM10	CN	PM10			0	1.00	DNN	0.03
GL-24	IA	007	0	Gold Line Soft Gold Plate	Potassium Cyanide	CN, PM10	CN	PM10			0	1.00	DNN	0.03
GL-24	IA	007	0	Gold Line Soft Gold Plate	Silver Cyanide						0	1.00	DNN	0.03
GL-24	IA	007	0	Gold Line Soft Gold Plate	Potassium Gold Cyanide	CN, PM10	CN	PM10			0	1.00	DNN	0.03
GL-26	IA	007	0	Gold Line Hard Gold Plate	Potassium Cyanide	CN, PM10	CN	PM10			0	1.00	DNN	0.03
GL-26	IA	007	0	Gold Line Hard Gold Plate	Silver Cyanide						0	1.00	DNN	0.03
GL-26	IA	007	0	Gold Line Hard Gold Plate	Potassium Gold Cyanide	CN, PM10	CN	PM10			0	1.00	DNN	0.03
GL-28	IA	007	0	Gold Line Gold Plate 1	Potassium Cyanide	CN, PM10	CN	PM10			0	1.00	DNN	0.03
GL-28	IA	007	0	Gold Line Gold Plate 1	Silver Cyanide						0	1.00	DNN	0.03
GL-28	IA	007	0	Gold Line Gold Plate 1	Potassium Gold Cyanide	CN, PM10	CN	PM10			0	1.00	DNN	0.03
GL-29	IA	007	0	Gold Line Gold Plate 2	Potassium Cyanide	CN, PM10	CN	PM10			0	1.00	DNN	0.03
GL-29	IA	007	0	Gold Line Gold Plate 2	Silver Cyanide						0	1.00	DNN	0.03
GL-29	IA	007	0	Gold Line Gold Plate 2	Potassium Gold Cyanide	CN, PM10	CN	PM10			0	1.00	DNN	0.03
GL-32	IA	007	0	Gold Line Palladium Bath	Palladium	PB, PM10	PB	PM10			0	1.00	DNN	0.03
GL-32	IA	007	0	Gold Line Palladium Bath	Ammonium Sulfamate	PM10	PM10				0	1.00	DNN	0.03
GL-32	IA	007	0	Gold Line Palladium Bath	Ammonium Hydroxide	PM10	PM10				0	1.00	DNN	0.03
GL-38	IA	014	1	Gold Line Hot Sulfuric 20%	Sulfuric Acid	SOX, PM10	SOx	PM10		0		0.20	15.40	0.03
GL-40	IA	014	1	Gold Line Bright Dip	Sulfuric Acid	SOX, PM10	SOx	PM10		0		0.40	15.40	0.03
GL-40	IA	014	1	Gold Line Bright Dip	Nitric Acid	NOx, PM10	NOx	PM10		0		0.15	11.75	0.03
GL-40	IA	014	1	Gold Line Bright Dip	Phosphoric Acid	HPO, PM10	HPO	PM10		0		0.45	18.40	0.03
GL-42	IA	014	1	Gold Line Strip 1 EN	Ethylenediamine, Sodium Hydroxide, Sodium Diethyldithiocarbamate	VOC	VOC			0		0.25	8.10	0.02
GL-43	IA	014	1	Gold Line Strip 2 AU	SULFURIC ACID	SOX, PM10	SOx	PM10		0		0.50	11.55	0.03
GL-43	IA	014	1	Gold Line Strip 2 AU	Glycerol	PM10	PM10				0	0.05	DNN	0.03
GL-46	IA	007	0	Gold Line Metex Etch	H2SO4, Phosphoric Acid	H2SO4, PM10	SOx	PM10			0	0.60	15.54	0.05
GL-48	IA	007	0	Gold Line Desmut	Nitric Acid	NOX, PM10	NOx	PM10		0		0.71	11.75	0.03

Process Tank	Actual Uncontrolled Emissions tons ¹	Actual Emissions NO _x	Actual Emissions SO ₂	Actual Emissions VOC	Actual Emissions PM ₁₀ /PM _{2.5}	Actual Emissions Cr	Actual Emissions HCl	Actual Emissions CN Compounds	Ni Actual Emissions Compounds	Actual Emissions Pb Compounds	Actual Emissions Mn Compounds
ZN-FL-15	0.0000858	0	0	0	0.0000858	0 - See Footnote 2	0	0	0	0	0
ZN-FL-18	0.00131	0	0	0	0.00131	0 - See Footnote 2	0	0	0	0	0
ZN-FL-20	0.000374	0	0	0	0.000374	0.000374	0	0	0	0	0
ZN-FL-23	0.000281	0	0	0	0.000281	0 - See Footnote 2	0	0	0	0	0
ZN-FL-24	0	0	0	0	0	0	0	0	0	0	0
ZN-FL-26	0.0245	0	0	0	0.0245	0	0	0	0	0	0
GL-04	0	0	0	0	0	0	0	0	0	0	0
GL-05	0	0	0	0	0	0	0	0	0	0	0
GL-07	0	0	0	0	0	0	0	0	0	0	0
GL-09	0.00450	0	0	0	0.00450	0	0	0	0.00450	0	0
GL-09	0	0	0	0	0	0	0	0	0	0	0
GL-09	0	0	0	0	0	0	0	0	0	0	0
GL-12	0	0	0	0	0	0	0	0	0	0	0
GL-12	0	0	0	0	0	0	0	0	0	0	0
GL-14	0	0	0	0	0	0	0	0	0	0	0
GL-15	0	0	0	0	0	0	0	0	0	0	0
GL-17	0.00450	0	0	0	0.00450	0	0	0	0.00450	0	0
GL-17	0	0	0	0	0	0	0	0	0	0	0
GL-18	0.00450	0	0	0	0.00450	0	0	0	0.00450	0	0
GL-19	0	0	0	0	0	0	0	0	0	0	0
GL-19	0	0	0	0	0	0	0	0	0	0	0
GL-20	0	0	0	0	0	0	0	0	0	0	0
GL-20	0	0	0	0	0	0	0	0	0	0	0
GL-22	0	0	0	0	0	0	0	0	0	0	0
GL-23	0	0	0	0	0	0	0	0	0	0	0
GL-23	0	0	0	0	0	0	0	0	0	0	0
GL-24	0	0	0	0	0	0	0	0	0	0	0
GL-24	0	0	0	0	0	0	0	0	0	0	0
GL-24	0	0	0	0	0	0	0	0	0	0	0
GL-26	0	0	0	0	0	0	0	0	0	0	0
GL-26	0	0	0	0	0	0	0	0	0	0	0
GL-26	0	0	0	0	0	0	0	0	0	0	0
GL-28	0	0	0	0	0	0	0	0	0	0	0
GL-28	0	0	0	0	0	0	0	0	0	0	0
GL-28	0	0	0	0	0	0	0	0	0	0	0
GL-29	0	0	0	0	0	0	0	0	0	0	0
GL-29	0	0	0	0	0	0	0	0	0	0	0
GL-29	0	0	0	0	0	0	0	0	0	0	0
GL-32	0	0	0	0	0	0	0	0	0	0	0
GL-32	0	0	0	0	0	0	0	0	0	0	0
GL-32	0	0	0	0	0	0	0	0	0	0	0
GL-38	0	0	0	0	0	0	0	0	0	0	0
GL-40	0	0	0	0	0	0	0	0	0	0	0
GL-40	0	0	0	0	0	0	0	0	0	0	0
GL-40	0	0	0	0	0	0	0	0	0	0	0
GL-42	0	0	0	0	0	0	0	0	0	0	0
GL-43	0	0	0	0	0	0	0	0	0	0	0
GL-43	0	0	0	0	0	0	0	0	0	0	0
GL-46	0	0	0	0	0	0	0	0	0	0	0
GL-48	0	0	0	0	0	0	0	0	0	0	0

Process Tank	NO _x PTE Tons/Yr	NO _x PTE Lbs/Hr	SO ₂ PTE Tons/Yr	SO ₂ PTE Lbs/Hr	VOC PTE Tons/Yr	VOC PTE Lbs/Hr	PM/PM ₁₀ /PM _{2.5} PTE Tons/Yr	PM/PM ₁₀ /PM _{2.5} PTE Lbs/Hr	Cr PTE Tons/Yr	Cr PTE Lbs/Hr	HCl PTE Tons/Yr	HCl PTE Lbs/Hr	CN PTE Tons/Yr	CN PTE Lbs/Hr	Ni PTE Tons/Yr	Ni PTE Lbs/Hr	Pb PTE Tons/Yr	Pb PTE Lbs/Hr	Mn PTE Tons/Yr	Mn PTE Lbs/Hr
ZN-FL-15	0	0	0	0	0	0	0.000142	0.0000324	0	0	0	0	0	0	0	0	0	0	0	0
ZN-FL-18	0	0	0	0	0	0	0.00217	0.000495	0	0	0	0	0	0	0	0	0	0	0	0
ZN-FL-20	0	0	0	0	0	0	0.000619	0.000141	0.000619	0.000141	0	0	0	0	0	0	0	0	0	0
ZN-FL-23	0	0	0	0	0	0	0.000465	0.000106	0	0	0	0	0	0	0	0	0	0	0	0
ZN-FL-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZN-FL-26	0	0	0	0	0	0	0.0405	0.00925	0	0	0	0	0	0	0	0	0	0	0	0
GL-04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-09	0	0	0	0	0	0	0.00744	0.00170	0	0	0	0	0	0	0.00744	0.00170	0	0	0	0
GL-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-17	0	0	0	0	0	0	0.00744	0.00170	0	0	0	0	0	0	0.00744	0.00170	0	0	0	0
GL-17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-18	0	0	0	0	0	0	0.00744	0.00170	0	0	0	0	0	0	0.00744	0.00170	0	0	0	0
GL-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Process Tank #	Emission Unit	Stack/Vent SV#	Controlled 1=Yes 0=No	Process	Primary Components	Pollutant Type	Poll Type 1	Poll Type 2	Poll Type 3	RY 2011 Make Up (gallons) ¹	RY 2011 Make Up (pounds) ¹	% Conc. of Reagent	Density (lb/gal)	% Loss Of Makeup
GL-48	IA	007	0	Gold Line Desmut	Sulfuric Acid	SOx, PM10	SOx	PM10		0		1.00	15.54	0.03
GL-48	IA	007	0	Gold Line Desmut	Ammonium Bifluoride	PM10	PM10			0		1.00	DNN	0.03
GL-50	IA	007	0	Gold Line Zincate	Sodium Hydroxide, Zinc Oxide	Zinc, PM10	PM10			0		0.10	12.00	0.01
GL-52	IA	007	0	Gold Line Nitric	Nitric Acid	NOx, PM10	NOx	PM10		0		0.50	11.75	0.03
GL-54	IA	014	1	Gold Line Optics EN 1	Nickel Sulfate, Lactic Acid	Ni, PM10	Ni	PM10		0		0.25	10.51	0.05
GL-54	IA	014	1	Gold Line Optics EN 1	Sodium Hypophosphite	VOC	VOC			0		0.18	10.50	0.05
GL-55	IA	014	1	Gold Line Optics EN 2	Nickel Sulfate, Lactic Acid	Ni, PM10	Ni	PM10		0		0.25	10.51	0.05
GL-55	IA	014	1	Gold Line Optics EN 2	Sodium Hypophosphite	VOC	VOC			0		0.18	10.50	0.05
GL-56	IA	014	1	Gold Line Optics EN 3	Nickel Sulfate, Lactic Acid	Ni, PM10	Ni	PM10		0		0.25	10.51	0.05
GL-56	IA	014	1	Gold Line Optics EN 3	Sodium Hypophosphite	VOC	VOC			0		0.18	10.50	0.05
T-19	IA	007	0	NICKEL HOIST - NICKEL PLATE 3B	NICKEL SALTS	Ni, PM10	Ni	PM10						Emission Factor
D-18	IA	007	0	PHOSPHATE ZINC PHOSPHATE - HEAVY	Heavy Zinc Phos	NOx, PM10	NOx	PM10		146.6		0.45	11.41	0.05
F-12	IA	002	1	NICKEL #2 ACTIVATOR	Sodium Fluoride	PM10	PM10				342	0.05	DNN	0.05
F-33	IA	002	1	PASSIVATE 50% NITRIC ACID	NITRIC ACID	NOx, PM10	NOx	PM10		308		0.50	12.50	0.05
R-15	IA	007	0	PASSIVATE 50% NITRIC ACID	NITRIC ACID	NOx, PM10	NOx	PM10		10		0.55	12.50	0.05
SC-11	IA	009	0	SANCHEM LINE - NITRIC PRE-DIP	NITRIC ACID	NOx, PM10	NOx	PM10		24	0	0.067	12.50	0.05
E-35	IA	002	1	NICKEL #1 ELECTROLESS NICKEL #2	NICKEL COMPOUNDS	Ni, PM10	Ni	PM10		45	0	0.45	10.08	0.03
GL-60	IA	007	0	Gold Line Silver Plate	SILVER	Ag	CN	PM10			0	0.45	2.97	0.02
GL-60	IA	007	0	Gold Line Silver Plate	CYANIDE COMPOUNDS	CN, PM10	CN	PM10		0	0	1.00	12.61	0.02
GL-61	IA	007	0	Gold Line Silver Strike	CYANIDE COMPOUNDS	CN, PM10	CN	PM10		0		1.00	12.61	0.02
ZnNi-09	IA	002	1	Zinc-Nickel Plate	Sodium Hydroxide, Nickel	Ni, PM10	Ni	PM10		0		0.50	11.08	0.05
ZnNi-09	IA	002	1	Zinc-Nickel HCL	HCL	HCl, PM10	HCl	PM10		0		0.25	9.25	0.03
ZnNi-09	IA	009	0	Zinc-Nickel RoHS Clear Chromate	Clear chromate	Cr, PM10	CR	PM10		0		0.24	9.75	0.02
ZN-FL-30	IA	007	0	Sanchem - NITRIC PRE-DIP	NITRIC ACID	NOx, PM10	NOx	PM10		0	0	0.067	12.50	0.05
ZN-FL-31	IA	007	0	Sanchem - NITRIC PRE-DIP #2	NITRIC ACID	NOx, PM10	NOx	PM10		0	0	0.067	12.50	0.05
V-13C	IA	005	1	ZINC BARREL LINE - ZINCE PLATE	SODIUM HYDROXIDE	PM10	PM10			1375		0.500	11.08	0.02
V-13C	IA	005	1	ZINC BARREL LINE - ZINCE PLATE	Protolux 3200 Maintenance*	PM10	PM10			750		1	8.55	0.02

Process Tank	Actual Uncontrolled Emissions tons ¹	Actual Emissions NO _x	Actual Emissions SO ₂	Actual Emissions VOC	Actual Emissions PM/PM ₁₀ /PM _{2.5}	Actual Emissions Cr	Actual Emissions HCl	Actual Emissions CN Compounds	Ni Actual Emissions Compounds	Actual Emissions Pb Compounds	Actual Emissions Mn Compounds
GL-48	0	0	0	0	0	0	0	0	0	0	0
GL-48	0	0	0	0	0	0	0	0	0	0	0
GL-50	0	0	0	0	0	0	0	0	0	0	0
GL-52	0	0	0	0	0	0	0	0	0	0	0
GL-54	0	0	0	0	0	0	0	0	0	0	0
GL-54	0	0	0	0	0	0	0	0	0	0	0
GL-55	0	0	0	0	0	0	0	0	0	0	0
GL-55	0	0	0	0	0	0	0	0	0	0	0
GL-56	0	0	0	0	0	0	0	0	0	0	0
GL-56	0	0	0	0	0	0	0	0	0	0	0
T-19	0.0364	0	0	0	0.0364	0	0	0	0.0364	0	0
D-18	0.0188	0.0188	0	0	0.0188	0	0	0	0	0	0
F-12	0.000428	0	0	0	0.000428	0	0	0	0	0	0
F-33	0.0481	0.0481	0	0	0.0481	0	0	0	0	0	0
R-15	0.00172	0.00172	0	0	0.00172	0	0	0	0	0	0
SC-11	0.000503	0.000503	0	0	0.000503	0	0	0	0	0	0
E-35	0.00306	0	0	0	0.00306	0	0	0	0.00306	0	0
GL-60	0	0	0	0	0	0	0	0	0	0	0
GL-60	0	0	0	0	0	0	0	0	0	0	0
GL-61	0	0	0	0	0	0	0	0	0	0	0
ZnNi-09	0	0	0	0	0	0	0	0	0	0	0
ZnNi-09	0	0	0	0	0	0	0	0	0	0	0
ZnNi-09	0	0	0	0	0	0 - See Footnote 2	0	0	0	0	0
ZN-FL-30	0	0	0	0	0	0	0	0	0	0	0
ZN-FL-31	0	0	0	0	0	0	0	0	0	0	0
V-13C	0.0762	0	0	0	0.0762	0	0	0	0	0	0
V-13C	0.0641	0	0	0	0.0641	0	0	0	0	0	0

Process Tank	NO _x PTE Tons/Yr	NO _x PTE Lbs/Hr	SO ₂ PTE Tons/Yr	SO ₂ PTE Lbs/Hr	VOC PTE Tons/Yr	VOC PTE Lbs/Hr	PM/PM ₁₀ /PM _{2.5} PTE Tons/Yr	PM/PM ₁₀ /PM _{2.5} PTE Lbs/Hr	Cr PTE Tons/Yr	Cr PTE Lbs/Hr	HCl PTE Tons/Yr	HCl PTE Lbs/Hr	CN PTE Tons/Yr	CN PTE Lbs/Hr	Ni PTE Tons/Yr	Ni PTE Lbs/Hr	Pb PTE Tons/Yr	Pb PTE Lbs/Hr	Mn PTE Tons/Yr	Mn PTE Lbs/Hr
GL-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T-19	0	0	0	0	0	0	0.0602	0.0137	0	0	0	0	0	0	0.0602	0.0137	0	0	0	0
D-18	0.0311	0.00711	0	0	0	0	0.0311	0.00711	0	0	0	0	0	0	0	0	0	0	0	0
F-12	0	0	0	0	0	0	0.000707	0.000161	0	0	0	0	0	0	0	0	0	0	0	0
F-33	0.0796	0.0182	0	0	0	0	0.0796	0.0182	0	0	0	0	0	0	0	0	0	0	0	0
R-15	0.00284	0.000649	0	0	0	0	0.00284	0.000649	0	0	0	0	0	0	0	0	0	0	0	0
SC-11	0.000831	0.000190	0	0	0	0	0.000831	0.000190	0	0	0	0	0	0	0	0	0	0	0	0
E-35	0	0	0	0	0	0	0.00507	0.00116	0	0	0	0	0	0	0.00507	0.00116	0	0	0	0
GL-60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GL-61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZnNi-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZnNi-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZnNi-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZN-FL-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZN-FL-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V-13C	0	0	0	0	0	0	0.126	0.0288	0	0	0	0	0	0	0	0	0	0	0	0
V-13C	0	0	0	0	0	0	0.106	0.0242	0	0	0	0	0	0	0	0	0	0	0	0

Nico Products
PTE Calculations for Process Tanks

1. Calculation of Emissions: Emission for all sources were calculated using 2011 usage data.

Exception: PTE for EU 001 (degreaser) is calculated as prescribed in 40 CFR § 63.465

$$\text{PTE (kg solvent/year)} = H \times W \times \text{SAI}$$

Where:

H = hours of operation (8760 hours/year),

W = the working mode uncontrolled emission rate (1.95 kg/hour for batch vapor machines), and

SAI = solvent-air interface (1.6518 square meters for Nico's degreaser*)

$$\text{PTE} = 8760 \times 1.65183 \times 1.95 = 28216 \text{ kg/yr}$$

$$\text{PTE (tons/year)} = \text{PTE (kg/year)} \times 2.2/2000 = 28216 \times 2.2/2000 = 31.1 \text{ TPY}$$

* Note: Per Nico's Stipulation Agreement with the MPCA, the vapor degreaser unit was replaced with a smaller capacity unit on July 1, 2012. The PTE submitted herein are based on the SAI and the design capacities of the new unit.

