

## INDUSTRIAL WASTEWATER DISCHARGE PERMIT

In accordance with the provisions of chapter NR 211 Wisconsin Administration Code (Department of Natural Resources general pretreatment requirements), Federal pretreatment regulations 40 CFR 403, and Chapter 46 Article III Division 2 of the Municipal Code of Ordinances of the City of La Crosse (hereinafter, City Ordinance Chapter 46)

**Trane, U.S.  
Plant 4  
2213 20th Street South  
La Crosse, WI 54601**

Is hereby authorized to discharge industrial wastewater from the above identified facility into the La Crosse Wastewater Treatment System pursuant to the effluent limitations, monitoring requirements, and other conditions set forth in this permit.

Compliance with this permit does not relieve the permittee of its obligation to comply with any or all applicable pretreatment regulations, standards, or requirements under Local, State, and Federal laws; including any such regulations, standards, requirements, or laws that may become effective during the term of this permit.

Non-compliance with any term or condition of this permit constitutes a violation of City Ordinance Chapter 46. This permit is issued to the specific user identified above and shall not be reassigned, transferred, or sold to another user or to a different address.

The terms and conditions of this permit may be amended during the life of this permit, as limitations or requirements identified in City Ordinance Chapter 46 are modified or changed.

This permit shall become effective on the date of signature and shall expire at midnight, February 19, 2029

The permittee shall not discharge after the date of expiration. If the permittee wishes to continue to discharge after the expiration date, the permittee shall file for reissuance of this permit in accordance with the requirements of City Ordinance Chapter 46, at least 90 days prior to the expiration date.

La Crosse Wastewater Treatment Facility

By \_\_\_\_\_  
Jared Greeno (Superintendent)

Dated This \_\_\_\_\_ Day of \_\_\_\_\_, Year \_\_\_\_\_

## PART 1 - SPECIFIC APPLICABLE EFFLUENT LIMITATIONS

Based on the standards identified in **Table 1**, of this permit, the applicable effluent limitations for this regulated discharge point are as follows:

Section 1 A review of current wastewater data indicates that the technology employed to remove metals from process waste, that Trane Technologies will be unable to consistently comply with the standards established in City Ordinance Chapter 46. Trane Technologies will be allocated the limits below.

**PLANT #4 (4PTF)** discharge point is located inside Plant 4, on East Avenue and Townsend Street. All regulated waters are discharged through this location.

**Table 1**

| Parameter        | Daily Maximum Concentration | Monthly Average Concentration | Regulatory Source       |
|------------------|-----------------------------|-------------------------------|-------------------------|
|                  | (mg/L)                      | (mg/L)                        | Local (L) / Federal (F) |
|                  |                             |                               |                         |
| Cadmium          | 0.69                        | 0.26                          | F                       |
| Chromium         | 2.77                        | 1.71                          | F                       |
| Copper           | 2.07                        | 2.07                          | L/F                     |
| Lead             | 0.60                        | 0.43                          | L/F                     |
| Nickel           | 3.98                        | 2.38                          | L/F                     |
| Silver           | 0.43                        | 0.24                          | F                       |
| Zinc             | 2.61                        | 1.48                          | F                       |
| Cyanide          | 0.66                        | 0.65                          | L/F                     |
|                  |                             |                               |                         |
| TTO (1)          | 2.13                        | N/A                           | F                       |
| COD              | 6,000                       | N/A                           | L                       |
| FOG              | 200                         | N/A                           | L                       |
| TSS              | 325                         | N/A                           | L                       |
| pH               | 6.0-11.0 s.u.               | N/A                           | L                       |
| Total Phosphorus | 75                          | N/A                           | L                       |

(1) Total Toxic Organics (TTO) is equal to the sum of all concentrations over 0.01 mg/L for the compounds listed in 40 CFR PART 433.11 (e). Only industries with approved toxic organics management plans will be allowed to sign the toxic organics certification at the end of this permit. Industries without approved toxic organics management plans must sample for TTO's.

