



## Racine County Wisconsin

HVAC Products, Installation, Labor Based Solutions, and Related Products / Services

IFB #RC2022-1001

Submitted July 21, 2022, by Trane U.S. Inc.

# A. Certification of Vendor

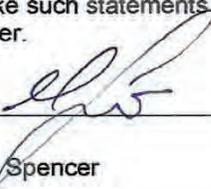
## CERTIFICATION OF VENDOR

### HVAC PRODUCTS, INSTALLATION, LABOR BASED SOLUTIONS, AND RELATED PRODUCTS AND SERVICES

The undersigned, submitting this Bid, hereby agrees with all the terms, conditions, and specifications required by the County in this IFB and declares that the attached Bid is in conformity therewith.

The undersigned attests to the following:

- I have reviewed in detail the IFB and all related attachments and information provided by Racine County before submitting this Bid.
- I have full authority to make such statements and to submit this Bid as the duly recognized representative of the Bidder.

SIGNATURE:  \_\_\_\_\_

PRINT NAME: Greg Spencer

TITLE: Strategic Cooperative Program Leader

COMPANY: Trane U.S. Inc.

ADDRESS: 800 Beaty Street

CITY, STATE, ZIP: Davidson, NC 28036-6924

TELEPHONE: 469-442-6055 FAX: \_\_\_\_\_

E-MAIL: gsspencer@trane.com

DATE: June 22, 2022

INVITATION FOR BID - IFB # RC2002-1001  
Page 22 of 119  
HVAC PRODUCTS, INSTALLATION, LABOR BASED SOLUTIONS, AND RELATED PRODUCTS AND SERVICES-

## Other Exhibits & Documents

The following documents are provided as Appendices:

- Appendix 1: Acknowledgement of Addenda
- Appendix 2: Exhibit A – Response for National Cooperative Contract
- Appendix 3: Exhibit B – Administration Agreement, Example
- Appendix 4: Exhibit F – Federal Funds Certifications
- Appendix 5: Exhibit G – New Jersey Business Compliance

## B. Table of Contents



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## C. Executive Summary

Limit to one or two pages. Briefly state the Bidder's understanding of the service to be provided and a positive commitment to perform the services as defined in the IFB.

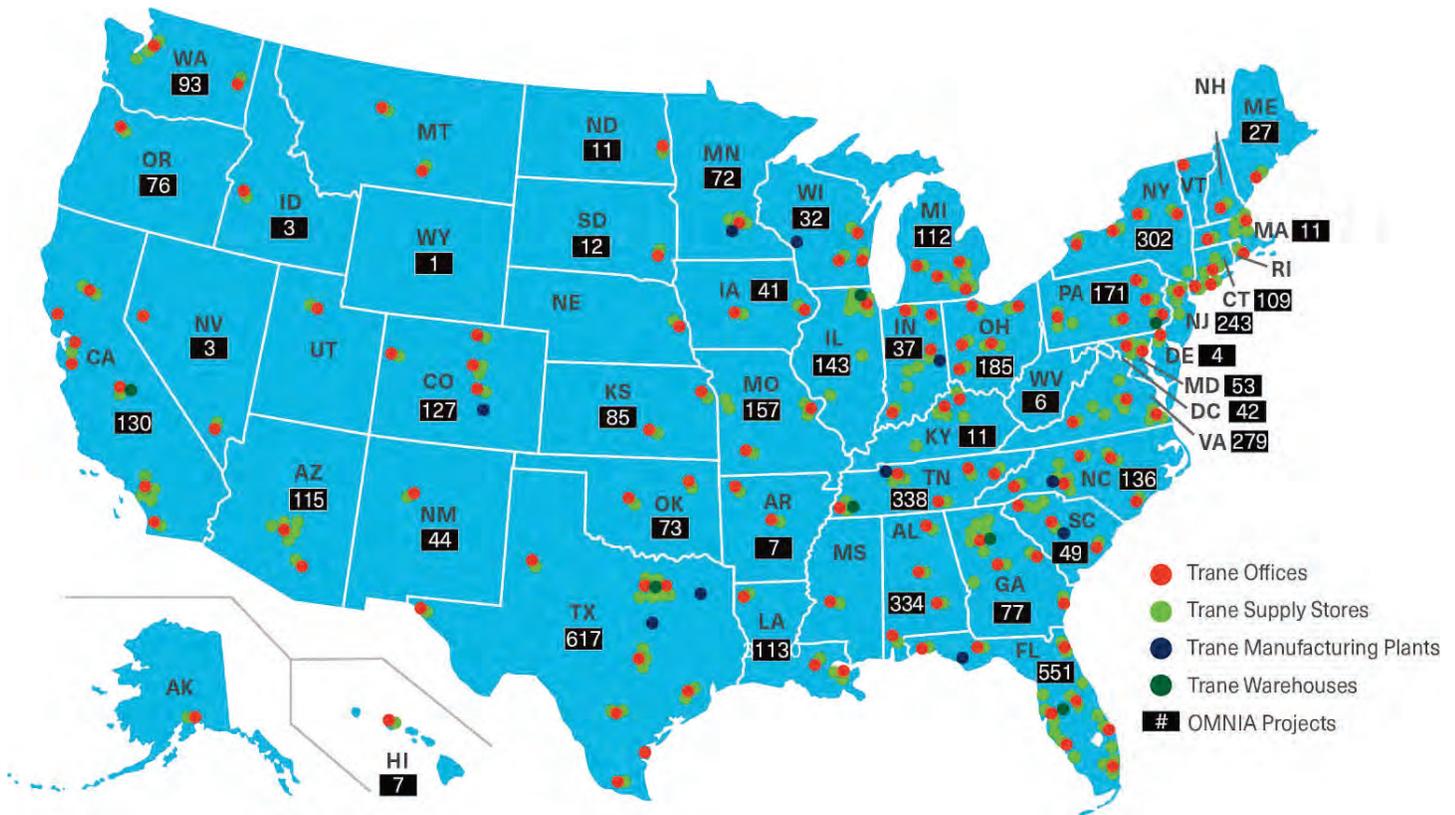
Trane has presented 122 high-level products/equipment options and 48 labor classifications and services for your consideration, and are ready to provide HVAC Equipment and Products, Installation, and Services, and other Related Products/Solutions in response to this IFB.