2. Emissions Estimates of Zero:

Zero (0) - has been entered as the gassing rate for all chromates (Tri-Chrome Plating, Alkaline Zinc Plating and Acid Tin Plating processes) for the following reasons:

- Alkaline Zinc and Acid Tin electroplating processes have been assigned gassing rates of Nil.
- Per AP-42 12.20-7 "The total chromium concentration of trivalent chromium solutions is approximately 1/5th that of hexavalent chromium solutions. As a result of the chemistry of the trivalent chromium electrolyte, misting does not occur during plating as it does during hexavalent chromium plating."
- All chromate (conversion coating) process tanks are "Surface Treatment - Chemical Coloring" as defined on Table 10.70.6 of Industrial Ventilation, 21st Edition 1992.

DNN - Do Not Need

Hours Of Operation:

Assumption: All PM is PM10

Percent Concentration of HCl varies from 24% (concentration brought in bulk) to 37% (full strength concentration from 55-gal drums) depending upon the specific process.

Actual Uncontrolled Emissions:

- gallons in 12 months (extrapolated for 1999) X % concentration of reagent X density X % loss of make up ÷ 2000 = tons in 12 months
- pounds in 12 months X % concentration of reagent X % loss of make up ÷ 2000 = tons in 12 months

Potential to Emit: (1.3 gives a 30% capacity factor)

3. Source

Gassing Rates From:

Industrial Ventilation 21st Edition. 1992.
AACGIH
Cincinnati, Ohio.
Electroplating Engineering Handbook
edited by A. K. Graham
Reinhold Publishing Corp., New York

ELECTROPLATING POTENTIAL TO EMIT CALCULATIONS

Using Emission Factors

Sep-11

Line and Tank ID #	Tank Width (in)	Tank Length (in)	Tank Area (ft ²)	Vent ID	Maximum Vent Rate (SCFM)	Prorated Floor Space of Vent ¹ (ft ²)	Average Area Vent Rate ² (SCFM/ft ²)	Estimated Applied SCFM to Tank ³	Actual Total Tons per Year
Nickel Electroplating:									
Nickel #1 - Nickel Strike	30	32	6.67	008	5830	2200	2.65	17.67	0.00418
Nickel #1 - Nickel Plate	36	90	22.5	008	5830	2200	2.65	59.63	0.01410
Nickel Hoist Line - Nickel Plate	90	66	41.3	007	29835	8000	3.73	153.84	0.03639
Nickel Hoist Line - Nickel Plate	90	66	41.3	008	29835	8000	3.73	153.84	0.03639
Nickel #2 - Semi-Bright Nickel Plate	36	64	16.0	008	5830	2200	2.65	42.40	0.01003
Nickel #2 - Bright Nickel Plate	36	64	16.0	007	29835	8000	3.73	59.67	0.01411
Nickel #2 - Dull Sulfamate Nickel Plate	29	47	9.47	007	29835	8000	3.73	35.30	0.00835
Nickel #2 - Nickel Strike	29	24	4.83	008	5830	2200	2.65	12.81	0.00303
Nickel #2 - Woods Strike	24	24	4.00	008	5830	2200	2.65	10.60	0.00251
Nickel #2 - Sulfamate Nickel Plate	36	64	16.0	007	29835	8000	3.73	59.67	0.01411
Gold Line Woods Strike	21	25	3.65	012	365	70	5.21	19.01	0.00450
Gold Line Sulfamate Nickel	21	25	3.65	012	365	70	5.21	19.01	0.00450
Gold Line Sulfamate Strike	21	25	3.65	012	365	70	5.21	19.01	0.00450

Total Nickel Compound Emissions		Tons	0.15668
		Pounds	313

For Further Questions Contact:

Small Business Assistance Program, Minnesota Pollution Control Agency
Hotline: 1-800-657-3938

Nickel Plating without Scrubber:

0.63 grain/Amp-hr x .01 x scf/min x 525600 min/yr x 1 lb/7000 grains x 1 ton/2000 lb = X tons/year **

** From EPA Document AP42 Electroplating 12.20. July 1996. Table 12.20-4

NOTES:

1. Prorated Floor Space of Vent was estimated using location of other vents and physical boundaries within the facility
2. The Average Area Vent Rate is the maximum rated SCFM of the vent blower divided by prorated floor space (SCFM/ft²).
3. The Estimated Applied SCFM is the Average Area Vent Rate for the specific vent multiplied by the tank surface area (SCFM/ft² * ft²).

KEWANEE BOILER (EU 112)

Natural Gas

Enter Btu/hr maximum heat input **5,020,000**

heat value of natural gas is 1020 Btu/scf

ft³/hr **Btu/hr X 1 ft³/1020 Btu** 4922
ft³/year **ft³/hr X 8760 hr/yr** 43112941

Potential Emissions

		C	D	E	F	G	H	I	J	K	L	M	N	O
		SO ₂	NO _x	VOC	CO	PM	PM ₁₀	CO ₂	N ₂ O	CH ₄	CO ₂ e	Pb	Cr	Ni
		sulfur dioxide	nitrogen oxides	volatile organic compounds	carbon monoxide	particulate matter	particulate matter < 10 microns	carbon dioxide	nitrous oxide	methane	CO ₂ equivalent	lead	chromium	nickel
Emission Factor	(lb/scf)	6.00E-07	1.00E-04	5.50E-06	8.40E-05	7.60E-06	7.60E-06	1.20E-01	2.20E-06	2.30E-06	-	5.00E-10	1.40E-09	2.10E-09
PTE	(tpy)	0.0129	2.16	0.119	1.81	0.164	0.164	2587	0.0474	0.0496	2603	0.0000108	0.0000302	0.0000453
PTE	(lb/hr)	0.00295	0.492	0.0271	0.413	0.0374	0.0374	591	0.0108	0.0113	594	0.00000246	0.00000689	0.0000103

		P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
		Mn	Benzene	As	Be	Ca	Co	Formaldehyde	Hexane	Hg	Toluene	Se	POM	Naphthalene
		manganese	benzene	arsenic	beryllium	cadmium	cobalt	formaldehyde	hexane	mercury	toluene	selenium	POM	naphthalene
Emission Factor	(lb/scf)	3.80E-10	2.10E-09	2.00E-10	1.20E-11	1.10E-09	8.40E-11	7.50E-08	1.80E-06	2.60E-10	3.40E-09	2.40E-11	8.63E-11	6.10E-10
PTE	(tpy)	0.00000819	0.0000453	0.00000431	0.000000259	0.0000237	0.00000181	0.00162	0.0388	0.00000560	0.0000733	0.000000517	0.00000186	0.0000131
PTE	(lb/hr)	0.00000187	0.0000103	0.000000984	0.0000000591	0.00000541	0.000000413	0.000369	0.00886	0.00000128	0.0000167	0.000000118	0.000000425	0.00000300

RY 2010 ft³ Burned **13,015,533**

Actual Emissions

		C	D	E	F	G	H	I	J	K	L	M	N	O
		SO ₂	NO _x	VOC	CO	PM	PM ₁₀	CO ₂	N ₂ O	CH ₄	CO ₂ e	Pb	Cr	Ni
		sulfur dioxide	nitrogen oxides	volatile organic compounds	carbon monoxide	particulate matter	particulate matter < 10 microns	carbon dioxide	nitrous oxide	methane	CO ₂ equivalent	lead	chromium	nickel
Emission Factor	(lb/scf)	6.00E-07	1.00E-04	5.50E-06	8.40E-05	7.60E-06	7.60E-06	1.20E-01	2.20E-06	2.30E-06	-	5.00E-10	1.40E-09	2.10E-09
Actual Emissions	(tpy)	0.00390	0.651	0.0358	0.547	0.0495	0.0495	781	0.0143	0.0150	786	0.00000325	0.00000911	0.0000137

		P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
		Mn	Benzene	As	Be	Ca	Co	Formaldehyde	Hexane	Hg	Toluene	Se	POM	Naphthalene
		manganese	benzene	arsenic	beryllium	cadmium	cobalt	formaldehyde	hexane	mercury	toluene	selenium	POM	naphthalene
Emission Factor	(lb/scf)	3.80E-10	2.10E-09	2.00E-10	1.20E-11	1.10E-09	8.40E-11	7.50E-08	1.80E-06	2.60E-10	3.40E-09	2.40E-11	8.63E-11	6.10E-10
Actual Emissions	(tpy)	0.00000247	0.0000137	0.00000130	0.0000000781	0.00000716	0.000000547	0.000488	0.0117	0.00000169	0.0000221	0.000000156	0.000000562	0.00000397

KEWANEE BOILER (EU 112)

Propane

Enter Btu/hr maximum heat input

5,020,000

Sulfur Content

0.2 %

Heat Value

91,500 Btu/gal

heat value of propane is 91500 Btu/gal

gal/hr Btu/hr X gal/91500 Btu

gal/year $\text{ft}^3/\text{hr} \times 8760 \text{ hr/yr}$

54.9

480603

From EPA document AP-42 1.5:

Sulfur content = 1.8 grains per 1000 ft³ =

$$0.2 \text{ grains}/100 \text{ ft}^3 = 0.2\%$$

Btu = British thermal unit

Potential to Emit

		C	D	E	F	G	H	I	J	K	L
		SO ₂	NO _x	VOC	CO	PM	PM ₁₀	O ₃	N ₂ O	CH ₄	CO ₂ e
		sulfur dioxide	nitrogen oxides	volatile organic compounds	carbon monoxide	particulate matter	particulate matter <10 microns	carbon dioxide	nitrous oxide	methane	CO2 equivalent
Emission Factor	(lb/scf)	2.00E-05	1.30E-02	5.00E-04	7.50E-03	7.00E-04	7.00E-04	1.25E+01	9.00E-04	2.00E-04	-
PTE	(tpy)	0.00481	3.12	0.120	1.80	0.168	0.168	3004	0.216	0.0481	7072
PTE	(lb/hr)	0.00110	0.713	0.0274	0.411	0.0384	0.0384	686	0.0494	0.0110	3071

RY 2010 Gallons Burned 0

Actual Emissions

[illegible]

YORK BOILER (EU 113)

Natural Gas

Enter Btu/hr maximum heat input **4,190,000**

heat value of natural gas is 1020 Btu/scf

ft³/hr **Btu/hr X 1 ft³/1020 Btu** 4108
ft³/year **ft³/hr X 8760 hr/yr** 35984706

Potential Emissions

		C	D	E	F	G	H	I	J	K	L	M	N	O
		SO ₂	NO _x	VOC	CO	PM	PM ₁₀	CO ₂	N ₂ O	CH ₄	CO ₂ e	Pb	Cr	Ni
		sulfur dioxide	nitrogen oxides	volatile organic compounds	carbon monoxide	particulate matter	particulate matter < 10 microns	carbon dioxide	nitrous oxide	methane	CO ₂ equivalent	lead	chromium	nickel
Emission Factor	(lb/scf)	6.00E-07	1.00E-04	5.50E-06	8.40E-05	7.60E-06	7.60E-06	1.20E-01	2.20E-06	2.30E-06	-	5.00E-10	1.40E-09	2.10E-09
PTE	(tpy)	0.0108	1.80	0.0990	1.51	0.137	0.137	2159	0.0396	0.0414	2172	0.00000900	0.0000252	0.0000378
PTE	(lb/hr)	0.00246	0.411	0.0226	0.345	0.0312	0.0312	493	0.00904	0.00945	496	0.00000205	0.00000575	0.00000863

		P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
		Mn	Benzene	As	Be	Ca	Co	Formaldehyde	Hexane	Hg	Toluene	Se	POM	Naphthalene
		manganese	benzene	arsenic	beryllium	cadmium	cobalt	formaldehyde	hexane	mercury	toluene	selenium	POM	naphthalene
Emission Factor	(lb/scf)	3.80E-10	2.10E-09	2.00E-10	1.20E-11	1.10E-09	8.40E-11	7.50E-08	1.80E-06	2.60E-10	3.40E-09	2.40E-11	8.63E-11	6.10E-10
PTE	(tpy)	0.00000684	0.0000378	0.00000360	0.000000216	0.0000198	0.00000151	0.00135	0.0324	0.00000468	0.0000612	0.000000432	0.00000155	0.0000110
PTE	(lb/hr)	0.00000156	0.00000863	0.000000822	0.0000000493	0.00000452	0.000000345	0.000308	0.00739	0.00000107	0.0000140	0.0000000986	0.000000355	0.00000251

RY 2010 ft³ Burned **10,846,277**

Actual Emissions

		C	D	E	F	G	H	I	J	K	L	M	N	O
		SO ₂	NO _x	VOC	CO	PM	PM ₁₀	CO ₂	N ₂ O	CH ₄	CO ₂ e	Pb	Cr	Ni
		sulfur dioxide	nitrogen oxides	volatile organic compounds	carbon monoxide	particulate matter	particulate matter < 10 microns	carbon dioxide	nitrous oxide	methane	CO ₂ equivalent	lead	chromium	nickel
Emission Factor	(lb/scf)	6.00E-07	1.00E-04	5.50E-06	8.40E-05	7.60E-06	7.60E-06	1.20E-01	2.20E-06	2.30E-06	-	5.00E-10	1.40E-09	2.10E-09
Actual Emissions	(tpy)	0.00325	0.542	0.0298	0.456	0.0412	0.0412	651	0.0119	0.0125	655	0.00000271	0.00000759	0.0000114

		P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
		Mn	Benzene	As	Be	Ca	Co	Formaldehyde	Hexane	Hg	Toluene	Se	POM	Naphthalene
		manganese	benzene	arsenic	beryllium	cadmium	cobalt	formaldehyde	hexane	mercury	toluene	selenium	POM	naphthalene
Emission Factor	(lb/scf)	3.80E-10	2.10E-09	2.00E-10	1.20E-11	1.10E-09	8.40E-11	7.50E-08	1.80E-06	2.60E-10	3.40E-09	2.40E-11	8.63E-11	6.10E-10
Actual Emissions	(tpy)	0.00000206	0.0000114	0.00000108	0.0000000651	0.00000597	0.000000456	0.000407	0.00976	0.00000141	0.0000184	0.000000130	0.000000468	0.00000331

GP 011 - Air Make-up Units 1-4 (EUs 261-264)

Enter Btu/hr maximum heat input 2,485,000

heat value of natural gas is 1020 Btu/scf

ft³/hr	Btu/hr X 1 ft³/1020 Btu	2436
ft³/year	ft³/hr X 8760 hr/yr	21341765

Potential Emissions														
		C	D	E	F	G	H	I	J	K	L	M	N	O
		SO ₂	NO _x	VOC	CO	PM	PM ₁₀	CO ₂	N ₂ O	CH ₄	CO ₂ e	Pb	Cr	Ni
		sulfur dioxide	nitrogen oxides	volatile organic compounds	carbon monoxide	particulate matter	particulate matter < 10 microns	carbon dioxide	nitrous oxide	methane	CO ₂ equivalent	lead	chromium	nickel
Emission Factor	(lb/scf)	6.00E-07	1.00E-04	5.50E-06	8.40E-05	7.60E-06	7.60E-06	1.20E-01	2.20E-06	2.30E-06	-	5.00E-10	1.40E-09	2.10E-09
PTE	(tpy)	6.40E-03	1.07E+00	5.87E-02	8.96E-01	8.11E-02	8.11E-02	1.28E+03	2.35E-02	2.45E-02	1.29E+03	5.34E-06	1.49E-05	2.24E-05
PTE	(lb/hr)	1.46E-03	2.44E-01	1.34E-02	2.05E-01	1.85E-02	1.85E-02	2.92E+02	5.36E-03	5.60E-03	2.94E+02	1.22E-06	3.41E-06	5.12E-06

		P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
		Mn	Benzene	As	Be	Ca	Co	Formaldehyde	Hexane	Hg	Toluene	Se	POM	Naphthalene
		manganese	benzene	arsenic	beryllium	cadmium	cobalt	formaldehyde	hexane	mercury	toluene	selenium	POM	naphthalene
Emission Factor	(lb/scf)	3.80E-10	2.10E-09	2.00E-10	1.20E-11	1.10E-09	8.40E-11	7.50E-08	1.80E-06	2.60E-10	3.40E-09	2.40E-11	8.63E-11	6.10E-10
PTE	(tpy)	4.055E-06	2.24E-05	2.13E-06	1.28E-07	1.17E-05	8.96E-07	8.00E-04	1.92E-02	2.77E-06	3.63E-05	2.56E-07	9.21E-07	6.51E-06
PTE	(lb/hr)	9.26E-07	5.12E-06	4.87E-07	2.92E-08	2.68E-06	2.05E-07	1.83E-04	4.39E-03	6.33E-07	8.28E-06	5.85E-08	2.10E-07	1.49E-06

Group Total

		C	D	E	F	G	H	I	J	K	L	M	N	O
		SO₂	NOₓ	VOC	CO	PM	PM₁₀	CO₂	N₂O	CH₄	CO₂e	Pb	Cr	Ni
		sulfur dioxide	nitrogen oxides	volatile organic compounds	carbon monoxide	particulate matter	particulate matter < 10 microns	carbon dioxide	nitrous oxide	methane	CO₂ equivalent	lead	chromium	nickel
PTE	(tpy)	2.56E-02	4.27E+00	2.35E-01	3.59E+00	3.24E-01	3.24E-01	5.12E+03	9.39E-02	9.82E-02	5.15E+03	2.13E-05	5.98E-05	8.96E-05
PTE	(lb/hr)	5.85E-03	9.75E-01	5.36E-02	8.19E-01	7.41E-02	7.41E-02	1.17E+03	2.14E-02	2.24E-02	1.18E+03	4.87E-06	1.36E-05	2.05E-05

		P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
		Mn	Benzene	As	Be	Ca	Co	Formaldehyde	Hexane	Hg	Toluene	Se	POM	Naphthalene
		manganese	benzene	arsenic	beryllium	cadmium	cobalt	formaldehyde	hexane	mercury	toluene	selenium	POM	naphthalene
PTE	(tpy)	1.62E-05	8.96E-05	8.54E-06	5.12E-07	4.70E-05	3.59E-06	3.20E-03	7.68E-02	1.11E-05	1.45E-04	1.02E-06	3.68E-06	2.60E-05
PTE	(lb/hr)	3.70E-06	2.05E-05	1.95E-06	1.17E-07	1.07E-05	8.19E-07	7.31E-04	1.75E-02	2.53E-06	3.31E-05	2.34E-07	8.41E-07	5.94E-06