## PART 2 - MONITORING AND REPORTING REQUIREMENTS

### Section 1- Monitoring Requirements City Ordinance Chapter 46

A. **Start Sampling:** Beginning as of the date of signature of this permit and thereafter, the permittee shall self-monitor wastewater discharges subject to regulation under PART 1 of this permit to ascertain compliance with the applicable limitations.

B. **Sampling/Flow Requirements:** The required self-monitoring shall consist both of sampling and flow monitoring of the regulated wastewaters for those pollutants as listed under PART 1 of this permit and reporting of the results to the La Crosse Wastewater Utility. Sampling shall be done during a period of usual and/or normal operation. Totalize flow during the sampling event. Report said flow with Quarterly Compliance Reports

C. **Sample Location:** PLANT 4, which is located at East Avenue and Townsend Street. 4PTF is at the discharge of the Plant 4 pretreatment unit at the south end of Plant 4. Samples are taken from the Final Effluent Tank of pretreatment unit.

| Parameters  | Sample Type | Frequency                                  |
|---|-------------|--|
| Cadmium, Chromium, Copper, Lead, Nickel, Silver, Zinc | Composite   | Annually                                   |
| Cyanide   | Grab        | Annually                                   |
| Parameters  | Sample Type | Frequency                                  |
| COD, TSS and Total Phosphorus                         | Composite   | Four (4) times per year (Once per quarter) |
| FOG, pH   | Grab        | Four (4) times per year (Once per quarter) |

## PART 2 - MONITORING AND REPORTING REQUIREMENTS CONTINUED

## Section 2 - General Reporting Requirements City Ordinance Chapter 46

A. Report Due Date: Self- Monitoring results obtained during the following periods shall be reported as follows:

| Period   | Report By                  |
|--|----------------------------|
| January 1 <sup>st</sup> to March 31 <sup>st</sup>    | April 15 <sup>th</sup> *   |
| April 1 <sup>st</sup> to June 30 <sup>th</sup>       | July 15 <sup>th</sup> *    |
| July 1 <sup>st</sup> to September 30 <sup>th</sup>   | October 15 <sup>th</sup> * |
| October 1 <sup>st</sup> to December 31 <sup>st</sup> | January 15 <sup>th</sup> * |

\* If no self-monitoring is required during a specific period, report "No samples required this period", on periodic compliance form, and send report prior to scheduled due date(s) above.

B. Report Form: The Wisconsin Department of Natural Resources (Wastewater Pretreatment Program Periodic Compliance Report) report form will be acceptable for these results.

C. Data Reporting Requirements: All monitoring results of all effluent samples taken and analyzed, using approved EPA test methods shall be submitted and reported with required self-monitoring reports (samples taken strictly for in-process control are exempt). Samples taken of a wastestream solely for the purpose of obtaining information about pollutant content would be included.

D. Special Conditions: If this industry has chemical, mixing, storage, dilution, or rinse tanks, etc., which are periodically dumped, a logbook showing at a minimum: the date, time (start-finish), quantity, and pH of the dump, shall be maintained for pretreatment inspection purposes.

E. Slug Control Plan: A specific slug control plan is required and is on file at the Wastewater Utility.

F. Report Signature: All monitoring reports shall be signed and validated by a principle executive officer or designee (see signatory requirements in PART 4, Section 13 of this permit).

G. Solvent Management Plan: A specific solvent management plan is required and is on file at the Wastewater Utility.

## PART 2 - MONITORING AND REPORTING REQUIREMENTS

### CONTINUED Section 2 - Other Reports

#### A. Non-compliance

If Industry self-monitoring or City compliance monitoring (sampling done by The City) reveals a violation of any discharge limitations specified herein, the industry shall report said violation to the City of La Crosse POTW within 24 hours of becoming aware of the violation. The City POTW will notify permittee of any compliance sampling violations. The industry shall repeat the sampling (within 21 days) until two (2) consecutive samples show that the non-compliance has been corrected. Additionally, a written report indicating the results of any required repeat sampling episodes and analysis shall be submitted within 30 days of becoming aware of the initial violation. Additional monitoring episodes due to non-compliance will not be counted in fulfilling the obligation of required sampling.

