

**PERMIT RENEWAL APPLICATION FOR  
HAZARDOUS WASTE FACILITY PERMIT  
NUMBER HW-056(D)**

**Trane Technologies-Sylvania Remediation  
Sylvania Georgia**

**Trane Technologies Company LLC—Operator**

**Koyo Bearings North America—Owner**

**Volume I  
General**

AEM Project No. 1162-1802

April 25, 2019

Prepared For:

**Trane Technologies Company LLC  
800-E Beaty Street  
Davidson, North Carolina 28036**

Prepared By:



**ATLANTA ENVIRONMENTAL MANAGEMENT, INC.**

*Environmental Consulting, Engineering, Hydrogeologic Services*

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## LIST OF ACRONYMS

<b>ACL</b>	Alternate Concentration Limit
<b>AEM</b>	Atlanta Environmental Management, Inc.
<b>AMSL</b>	Above Mean Sea Level
<b>ANOVA</b>	Analysis of Variance
<b>B-K</b>	Brainard-Kilman
<b>BTOC</b>	Below Top of Casing
<b>CAP</b>	Corrective Action Plan
<b>CCSI</b>	Concentrated Cyanide Surface Impoundment
<b>cm/sec</b>	Centimeters per Second
<b>CSI</b>	Cyanide Surface Impoundments (includes both the CCSI and DCSI)
<b>CSRA</b>	Central Savannah River Area
<b>1,1-DCA</b>	1,1-Dichloroethane
<b>1,1-DCE</b>	1,1-Dichloroethene
<b>DCSI</b>	Dilute Cyanide Surface Impoundment
<b>DSI</b>	Drillers Services, Inc.
<b>DVE</b>	Dual-Phase Vacuum Extraction
<b>E&amp;R</b>	Emergency and Retention
<b>EPA</b>	U.S. Environmental Protection Agency
<b>EPD</b>	Environmental Protection Division
<b>ft bls</b>	Feet Below Land Surface
<b>FEMA</b>	Federal Emergency Management Agency
<b>GGG</b>	Georgia Geologic Survey
<b>gpm</b>	Gallons per Minute
<b>GPS</b>	Groundwater Protection Standard
<b>HWMF</b>	Hazardous Waste Management Facility
<b>i</b>	Hydraulic Gradient
<b>Ingersoll Rand</b>	Ingersoll Rand Company
<b>Koyo</b>	Koyo Bearings North America
<b>MDL</b>	Method Detection Limit
<b>mg/L</b>	Milligrams per Liter
<b>MSL</b>	Mean Sea Level
<b>OSHA</b>	Occupational Safety and Health Act

<b>PDB</b>	Passive Diffusion Bag
<b>POC</b>	Point of Compliance
<b>POTW</b>	Publicly Owned Treatment Works
<b>ppm</b>	Parts per Million
<b>PVC</b>	Polyvinyl Chloride
<b>QA/QC</b>	Quality Assurance/Quality Control
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>RFA</b>	RCRA Facility Assessment
<b>RFI</b>	RCRA Facility Investigation
<b>SGP</b>	Sylvania Georgia Plant
<b>SOPQAM</b>	U.S. EPA Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (1988, revised 1996 and November 2001)
<b>SVOC</b>	Semi-Volatile Organic Compound
<b>SWMU</b>	Solid Waste Management Unit
<b>1,1,1-TCA</b>	1,1,1-Trichloroethane
<b>TCE</b>	Trichloroethene
<b>TCFM</b>	Trichlorofluoromethane
<b>Timken</b>	Timken US Corporation
<b>Torrington</b>	The Torrington Company
<b>TSDF</b>	Treatment, Storage, and Disposal Facility
<b>TTO</b>	Total Toxic Organic
<b>µg/L</b>	Micrograms per Liter
<b>USGS</b>	U.S. Geological Survey
<b>UST</b>	Underground Storage Tank
<b>VOC</b>	Volatile Organic Compound
<b>V<sub>s</sub></b>	Seepage Velocity
<b>WWTS</b>	Wastewater Treatment System

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# PART A APPLICATION

## HAZARDOUS WASTE PERMIT PART A FORM

EPA ID Number 

G	A	D	0	6	5	3	4	4	3	0	1
---	---	---	---	---	---	---	---	---	---	---	---

<b>Revision Number 1</b>
--------------------------

**1. Facility Name**

Trane Technologies Company LLC
--------------------------------

**2. Reason for Submittal**

<input type="radio"/> First-Time Applicant
<input type="radio"/> Modification (Check one)
<input type="checkbox"/> Class 1 not requiring approval
<input type="checkbox"/> Class 1 requiring approval
<input type="checkbox"/> Class 2
<input type="checkbox"/> Class 3
<input checked="" type="radio"/> Renewal