Attachment #2

Facility Description



FACILITY DESCRIPTION: STACK/VENTS (SV)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Stack/ Vent Status	Added By (Action)	Retired By (Action)	Operator ID for Item	Operators Description	Height of Opening From Ground (feet)	Inside Dimensions		Design Flow Rate at Top (ACFM)	Exit Gas Temperature at Top (°F)	Flow Rate/ Temperature Information Source	Discharge Direction
								Diameter or Length (feet)	Width (feet)				
1	SV 001	Active	PER 001			Degreaser Vent	28	0.83		1450	70	Estimate	Down
2	SV 002	Active	PER 001			Zone 1 Vent/Scrubber	50	2.67		25000	90	Manufacturer	Up, No Cap
3	SV 003	Active	PER 001			Zone 2 Vent/Scrubber	50	2.67		25000	90	Manufacturer	Up, No Cap
4	SV 004	Active	PER 001			Zone 3 Vent/Scrubber	50	2.67		25000	90	Manufacturer	Up, No Cap
5	SV 005	Active	PER 001			Zone 5 Vent/Scrubber	50	2.5		23000	90	Manufacturer	Up, No Cap
6	SV 006	Active	PER 001			Chemical Storage Area Vent	24	3.75	3.75	15920	70	Estimate	Up, With Cap
7	SV 007	Active	PER 001			North Hand Line Area Vent	23	4.92	4.92	29835	70	Estimate	Up, With Cap
8	SV 008	Active	PER 001			South Hand Line Area Vent	23	2.25	2.25	5830	70	Estimate	Up, With Cap
9	SV 009	Active	PER 001			Zinc #1 Auto Area Vent	23	4.92	4.92	29835	70	Estimate	Up, With Cap
10	SV 010	Active	PER 001			Zinc #2 Auto Area Vent	23	3.33	3.33	5830	70	Estimate	Up, With Cap
11	SV 011	Active	EIS 007			Zinc #3 Auto Area Vent	9.25	4	4	14700	70	Estimate	Horizontal
12	SV 012	Active	PER 002			Boiler	29	1.0		1210	345	Estimate	Up, With Cap
13	SV 013	Active	PER 002			Boiler	29	1.0		970	316	Estimate	Up, With Cap
14	SV 014	Active	PER 003			Gold Line Vent/Scrubber	50	2.67		8610	90	Manufacturer	Up, No Cap



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
1	EU 001	Active	PER 001		<input type="checkbox"/>		SV 001 (M)		Degreaser - Halogenated Solvent Cleaner	Finishing Equipment	AH-DU-O-SP Serial #6	3471	900		Gal		
2	EU 001	Active	PER 003		<input type="checkbox"/>	Q-2	SV 001 (M)		Degreaser - Halogenated Solvent Cleaner	Finishing Equipment	AE-DO-SP, Serial #620	3471	450	Solvents	Gal	Each	
3	EU 002	Active	PER 002		<input type="checkbox"/>	A4	SV 002 (M)		Zinc #1 Auto HCl Acid	NICO	NA	3471	565		Gal		
4	EU 002	Removed	PER 003		<input type="checkbox"/>	A4	SV 002 (M)		Zinc #1 Auto HCl Acid	NICO	NA	3471	565		Gal		
5	EU 003	Active	PER 002		<input type="checkbox"/>	A5	SV 002 (M)		Zinc #1 Auto HCl Acid	NICO	NA	3471	213		Gal		
6	EU 003	Removed	PER 003		<input type="checkbox"/>	A5	SV 002 (M)		Zinc #1 Auto HCl Acid	NICO	NA	3471	213		Gal		
7	EU 004	Active	PER 002		<input type="checkbox"/>	B5	SV 002 (M)		Zinc #2 Auto HCl Acid	NICO	NA	3471	920		Gal		
8	EU 004	Removed	PER 003		<input type="checkbox"/>	B5	SV 002 (M)		Zinc #2 Auto HCl Acid	NICO	NA	3471	920		Gal		
9	EU 005	Active	PER 002		<input type="checkbox"/>	B6	SV 002 (M)		Zinc #2 Auto HCl Acid	NICO	NA	3471	920		Gal		
10	EU 005	Removed	PER 003		<input type="checkbox"/>	B6	SV 002 (M)		Zinc #2 Auto HCl Acid	NICO	NA	3471	920		Gal		
11	EU 006	Active	PER 002		<input type="checkbox"/>	B8a	SV 002 (M)		Zinc #2 Alkaline Zinc Plate	NICO	NA	3471	7140		Gal		
12	EU 006	Removed	PER 003		<input type="checkbox"/>	B8a	SV 002 (M)		Zinc #2 Alkaline Zinc Plate	NICO	NA	3471	7140		Gal		
13	EU 007	Active	PER 002		<input type="checkbox"/>	B8b	SV 002 (M)		Zinc #2 Alkaline Zinc Regen	NICO	NA	3471	2712		Gal		
14	EU 007	Removed	PER 003		<input type="checkbox"/>	B8b	SV 002 (M)		Zinc #2 Alkaline Zinc Regen	NICO	NA	3471	2712		Gal		
15	EU 008	Active	PER 002		<input type="checkbox"/>	C4	SV 002 (M)		Nickel #1 PICTAX	NICO	NA	3471	129		Gal		
16	EU 008	Removed	PER 003		<input type="checkbox"/>	C4	SV 002 (M)		Nickel #1 PICTAX	NICO	NA	3471	129		Gal		
17	EU 009	Active	PER 002		<input type="checkbox"/>	C5	SV 002 (M)		Nickel #1 HCl Acid	NICO	NA	3471	129		Gal		
18	EU 009	Removed	PER 003		<input type="checkbox"/>	C5	SV 002 (M)		Nickel #1 HCl Acid	NICO	NA	3471	129		Gal		
19	EU 010	Active	PER 002		<input type="checkbox"/>	C7	SV 008 (O)		Nickel #1 Cyanide Copper Strike	NICO	NA	3471	154		Gal		
20	EU 010	Removed	PER 003		<input type="checkbox"/>	C7	SV 008 (O)		Nickel #1 Cyanide Copper Strike	NICO	NA	3471	154		Gal		
21	EU 011	Active	PER 002		<input type="checkbox"/>	C8	SV 008 (O)		Nickel #1 Cyanide Copper Plate	NICO	NA	3471	247		Gal		
22	EU 011	Removed	PER 003		<input type="checkbox"/>	C8	SV 008 (O)		Nickel #1 Cyanide Copper Plate	NICO	NA	3471	247		Gal		
23	EU 012	Active	PER 002		<input type="checkbox"/>	C15	SV 002 (M)		Nickel #1 Trivalent Chrome Plate	NICO	NA	3471	412		Gal		
24	EU 012	Active	PER 003		<input type="checkbox"/>	E-23	SV 002 (M)		Nickel #1 Tri-Chrome Plate	NICO	NA	3471	219	Material	Gal	Each	

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
1	EU 001	Active	PER 001		08/04/1998					
2	EU 001	Active	PER 003	06/01/2012	07/01/2012					
3	EU 002	Active	PER 002		01/01/1972					
4	EU 002	Removed	PER 003		01/01/1972	01/17/2013				
5	EU 003	Active	PER 002		01/01/1972					
6	EU 003	Removed	PER 003		01/01/1972	01/17/2013				
7	EU 004	Active	PER 002		01/01/1972					
8	EU 004	Removed	PER 003		01/01/1972	01/17/2013				
9	EU 005	Active	PER 002		01/01/1972					
10	EU 005	Removed	PER 003		01/01/1972	01/17/2013				
11	EU 006	Active	PER 002		01/01/1972					
12	EU 006	Removed	PER 003		01/01/1972	01/17/2013				
13	EU 007	Active	PER 002		01/01/1972					
14	EU 007	Removed	PER 003		01/01/1972	01/17/2013				
15	EU 008	Active	PER 002		01/01/1972					
16	EU 008	Removed	PER 003		01/01/1972	01/01/2007				
17	EU 009	Active	PER 002		01/01/1972					
18	EU 009	Removed	PER 003		01/01/1972	01/17/2013				
19	EU 010	Active	PER 002		01/01/1972					
20	EU 010	Removed	PER 003		01/01/1972	01/17/2013				
21	EU 011	Active	PER 002		01/01/1972					
22	EU 011	Removed	PER 003		01/01/1972	01/17/2013				
23	EU 012	Active	PER 002		01/01/1972					
24	EU 012	Active	PER 003		01/01/1972					



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
25	EU 013	Active	PER 002		<input type="checkbox"/>	D4	SV 002 (M)		Nickel #2 HCl Acid	NICO	NA	3471	129		Gal		
26	EU 013	Removed	PER 003		<input type="checkbox"/>	D4	SV 002 (M)		Nickel #2 HCl Acid	NICO	NA	3471	129		Gal		
27	EU 014	Active	PER 002		<input type="checkbox"/>	D5	SV 002 (M)		Nickel #2 HCl Acid	NICO	NA	3471	129		Gal		
28	EU 014	Removed	PER 003		<input type="checkbox"/>	D5	SV 002 (M)		Nickel #2 HCl Acid	NICO	NA	3471	129		Gal		
29	EU 015	Active	PER 002		<input type="checkbox"/>	D14	SV 002 (M)		Nickel #2 Trivalent Chrome Plate	NICO	NA	3471	412		Gal		
30	EU 015	Active	PER 003		<input type="checkbox"/>	F-25	SV 002 (M)		Nickel #2 Tri-Chrome Plate	NICO	NA	3471	281	Material	Gal	Each	
31	EU 016	Active	PER 002		<input type="checkbox"/>	E6	SV 003 (M)		Cadmium HCl Acid	NICO	NA	3471	129		Gal		
32	EU 016	Removed	PER 003		<input type="checkbox"/>	E6	SV 003 (M)		Cadmium HCl Acid	NICO	NA	3471	129		Gal		
33	EU 017	Removed	PER 002		<input type="checkbox"/>	E7	SV 003 (M)		Cadmium HCl Acid	NICO	NA	3471	129		Gal		
34	EU 018	Removed	PER 002		<input type="checkbox"/>	F4	SV 003 (M)		Nickel #3A HCl Acid	NICO	NA	3471	175		Gal		
35	EU 019	Active	PER 002		<input type="checkbox"/>	F5	SV 003 (M)		Nickel #3A HCl Acid	NICO	NA	3471	175		Gal		
36	EU 019	Removed	PER 003		<input type="checkbox"/>	F5	SV 003 (M)		Nickel #3A HCl Acid	NICO	NA	3471	175		Gal		
37	EU 020	Active	PER 002		<input type="checkbox"/>	F13	SV 003 (M)		Nickel #3A Trivalent Chrome Plate	NICO	NA	3471	256		Gal		
38	EU 020	Removed	PER 003		<input type="checkbox"/>	F13	SV 003 (M)		Nickel #3A Trivalent Chrome Plate	NICO	NA	3471	256		Gal		
39	EU 021	Active	PER 002		<input type="checkbox"/>	G4	SV 003 (M)		Nickel #3B HCl Acid	NICO	NA	3471	82		Gal		
40	EU 021	Removed	PER 003		<input type="checkbox"/>	G4	SV 003 (M)		Nickel #3B HCl Acid	NICO	NA	3471	82		Gal		
41	EU 022	Active	PER 002		<input type="checkbox"/>	H6	SV 003 (M)		Zinc Handline HCl Acid	NICO	NA	3471	129		Gal		
42	EU 022	Removed	PER 003		<input type="checkbox"/>	H6	SV 003 (M)		Zinc Handline HCl Acid	NICO	NA	3471	129		Gal		
43	EU 023	Active	PER 002		<input type="checkbox"/>	H7	SV 003 (M)		Zinc Handline HCl Acid	NICO	NA	3471	129		Gal		
44	EU 023	Removed	PER 003		<input type="checkbox"/>	H7	SV 003 (M)		Zinc Handline HCl Acid	NICO	NA	3471	129		Gal		
45	EU 024	Active	PER 002		<input type="checkbox"/>	H11	SV 003 (M)		Zinc Handline Alkaline Zinc Plate	NICO	NA	3471	1322		Gal		
46	EU 024	Removed	PER 003		<input type="checkbox"/>	H11	SV 003 (M)		Zinc Handline Alkaline Zinc Plate	NICO	NA	3471	1322		Gal		
47	EU 025	Active	PER 002		<input type="checkbox"/>	H15	SV 003 (M)		Zinc Handline Black Chromate	NICO	NA	3471	129		Gal		
48	EU 025	Removed	PER 003		<input type="checkbox"/>	H15	SV 003 (M)		Zinc Handline Black Chromate	NICO	NA	3471	129		Gal		
49	EU 026	Active	PER 002		<input type="checkbox"/>	I4	SV 003 (M)		Tin Handline HCl Acid (Steel)	NICO	NA	3471	82		Gal		

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
25	EU 013	Active	PER 002		01/01/1972					
26	EU 013	Removed	PER 003		01/01/1972	01/17/2013				
27	EU 014	Active	PER 002		01/01/1972					
28	EU 014	Removed	PER 003		01/01/1972	01/01/2007				
29	EU 015	Active	PER 002		01/01/1972					
30	EU 015	Active	PER 003		01/01/1972					
31	EU 016	Active	PER 002		01/01/1972					
32	EU 016	Removed	PER 003		01/01/1972	01/17/2013				
33	EU 017	Removed	PER 002		01/01/1972	01/01/2001				
34	EU 018	Removed	PER 002		01/01/1972	03/01/2004				
35	EU 019	Active	PER 002		01/01/1972					
36	EU 019	Removed	PER 003		01/01/1972	04/01/2007				
37	EU 020	Active	PER 002		01/01/1972					
38	EU 020	Removed	PER 003		01/01/1972	04/01/2007				
39	EU 021	Active	PER 002		01/01/1972					
40	EU 021	Removed	PER 003		01/01/1972	04/01/2007				
41	EU 022	Active	PER 002		01/01/1972					
42	EU 022	Removed	PER 003		01/01/1972	01/17/2013				
43	EU 023	Active	PER 002		01/01/1972					
44	EU 023	Removed	PER 003		01/01/1972	01/17/2013				
45	EU 024	Active	PER 002		01/01/1972					
46	EU 024	Removed	PER 003		01/01/1972	01/17/2013				
47	EU 025	Active	PER 002		01/01/1972					
48	EU 025	Removed	PER 003		01/01/1972	01/17/2013				
49	EU 026	Active	PER 002		01/01/1972					



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
50	EU 026	Removed	PER 003		<input type="checkbox"/>	I4	SV 003 (M)		Tin Handline HCl Acid (Steel)	NICO	NA	3471	82		Gal		
51	EU 027	Active	PER 002		<input type="checkbox"/>	I5	SV 003 (M)		Tin Handline HCl Acid (Copper)	NICO	NA	3471	82		Gal		
52	EU 027	Retired	PER 003		<input type="checkbox"/>	I5	SV 003 (M)		Tin Handline HCl Acid (Copper)	NICO	NA	3471	82		Gal		
53	EU 028	Active	PER 002		<input type="checkbox"/>	I9	SV 003 (M)		Tin Handline Strip	NICO	NA	3471	82		Gal		
54	EU 028	Removed	PER 003		<input type="checkbox"/>	I9	SV 003 (M)		Tin Handline Strip	NICO	NA	3471	82		Gal		
55	EU 029	Active	PER 002		<input type="checkbox"/>	J2	SV 003 (M)		Passivate Permanganate	NICO	NA	3471	67		Gal		
56	EU 029	Removed	PER 003		<input type="checkbox"/>	J2	SV 003 (M)		Passivate Permanganate	NICO	NA	3471	67		Gal		
57	EU 030	Active	PER 002		<input type="checkbox"/>	J11	SV 003 (M)		Passivate Dichromate - Type II	NICO	NA	3471	162		Gal		
58	EU 030	Removed	PER 003		<input type="checkbox"/>	J11	SV 003 (M)		Passivate Dichromate - Type II	NICO	NA	3471	162		Gal		
59	EU 031	Active	PER 002		<input type="checkbox"/>	J13	SV 003 (M)		Passivate Caustic	NICO	NA	3471	82		Gal		
60	EU 031	Removed	PER 003		<input type="checkbox"/>	J13	SV 003 (M)		Passivate Caustic	NICO	NA	3471	82		Gal		
61	EU 032	Active	PER 002		<input type="checkbox"/>	L4	SV 003 (M)		Miscellaneous Handline Zinc Regen	NICO	NA	3471	324		Gal		
62	EU 032	Removed	PER 003		<input type="checkbox"/>	L4	SV 003 (M)		Miscellaneous Handline Zinc Regen	NICO	NA	3471	324		Gal		
63	EU 033	Removed	PER 002		<input type="checkbox"/>	N1	SV 003 (M)		Aluminum Handline Dichromate #2	NICO	NA	3471	82		Gal		
64	EU 034	Removed	PER 002		<input type="checkbox"/>	N2	SV 003 (M)		Zinc Handline Stripper	NICO	NA	3471	82		Gal		
65	EU 035	Removed	PER 002		<input type="checkbox"/>	N4	SV 003 (M)		Aluminum Handline Acid Etch	NICO	NA	3471	82		Gal		
66	EU 036	Active	PER 002		<input type="checkbox"/>	N5	SV 003 (M)		Aluminum Handline 50% Nitric Acid	NICO	NA	3471	82		Gal		
67	EU 036	Removed	PER 003		<input type="checkbox"/>	N5	SV 003 (M)		Aluminum Handline 50% Nitric Acid	NICO	NA	3471	82		Gal		
68	EU 037	Active	PER 002		<input type="checkbox"/>	N3	SV 003 (M)		Aluminum Handline Combination Acid	NICO	NA	3471	82		Gal		
69	EU 037	Removed	PER 003		<input type="checkbox"/>	N3	SV 003 (M)		Aluminum Handline Combination Acid	NICO	NA	3471	82		Gal		
70	EU 038	Active	PER 002		<input type="checkbox"/>	O13	SV 003 (M)		Strips HCl Acid	NICO	NA	3471	82		Gal		
71	EU 038	Removed	PER 003		<input type="checkbox"/>	O13	SV 003 (M)		Strips HCl Acid	NICO	NA	3471	82		Gal		
72	EU 039	Active	PER 002		<input type="checkbox"/>	O11	SV 011 (O)		Strips Chromic Acid	NICO	NA	3471	82		Gal		

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
50	EU 026	Removed	PER 003		01/01/1972	01/17/2013				
51	EU 027	Active	PER 002		01/01/1972					
52	EU 027	Retired	PER 003		01/01/1972	01/17/2013				
53	EU 028	Active	PER 002		01/01/1972					
54	EU 028	Removed	PER 003		01/01/1972	01/17/2013				
55	EU 029	Active	PER 002		01/01/1972					
56	EU 029	Removed	PER 003		01/01/1972	01/17/2013				
57	EU 030	Active	PER 002		01/01/1972					
58	EU 030	Removed	PER 003		01/01/1972	01/17/2013				
59	EU 031	Active	PER 002		01/01/1972					
60	EU 031	Removed	PER 003		01/01/1972	01/17/2013				
61	EU 032	Active	PER 002		01/01/1972					
62	EU 032	Removed	PER 003		01/01/1972	01/17/2013				
63	EU 033	Removed	PER 002		01/01/1972	01/01/2001				
64	EU 034	Removed	PER 002		01/01/1972	01/01/2001				
65	EU 035	Removed	PER 002		01/01/1972	01/01/2001				
66	EU 036	Active	PER 002		01/01/1972					
67	EU 036	Removed	PER 003		01/01/1972	04/01/2007				
68	EU 037	Active	PER 002		01/01/1972					
69	EU 037	Removed	PER 003		01/01/1972	04/01/2007				
70	EU 038	Active	PER 002		01/01/1972					
71	EU 038	Removed	PER 003		01/01/1972	04/01/2007				
72	EU 039	Active	PER 002		01/01/1972					