#### B. Accidental Discharge - City Ordinance Chapter 46 Article III Div. 2 Sec.46-112

If, for any reason, the permittee discharges prohibited substances caused by spills, slugs, accidental discharges, etc., the permittee shall immediately notify personnel at the La Crosse Wastewater Treatment Plant at **(608) 780-3554**.

The permittee shall identify the time of discharge, the type of substance, the quantity, the corrective action being taken, and the phone number of the person in charge of remedial action.

A written report shall be mailed to the Industrial Pretreatment Section within five (5) days of the occurrence, detailing the reasons for, and makeup of, the offending discharge and the permittee's remedial efforts, and what measures will be taken to ensure that the spill, slug, or accidental discharge will not be repeated in the future.

### PART 3 - GENERAL PROHIBITED DISCHARGE STANDARDS

#### Section 1 - City of La Crosse Pretreatment Standards

No person shall discharge or deposit or allow to be discharged or deposited into the wastewater treatment system any wastewater which violates the prohibited discharge standards found in City Ordinance Chapter 46 Article III Division 2 46-109 (2) and briefly described as follows:

- A. ....Wastewater ...which has a closed cup flashpoint of less than 60 degrees Centigrade or 140 degrees Fahrenheit using test methods specified in 40 CFR 261.21.
- B. Solid or viscous wastes or wastes that may become solid or viscous in the sewer and may interfere with the natural flow in a sewer or make excessive sewer cleaning necessary ....
- C. Garbage that has not been ground or reduced in size to such a degree that all particles are less than one-half (1/2") in any dimension .....
- D. Noxious or malodorous liquids, solids, or gases
- E. Waste which may cause corrosion or deterioration of the wastewater treatment system. All wastes discharged into the wastewater treatment system shall have a pH value in the range of six (6) to nine (9) Standard Units at the point of introduction into the wastewater treatment system ....
- F. Fat, wax, oil, or greases ..... which may solidify or become viscous at temperatures between 0 and 65 degrees Celsius, or 32- and 149-degrees Fahrenheit...
- G. ....Radioactive wastes or isotopes .....
- H. Substances not removable by the wastewater treatment process which will cause discoloration, opacity, or foaming of the wastewater treatment plant effluent or residues.
- I..... In no case shall wastewater with a temperature exceeding 40 degrees Celsius or 104 degrees Fahrenheit be introduced into the wastewater
- J. Unpolluted water including, but not limited to, non-contact cooling water, rainwater, river water, or groundwater which will increase the hydraulic loading on the wastewater treatment system ....
- K. Slug loads causing interference with wastewater treatment system or adversely affects .... residues, sludges, or scum.

PART 3 - GENERAL PROHIBITED DISCHARGE STANDARDS CONTINUED

L. Wastewater discharges, except as authorized by the Board of Public Works, in mass discharge quantities or concentrations exceeding the following:

| Pollutant Parameter              | Limitation |
|----------------------------------|------------|
| Biochemical Oxygen Demand (BOD)  | 350 mg/L   |
| Chemical Oxygen Demand (COD)     | 500 mg/L   |
| Total Suspended Solids (TSS)     | 325 mg/L   |
| Fats, Waxes, Oil. & Grease (FOG) | 100 mg/L   |
| Phosphorus (P)                   | 7mg/L      |
| Ammonia (NH <sub>3</sub> )       | 40mg/L     |

M. Wastewater containing toxic pollutants.

N. Solids, solids, or gases which may cause the Wastewater Treatment Plant effluent or treatment residues, sludges, or scum to be unsuitable for reclamation or disposal or interfere with the reclamation or disposal process or processes ordinarily employed, including causing a reduction in the allowable land application rate or allowable land application site life by more than ten percent (10%).