**3. Facility Existence Date (mm/dd/yyyy)**

0	9	/	1	5	/	1	9	7	4
---	---	---	---	---	---	---	---	---	---

**4. Facility Status (Check all that apply)**

<input type="checkbox"/> Operating TSD
<input checked="" type="checkbox"/> Post-Closure
<input type="checkbox"/> HSWA Corrective Action

**5. Facility Location Address**

Street Address 400 Friendship Road	
City, Town, or Village Sylvania	County Screven
State Georgia	Country United States
Zip Code 30467	
Latitude 324529	Longitude 0813703

**6. Facility Mailing Address**

Same as Location Address

Street Address		
City, Town, or Village		
State	Country	Zip Code

**7. Facility Land Type**

Private
  Municipal
  County
  State
  Federal
  Other

**8. Facility Permit Contact**

First Name Michael	MI	Last Name Goldstein
Title Global Remediation and Transaction Manager		
Phone (704) 990-3250	Fax	Email Michael.Goldstein@tranetechnologies.com

9. Facility Permit Contact Mailing Address

Same as Location Address

Street Address 800-E Beaty Street		
City, Town, or Village Davidson		
State North Carolina	Country United States	Zip Code 28036

10. Legal Owner and Operator of the Facility (Please use comment section if more than one owner/operator)

A. Name of Facility's Legal Owner

Same as Location Address

Full Name <b>Koyo Bearings North America</b>		Date Became Owner (mm/dd/yyyy)	
		1	2 / 3 1 / 2 0 0 9
Are there any previous owners of this Facility? If yes, please list in an attachment.		<input checked="" type="radio"/> Yes <input type="radio"/> No	
Owner Type <input checked="" type="radio"/> Private <input type="radio"/> Municipal <input type="radio"/> County <input type="radio"/> State <input type="radio"/> Federal <input type="radio"/> Other			
Street Address 29570 Clemons Road			
City, Town, or Village West Lake			
State Ohio	Country United States	Zip Code 44145	
Phone (864)770-2320	Fax	Email	
Comments			

B. Name of Facility's Legal Operator

Same as Facility's Legal Owner

Full Name <b>Trane Technologies Company LLC</b>		Date Became Operator (mm/dd/yyyy)	
		0	2 / 1 8 / 2 0 0 3
Are there any previous operators of this Facility? If yes, please list in an attachment.		<input type="radio"/> Yes <input type="radio"/> No	
Operator Type <input checked="" type="radio"/> Private <input type="radio"/> Municipal <input type="radio"/> County <input type="radio"/> State <input type="radio"/> Federal <input type="radio"/> Other			
Street Address 800-E Beaty Street			
City, Town, or Village Davidson			
State North Carolina	Country United States	Zip Code 28036	
Phone (704) 990-3250	Fax	Email michael.goldstein@tranetechnologies.com	
Comments			

11. North American Industry Classification System (NAICS) Code(s) for the Facility (at least 5-digit codes)

A. (Primary) 332991	C.
B.	D.

**12. Nature of Business**

Manufacture of drawn-cup needle bearings, precision pins, rolls, and shafts for the automotive and industrial markets.

**13. Other Environmental Permits**

A. Permit Type	B. Permit Number															C. Description	
S	3	5	6	2	2	5	1	0	0	0	0	4	S	0	3	0	Air Quality Permit
S	G	A	P	0	5	0	3	2	2								Wastewater POTW Permit
S	G	A	R	0	5	0	0	0									Storm Water Permit
S	0	6	3														Underground Injection Control Permit

**14. Process Information**

Line No.	A. Process Code			B. Process Design Capacity		C. Process Total Number of Units	D. Unit Name
				(1) Amount	(2) Unit of Measure		
1	D	8	3	0.75	A	1	Closed Surface Impoundment( Retention Basin)
2	D	8	3	0.75	A	1	Closed Surface Impoundment (Emergency Basin)
3	D	8	3	0.75	A	1	Closed Surface Impoundment (Concentrated Cyanide Impoundment)
4	D	8	3	0.75	A	1	Closed Surface Impoundment (Concentrated Cyanide Impoundment)

**15. Description of Hazardous Wastes**

Line No.	A. EPA Hazardous Waste Code					B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes												
								(1) Process Codes					(2) Process Description (if code is not entered in 15.D1)							
1	F	0	0	6		Unknown	A	D	8	3										
2	F	0	0	6		Unknown	A	D	8	3										

**16. Closed Hazardous Waste Management Units (Do not include current Post-Closure Units)**

Unit Name	Dates of Operation			Date of Clean Closure Certification	Date of Clean Closure Equivalency Demonstration
		to			
		to			
		to			
		to			
		to			
		to			

**17. Map**

Attach to this application a topographical map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in this map area. Include drinking water wells listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundary. USGS 7.5-minute series topographic or orthophotographic maps are available for all areas of the state.