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
73	EU 039	Removed	PER 003		<input type="checkbox"/>	O11	SV 011 (O)		Strips Chromic Acid	NICO	NA	3471	82		Gal		
74	EU 040	Removed	PER 002		<input type="checkbox"/>	T4	SV 003 (M)		Tin #4 HCl Acid	NICO	NA	3471	281		Gal		
75	EU 041	Removed	PER 002		<input type="checkbox"/>	T5	SV 003 (M)		Tin #4 HCl Acid	NICO	NA	3471	281		Gal		
76	EU 042	Removed	PER 002		<input type="checkbox"/>	T6	SV 003 (M)		Tin #4 Forstrip TLC	NICO	NA	3471	281		Gal		
77	EU 043	Active	PER 002		<input type="checkbox"/>	K4	SV 005 (M)		Zinc #3 Auto HCl Acid	NICO	NA	3471	1421		Gal		
78	EU 043	Active	PER 003		<input type="checkbox"/>	K-6	SV 005 (M)		Zinc #3 Auto HCl Acid	NICO	NA	3471	1421	Material	Gal	Each	
79	EU 044	Active	PER 002		<input type="checkbox"/>	K7a	SV 005 (M)		Zinc #3 Auto Alkaline Zinc Plate	NICO	NA	3471	3553		Gal		
80	EU 044	Removed	PER 003		<input type="checkbox"/>	K7a	SV 005 (M)		Zinc #3 Auto Alkaline Zinc Plate	NICO	NA	3471	3553		Gal		
81	EU 045	Active	PER 002		<input type="checkbox"/>	K7b	SV 005 (M)		Zinc #3 Auto Alkaline Zinc Plate	NICO	NA	3471	3553		Gal		
82	EU 045	Removed	PER 003		<input type="checkbox"/>	K7b	SV 005 (M)		Zinc #3 Auto Alkaline Zinc Plate	NICO	NA	3471	3553		Gal		
83	EU 046	Active	PER 002		<input type="checkbox"/>	K7c	SV 005 (M)		Zinc #3 Auto Alkaline Zinc Plate	NICO	NA	3471	2712		Gal		
84	EU 046	Removed	PER 003		<input type="checkbox"/>	K7c	SV 005 (M)		Zinc #3 Auto Alkaline Zinc Plate	NICO	NA	3471	2712		Gal		
85	EU 047	Removed	PER 002		<input type="checkbox"/>	K11	SV 004 (M)		Zinc #3 Auto Black Chromate	NICO	NA	3471	655		Gal		
86	EU 048	Active	PER 002		<input type="checkbox"/>	K21	SV 011 (O)		Zinc #3 Auto Regen HCl	NICO	NA	3471	271		Gal		
87	EU 048	Removed	PER 003		<input type="checkbox"/>	K21	SV 011 (O)		Zinc #3 Auto Regen HCl	NICO	NA	3471	271		Gal		
88	EU 049	Active	PER 002		<input type="checkbox"/>	O1	SV 005 (M)		Nickel Rack Strip	NICO	NA	3471	247		Gal		
89	EU 049	Removed	PER 003		<input type="checkbox"/>	O1	SV 005 (M)		Nickel Rack Strip	NICO	NA	3471	247		Gal		
90	EU 050	Active	PER 002		<input type="checkbox"/>	O5	SV 005 (M)		Tin #4 Rack Strip	NICO	NA	3471	337		Gal		
91	EU 050	Removed	PER 003		<input type="checkbox"/>	O5	SV 005 (M)		Tin #4 Rack Strip	NICO	NA	3471	337		Gal		
92	EU 051	Active	PER 002		<input type="checkbox"/>	S0a	SV 004 (M)		Zinc #4 Carrier Strip HCl Acid	NICO	NA	3471	30		Gal		
93	EU 051	Removed	PER 003		<input type="checkbox"/>	S0a	SV 004 (M)		Zinc #4 Carrier Strip HCl Acid	NICO	NA	3471	30		Gal		
94	EU 052	Removed	PER 002		<input type="checkbox"/>	S2	SV 005 (M)		Zinc #4 Diverstrip 4900	NICO	NA	3471	1219		Gal		
95	EU 053	Active	PER 002		<input type="checkbox"/>	S6	SV 004 (M)		Zinc #4 HCl Acid	NICO	NA	3471	2437		Gal		
96	EU 053	Removed	PER 003		<input type="checkbox"/>	S6	SV 004 (M)		Zinc #4 HCl Acid	NICO	NA	3471	2437		Gal		

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
73	EU 039	Removed	PER 003		01/01/1972	01/17/2013				
74	EU 040	Removed	PER 002		10/01/1999	06/01/2003				
75	EU 041	Removed	PER 002		10/01/1999	10/01/2000				
76	EU 042	Removed	PER 002		10/01/1999	03/01/2002				
77	EU 043	Active	PER 002		01/01/1972					
78	EU 043	Active	PER 003		01/01/1972					
79	EU 044	Active	PER 002		01/01/1972					
80	EU 044	Removed	PER 003		01/01/1972	01/17/2013				
81	EU 045	Active	PER 002		01/01/1972					
82	EU 045	Removed	PER 003		01/01/1972	01/17/2013				
83	EU 046	Active	PER 002		01/01/1972					
84	EU 046	Removed	PER 003		01/01/1972	01/17/2013				
85	EU 047	Removed	PER 002		01/01/1972	01/01/2001				
86	EU 048	Active	PER 002		01/01/1972					
87	EU 048	Removed	PER 003		01/01/1972	01/17/2013				
88	EU 049	Active	PER 002		01/01/1972					
89	EU 049	Removed	PER 003		01/01/1972	04/01/2007				
90	EU 050	Active	PER 002		10/01/1999					
91	EU 050	Removed	PER 003		10/01/1999	04/01/2007				
92	EU 051	Active	PER 002		01/01/1996					
93	EU 051	Removed	PER 003		01/01/1996	01/17/2013				
94	EU 052	Removed	PER 002		01/01/1996	01/01/2001				
95	EU 053	Active	PER 002		01/01/1996					
96	EU 053	Removed	PER 003		01/01/1996	01/17/2013				



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
97	EU 054	Active	PER 002		<input type="checkbox"/>	S10	SV 004 (M)		Zinc #4 HCl Acid	NICO	NA	3471	2437		Gal		
98	EU 054	Removed	PER 003		<input type="checkbox"/>	S10	SV 004 (M)		Zinc #4 HCl Acid	NICO	NA	3471	2437		Gal		
99	EU 055	Active	PER 002		<input type="checkbox"/>	S13	SV 004 (M)		Zinc #4 Alkaline Zinc Regen	NICO	NA	3471	2712		Gal		
100	EU 055	Removed	PER 003		<input type="checkbox"/>	S13	SV 004 (M)		Zinc #4 Alkaline Zinc Regen	NICO	NA	3471	2712		Gal		
101	EU 056	Active	PER 002		<input type="checkbox"/>	S15	SV 004 (M)		Zinc #4 Regen HCl Acid	NICO	NA	3471	271		Gal		
102	EU 056	Removed	PER 003		<input type="checkbox"/>	S15	SV 004 (M)		Zinc #4 Regen HCl Acid	NICO	NA	3471	271		Gal		
103	EU 057	Active	PER 002		<input type="checkbox"/>	S17a	SV 004 (M)		Zinc #4 Alkaline Zinc Plate	NICO	NA	3471	3011		Gal		
104	EU 057	Removed	PER 003		<input type="checkbox"/>	S17a	SV 004 (M)		Zinc #4 Alkaline Zinc Plate	NICO	NA	3471	3011		Gal		
105	EU 058	Active	PER 002		<input type="checkbox"/>	S17b	SV 004 (M)		Zinc #4 Alkaline Zinc Plate	NICO	NA	3471	3011		Gal		
106	EU 058	Removed	PER 003		<input type="checkbox"/>	S17b	SV 004 (M)		Zinc #4 Alkaline Zinc Plate	NICO	NA	3471	3011		Gal		
107	EU 059	Active	PER 002		<input type="checkbox"/>	S17c	SV 004 (M)		Zinc #4 Alkaline Zinc Plate	NICO	NA	3471	3011		Gal		
108	EU 059	Removed	PER 003		<input type="checkbox"/>	S17c	SV 004 (M)		Zinc #4 Alkaline Zinc Plate	NICO	NA	3471	3011		Gal		
109	EU 060	Active	PER 002		<input type="checkbox"/>	S20	SV 004 (M)		Zinc #4 Clear Chromate	NICO	NA	3471	1219		Gal		
110	EU 060	Removed	PER 003		<input type="checkbox"/>	S20	SV 004 (M)		Zinc #4 Clear Chromate	NICO	NA	3471	1219		Gal		
111	EU 061	Active	PER 002		<input type="checkbox"/>	S22	SV 004 (M)		Zinc #4 Yellow Chromate	NICO	NA	3471	1219		Gal		
112	EU 061	Removed	PER 003		<input type="checkbox"/>	S22	SV 004 (M)		Zinc #4 Yellow Chromate	NICO	NA	3471	1219		Gal		
113	EU 062	Removed	PER 002		<input type="checkbox"/>	S23	SV 005 (M)		Zinc #4 Yellow Chromate	NICO	NA	3471	1219		Gal		
114	EU 063	Active	PER 001		<input type="checkbox"/>	E5			Cadmium Udyprep 340	NICO	NA	3471	82		Gal		
115	EU 063	Removed	PER 003		<input type="checkbox"/>	E5			Cadmium Udyprep 340	NICO	NA	3471	82		Gal		
116	EU 064	Active	PER 001		<input type="checkbox"/>	E10	SV 007 (O)		Cadmium Cadmium Cyanide Barrel Plate	NICO	NA	3471	934		Gal		
117	EU 064	Removed	PER 003		<input type="checkbox"/>	E10			Cadmium Cadmium Cyanide Barrel Plate	NICO	NA	3471	934		Gal		
118	EU 065	Removed	PER 002		<input type="checkbox"/>	E11			Cadmium Cadmium Cyanide Rack Plate	NICO	NA	3471	999		Gal		
119	EU 066	Active	PER 002		<input type="checkbox"/>	E16	SV 007 (O)		Cadmium Yellow Chromate	NICO	NA	3471	129		Gal		
120	EU 066	Removed	PER 003		<input type="checkbox"/>	E16			Cadmium Yellow Chromate	NICO	NA	3471	129		Gal		
121	EU 067	Active	PER 002		<input type="checkbox"/>	E15	SV 007 (O)		Cadmium Clear Chromate	NICO	NA	3471	129		Gal		

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
97	EU 054	Active	PER 002		01/01/1996					
98	EU 054	Removed	PER 003		01/01/1996	01/17/2013				
99	EU 055	Active	PER 002		01/01/1996					
100	EU 055	Removed	PER 003		01/01/1996	01/17/2013				
101	EU 056	Active	PER 002		01/01/1996					
102	EU 056	Removed	PER 003		01/01/1996	01/17/2013				
103	EU 057	Active	PER 002		01/01/1996					
104	EU 057	Removed	PER 003		01/01/1996	01/17/2013				
105	EU 058	Active	PER 002		01/01/1996					
106	EU 058	Removed	PER 003		01/01/1996	01/17/2013				
107	EU 059	Active	PER 002		01/01/1996					
108	EU 059	Removed	PER 003		01/01/1996	01/17/2013				
109	EU 060	Active	PER 002		01/01/1996					
110	EU 060	Removed	PER 003		01/01/1996	01/17/2013				
111	EU 061	Active	PER 002		01/01/1996					
112	EU 061	Removed	PER 003		01/01/1996	01/17/2013				
113	EU 062	Removed	PER 002		01/01/1996	01/01/2003				
114	EU 063	Active	PER 001		01/01/1972					
115	EU 063	Removed	PER 003		01/01/1972	01/01/2007				
116	EU 064	Active	PER 001		01/01/1972					
117	EU 064	Removed	PER 003		01/01/1972	01/01/2007				
118	EU 065	Removed	PER 002		01/01/1972	01/01/2001				
119	EU 066	Active	PER 002		01/01/1972					
120	EU 066	Removed	PER 003		01/01/1972	01/01/2007				
121	EU 067	Active	PER 002		01/01/1972					



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
122	EU 067	Removed	PER 003		<input type="checkbox"/>	E15			Cadmium Clear Chromate	NICO	NA	3471	129		Gal		
123	EU 068	Removed	PER 002		<input type="checkbox"/>	F7			Nickel #3A Cyanide Copper Plate	NICO	NA	3471	692		Gal		
124	EU 069	Removed	PER 002		<input type="checkbox"/>	F10			Nickel #3A Nickel Plate	NICO	NA	3471	1823		Gal		
125	EU 070	Active	PER 001		<input type="checkbox"/>	H13	SV 007 (O)		Zinc Handline Clear Chromate	NICO	NA	3471	129		Gal		
126	EU 070	Removed	PER 003		<input type="checkbox"/>	H13			Zinc Handline Clear Chromate	NICO	NA	3471	129		Gal		
127	EU 071	Active	PER 001		<input type="checkbox"/>	H14	SV 007 (O)		Zinc Handline Yellow Chromate	NICO	NA	3471	129		Gal		
128	EU 071	Removed	PER 003		<input type="checkbox"/>	H14			Zinc Handline Yellow Chromate	NICO	NA	3471	129		Gal		
129	EU 072	Active	PER 001		<input type="checkbox"/>	I11	SV 007 (O)		Tin Handline Iridite	NICO	NA	3471	82		Gal		
130	EU 072	Removed	PER 003		<input type="checkbox"/>	I11			Tin Handline Iridite	NICO	NA	3471	82		Gal		
131	EU 073	Active	PER 001		<input type="checkbox"/>	I14	SV 007 (O)		Tin Handline Acid Tin #2 Plate	NICO	NA	3471	219		Gal		
132	EU 073	Removed	PER 003		<input type="checkbox"/>	I14			Tin Handline Acid Tin #2 Plate	NICO	NA	3471	219		Gal		
133	EU 074	Active	PER 001		<input type="checkbox"/>	I16	SV 007 (O)		Tin Handline Acid Tin #1 Plate	NICO	NA	3471	761		Gal		
134	EU 074	Removed	PER 003		<input type="checkbox"/>	I16			Tin Handline Acid Tin #1 Plate	NICO	NA	3471	761		Gal		
135	EU 075	Active	PER 001		<input type="checkbox"/>	J10	SV 007 (O)		Passivate 50% Nitric Acid	NICO	NA	3471	129		Gal		
136	EU 075	Removed	PER 003		<input type="checkbox"/>	J10			Passivate 50% Nitric Acid	NICO	NA	3471	129		Gal		
137	EU 076	Active	PER 001		<input type="checkbox"/>	J15	SV 007 (O)		Passivate Oakite 31	NICO	NA	3471	82		Gal		
138	EU 076	Removed	PER 003		<input type="checkbox"/>	J15			Passivate Oakite 31	NICO	NA	3471	82		Gal		
139	EU 077	Removed	PER 002		<input type="checkbox"/>	L1			Miscellaneous Handline Cyanide Copper #5	NICO	NA	3471	137		Gal		
140	EU 078	Active	PER 002		<input type="checkbox"/>	L4b	SV 007 (O)		Miscellaneous Handline HCl Acid	NICO	NA	3471	60		Gal		
141	EU 078	Removed	PER 003		<input type="checkbox"/>	L4b			Miscellaneous Handline HCl Acid	NICO	NA	3471	60		Gal		
142	EU 079	Active	PER 001		<input type="checkbox"/>	L6	SV 007 (O)		Miscellaneous Handline Cyanide Copper #4	NICO	NA	3471	274		Gal		
143	EU 079	Removed	PER 003		<input type="checkbox"/>	L6			Miscellaneous Handline Cyanide Copper #4	NICO	NA	3471	274		Gal		
144	EU 080	Active	PER 001		<input type="checkbox"/>	L7	SV 007 (O)		Miscellaneous Handline Zinc Chloride Plate	NICO	NA	3471	291		Gal		

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
122	EU 067	Removed	PER 003		01/01/1972	01/01/2007				
123	EU 068	Removed	PER 002		01/01/1972	12/01/2002				
124	EU 069	Removed	PER 002		01/01/1972	12/01/2002				
125	EU 070	Active	PER 001		01/01/1972					
126	EU 070	Removed	PER 003		01/01/1972	01/17/2013				
127	EU 071	Active	PER 001		01/01/1972					
128	EU 071	Removed	PER 003		01/01/1972	01/17/2013				
129	EU 072	Active	PER 001		01/01/1972					
130	EU 072	Removed	PER 003		01/01/1972	01/17/2013				
131	EU 073	Active	PER 001		01/01/1972					
132	EU 073	Removed	PER 003		01/01/1972	01/17/2013				
133	EU 074	Active	PER 001		01/01/1972					
134	EU 074	Removed	PER 003		01/01/1972	01/17/2013				
135	EU 075	Active	PER 001		01/01/1972					
136	EU 075	Removed	PER 003		01/01/1972	01/17/2013				
137	EU 076	Active	PER 001		01/01/1972					
138	EU 076	Removed	PER 003		01/01/1972	01/17/2013				
139	EU 077	Removed	PER 002		01/01/1972	12/01/2002				
140	EU 078	Active	PER 002		01/01/1972					
141	EU 078	Removed	PER 003		01/01/1972	01/17/2013				
142	EU 079	Active	PER 001		01/01/1972					
143	EU 079	Removed	PER 003		01/01/1972	04/01/2007				
144	EU 080	Active	PER 001		01/01/1972					



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
145	EU 080	Removed	PER 003		<input type="checkbox"/>	L7			Miscellaneous Handline Zinc Chloride Plate	NICO	NA	3471	291		Gal		
146	EU 081	Removed	PER 002		<input type="checkbox"/>	M1			Zinc Phosphate Handline Zinc Plate	NICO	NA	3471	110		Gal		
147	EU 082	Removed	PER 002		<input type="checkbox"/>	M3			Zinc Phosphate Handline Black	NICO	NA	3471	82		Gal		
148	EU 083	Active	PER 002		<input type="checkbox"/>	N11	SV 007 (O)		Aluminum Handline Nickel Chloride Strike	NICO	NA	3471	90		Gal		
149	EU 083	Removed	PER 003		<input type="checkbox"/>	N11			Aluminum Handline Nickel Chloride Strike	NICO	NA	3471	90		Gal		
150	EU 084	Active	PER 001		<input type="checkbox"/>	N9	SV 007 (O)		Aluminum Handline Zincate	NICO	NA	3471	82		Gal		
151	EU 084	Removed	PER 003		<input type="checkbox"/>	N9			Aluminum Handline Zincate	NICO	NA	3471	82		Gal		
152	EU 085	Active	PER 002		<input type="checkbox"/>	O3	SV 011 (O)		Rack Strip #3	NICO	NA	3471	337		Gal		
153	EU 085	Removed	PER 003		<input type="checkbox"/>	O3	SV 011 (O)		Rack Strip #3	NICO	NA	3471	337		Gal		
154	EU 086	Removed	PER 002		<input type="checkbox"/>	O7			Strips Acid Tin #3 Plate	NICO	NA	3471	206		Gal		
155	EU 087	Removed	PER 002		<input type="checkbox"/>	O8			Strips Permanganate	NICO	NA	3471	62		Gal		
156	EU 088	Removed	PER 002		<input type="checkbox"/>	O9			Strips Diverstrip 4900	NICO	NA	3471	334		Gal		
157	EU 089	Removed	PER 002		<input type="checkbox"/>	O12			Strips Diverstrip 4900	NICO	NA	3471	309		Gal		
158	EU 090	Removed	PER 002		<input type="checkbox"/>	R1			Cadmium Olive Drab	NICO	NA	3471	51		Gal		
159	EU 091	Active	PER 001		<input type="checkbox"/>	R2	SV 007 (O)		Zinc Handline Olive Drab	NICO	NA	3471	129		Gal		
160	EU 091	Removed	PER 003		<input type="checkbox"/>	R2			Zinc Handline Olive Drab	NICO	NA	3471	129		Gal		
161	EU 092	Active	PER 001		<input type="checkbox"/>	T8	SV 007 (O)		Tin #4 Cyanide Copper #6	NICO	NA	3471	746		Gal		
162	EU 092	Removed	PER 003		<input type="checkbox"/>	T8			Tin #4 Cyanide Copper #6	NICO	NA	3471	746		Gal		
163	EU 093	Active	PER 001		<input type="checkbox"/>	T14	SV 007 (O)		Tin #4 Acid Tin #4 Plate	NICO	NA	3471	1157		Gal		
164	EU 093	Removed	PER 003		<input type="checkbox"/>	T14			Tin #4 Acid Tin #4 Plate	NICO	NA	3471	1157		Gal		
165	EU 094	Active	PER 001		<input type="checkbox"/>	C10	SV 008 (O)		Nickel #1 Cyanide Brass Plate	NICO	NA	3471	129		Gal		
166	EU 094	Removed	PER 003		<input type="checkbox"/>	C10			Nickel #1 Cyanide Brass Plate	NICO	NA	3471	129		Gal		
167	EU 095	Active	PER 001		<input type="checkbox"/>	C11	SV 008 (O)		Nickel #1 Nickel Strike	NICO	NA	3471	129		Gal		
168	EU 095	Removed	PER 003		<input type="checkbox"/>	C11			Nickel #1 Nickel Strike	NICO	NA	3471	129		Gal		
169	EU 096	Active	PER 001		<input type="checkbox"/>	C12	SV 008 (O)		Nickel #1 Nickel Plate	NICO	NA	3471	1118		Gal		