O. Liquids, solids, or gases which are likely to cause the Wastewater Treatment Plant to violate WPDES standards.

P. Any trucked or hauled pollutant, except at discharge points designated by the POTW.

Q. Process wastewater containing pollutants exceeding the following concentrations as established on a continuous twenty-four (24) hour flow proportional basis or lesser period if process wastewater is discharged for less than twenty-four (24) hours in an average day of operation:

LIMITS

| Pollutant Parameter | Max. mg/L |
|---------------------|-----------|
| Arsenic             | 0.45      |
| Cadmium             | 0.69      |
| Chromium            | 2.77      |
| Copper              | 2.07      |
| Cyanide             | 0.66      |
| Lead                | 0.60      |
| Mercury             | 0.0002    |
| Nickel              | 1.91      |
| Zinc                | 2.61      |

### PART 3- GENERAL PROHIBITED DISCHARGE STANDARDS CONTINUED

#### Section 2 - Other Conditions City Ordinance Chapter 46

In addition to the general prohibited discharge standards established in City Ordinance 46, no person shall discharge or cause to be discharged or deposited any wastewaters or effluent which does not conform to pretreatment standards established by the Environmental Protection Agency or the Wisconsin Department of Natural Resources. Pretreatment limits shall minimally include applicable national categorical pretreatment standards for new and existing sources set out in 40 CFR, subchapter n, PARTS 401 through 471 inclusive. Wastewater, or effluent including domestic, commercial, and industrial waste, shall not contain any substance which is in violation of any State, Federal, or Local pretreatment or other discharge standard.

- A. Concentration and mass limits for categorical users - the control authority may, for ease of operation, convert mass limits to concentration limits. The applicable federal or state regulations will apply.

#### Section 3 - EPA Categorical Pretreatment Standards

The permittee identified on page 1 of this permit discharges certain wastewaters which are also subject to regulation by the following EPA categorical pretreatment standard(s). 40 CFR, PART 433, Metal finishing point source category. Effective as of February 15, 1986, Metal Finishing category pretreatment standards have superseded the Electroplating category standards. Trane Company production facilities are subject to these standards. In addition, the City of La Crosse has developed local limits which may be applicable. In case of conflict, the most stringent limitation shall apply.

#### METAL FINISHING STANDARDS:

| Pollutant    | Maximum for any 1 day (mg/L) | Monthly Average shall not exceed* (mg/L) |
|--------------|------------------------------|--|
| Cadmium (T)  | 0.69                         | 0.26                                     |
| Chromium (T) | 2.77                         | 1.71                                     |
| Copper (T)   | 3.38                         | 2.07                                     |
| Lead (T)     | 0.69                         | 0.43                                     |
| Nickel (T)   | 3.98                         | 2.38                                     |
| Silver (T)   | 0.43                         | 0.24                                     |
| Zinc (T)     | 2.61                         | 1.48                                     |
| Cyanide (T)  | 1.20                         | 0.65                                     |
| TTO          | 2.13                         | ---                                      |

If only one (1) sample is taken during a month, the results of that sample become the monthly average,



#### PART 4 - GENERAL CONDITIONS

In addition to compliance with PARTS 1, 2, and 3, this permit is issued conditioned upon compliance with the following general conditions.

##### Section 1 - Fees - City Ordinance Chapter 46 Article III Div. 2 Sec. 46-110

(g) The permittee shall pay annual fees based on the following:

- A. Annual Administrative: Unit Cost x Fee Units
- B. Monitoring Charge: Personnel and equipment charges for scheduled City compliance monitoring are included in the administrative costs.
- C. Laboratory Analysis Charges: Analysis charges for samples collected for compliance monitoring will be billed to the industry for the constituents analyzed by the contract laboratory.
- D. Extraordinary Charges: Any extraordinary charges incurred resulting from non-compliance will be billed separately to the industry.

##### Section 2 - Admission to Property - City Ordinance Chapter 46 Article III Div.2 Sec. 46-112 (g)

Whenever it shall be necessary for the purposes of this permit, the board, or its duly appointed representatives, upon presentation of credentials, may enter upon any property or premises of the permittee at reasonable times, either scheduled or unscheduled.

##### Section 3 - Modification or Revision - City Ordinance Chapter 46 Article III Div. 2 Sec. 46-116

The terms and conditions of this permit are subject to change during the life of the permit as provided in City Ordinance Chapter 46.