**18. Facility Drawing**

All existing facilities must include a scale drawing of the facility showing the location of all past, present, and proposed treatment, storage, and disposal areas, including but not limited to solid waste management units and areas of concern.

**19. Photographs**

All existing facilities must include dated photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, and disposal areas; and sites of future storage, treatment, or disposal areas. Use the process codes listed in item 14 to indicate the location of all storage, treatment, and disposal areas.

**20. List of Affected Governments**

Full Name Screven County Commission		Title	
Street Address 216 Mims Road, #100			
City, Town, or Village Sylvania			
County Screven	State Georgia	Zip Code 30467	

Full Name City of Sylvania		Title	
Street Address 104 South Main Street			
City, Town, or Village Sylvania			
County Screven	State Georgia	Zip Code 30467	

Full Name Sylvania Fire Department		Title	
Street Address 216 Mims Road			
City, Town, or Village Sylvania			
County Screven	State Georgia	Zip Code 30467	

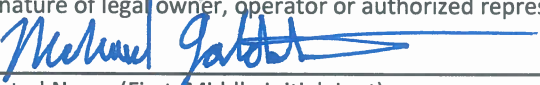


21. **Comments** (include item number for each comment)

Section 10, A. - Attachment A-1 lists the previous owners of the facility.
Section 15, B. - The total amount of contaminated soil being closed in place cannot be estimated for either RCRA unit. Thus, the amount is designated as unknown. Both units were non-clean closed surface impoundments closed as landfills.
Section 17. - Figure A-1 shows the site and an area extending one-mile beyond the property boundaries of the facility. Attachment A-2 presents the updated well survey from April 2017.
Section 18. - Figure A-2 shows a scaled drawing of the facility.
Section 19. - Figure A-3 shows an aerial photo of the facility.
Section 20. - Additional Government Agency
Screven County Fire Department
618 Frontage Road West Sylvania, Georgia
30467

22. **Certification** I 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. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. **Note: For the RCRA Hazardous Waste Part A permit Application, all owners and operators must sign (see 40CFR 270.10(b) and 270.11).**

Signature of legal owner, operator or authorized representative	Date (mm/dd/yyyy)
Printed Name (First, Middle Initial, Last)	Title
Email	

Signature of legal owner, operator or authorized representative 	Date (mm/dd/yyyy) 08/06/2020
Printed Name (First, Middle Initial, Last) Michael Goldstein	Title Global Remediation and Transaction Manager
Email Michael.Goldstein@tranetechnologies.com	

21. Comments (include item number for each comment)

Section 10, A. - Attachment A-1 lists the previous owners of the facility.
Section 15, B. - The total amount of contaminated soil being closed in place cannot be estimated for either RCRA unit. Thus, the amount is designated as unknown. Both units were non-clean closed surface impoundments closed as landfills.
Section 17. - Figure A-1 shows the site and an area extending one-mile beyond the property boundaries of the facility. Attachment A-2 presents the updated well survey from April 2017.
Section 18. - Figure A-2 shows a scaled drawing of the facility.
Section 19. - Figure A-3 shows an aerial photo of the facility.
Section 20. - Additional Government Agency
Screven County Fire Department
618 Frontage Road West
Sylvania, Georgia 30467
The Part A Form was prepared by Ingersoll Rand as the operator of the remediation. Koyo is signing the Part A Form as the owner, but did not prepare the Part A Form.

22. **Certification** I 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. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. **Note: For the RCRA Hazardous Waste Part A permit Application, all owners and operators must sign (see 40CFR 270.10(b) and 270.11).**

Signature of legal owner, operator or authorized representative <i>Michael H Hobbs</i>	Date (mm/dd/yyyy) 4/22/2019
Printed Name (First, Middle Initial, Last) Michael H. Hobbs	Title General Manager-Maintenance, Environmental, Safety, & Health
Email mike.hobbs@jtekt.com	

Signature of legal owner, operator or authorized representative	Date (mm/dd/yyyy)
Printed Name (First, Middle Initial, Last) Michael Goldstein	Title Global Remediation and Transaction Manager
Email michael.goldstein@irco.com	