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
145	EU 080	Removed	PER 003		01/01/1972	04/01/2007				
146	EU 081	Removed	PER 002		01/01/1972	05/01/2004				
147	EU 082	Removed	PER 002		01/01/1972	05/01/2004				
148	EU 083	Active	PER 002		01/01/1972					
149	EU 083	Removed	PER 003		01/01/1972	04/01/2007				
150	EU 084	Active	PER 001		01/01/1972					
151	EU 084	Removed	PER 003		01/01/1972	04/01/2007				
152	EU 085	Active	PER 002		01/01/1972					
153	EU 085	Removed	PER 003		01/01/1972	01/17/2013				
154	EU 086	Removed	PER 002		01/01/1972	05/01/2002				
155	EU 087	Removed	PER 002		01/01/1972	05/01/2002				
156	EU 088	Removed	PER 002		01/01/1972	05/01/2002				
157	EU 089	Removed	PER 002		01/01/1972	05/01/2002				
158	EU 090	Removed	PER 002		01/01/1972	05/01/2002				
159	EU 091	Active	PER 001		01/01/1972					
160	EU 091	Removed	PER 003		01/01/1972	04/01/2007				
161	EU 092	Active	PER 001		10/01/1999					
162	EU 092	Removed	PER 003		10/01/1999	01/17/2013				
163	EU 093	Active	PER 001		10/01/1999					
164	EU 093	Removed	PER 003		10/01/1999	04/01/2007				
165	EU 094	Active	PER 001		01/01/1972					
166	EU 094	Removed	PER 003		01/01/1972	04/01/2007				
167	EU 095	Active	PER 001		01/01/1972					
168	EU 095	Removed	PER 003		01/01/1972	01/17/2013				
169	EU 096	Active	PER 001		01/01/1972					



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
170	EU 096	Removed	PER 003		<input type="checkbox"/>	C12			Nickel #1 Nickel Plate	NICO	NA	3471	1118		Gal		
171	EU 097	Active	PER 001		<input type="checkbox"/>	D7	SV 008 (O)		Nickel #2 Cyanide Copper Strike	NICO	NA	3471	129		Gal		
172	EU 097	Removed	PER 003		<input type="checkbox"/>	D7			Nickel #2 Cyanide Copper Strike	NICO	NA	3471	129		Gal		
173	EU 098	Active	PER 001		<input type="checkbox"/>	D9	SV 008 (O)		Nickel #2 Copper Sulfate Plate	NICO	NA	3471	399		Gal		
174	EU 098	Removed	PER 003		<input type="checkbox"/>	D9			Nickel #2 Copper Sulfate Plate	NICO	NA	3471	399		Gal		
175	EU 099	Active	PER 001		<input type="checkbox"/>	D11	SV 008 (O)		Nickel #2 Nickel Plate	NICO	NA	3471	1118		Gal		
176	EU 099	Removed	PER 003		<input type="checkbox"/>	D11			Nickel #2 Nickel Plate	NICO	NA	3471	1118		Gal		
177	EU 100	Removed	PER 002		<input type="checkbox"/>	A7a			Zinc #1 Auto Alkaline Zinc Change Plate	NICO	NA	3471	3305		Gal		
178	EU 101	Active	PER 001		<input type="checkbox"/>	A9a	SV 009 (O)		Zinc #1 Auto Black Chromate	NICO	NA	3471	213		Gal		
179	EU 101	Removed	PER 003		<input type="checkbox"/>	A9a			Zinc #1 Auto Black Chromate	NICO	NA	3471	213		Gal		
180	EU 102	Removed	PER 002		<input type="checkbox"/>	A10			Zinc #1 Auto Clear Chromate	NICO	NA	3471	394		Gal		
181	EU 103	Active	PER 001		<input type="checkbox"/>	B10	SV 010 (O)		Zinc #2 Auto Clear Chromate	NICO	NA	3471	466		Gal		
182	EU 103	Removed	PER 003		<input type="checkbox"/>	B10			Zinc #2 Auto Clear Chromate	NICO	NA	3471	466		Gal		
183	EU 104	Removed	PER 002		<input type="checkbox"/>	K0c			Zinc #3 Auto Zinc Stripper	NICO	NA	3471	701		Gal		
184	EU 105	Active	PER 002		<input type="checkbox"/>	K9	SV 011 (O)		Zinc #3 Clear Chromate	NICO	NA	3471	655		Gal		
185	EU 105	Removed	PER 003		<input type="checkbox"/>	K9			Zinc #3 Clear Chromate	NICO	NA	3471	655		Gal		
186	EU 106	Removed	PER 002		<input type="checkbox"/>	K10			Zinc #3 Auto Clear Chromate	NICO	NA	3471	655		Gal		
187	EU 107	Active	PER 002		<input type="checkbox"/>	HC1 (NEW	SV 006 (O)		4000 gallon New HCl Acid Storage Tank	Raven Industries	Fiberglass Reinforced P	3471	4000		Gal		
188	EU 107	Removed	PER 003		<input type="checkbox"/>	HC1 (NEW			4000 gallon New HCl Acid Storage Tank	Raven Industries	Fiberglass Reinforced P	3471	4000		Gal		
189	EU 108	Active	PER 002		<input type="checkbox"/>	HC1 (USE	SV 006 (O)		4000 gallon Used HCl Acid Storage Tank	Raven Industries	Fiberglass Reinforced P	3471	4000		Gal		
190	EU 108	Removed	PER 003		<input type="checkbox"/>	HC1 (USE			4000 gallon Used HCl Acid Storage Tank	Raven Industries	Fiberglass Reinforced P	3471	4000		Gal		
191	EU 109	Active	PER 001		<input type="checkbox"/>	Chromates	SV 006 (O)		3000 gallon Chromate Storage Tank	Raven Industries	Fiberglass Reinforced P	3471	3000		Gal		
192	EU 109	Removed	PER 003		<input type="checkbox"/>	Chromates			3000 gallon Chromate Storage Tank	Raven Industries	Fiberglass Reinforced P	3471	3000		Gal		

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
170	EU 096	Removed	PER 003		01/01/1972	01/17/2013				
171	EU 097	Active	PER 001		01/01/1972					
172	EU 097	Removed	PER 003		01/01/1972	01/17/2013				
173	EU 098	Active	PER 001		01/01/1972					
174	EU 098	Removed	PER 003		01/01/1972	04/01/2007				
175	EU 099	Active	PER 001		01/01/1972					
176	EU 099	Removed	PER 003		01/01/1972	01/17/2013				
177	EU 100	Removed	PER 002		01/01/1972	02/07/2002				
178	EU 101	Active	PER 001		01/01/1972					
179	EU 101	Removed	PER 003		01/01/1972	01/17/2013				
180	EU 102	Removed	PER 002		01/01/1972	04/02/2002				
181	EU 103	Active	PER 001		01/01/1972					
182	EU 103	Removed	PER 003		01/01/1972	01/17/2013				
183	EU 104	Removed	PER 002		01/01/1972	09/01/2002				
184	EU 105	Active	PER 002		01/01/1972	09/01/2002				
185	EU 105	Removed	PER 003		01/01/1972	09/01/2002				
186	EU 106	Removed	PER 002		01/01/1972	09/01/2002				
187	EU 107	Active	PER 002		01/01/1997					
188	EU 107	Removed	PER 003		01/01/1997	01/17/2013				
189	EU 108	Active	PER 002		01/01/1997					
190	EU 108	Removed	PER 003		01/01/1997	01/17/2013				
191	EU 109	Active	PER 001		01/01/1984					
192	EU 109	Removed	PER 003		01/01/1984	01/17/2013				



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
193	EU 110	Active	PER 001		<input type="checkbox"/>	Cyanide	SV 011 (O)		3000 gallon Cyanide Dragout Storage Tank	Raven Industries	Fiberglass Reinforced	3471	3000		Gal		
194	EU 110	Removed	PER 003		<input type="checkbox"/>	Cyanide			3000 gallon Cyanide Dragout Storage Tank	Raven Industries	Fiberglass Reinforced	3471	3000		Gal		
195	EU 111	Active	PER 001		<input type="checkbox"/>	X Holding	SV 011 (O)		3000 gallon Extra Holding Storage Tank	Raven Industries	Fiberglass Reinforced	3471	3000		Gal		
196	EU 111	Removed	PER 003		<input type="checkbox"/>	X Holding			3000 gallon Extra Holding Storage Tank	Raven Industries	Fiberglass Reinforced	3471	3000		Gal		
197	EU 112	Active	PER 002		<input type="checkbox"/>		SV 012 (M)		Boiler #1	Kewanee Boiler Manuf.	L-3-S-150-G	3471	5.02	Heat	Mmbtu	Hr	5.02
198	EU 112	Active	PER 003		<input type="checkbox"/>		SV 012 (M)		Boiler #1	Kewanee Boiler Manuf.	L-3-S-150-G	3471	5.02	Heat	Mmbtu	Hr	5.02
199	EU 113	Active	PER 002		<input type="checkbox"/>		SV 013 (M)		Boiler #2	York - Shipley Inc	HRL-625-191335	3471	4.19	Heat	Mmbtu	Hr	4.19
200	EU 114	Removed	PER 002		<input type="checkbox"/>				Boiler #3	Bryan Steam Corp	L-36-S-15-G	3471	1.67	Heat	Mmbtu	Hr	
201	EU 115	Removed	PER 002		<input type="checkbox"/>				Boiler #4	Bryan Steam Corp	L-64-S-15-G	3471	3.35	Heat	Mmbtu	Hr	
202	EU 116	Removed	PER 002		<input type="checkbox"/>				Auto Nickel #1 HCL	NICO	NA	3471					
203	EU 117	Active	PER 002		<input type="checkbox"/>		SV 007 (O)		Auto Nickel Plate	NICO	NA	3471	1157		Gal		
204	EU 117	Retired	PER 003		<input type="checkbox"/>				Auto Nickel Plate	NICO	NA	3471	1157		Gal		
205	EU 118	Removed	PER 002		<input type="checkbox"/>				Auto Nickel Chromic Post Dip	NICO	NA	3471					
206	EU 119	Removed	PER 002		<input type="checkbox"/>				Cad Line Bright Dip	NICO	NA	3471					
207	EU 120	Removed	PER 002		<input type="checkbox"/>				Brass Bright Dip	NICO	NA	3471					
208	EU 121	Active	PER 002		<input type="checkbox"/>	T12a	SV 007 (O)		Nickel Hoist Line Carrier Strip	NICO	NA	3471	6.5		Gal		
209	EU 121	Removed	PER 003		<input type="checkbox"/>	T12a			Nickel Hoist Line Carrier Strip	NICO	NA	3471	6.5		Gal		
210	EU 122	Active	PER 002		<input type="checkbox"/>	K-15	SV 011 (O)		Zinc 3 Auto Yellow Chromate	NICO	NA	3471	1007		Gal		
211	EU 122	Removed	PER 003		<input type="checkbox"/>	K-15			Zinc 3 Auto Yellow Chromate	NICO	NA	3471	1007		Gal		
212	EU 123	Active	PER 002		<input type="checkbox"/>	E-11a	SV 003 (M)		Cad Line Alkaline Zinc Regen	NICO	NA	3471	264		Gal		
213	EU 123	Removed	PER 003		<input type="checkbox"/>	E-11a	SV 003 (M)		Cad Line Alkaline Zinc Regen	NICO	NA	3471	264		Gal		
214	EU 124	Active	PER 002		<input type="checkbox"/>	E-11b	SV 003 (M)		Cad Line Alkaline Zinc Plate	NICO	NA	3471	825		Gal		
215	EU 124	Removed	PER 003		<input type="checkbox"/>	E-11b	SV 003 (M)		Cad Line Alkaline Zinc Plate	NICO	NA	3471	825		Gal		
216	EU 125	Active	PER 002		<input type="checkbox"/>	F-7a	SV 007 (O)		Nickel 3A Copper Cyanide Strike	NICO	NA	3471	243		Gal		

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
193	EU 110	Active	PER 001		01/01/1984					
194	EU 110	Removed	PER 003		01/01/1984	01/17/2013				
195	EU 111	Active	PER 001		01/01/1984					
196	EU 111	Removed	PER 003		01/01/1984	01/17/2013				
197	EU 112	Active	PER 002	07/01/1996	07/01/1996					
198	EU 112	Active	PER 003	07/01/1996	07/01/1996					
199	EU 113	Active	PER 002	05/01/2000	05/01/2000					
200	EU 114	Removed	PER 002	01/01/1980	01/01/1980	08/31/2000				
201	EU 115	Removed	PER 002	01/01/1984	01/01/1984	08/31/2000				
202	EU 116	Removed	PER 002			07/01/2003				
203	EU 117	Active	PER 002	01/01/2001	01/01/2001					
204	EU 117	Retired	PER 003	01/01/2001	01/01/2001	01/17/2013				
205	EU 118	Removed	PER 002			04/01/2003				
206	EU 119	Removed	PER 002			04/01/2003				
207	EU 120	Removed	PER 002			04/01/2003				
208	EU 121	Active	PER 002	01/01/2001	01/01/2001					
209	EU 121	Removed	PER 003	01/01/2001	01/01/2001	01/17/2013				
210	EU 122	Active	PER 002		03/01/2002					
211	EU 122	Removed	PER 003		03/01/2002	01/17/2013				
212	EU 123	Active	PER 002		04/09/2001					
213	EU 123	Removed	PER 003		04/09/2001	04/01/2007				
214	EU 124	Active	PER 002		04/09/2001					
215	EU 124	Removed	PER 003		04/09/2001	04/01/2007				
216	EU 125	Active	PER 002		03/01/2004					



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
217	EU 125	Removed	PER 003		<input type="checkbox"/>	F-7a			Nickel 3A Copper Cyanide Strike	NICO	NA	3471	243		Gal		
218	EU 126	Active	PER 002		<input type="checkbox"/>	F-10b	SV 007 (O)		Nickel 3A Nickel Plate - Semi-Bright	NICO	NA	3471	369		Gal		
219	EU 126	Removed	PER 003		<input type="checkbox"/>	F-10b			Nickel 3A Nickel Plate - Semi-Bright	NICO	NA	3471	369		Gal		
220	EU 127	Active	PER 002		<input type="checkbox"/>	F-10c	SV 007 (O)		Nickel 3A Nickel Plate - Bright	NICO	NA	3471	369		Gal		
221	EU 127	Removed	PER 003		<input type="checkbox"/>	F-10c			Nickel 3A Nickel Plate - Bright	NICO	NA	3471	369		Gal		
222	EU 128	Active	PER 002		<input type="checkbox"/>	A-09b	SV 009 (O)		Zinc 1 Auto Black Chromate	NICO	NA	3471	213		Gal		
223	EU 128	Removed	PER 003		<input type="checkbox"/>	A-09b			Zinc 1 Auto Black Chromate	NICO	NA	3471	213		Gal		
224	EU 129	Active	PER 002		<input type="checkbox"/>	A-15	SV 002 (M)		Zinc 1 Auto Alkaline Zinc Regen	NICO	NA	3471	770		Gal		
225	EU 129	Removed	PER 003		<input type="checkbox"/>	A-15	SV 002 (M)		Zinc 1 Auto Alkaline Zinc Regen	NICO	NA	3471	770		Gal		
226	EU 130	Active	PER 002		<input type="checkbox"/>	A-17	SV 009 (O)		Zinc 1 Auto Regen Acid	NICO	NA	3471	162		Gal		
227	EU 130	Removed	PER 003		<input type="checkbox"/>	A-17			Zinc 1 Auto Regen Acid	NICO	NA	3471	162		Gal		
228	EU 131	Active	PER 002		<input type="checkbox"/>	B-17	SV 009 (O)		Zinc 2 Auto Regen Acid	NICO	NA	3471	181		Gal		
229	EU 131	Removed	PER 003		<input type="checkbox"/>	B-17			Zinc 2 Auto Regen Acid	NICO	NA	3471	181		Gal		
230	EU 132	Active	PER 002		<input type="checkbox"/>	B-11	SV 010 (O)		Zinc 2 Auto Yellow Chromate	NICO	NA	3471	466		Gal		
231	EU 132	Removed	PER 003		<input type="checkbox"/>	B-11			Zinc 2 Auto Yellow Chromate	NICO	NA	3471	466		Gal		
232	EU 133	Active	PER 002		<input type="checkbox"/>	L-03	SV 007 (O)		Misc Handline Chromic Bright Dip	NICO	NA	3471	62		Gal		
233	EU 133	Removed	PER 003		<input type="checkbox"/>	L-03			Misc Handline Chromic Bright Dip	NICO	NA	3471	62		Gal		
234	EU 134	Active	PER 002		<input type="checkbox"/>	E-07	SV 003 (M)		Cadmium Actance 340	NICO	NA	3471	85		Gal		
235	EU 134	Removed	PER 003		<input type="checkbox"/>	E-07	SV 003 (M)		Cadmium Actance 340	NICO	NA	3471	85		Gal		
236	EU 135	Active	PER 002		<input type="checkbox"/>	F-04	SV 003 (M)		Nickel 3A Pictax	NICO	NA	3471	175		Gal		
237	EU 135	Removed	PER 003		<input type="checkbox"/>	F-04	SV 003 (M)		Nickel 3A Pictax	NICO	NA	3471	175		Gal		
238	EU 136	Active	PER 002		<input type="checkbox"/>	T-04	SV 003 (M)		Nickel Hoist Line Pictax	NICO	NA	3471	281		Gal		
239	EU 136	Removed	PER 003		<input type="checkbox"/>	T-04	SV 003 (M)		Nickel Hoist Line Pictax	NICO	NA	3471	281		Gal		
240	EU 137	Active	PER 002		<input type="checkbox"/>	T-05	SV 003 (M)		Nickel Hoist Line HCl Acid	NICO	NA	3471	281		Gal		