##### Section 4 - Severability or Conflict - City Ordinance Chapter 1 1 Sec. 1-8

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected

#### PART 4 - GENERAL CONDITIONS CONTINUED

Section 5 - Notice of Intent - City Ordinance Chapter 46 Article III Div. 2 Sec. 46-110 (d) The permittee shall apply for permit modification prior to the introduction of any changed wastewater into the La Crosse Wastewater Treatment System. In addition, according to 40 CFR 403.12 (j) the permittee shall promptly notify the POTW in advance of any substantial change in the volume or character of pollutants in their discharge, including the listed or characteristic hazardous wastes for which the permittee has submitted initial notification under 40 CFR 403.12 (p).

Section 6 - Enforcement, Appeal & Penalties - City Ordinance Chapter 46 Article III Div. 2 Sec. 46-108

Any permittee who has violated or is in violation of a City discharge permit, or who willfully or negligently fails to comply with any provisions of a City discharge permit, or who knowingly makes any false statement, representation or certification, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method, shall be subject to the enforcement provisions of City Ordinance Chapter 46 including termination, fines and/or civil penalties.

Section 7 - Disposal of Pretreatment Sludges or Other Residues

The disposal of sludges or residues generated through pretreatment or operation shall be in accordance with section 405 of the Clean Water Act and subtitles c and d of the Resource Conservation and Recovery Act (RCRA).

Section 8 - Confidentiality - City Ordinance Chapter 46 Article III Div. 2 Sec. 46-115

Except for information determined to be confidential in City ordinance 6.11, all reports required by this permit shall be available for public inspection at the Wastewater Treatment Plant, Isle La Plume, under the supervision of pretreatment personnel.

Section 9 - Records Retention - City Ordinance Chapter 46 article III Div.2 Sec. 46-111 (b)AP

The permittee shall retain and preserve for no less than seven (7) years any records, books, documents, memoranda, reports, correspondence, and all summaries thereof, relating to monitoring, sampling, and chemical analysis made by or on behalf of a permittee in connection with the permittee's discharge. In addition, the permittee shall adhere to all other stipulations made under City Ordinance Chapter 46

**PART 4 - GENERAL CONDITIONS CONTINUED****Section 10 - Dilution - City Ordinance Chapter 46 Article III Div. 2 Sec. 46-112 (f)**

The permittee shall not increase the use of potable or process water in any way, nor mix separate waste streams for the purpose of diluting a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the standards set forth in this permit.

**Section 11 - Bypass 40 CFR 403.17**

The permittee shall not intentionally divert any wastestream from any portion of the permittee's pretreatment facility. There are certain conditions where a bypass may be unavoidable; these conditions are set forth in 40 CFR 403.17. The control authority may approve an anticipated bypass after considering its adverse effects.

**Section 12 - Discharge of Hazardous Waste 40 CFR 403.12 (p)**

The permittee shall notify the POTW, the EPA regional waste management division director, and state hazardous waste authorities in writing of any discharge into the POTW of a substance, which, if otherwise disposed would be a hazardous waste under 40 CFR Part 261. The notification shall be in accordance with 40 CFR 403.12 (p).

**Section 13 — Signatory Requirements**

All reports required by this permit shall be signed by a responsible corporate officer of the permittee, or designee, as outlined in 40 CFR, 403.12 (1) and amendments thereto, written authorization for the designee (position or individual) shall be properly signed and on file at the La Crosse Wastewater Treatment Facility, Industrial Pretreatment Section, prior to or simultaneous with submission of the required reports. All required reports shall include the following certifications.

### TOXIC ORGANICS CERTIFICATION

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for TTO, I certify that to my knowledge and belief, no discharge of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the solvent management plan submitted to the City Wastewater Utility.

### REPORT CONTENT CERTIFICATION

I further certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete including the possibility of fine and imprisonment for knowing violations. I am aware that there are significant penalties for submitting false information,

### Reduced Sampling Requirements Certification

Based on my inquiry of the person or persons directly responsible for managing compliance with the applicable pretreatment standards, I certify that, to the best of my knowledge and belief, there has been no increase in the level of Cd,Cr,Cu,Pb,Ag,Zn,CN in the wastewaters due to the activities at the facility since filing of the last periodic report.

BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

Reporting Address:  
La Crosse Wastewater Utility  
Industrial Pretreatment Section  
905 Joseph Houska Drive  
La Crosse WI 54601

Telephone No. (608) 789-7343