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
217	EU 125	Removed	PER 003		03/01/2004	04/01/2007				
218	EU 126	Active	PER 002		02/01/2004					
219	EU 126	Removed	PER 003		02/01/2004	04/01/2007				
220	EU 127	Active	PER 002		03/01/2004					
221	EU 127	Removed	PER 003		03/01/2004	04/01/2007				
222	EU 128	Active	PER 002		11/01/2002					
223	EU 128	Removed	PER 003		11/01/2002	04/01/2007				
224	EU 129	Active	PER 002		12/01/2001					
225	EU 129	Removed	PER 003		12/01/2001	01/17/2013				
226	EU 130	Active	PER 002		12/01/2001					
227	EU 130	Removed	PER 003		12/01/2001	01/17/2013				
228	EU 131	Active	PER 002		01/01/1994					
229	EU 131	Removed	PER 003		01/01/1994	01/17/2013				
230	EU 132	Active	PER 002		01/01/2002					
231	EU 132	Removed	PER 003		01/01/2002	01/17/2013				
232	EU 133	Active	PER 002		04/01/2003					
233	EU 133	Removed	PER 003		04/01/2003	01/17/2013				
234	EU 134	Active	PER 002		01/01/2001					
235	EU 134	Removed	PER 003		01/01/2001	04/01/2007				
236	EU 135	Active	PER 002		01/01/2004					
237	EU 135	Removed	PER 003		01/01/2004	04/01/2007				
238	EU 136	Active	PER 002		06/01/2003					
239	EU 136	Removed	PER 003		06/01/2003	04/01/2007				
240	EU 137	Active	PER 002		10/01/2000					



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
241	EU 137	Removed	PER 003		<input type="checkbox"/>	T-05	SV 003 (M)		Nickel Hoist Line HCl Acid	NICO	NA	3471	281		Gal		
242	EU 138	Active	PER 002		<input type="checkbox"/>	T-06	SV 003 (M)		Nickel Hoist Line Nitric Acid Passivate	NICO	NA	3471	281		Gal		
243	EU 138	Removed	PER 003		<input type="checkbox"/>	T-06	SV 003 (M)		Nickel Hoist Line Nitric Acid Passivate	NICO	NA	3471	281		Gal		
244	EU 139	Active	PER 002		<input type="checkbox"/>	S-02	SV 004 (M)		Zinc 4 Stripper	NICO	NA	3471	1219		Gal		
245	EU 139	Removed	PER 003		<input type="checkbox"/>	S-02	SV 004 (M)		Zinc 4 Stripper	NICO	NA	3471	1219		Gal		
246	EU 140	Active	PER 002		<input type="checkbox"/>	S-23	SV 004 (M)		Zinc 4 Black Chromate	NICO	NA	3471	1219		Gal		
247	EU 140	Removed	PER 003		<input type="checkbox"/>	S-23	SV 004 (M)		Zinc 4 Black Chromate	NICO	NA	3471	1219		Gal		
248	EU 141	Active	PER 002		<input type="checkbox"/>	F-07b	SV 007 (O)		Nickel 3A Cyanide Copper Plate	NICO	NA	3471	474		Gal		
249	EU 141	Removed	PER 003		<input type="checkbox"/>	F-07b			Nickel 3A Cyanide Copper Plate	NICO	NA	3471	474		Gal		
250	EU 142	Active	PER 002		<input type="checkbox"/>	F-10a	SV 007 (O)		Nickel 3A Nickel Plate - Sulfamate	NICO	NA	3471	369		Gal		
251	EU 142	Removed	PER 003		<input type="checkbox"/>	F-10a			Nickel 3A Nickel Plate - Sulfamate	NICO	NA	3471	369		Gal		
252	EU 143	Active	PER 002		<input type="checkbox"/>	M-01	SV 007 (O)		Zinc Phosphat Handline Zinc Plate	NICO	NA	3471	206		Gal		
253	EU 143	Removed	PER 003		<input type="checkbox"/>	M-01			Zinc Phosphat Handline Zinc Plate	NICO	NA	3471	206		Gal		
254	EU 144	Active	PER 002		<input type="checkbox"/>	M-03	SV 007 (O)		Zinc Phosphat Handline Black	NICO	NA	3471	103		Gal		
255	EU 144	Removed	PER 003		<input type="checkbox"/>	M-03			Zinc Phosphat Handline Black	NICO	NA	3471	103		Gal		
256	EU 145	Active	PER 002		<input type="checkbox"/>	O-09	SV 007 (O)		Strips HCl Acid	NICO	NA	3471	334		Gal		
257	EU 145	Removed	PER 003		<input type="checkbox"/>	O-09			Strips HCl Acid	NICO	NA	3471	334		Gal		
258	EU 146	Active	PER 002		<input type="checkbox"/>	R-01	SV 007 (O)		Ultraseal	NICO	NA	3471	314		Gal		
259	EU 146	Removed	PER 003		<input type="checkbox"/>	R-01			Ultraseal	NICO	NA	3471	314		Gal		
260	EU 147	Active	PER 002		<input type="checkbox"/>	A-07a	SV 002 (M)		Zinc 1 Auto Alkaline Zinc Plate	NICO	NA	3471	3305		Gal		
261	EU 147	Removed	PER 003		<input type="checkbox"/>	A-07a	SV 002 (M)		Zinc 1 Auto Alkaline Zinc Plate	NICO	NA	3471	3305		Gal		
262	EU 148	Active	PER 002		<input type="checkbox"/>	A-10	SV 009 (O)		Zinc 1 Auto Yellow Chromate	NICO	NA	3471	394		Gal		
263	EU 148	Removed	PER 003		<input type="checkbox"/>	A-10			Zinc 1 Auto Yellow Chromate	NICO	NA	3471	394		Gal		

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
241	EU 137	Removed	PER 003		10/01/2000	01/17/2013				
242	EU 138	Active	PER 002		03/01/2002					
243	EU 138	Removed	PER 003		03/01/2002	01/17/2013				
244	EU 139	Active	PER 002		01/01/2001					
245	EU 139	Removed	PER 003		01/01/2001	01/17/2013				
246	EU 140	Active	PER 002		01/01/2003					
247	EU 140	Removed	PER 003		01/01/2003	01/17/2013				
248	EU 141	Active	PER 002		12/01/2002					
249	EU 141	Removed	PER 003		12/01/2002	04/01/2007				
250	EU 142	Active	PER 002		12/01/2002					
251	EU 142	Removed	PER 003		12/01/2002	04/01/2007				
252	EU 143	Active	PER 002		05/01/2004					
253	EU 143	Removed	PER 003		05/01/2004	01/17/2013				
254	EU 144	Active	PER 002		05/01/2004					
255	EU 144	Removed	PER 003		05/01/2004	01/17/2013				
256	EU 145	Active	PER 002		05/01/2004					
257	EU 145	Removed	PER 003		05/01/2004	04/01/2007				
258	EU 146	Active	PER 002		05/01/2002					
259	EU 146	Removed	PER 003		05/01/2002	04/01/2007				
260	EU 147	Active	PER 002		02/07/2002					
261	EU 147	Removed	PER 003		02/07/2002	01/17/2013				
262	EU 148	Active	PER 002		04/02/2002					
263	EU 148	Removed	PER 003		04/02/2002	04/01/2007				



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
264	EU 149	Active	PER 002		<input type="checkbox"/>	K-00	SV 011 (O)		Zinc 3 Auto Stripper	NICO	NA	3471	1421		Gal		
265	EU 149	Removed	PER 003		<input type="checkbox"/>	K-00			Zinc 3 Auto Stripper	NICO	NA	3471	1421		Gal		
266	EU 150	Active	PER 002		<input type="checkbox"/>	K-12	SV 011 (O)		Zinc 3 Auto Clear Chromate	NICO	NA	3471	1007		Gal		
267	EU 150	Removed	PER 003		<input type="checkbox"/>	K-12			Zinc 3 Auto Clear Chromate	NICO	NA	3471	1007		Gal		
268	EU 151	Active	PER 002		<input type="checkbox"/>	U-05	SV 004 (M)		Tin Automatic HCl Acid	NICO	NA	3471	445		Gal		
269	EU 151	Removed	PER 003		<input type="checkbox"/>	U-05	SV 004 (M)		Tin Automatic HCl Acid	NICO	NA	3471	445		Gal		
270	EU 152	Active	PER 002		<input type="checkbox"/>	U-08	SV 004 (M)		Tin Auto Acid Tin Plate	NICO	NA	3471	2200		Gal		
271	EU 152	Removed	PER 003		<input type="checkbox"/>	U-08	SV 004 (M)		Tin Auto Acid Tin Plate	NICO	NA	3471	2200		Gal		
272	EU 153	Active	EIS 010		<input type="checkbox"/>				Zinc Barrel Pictax			3471					
273	EU 153	Removed	PER 003		<input type="checkbox"/>				Zinc Barrel Pictax			3471					
274	EU 154	Active	EIS 010		<input type="checkbox"/>				Zinc Barrel HCL			3471					
275	EU 154	Removed	PER 003		<input type="checkbox"/>				Zinc Barrel HCL			3471					
276	EU 155	Active	EIS 010		<input type="checkbox"/>				Zinc Barrel Plate			3471					
277	EU 155	Removed	PER 003		<input type="checkbox"/>				Zinc Barrel Plate			3471					
278	EU 156	Active	EIS 010		<input type="checkbox"/>				Zinc Barrel ROHS Yellow Chromate			3471					
279	EU 156	Removed	PER 003		<input type="checkbox"/>				Zinc Barrel ROHS Yellow Chromate			3471					
280	EU 157	Active	EIS 010		<input type="checkbox"/>				Zinc Barrel Clear Chromate			3471					
281	EU 157	Removed	PER 003		<input type="checkbox"/>				Zinc Barrel Clear Chromate			3471					
282	EU 158	Active	EIS 010		<input type="checkbox"/>				Zinc Barrel Yellow Chromate			3471					
283	EU 158	Removed	PER 003		<input type="checkbox"/>				Zinc Barrel Yellow Chromate			3471					
284	EU 159	Active	EIS 010		<input type="checkbox"/>				Zinc Barrel Black Chromate			3471					
285	EU 159	Removed	PER 003		<input type="checkbox"/>				Zinc Barrel Black Chromate			3471					
286	EU 160	Active	EIS 010		<input type="checkbox"/>				Zinc Barrel Alkaline Zinc Regen			3471					
287	EU 160	Removed	PER 003		<input type="checkbox"/>				Zinc Barrel Alkaline Zinc Regen			3471					
288	EU 161	Active	EIS 010		<input type="checkbox"/>				Zinc Barrel Regen HCL			3471					

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
264	EU 149	Active	PER 002		09/01/2002					
265	EU 149	Removed	PER 003		09/01/2002	01/17/2013				
266	EU 150	Active	PER 002		09/01/2002					
267	EU 150	Removed	PER 003		09/01/2002	04/01/2007				
268	EU 151	Active	PER 002		09/01/2002					
269	EU 151	Removed	PER 003		09/01/2002	04/01/2007				
270	EU 152	Active	PER 002		09/01/2002					
271	EU 152	Removed	PER 003		09/01/2002	01/17/2013				
272	EU 153	Active	EIS 010							
273	EU 153	Removed	PER 003			01/17/2013				
274	EU 154	Active	EIS 010							
275	EU 154	Removed	PER 003			01/17/2013				
276	EU 155	Active	EIS 010							
277	EU 155	Removed	PER 003			01/17/2013				
278	EU 156	Active	EIS 010							
279	EU 156	Removed	PER 003			01/17/2013				
280	EU 157	Active	EIS 010							
281	EU 157	Removed	PER 003			01/17/2013				
282	EU 158	Active	EIS 010							
283	EU 158	Removed	PER 003			01/17/2013				
284	EU 159	Active	EIS 010							
285	EU 159	Removed	PER 003			01/17/2013				
286	EU 160	Active	EIS 010							
287	EU 160	Removed	PER 003			01/17/2013				
288	EU 161	Active	EIS 010							



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
289	EU 161	Removed	PER 003		<input type="checkbox"/>				Zinc Barrel Regen HCL			3471					
290	EU 179	Active	PER 003		<input type="checkbox"/>	T-25	SV 008 (O)		Nickel Hoist Line - Tri Chrome	NICO	NA	3471	421	Material	Gal	Each	
291	EU 199	Active	PER 003		<input type="checkbox"/>	V-8	SV 005 (M)		Zinc Barrel Line - HCl	NICO	NA	3471	182	Material	Gal	Each	
292	EU 261	Active	PER 003		<input type="checkbox"/>				Air Makeup Unit #1	Titan Air Inc.	TA-30-NGHRDDA	3471	2.485	Heat	Mmbtu	Hr	2.485
293	EU 262	Active	PER 003		<input type="checkbox"/>				Air Makeup Unit #2	Titan Air Inc.	TA-30-NGHRDDA	3471	2.485	Heat	Mmbtu	Hr	2.485
294	EU 263	Active	PER 003		<input type="checkbox"/>				Air Makeup Unit #3	Titan Air Inc.	TA-30-NGHRDDA	3471	2.485	Heat	Mmbtu	Hr	2.485
295	EU 264	Active	PER 003		<input type="checkbox"/>				Air Makeup Unit #4	Titan Air Inc.	TA-30-NGHRDDA	3471	2.485	Heat	Mmbtu	Hr	2.485

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
289	EU 161	Removed	PER 003			01/17/2013				
290	EU 179	Active	PER 003		07/01/2006					
291	EU 199	Active	PER 003		07/01/2006					
292	EU 261	Active	PER 003		01/01/1995					
293	EU 262	Active	PER 003		01/01/1995					
294	EU 263	Active	PER 003		01/01/1995					
295	EU 264	Active	PER 003		01/01/1995					



FACILITY DESCRIPTION: GROUPS (GP)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 05300113

Facility Name: Nico Products Inc

	ID No.	Group Status	Added By (Action)	Retired By (Action)	Include in EI	Operator ID for Item	Group Description	Group Items
1	GP 001	Active	PER 002		<input type="checkbox"/>		Stack Vent 002	EU 002, EU 003, EU 004, EU 005, EU 006, EU 007, EU 008, EU 009, EU 012, EU 013, EU 014, EU 015, EU 129, EU 147, SV 002
2	GP 001	Removed	PER 003		<input type="checkbox"/>		Stack Vent 002	EU 002, EU 003, EU 004, EU 005, EU 006, EU 007, EU 008, EU 009, EU 012, EU 013, EU 014, EU 015, EU 129, EU 147, SV 002
3	GP 002	Active	PER 002		<input type="checkbox"/>		Stack Vent 003	EU 016, EU 019, EU 020, EU 021, EU 022, EU 023, EU 024, EU 025, EU 026, EU 027, EU 028, EU 029, EU 030, EU 031, EU 032, EU 036, EU 037, EU 038, EU 123, EU 124, EU 134, EU 135, EU 136, EU 137, EU 138, SV 003
4	GP 002	Removed	PER 003		<input type="checkbox"/>		Stack Vent 003	EU 016, EU 019, EU 020, EU 021, EU 022, EU 023, EU 024, EU 025, EU 026, EU 027, EU 028, EU 029, EU 030, EU 031, EU 032, EU 036, EU 037, EU 038, EU 123, EU 124, EU 134, EU 135, EU 136, EU 137, EU 138, SV 003
5	GP 003	Active	PER 002		<input type="checkbox"/>		Stack Vent 004	EU 051, EU 053, EU 054, EU 055, EU 056, EU 057, EU 058, EU 059, EU 060, EU 061, EU 139, EU 140, EU 151, EU 152, SV 004
6	GP 003	Removed	PER 003		<input type="checkbox"/>		Stack Vent 004	EU 051, EU 053, EU 054, EU 055, EU 056, EU 057, EU 058, EU 059, EU 060, EU 061, EU 139, EU 140, EU 151, EU 152, SV 004
7	GP 004	Active	PER 002		<input type="checkbox"/>		Stack Vent 005	EU 043, EU 044, EU 045, EU 046, EU 049, EU 050, SV 005
8	GP 004	Removed	PER 003		<input type="checkbox"/>		Stack Vent 005	EU 043, EU 044, EU 045, EU 046, EU 049, EU 050, SV 005
9	GP 005	Active	PER 001		<input type="checkbox"/>		Stack Vent 006	EU 107, EU 108, EU 109, SV 006
10	GP 005	Removed	PER 003		<input type="checkbox"/>		Stack Vent 006	EU 108, EU 109, SV 006
11	GP 006	Active	PER 002		<input type="checkbox"/>		Stack Vent 007	EU 063, EU 064, EU 066, EU 067, EU 070, EU 071, EU 072, EU 073, EU 074, EU 075, EU 076, EU 077, EU 078, EU 079, EU 080, EU 083, EU 084, EU 091, EU 092, EU 093, EU 117, EU 121, EU 125, EU 126, EU 127, EU 133, EU 141, EU 142, EU 143, EU 144, EU 145, EU 146, SV 007
12	GP 006	Removed	PER 003		<input type="checkbox"/>		Stack Vent 007	EU 064, EU 066, EU 067, EU 070, EU 071, EU 072, EU 073, EU 074, EU 075, EU 076, EU 077, EU 078, EU 079, EU 080, EU 083, EU 084, EU 091, EU 092, EU 093, EU 117, EU 121, EU 125, EU 126, EU 127, EU 133, EU 141, EU 142, EU 143, EU 144, EU 145, EU 146, SV 007
13	GP 007	Active	PER 002		<input type="checkbox"/>		Stack Vent 008	EU 010, EU 011, EU 094, EU 095, EU 096, EU 097, EU 098, EU 099, SV 008
14	GP 007	Removed	PER 003		<input type="checkbox"/>		Stack Vent 008	EU 011, EU 094, EU 095, EU 096, EU 097, EU 098, EU 099, SV 008
15	GP 008	Active	PER 002		<input type="checkbox"/>		Stack Vent 009 and 010	EU 101, EU 103, EU 128, EU 130, EU 131, EU 132, EU 148, SV 009, SV 010
16	GP 008	Removed	PER 003		<input type="checkbox"/>		Stack Vent 009 and 010	EU 101, EU 103, EU 128, EU 130, EU 131, EU 132, EU 148, SV 009, SV 010
17	GP 009	Active	PER 002		<input type="checkbox"/>		Stack Vent 011	EU 039, EU 048, EU 085, EU 110, EU 111, EU 122, EU 149, EU 150, SV 011
18	GP 009	Removed	PER 003		<input type="checkbox"/>		Stack Vent 011	EU 048, EU 085, EU 110, EU 111, EU 122, EU 149, EU 150, SV 011
19	GP 010	Active	PER 003		<input type="checkbox"/>		Metal Finishing Process Tanks	EU 012, EU 015, EU 043, EU 179, EU 199, SV 002, SV 005, SV 008
20	GP 011	Active	PER 003		<input type="checkbox"/>		Air Makeup Units	EU 261, EU 262, EU 263, EU 264

Attachment #3

CD-01 Compliance Plan



COMPLIANCE PLAN **CD-01**

Facility Name: Nico Products Inc

Permit Number: 05300113 - 003

Subject Item: Total Facility

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	SOURCE-SPECIFIC REQUIREMENTS
2.0		CD	Minn. R. 7007.0800, subp. 2	Permit Appendices: This permit contains one appendix as listed in the permit Table of Contents. The Permittee shall comply with all requirements contained in the appendix.
3.0		CD	hdr	OPERATIONAL REQUIREMENTS
4.0		CD	40 CFR pt. 50; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	The Permittee shall comply with National Primary and Secondary Ambient Air Quality Standards, 40 CFR pt. 50, and the Minnesota Ambient Air Quality Standards, Minn. R. 7009.0010 to 7009.0080. Compliance shall be demonstrated upon written request by the MPCA.
5.0		CD	Minn. R. 7011.0020	Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.
6.0		CD	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)	Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated.
7.0		CD	Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)	Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and control practices and shall include a preventative maintenance program for the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment and practices, and the records kept to demonstrate plan implementation.
8.0		CD	Minn. R. 7019.1000, subp. 4	Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.
9.0		CD	Minn. R. 7011.0150	Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.
10.0		CD	Minn. R. 7030.0010 - 7030.0080	Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.
11.0		CD	Minn. R. 7007.0800, subp. 9(A)	Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).
12.0		CD	Minn. R. 7007.0800, subp. 16	The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.
13.0		CD	hdr	PERFORMANCE TESTING
14.0		CD	Minn. R. ch. 7017	Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A and/or B.



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Permit Number: 05300113 - 003

15.0		CD	Minn. R. 7017.2018; Minn. R. 7017.2030, subps. 1-4; Minn. R. 7017.2035, subps. 1-2	<p>Performance Test Notifications and Submittals:</p> <p>Performance Tests are due as outlined in Table A of the permit. See Table B for additional testing requirements.</p> <p>Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test</p> <p>The Notification, Test Plan, and Test Report may be submitted in an alternative format as allowed by Minn. R. 7017.2018.</p>
16.0		CD	Minn. R. 7017.2025, subp. 3	Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as stated in the MPCA's Notice of Compliance letter granting preliminary approval. Preliminary approval is based on formal review of a subsequent performance test on the same unit as specified by Minn. R. 7017.2025, subp. 3. The limit is final upon issuance of a permit amendment incorporating the change.
17.0		CD	hdr	MONITORING REQUIREMENTS
18.0		CD	Minn. R. 7007.0800, subp. 4(D)	Monitoring Equipment Calibration: The Permittee shall calibrate all required monitoring equipment at least once every 12 months (any requirements applying to continuous emission monitors are listed separately in this permit).
19.0		CD	Minn. R. 7007.0800, subp. 4(D)	Operation of Monitoring Equipment: Unless otherwise noted in Tables A and/or B, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.
20.0		CD	hdr	RECORDKEEPING
21.0		CD	Minn. R. 7007.0800, subp. 5(C)	Recordkeeping: Retain all records at the stationary source, unless otherwise specified within this permit, for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).
22.0		CD	Minn. R. 7007.0800, subp. 5(B)	Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350 subp. 2), including records of the emissions resulting from those changes.
23.0		CD	Minn. R. 7007.1200, subp. 4	If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. For expiring permits, these records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format.
24.0		CD	hdr	REPORTING/SUBMITTALS
25.0		CD	Minn. R. 7019.1000, subp. 3	<p>Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3.</p> <p>At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.</p>



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26.0		CD	Minn. R. 7019.1000, subp. 2	<p>Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2.</p> <p>At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.</p>
27.0		CD	Minn. R. 7019.1000, subp. 1	Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.
28.0		CD	Minn. R. 7019.1000, subp. 1	<p>Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description:</p> <ol style="list-style-type: none"> 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.
29.0		S/A	Minn. R. 7007.0800, subp. 6(A)(2)	Semiannual Deviations Report: due 30 days after end of each calendar half-year following Permit Issuance. The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.
30.0		CD	Minn. R. 7007.1150 through Minn. R. 7007.1500	Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.
31.0		S/A	Minn. R. 7007.0400, subp. 2	Application for Permit Reissuance: due 180 days before expiration of Existing Permit.
32.0		CD	Minn. R. 7007.1400, subp. 1(H)	Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H). Performance testing deadlines from the General Provisions of 40 CFR pt. 60 and pt. 63 are examples of deadlines for which the MPCA does not have authority to grant extensions and therefore do not meet the requirements of Minn. R. 7007.1400, subp. 1(H).
33.0		S/A	Minn. R. 7007.0800, subp. 6(C)	Compliance Certification: due 31 days after end of each calendar year following Permit Issuance (for the previous calendar year). The Permittee shall submit this on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.
34.0		CD	Minn. R. 7019.3000 - 7019.3100	Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance, to be submitted on a form approved by the Commissioner.
35.0		CD	Minn. R. 7002.0005 - 7002.0095	Emission Fees: due 30 days after receipt of an MPCA bill.



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Facility Name: Nico Products Inc

Permit Number: 05300113 - 003

Subject Item: GP 010 Metal Finishing Process Tanks

Associated Items: EU 012 Nickel #1 Tri-Chrome Plate
EU 015 Nickel #2 Tri-Chrome Plate
EU 043 Zinc #3 Auto HCl Acid
EU 179 Nickel Hoist Line - Tri Chrome
EU 199 Zinc Barrel Line - HCl
SV 002 Zone 1 Vent/Scrubber
SV 005 Zone 5 Vent/Scrubber
SV 008 South Hand Line Area Vent

	NC/ CA	Type	Citation	Requirement
1.0		LIMIT	Minn. R. 7011.0715, subp. 1(A)	Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. This limit applies separately to each unit in GP 010.
2.0		LIMIT	Minn. R. 7011.0715, subp. 1(B)	Opacity: less than or equal to 20 percent opacity. This limit applies separately to each unit in GP 010.



COMPLIANCE PLAN **CD-01**

Facility Name: Nico Products Inc

Permit Number: 05300113 - 003

Subject Item: GP 011 Air Makeup Units

Associated Items: EU 261 Air Makeup Unit #1

EU 262 Air Makeup Unit #2

EU 263 Air Makeup Unit #3

EU 264 Air Makeup Unit #4

	NC/ CA	Type	Citation	Requirement
1.0		LIMIT	Minn. R. 7011.0515, subp. 1	Total Particulate Matter: less than or equal to 0.40 lbs/million Btu heat input . The potential to emit from the unit is 0.0075 lb/MMBtu due to equipment design and allowable fuels. This limit applies separately to each unit in GP 011.
2.0		LIMIT	Minn. R. 7011.0515, subp. 2	Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. This limit applies to separately to each unit in GP 011.
3.0		CD	Minn. R. 7005.0100, subp. 35a	Fuel Type: only natural gas, by design.
4.0		CD	Minn. R. 7007.0800, subp. 4 and 5	Fuel Recordkeeping: The Permittee shall keep records of fuel type and usage on a monthly basis.



COMPLIANCE PLAN **CD-01**

Facility Name: Nico Products Inc

Permit Number: 05300113 - 003

Subject Item: EU 001 Degreaser - Halogenated Solvent Cleaner

Associated Items: SV 001 Degreaser Vent

	NC/ CA	Type	Citation	Requirement
1.0		CD	40 CFR pt. 63	General Provisions of 40 CFR pt. 63 applicable to 40 CFR pt. 63, subp. T are provided in Appendix B to 40 CFR pt. 63, subp. T.
2.0		LIMIT	Minn. R. 7011.0715, subp. 1(A)	Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735.
3.0		LIMIT	Minn. R. 7011.0715, subp. 1(B)	Opacity: less than or equal to 20 percent opacity .
4.0		CD	hdr	EMISSION LIMITS AND CONTROL REQUIREMENTS
5.0		LIMIT	40 CFR Section 63.471(b)(2); Minn. R. 7011.7200	Trichloroethylene: less than or equal to 31,085 lbs/year using 12-month Rolling Sum as determined using the procedures in 40 CFR Section 63.471(c). This is a facility-wide limit. As EU 001 is the only vapor degreaser at the facility, the limit applies solely to EU 001. This limit is equivalent to 14,100 kg/yr. See RECORDKEEPING section of EU 001 for more details.
6.0		CD	40 CFR Section 63.471(d); Minn. R. 7011.7200	Exceedance: If the applicable facility-wide emission limit presented in Table 1 of 40 CFR Section 63.471(b)(2) is not met, an exceedance has occurred. All exceedances shall be reported as required in 40 CFR Section 63.468(h).
7.0		CD	40 CFR Section 63.463(a)(1)(i); Minn. R. 7011.7200	The degreaser must have an idling and downtime mode cover, as described in 40 CFR Section 63.463(d)(1)(i), that may be readily opened or closed, that completely covers the cleaning machine openings when in place, and is free of cracks, holes, and other defects.
8.0		CD	40 CFR Section 63.463(a)(2); Minn. R. 7011.7200	The vapor degreaser shall have a freeboard ratio of 0.75 or greater.
9.0		CD	40 CFR Section 63.463(a)(3); Minn. R. 7011.7200	The vapor degreaser shall have an automated parts handling system capable of moving parts or parts baskets at a speed of 11 feet per minute or less from the initial loading of the parts through removal of cleaned parts.
10.0		CD	40 CFR Section 63.463(a)(5); Minn. R. 7011.7200	The degreaser must be equipped with a vapor level control device that shuts off the sump heat if the vapor level in the vapor cleaning machine rises above the height of the primary condenser.
11.0		CD	40 CFR Section 63.463(a)(6); Minn. R. 7011.7200	The vapor degreaser shall have a primary condenser.
12.0		CD	40 CFR Section 63.463(b)(2)(ii); Minn. R. 7011.7200	The Permittee shall maintain an idling emission rate of less than 0.045 pounds per hour per square foot of solvent/air interface area.
13.0		CD	hdr	WORK PRACTICE STANDARDS
14.0		CD	40 CFR Section 63.463(d)(1)(i); Minn. R. 7001.7200	Cover(s) to each solvent cleaning machine shall be in place during the idling mode and during the downtime mode unless either the solvent has been removed from the machine or maintenance or monitoring is being performed that requires the cover(s) to not be in place.
15.0		CD	40 CFR Section 63.463(d)(4); Minn. R. 7011.7200	Parts shall be oriented so that the solvent drains from them freely. Parts having cavities or blind holes shall be tipped or rotated before being removed from any solvent cleaning machine unless an equally effective approach has been approved.
16.0		CD	40 CFR Section 63.463(d)(5); Minn. R. 7011.7200	Parts baskets or parts shall not be removed from any solvent cleaning machine until dripping has stopped.
17.0		CD	40 CFR Section 63.463(d)(6); Minn. R. 7011.7200	During startup of each vapor cleaning machine, the primary condenser shall be turned on before the sump heater.
18.0		CD	40 CFR Section 63.463(d)(7); Minn. R. 7011.7200	During shutdown of each vapor cleaning machine, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off.
19.0		CD	40 CFR Section 63.463(d)(8); Minn. R. 7011.7200	When solvent is added or drained from any solvent cleaning machine, the solvent shall be transferred using threaded or other leakproof couplings and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface.



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20.0		CD	40 CFR Section 63.463(d)(9); Minn. R. 7011.7200	Each solvent cleaning machine and associated controls shall be maintained as recommended by the manufacturers of the equipment or using alternative maintenance practices that have been demonstrated to the MPCA's satisfaction to achieve the same or better results as those recommended by the manufacturer.
21.0		CD	40 CFR Section 63.463(d)(10); Minn. R. 7011.7200	Each operator of a solvent cleaning machine shall complete and pass the applicable sections of the test of solvent cleaning procedures in Appendix A to 40 CFR pt. 63, subp. T if requested during an inspection by the Administrator.
22.0		CD	40 CFR Section 63.463(d)(11); Minn. R. 7011.7200	Waste solvent, still bottoms, and sump bottoms shall be collected and stored in closed containers. The closed containers may contain a device that would allow pressure relief, but would not allow liquid solvent to drain from the container.
23.0		CD	40 CFR Section 63.463(d)(12); Minn. R. 7011.7200	Sponges, fabric, wood, and paper products shall not be cleaned.
24.0		CD	40 CFR Section 63.471(c)(1); Minn. R. 7011.7200	Clean Liquid Solvent: The permittee shall, on the first operating day of every month, ensure that each solvent cleaning machine system contains only clean liquid solvent. This includes, but is not limited to, fresh unused solvent, recycled solvent, and used solvent that has been cleaned of soiled materials. A fill line must be indicated during the first month the measurements are made. The solvent level within the machine must be returned to the same fill-line each month, immediately prior to calculating monthly emissions as specified in 40 CFR Section 63.471(c)(2) and (3). The solvent cleaning machine does not have to be emptied and filled with fresh unused solvent prior to the calculations.
25.0		CD	hdr	TESTING AND OPERATING REQUIREMENTS
26.0		CD	40 CFR Section 63.463(e)(2)(iv)(A); 40 CFR Section 63.463(e)(3)(i); Minn. R. 7011.7200	Ensure that the idling-mode cover is in place whenever parts are not in the solvent cleaning machine and completely covers the cleaning machine openings when in place. An exceedance has occurred if the above requirement has not been met.
27.0		CD	40 CFR Section 63.463(e)(2)(iv)(B); 40 CFR Section 63.463(e)(3)(ii); Minn. R. 7011.7200	Ensure that the idling-mode cover is maintained free of cracks, holes, and other defects. An exceedance has occurred if the above requirement has not been met and is not corrected within 15 days of detection. Adjustments or repairs shall be made to the solvent cleaning system or control device to reestablish required levels. The parameter must be re-measured immediately upon adjustment or repair and demonstrated to be within required limits.
28.0		CD	40 CFR Section 63.463(f)(1); 40 CFR Section 63.465(a); Minn. R. 7011.7200	Conduct an initial performance test using the procedures in Reference Method 307 in Appendix A of 40 CFR pt. 63 to comply with the requirements specified below: i) Demonstrate compliance with the applicable idling emission limit; and ii) Establish parameters that will be monitored to demonstrate compliance. If a control device is used that is listed in 40 CFR Section 63.463(e)(2), then the requirements for that control device as listed in 40 CFR Section 63.463(e)(2) shall be used unless the owner or operator can demonstrate to the Administrator's satisfaction that an alternative strategy is equally effective.
29.0		CD	40 CFR Section 63.463(f)(2); Minn. R. 7011.7200	Conduct the periodic monitoring of the parameters used to demonstrate compliance as described in 40 CFR Section 63.466(f).
30.0		CD	40 CFR Section 63.463(f)(3); Minn. R. 7011.7200	Operate the solvent cleaning machine within parameters identified in the initial performance test.
31.0		CD	40 CFR Section 63.463(f)(4); Minn. R. 7011.7200	If any of the requirements in 40 CFR Section 63.463(f)(1) through (3) are not met, determine whether an exceedance has occurred using the criteria in 40 CFR Section 63.463(f)(4)(i) and (ii).
32.0		CD	40 CFR Section 63.465(e); Minn. R. 7011.7200	The Permittee shall determine the potential to emit from all solvent cleaning operations using the procedures described in 40 CFR Section 63.465(e)(1) through (3).
33.0		CD	hdr	MONITORING



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34.0		CD	40 CFR Section 63.466(c); Minn. R. 7011.7200	<p>The Permittee shall monitor the hoist speed as described as follows:</p> <ol style="list-style-type: none"> 1) The Permittee shall determine the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes (meters per minute). 2) The Permittee shall conduct the monitoring each month. If after the first year, no exceedances of the hoist speed are measured, the Permittee may begin monitoring the hoist speed quarterly. 3) If an exceedance of the hoist speed occurs during quarterly monitoring, the monitoring frequency returns to monthly until another year of compliance without an exceedance is demonstrated. 4) If the Permittee can demonstrate to the Administrator's satisfaction in the initial compliance report that the hoist cannot exceed a speed of 3.4 meters per minute (11 feet per minute), the required monitoring frequency is quarterly, including during the first year of compliance.
35.0		CD	hdr	RECORDKEEPING
36.0		CD	40 CFR Section 63.471(b)(1); Minn. R. 7011.7200	Solvent Additions/Deletions Log: The permittee shall maintain a log of solvent additions and deletions for each solvent cleaning machine.
37.0		CD	40 CFR Section 63.467(a); Minn. R. 7011.7200	<p>The Permittee shall maintain the following records, in written or electronic form, for the lifetime of the degreaser:</p> <ol style="list-style-type: none"> 1) Owner's manuals, or if not available, written maintenance and operating procedures, for the degreaser and control equipment. 2) The date of installation for the degreaser and all of its control devices. If the exact date of installation is not known, a letter certifying that the degreaser and its control devices were installed prior to, or on, November 29, 1993, or after November 29, 1993, may be substituted. 3) Records of the initial performance test, including the idling emission rates and the values of monitoring parameters measured during the test, 4) Records of the halogenated hazardous air pollutant solvent content for each solvent used in the machine.
38.0		CD	40 CFR Section 63.467(b); Minn. R. 7011.7200	<p>The Permittee shall maintain the following records, in written or electronic form, for a period of 5 years:</p> <ol style="list-style-type: none"> 1) The results of any required control device monitoring under 40 CFR Section 63.466. 2) Information on the actions taken to comply with the applicable requirements of 40 CFR Section 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. 3) Estimates of annual solvent consumption for each degreaser.
39.0		CD	40 CFR Section 63.471(c)(2); Minn. R. 7011.7200	<p>Monthly Solvent Emissions Equation: The Permittee shall, on the first operating day of the month, using the records of all solvent additions and deletions for the previous month, determine solvent emissions (Eunit) from each solvent cleaning machine using the following equation:</p> $\text{Eunit} = \text{SA} - \text{LSR} - \text{SSR}$ <p>Where:</p> <p>Eunit = The total halogenated HAP solvent emissions from the solvent cleaning machine during the most recent month (pounds of solvent per month) SA = The total amount of halogenated HAP liquid solvent added to the solvent cleaning machine during the most recent month (pounds of solvent per month) LSR = The total amount of halogenated HAP liquid solvent removed from the solvent cleaning machine during the most recent month (pounds of solvent per month) SSR = The total amount of halogenated HAP solvent removed from the solvent cleaning machine in solid waste, obtained as described in 40 CFR Section 63.471(c)(3), during the most recent month (pounds of solvent per month)</p>



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40.0		CD	40 CFR Section 63.471(c)(3); Minn. R. 7011.7200	<p>Solid Solvent Removed (SSR): The permittee shall, on the first operating day of the month, determine SSR using the method specified 40 CFR Section 63.471(c)(3)(i) or (ii).</p> <p>i) From tests conducted using EPA reference method 25d.</p> <p>ii) By engineering calculations included in the compliance report.</p>
41.0		CD	40 CFR Section 63.471(c)(4); Minn. R. 7011.7200	<p>12-month rolling total (unit): The Permittee shall on the first operating day of the month, determine the 12-month rolling unit total emissions, EunitTotal, for the 12-month period ending with the most recent month for all units using a halogenated HAP solvent, using the equation below:</p> $\text{EunitTotal} = \text{Sum} (\text{Eunit1} + \text{Eunit2} + \dots + \text{Eunit12})$ <p>Where:</p> <p>EunitTotal= The total halogenated HAP solvent emissions for a particular unit over the preceding 12 months (pounds)</p> <p>Eunit1= The total halogenated HAP solvent emissions from the solvent cleaning machine during the most recent month (pounds of solvent per month)</p> <p>Eunit2 + ... + Eunit12 = The total halogenated HAP solvent emissions from the solvent cleaning machine from the previous 11 months (pounds).</p>
42.0		CD	40 CFR Section 63.471(c)(5); Minn. R. 7011.7200	<p>12-month rolling total (facility): The Permittee shall on the first operating day of the month, determine the 12-month rolling total emissions for the facility, ETotal, for the 12-month period ending with the most recent month using the equation below:</p> $\text{ETotal} = \text{Sum} (\text{Eunit1Total} + \text{Eunit2Total} + \dots + \text{Eunit}(n)\text{Total})$ <p>Where:</p> <p>ETotal= The total halogenated HAP solvent emissions for the facility over the preceding 12 months (pounds)</p> <p>Eunit(n)= The total halogenated HAP solvent emissions from a solvent cleaning machine during the most recent month (pounds of solvent per month).</p>
43.0		CD	40 CFR Section 63.471(e); Minn. R. 7011.7200	<p>The Permittee shall maintain records specified in 40 CFR Section 63.471(e)(1) through (3) either in electronic or written form for a period of 5 years. For purposes of this paragraph, "each solvent cleaning machine" means each solvent cleaning machine that is part of an affected facility regulated by this section.</p> <p>1) The dates and amounts of solvent that are added to each solvent cleaning machine.</p> <p>2) The solvent composition of wastes removed from each solvent cleaning machines as determined using the procedure described in 40 CFR Section 63.471(c)(3).</p> <p>3) Calculation sheets showing how monthly emissions and the 12-month rolling total emissions from each solvent cleaning machine were determined, and the results of all calculations.</p>
44.0		CD	hdr	REPORTING
45.0		S/A	40 CFR Section 63.468(f); Minn. R. 7011.7200	<p>Annual Report: due 32 days after end of each calendar year starting 12/02/1994. The Permittee shall submit an annual report by February 1 of each year following the one for which the report is being made. This report shall include the following:</p> <p>1) a signed statement from the stating that, "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR Section 63.463(d)(10)."; and</p> <p>2) an estimate of the solvent consumption for each solvent cleaning machine during the reporting period.</p>



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46.0		CD	40 CFR Section 63.471(h); Minn. R. 7011.7200	<p>Emission Report: The Permittee shall submit a solvent emission report every year. This solvent emission report shall contain the requirements specified below.</p> <p>1) The average monthly solvent consumption for the affected facility in pounds per month.</p> <p>2) The 12-month rolling total solvent emission estimates calculated each month using the method as described in 40 CFR Section 63.471(c).</p> <p>3) This report shall be combined with the annual report listed in Table B of this permit, as required in 40 CFR Section 63.468(f) & (g) into a single report for each facility.</p>
47.0		S/A	40 CFR Section 63.468(h); 40 CFR Section 63.463(e)(4); 40 CFR Section 63.463(f)(5); Minn. R. 7011.7200	<p>Deviations Report: due 30 days after end of each calendar half-year starting 12/02/1994 (Exceedance Report) assuming no exceedance has occurred. If an exceedance has occurred, the frequency of submittal shall be increased to a quarterly submittal according to 40 CFR Section 63.468(h) or (i). The Exceedance Report shall include:</p> <p>1) Information on actions taken to comply with 40 CFR Section 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.</p> <p>2) If an exceedance has occurred, the reason for the exceedance and a description of the actions taken.</p> <p>3) If no exceedance has occurred, or if a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.</p>
48.0		CD	40 CFR Section 63.468(i); Minn. R. 7011.7200	<p>The Permittee required to submit an exceedance report on a quarterly (or more frequent) basis may reduce the frequency of reporting to semiannual if the conditions in 40 CFR Section 63.468(i)(1) through (3) are met.</p> <p>1) The source has demonstrated a full year of compliance without an exceedance.</p> <p>2) The Permittee continues to comply with all relevant recordkeeping and monitoring requirements specified in 40 CFR Part 63.</p> <p>3) The Administrator does not object to a reduced frequency of reporting for the affected source as provided in 40 CFR Section 63.10(e)(3)(iii) of the General Provisions.</p>



COMPLIANCE PLAN **CD-01**

Facility Name: Nico Products Inc

Permit Number: 05300113 - 003

Subject Item: EU 012 Nickel #1 Tri-Chrome Plate

Associated Items: GP 010 Metal Finishing Process Tanks

SV 002 Zone 1 Vent/Scrubber

	NC/ CA	Type	Citation	Requirement
1.0		CD	40 CFR pt. 63	General Provisions of 40 CFR pt. 63 applicable to 40 CFR pt. 63, subp. N are provided in Table 1 to 40 CFR pt. 63, subp. N.
2.0		CD	hdr	STANDARDS
3.0		CD	40 CFR Section 63.342(e)(1); Minn. R. 7011.7120	A decorative chromium electroplating tank that uses a trivalent chromium bath that incorporates a wetting agent as a bath ingredient is subject to the recordkeeping and reporting requirements of 40 CFR Section 63.346(b)(14) and 63.347(i). The wetting agent must be an ingredient in the trivalent chromium bath components purchased as a package.
4.0		CD	40 CFR Section 63.342(e)(2); Minn. R. 7011.7120	After September 21, 2015, the Permittee shall not add PFOS-based fume suppressants to any affected decorative chromium electroplating tank.
5.0		CD	hdr	RECORDKEEPING
6.0		CD	40 CFR Section 63.346(b); Minn. R. 7011.7120	The Permittee shall maintain the following records: - Records of all maintenance performed on the affected source except routine housekeeping practices; - Records of the occurrence, duration, and cause (if known) of each malfunction of process equipment; - Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR Section 63.342(a)(1), including corrective actions to restore malfunctioning process equipment to its normal or usual manner of operation; - The total process operating time of the affected source during the reporting period; and -Records of the bath components purchased, with the wetting agent clearly identified as a bath constituent contained in one of the components.
7.0		CD	40 CFR Section 63.346(c); Minn. R. 7011.7120	All records shall be maintained for a period of 5 years in accordance with 40 CFR Section 63.10(b)(1).
8.0		CD	hdr	REPORTING REQUIREMENTS
9.0		S/A	40 CFR Section 63.347(i)(2); Minn. R. 7011.7120	Notification of compliance status: due 30 days after 09/19/2014 that contains an update of the information submitted in accordance with 40 CFR Section 63.347(i)(1) or a statement that the information is still accurate.
10.0		CD	40 CFR Section 63.347(i)(3); Minn. R. 7011.7120	Within 30 days of a change to the trivalent chromium electroplating process, the Permittee shall submit a report that includes: i) A description of the manner in which the process has been changed and the emission limitation, if any, now applicable to the affected source; ii) If a different emission limitation applies, the applicable information required by 40 CFR Section 63.347(c)(1); and iii) The notification and reporting requirements of 40 CFR Section 63.347(d), (e), (f), (g), and (h), which shall be submitted in accordance with the schedules identified in those paragraphs.



COMPLIANCE PLAN **CD-01**

Facility Name: Nico Products Inc

Permit Number: 05300113 - 003

Subject Item: EU 015 Nickel #2 Tri-Chrome Plate

Associated Items: GP 010 Metal Finishing Process Tanks

SV 002 Zone 1 Vent/Scrubber

	NC/ CA	Type	Citation	Requirement
1.0		CD	40 CFR pt. 63	General Provisions of 40 CFR pt. 63 applicable to 40 CFR pt. 63, subp. N are provided in Table 1 to 40 CFR pt. 63, subp. N.
2.0		CD	hdr	STANDARDS
3.0		CD	40 CFR Section 63.342(e)(1); Minn. R. 7011.7120	A decorative chromium electroplating tank that uses a trivalent chromium bath that incorporates a wetting agent as a bath ingredient is subject to the recordkeeping and reporting requirements of 40 CFR Section 63.346(b)(14) and 63.347(i). The wetting agent must be an ingredient in the trivalent chromium bath components purchased as a package.
4.0		CD	40 CFR Section 63.342(e)(2); Minn. R. 7011.7120	After September 21, 2015, the Permittee shall not add PFOS-based fume suppressants to any affected decorative chromium electroplating tank.
5.0		CD	hdr	RECORDKEEPING
6.0		CD	40 CFR Section 63.346(b); Minn. R. 7011.7120	The Permittee shall maintain the following records: - Records of all maintenance performed on the affected source except routine housekeeping practices; - Records of the occurrence, duration, and cause (if known) of each malfunction of process equipment; - Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR Section 63.342(a)(1), including corrective actions to restore malfunctioning process equipment to its normal or usual manner of operation; - The total process operating time of the affected source during the reporting period; and -Records of the bath components purchased, with the wetting agent clearly identified as a bath constituent contained in one of the components.
7.0		CD	40 CFR Section 63.346(c); Minn. R. 7011.7120	All records shall be maintained for a period of 5 years in accordance with 40 CFR Section 63.10(b)(1).
8.0		CD	hdr	REPORTING REQUIREMENTS
9.0		S/A	40 CFR Section 63.347(i)(2); Minn. R. 7011.7120	Notification of compliance status: due 30 days after 09/19/2014 that contains an update of the information submitted in accordance with 40 CFR Section 63.347(i)(1) or a statement that the information is still accurate.
10.0		CD	40 CFR Section 63.347(i)(3); Minn. R. 7011.7120	Within 30 days of a change to the trivalent chromium electroplating process, the Permittee shall submit a report that includes: i) A description of the manner in which the process has been changed and the emission limitation, if any, now applicable to the affected source; ii) If a different emission limitation applies, the applicable information required by 40 CFR Section 63.347(c)(1); and iii) The notification and reporting requirements of 40 CFR Section 63.347(d), (e), (f), (g), and (h), which shall be submitted in accordance with the schedules identified in those paragraphs.



COMPLIANCE PLAN **CD-01**

Facility Name: Nico Products Inc

Permit Number: 05300113 - 003

Subject Item: EU 112 Boiler #1

Associated Items: SV 012 Boiler

	NC/ CA	Type	Citation	Requirement
1.0		CD	40 CFR pt. 63	General Provisions of 40 CFR pt. 63 applicable to 40 CFR pt. 63, subp. DDDDD are provided in Table 10 of 40 CFR pt. 63, subp. DDDDD.
2.0		LIMIT	Minn. R. 7011.0515, subp. 1	Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input . The potential to emit based on allowable fuels is 0.0077 lb/MMBtu.
3.0		LIMIT	Minn. R. 7011.0515, subp. 2	Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.
4.0		CD	Minn. R. 7005.0100, subp. 35a	Fuel Type: only natural gas or propane, by design.
5.0		CD	Minn. R. 7007.0800, subp. 4 and 5	Fuel Recordkeeping: The Permittee shall keep records of fuel type and usage on a monthly basis.
6.0		CD	hdr	APPLICABILITY
7.0		CD	40 CFR Section 63.7495(b)	The Permittee must comply with 40 CFR pt. 63, subp. DDDDD no later than January 31, 2016, except as provided in 40 CFR Section 63.6(i).
8.0		CD	40 CFR Section 63.7575	For use in 40 CFR pt. 63, subp. DDDDD, natural gas is defined as: 1) A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane; or 2) Liquefied petroleum gas, as defined in ASTM D1835 (incorporated by reference, see 40 CFR Section 63.14); or 3) A mixture of hydrocarbons that maintains a gaseous state at ISO conditions. Additionally, natural gas must either be composed of at least 70 percent methane by volume or have a gross calorific value between 35 and 41 megajoules (MJ) per dry standard cubic meter (950 and 1,100 Btu per dry standard cubic foot); or 4) Propane or propane derived synthetic natural gas. Propane means a colorless gas derived from petroleum and natural gas, with the molecular structure C ₃ H ₈ .
9.0		CD	hdr	NOTIFICATIONS
10.0		S/A	40 CFR Section 63.7545(e)	Notification of compliance status: due 60 days after Demonstration Completion of initial compliance. The report shall contain the information specified in Table A of this permit under EU 112.
11.0		CD	40 CFR Section 63.7545(e)	Content of Notification of Compliance Status: The Notification of Compliance Status must contain the following information: - A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under 40 CFR Section 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR Section 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration; and (continued)
12.0		CD	(continued from above)	Content of Notification on Compliance Status, continued: - In addition to the information required in 40 CFR Section 63.9(h)(2), the notification of compliance status must include the following certifications of compliance and be signed by a responsible official: i) "This facility complies with the required initial tune-up according to the procedures in 40 CFR Section 63.7540(a)(10)(i) through (vi)." ii) "This facility has had an energy assessment performed according to 40 CFR Section 63.7530(e)."
13.0		CD	hdr	REPORTING



COMPLIANCE PLAN **CD-01**

Facility Name: Nico Products Inc

Permit Number: 05300113 - 003

14.0		S/A	40 CFR Section 63.7550(b)(1) & (2)	Initial Compliance Status Report: due 730 days after 01/31/2016. The Initial Compliance Report must cover the period beginning on the compliance date that is specified in 40 CFR Section 63.7495 and ending on January 31 at least 2 years after the compliance date that is specified for the source in 40 CFR Section 63.7495.
15.0		S/A	40 CFR Section 63.7550(b)(3) & (4); 40 CFR Section 63.7550(c)(1)	<p>Compliance Status Report: due 31 days after end of each calendar 24 months following Initial Compliance Status Report. Biennial compliance reports must cover the 2-year period from January 1 to December 31.</p> <p>The Compliance Report must contain the following:</p> <ul style="list-style-type: none">- Company and Facility name and address.- Process unit information, emissions limitations, and operating parameter limitations.- Date of report and beginning and ending dates of the reporting period.- The total operating time during the reporting period.- Include the date of the most recent tune-up for each unit subject to only the requirement to conduct a biennial tune-up according to 40 CFR Section 63.7540(a)(11). Include the date of the most recent burner inspection if it was not done biennially and was delayed until the next scheduled or unscheduled unit shutdown.



COMPLIANCE PLAN **CD-01**

Facility Name: Nico Products Inc

Permit Number: 05300113 - 003

Subject Item: EU 113 Boiler #2

Associated Items: SV 013 Boiler

	NC/ CA	Type	Citation	Requirement
1.0		CD	40 CFR pt. 63	General Provisions of 40 CFR pt. 63 applicable to 40 CFR pt. 63, subp. DDDDD are provided in Table 10 of 40 CFR pt. 63, subp. DDDDD.
2.0		LIMIT	Minn. R. 7011.0515, subp. 1	Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input . The potential to emit based on allowable fuels is 0.0077 lb/MMBtu.
3.0		LIMIT	Minn. R. 7011.0515, subp. 2	Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.
4.0		CD	Minn. R. 7005.0100, subp. 35a	Fuel Type: only natural gas or propane, by design.
5.0		CD	Minn. R. 7007.0800, subp. 4 and 5	Fuel Recordkeeping: The Permittee shall keep records of fuel type and usage on a monthly basis.
6.0		CD	hdr	APPLICABILITY
7.0		CD	40 CFR Section 63.7495(b)	The Permittee must comply with 40 CFR pt. 63, subp. DDDDD no later than January 31, 2016, except as provided in 40 CFR Section 63.6(i).
8.0		CD	40 CFR Section 63.7575	For use in 40 CFR pt. 63, subp. DDDDD, natural gas is defined as: 1) A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane; or 2) Liquefied petroleum gas, as defined in ASTM D1835 (incorporated by reference, see 40 CFR Section 63.14); or 3) A mixture of hydrocarbons that maintains a gaseous state at ISO conditions. Additionally, natural gas must either be composed of at least 70 percent methane by volume or have a gross calorific value between 35 and 41 megajoules (MJ) per dry standard cubic meter (950 and 1,100 Btu per dry standard cubic foot); or 4) Propane or propane derived synthetic natural gas. Propane means a colorless gas derived from petroleum and natural gas, with the molecular structure C ₃ H ₈ .
9.0		CD	hdr	NOTIFICATIONS
10.0		S/A	40 CFR Section 63.7545(e)	Notification of compliance status: due 60 days after Demonstration Completion of initial compliance. The report shall contain the information specified in Table A of this permit under EU 113.
11.0		CD	40 CFR Section 63.7545(e)	Content of Notification of Compliance: The Notification of Compliance Status must contain the following information: - A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under 40 CFR Section 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR Section 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration; and (continued)
12.0		CD	(continued from above)	Content of Notification of Compliance Status, continued: - In addition to the information required in 40 CFR Section 63.9(h)(2), the notification of compliance status must include the following certifications of compliance and be signed by a responsible official: i) "This facility complies with the required initial tune-up according to the procedures in 40 CFR Section 63.7540(a)(10)(i) through (vi)." ii) "This facility has had an energy assessment performed according to 40 CFR Section 63.7530(e)."
13.0		CD	hdr	REPORTING



COMPLIANCE PLAN **CD-01**

Facility Name: Nico Products Inc

Permit Number: 05300113 - 003

14.0		S/A	40 CFR Section 63.7550(b)(1) & (2)	Initial Compliance Status Report: due 1,825 days after 01/31/2016. The Initial Compliance Report must cover the period beginning on the compliance date that is specified in 40 CFR Section 63.7495 and ending on January 31 at least 5 years after the compliance date that is specified for the source in 40 CFR Section 63.7495.
15.0		S/A	40 CFR Section 63.7550(b)(3) & (4); 40 CFR Section 63.7550(c)(1)	<p>Compliance Status Report: due 31 days after end of each calendar 60 months following Initial Compliance Status Report. Biennial compliance reports must cover the 5-year period from January 1 to December 31.</p> <p>The Compliance Report must contain the following:</p> <ul style="list-style-type: none">- Company and Facility name and address.- Process unit information, emissions limitations, and operating parameter limitations.- Date of report and beginning and ending dates of the reporting period.- The total operating time during the reporting period.- Include the date of the most recent tune-up for each unit subject to only the requirement to conduct a 5-year tune-up according to 40 CFR Section 63.7540(a)(12). Include the date of the most recent burner inspection if it was not done on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown.



COMPLIANCE PLAN **CD-01**

Facility Name: Nico Products Inc

Permit Number: 05300113 - 003

Subject Item: EU 179 Nickel Hoist Line - Tri Chrome

Associated Items: GP 010 Metal Finishing Process Tanks

SV 008 South Hand Line Area Vent

	NC/ CA	Type	Citation	Requirement
1.0		CD	40 CFR pt. 63	General Provisions of 40 CFR pt. 63 applicable to 40 CFR pt. 63, subp. N are provided in Table 1 to 40 CFR pt. 63, subp. N.
2.0		CD	hdr	STANDARDS
3.0		CD	40 CFR Section 63.342(e)(1); Minn. R. 7011.7120	A decorative chromium electroplating tank that uses a trivalent chromium bath that incorporates a wetting agent as a bath ingredient is subject to the recordkeeping and reporting requirements of 40 CFR Section 63.346(b)(14) and 63.347(i). The wetting agent must be an ingredient in the trivalent chromium bath components purchased as a package.
4.0		CD	40 CFR Section 63.342(e)(2); Minn. R. 7011.7120	After September 21, 2015, the Permittee shall not add PFOS-based fume suppressants to any affected decorative chromium electroplating tank.
5.0		CD	hdr	RECORDKEEPING
6.0		CD	40 CFR Section 63.346(b); Minn. R. 7011.7120	The Permittee shall maintain the following records: - Records of all maintenance performed on the affected source except routine housekeeping practices; - Records of the occurrence, duration, and cause (if known) of each malfunction of process equipment; - Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR Section 63.342(a)(1), including corrective actions to restore malfunctioning process equipment to its normal or usual manner of operation; - The total process operating time of the affected source during the reporting period; and -Records of the bath components purchased, with the wetting agent clearly identified as a bath constituent contained in one of the components.
7.0		CD	40 CFR Section 63.346(c); Minn. R. 7011.7120	All records shall be maintained for a period of 5 years in accordance with 40 CFR Section 63.10(b)(1).
8.0		CD	hdr	REPORTING REQUIREMENTS
9.0		S/A	40 CFR Section 63.347(i)(2); Minn. R. 7011.7120	Notification of compliance status: due 30 days after 09/19/2014 that contains an update of the information submitted in accordance with 40 CFR Section 63.347(i)(1) or a statement that the information is still accurate.
10.0		CD	40 CFR Section 63.347(i)(3); Minn. R. 7011.7120	Within 30 days of a change to the trivalent chromium electroplating process, the Permittee shall submit a report that includes: i) A description of the manner in which the process has been changed and the emission limitation, if any, now applicable to the affected source; ii) If a different emission limitation applies, the applicable information required by 40 CFR Section 63.347(c)(1); and iii) The notification and reporting requirements of 40 CFR Section 63.347(d), (e), (f), (g), and (h), which shall be submitted in accordance with the schedules identified in those paragraphs.