Trane's experience with cooperative contracting began in 1998 with the Region 4 ESC (Formerly TCPN) contract. In 2015, we were selected to provide products/services under the **Harford County Public Schools and U.S. Communities Contract** (15-JLP-023) and have executed work under this contract through the seven-year term plus an additional six months. In 2017, **Trane secured the Port of Portland and U.S. Communities Contract**. Trane® has been a qualified DOE ESCO since 1999 and has completed complex Energy Savings Performance Contracts (ESPC) for the Federal Government. An ESPC is a proven, cash flow neutral financing mechanism that pays for facility improvements that can be paid back over time based on future utility bill saving. Trane's Core Products – HVAC Equipment and Controls – drive one-third of total ESPC savings. Trane's incident (OSHA) rates are consistently 67-86% below the industry average and our current Experience Modification Rate (EMR) is 0.61. Trane has leveraged this experience to deliver dozens of ESPC projects under the Port of Portland contract.

Trane has the capacity to provide a wide range of services and products to support agencies across the country. Our 100-year history as a trusted provider of superior products and services has resulted in a robust national infrastructure. Our project offices are staffed with factory-trained service technicians that provide operational oversight, O&M, service-repair, and installation support. Trane stocks service-repair parts (over 20,000 SKUs per location), equipment, and supplies right in our customer's communities. We also have established relationships with local designers, suppliers, and subcontractors—including small/disadvantaged businesses. **Trane has booked \$1.4B+ under our Harford and Port of Portland OMNIA contracts since 2018 and has delivered services and products in 43 states.**

<b>Alabama</b>	\$22,282,635.39	<b>Kentucky</b>	\$1,349,239.50	<b>Oklahoma</b>	\$9,834,236.76
<b>Arizona</b>	\$26,639,032.49	<b>Louisiana</b>	\$1,149,096.30	<b>Oregon</b>	\$9,151,530.40
<b>Arkansas</b>	\$2,901,717.35	<b>Maine</b>	\$745,095.24	<b>Pennsylvania</b>	\$77,036,481.90
<b>California</b>	\$29,571,264.24	<b>Maryland</b>	\$14,804,678.33	<b>South Carolina</b>	\$10,944,092.54
<b>Colorado</b>	\$35,176,520.47	<b>Massachusetts</b>	\$17,961.87	<b>South Dakota</b>	\$883,364.75
<b>Connecticut</b>	\$7,352,071.05	<b>Michigan</b>	\$16,591,434.19	<b>Tennessee</b>	\$93,940,188.53
<b>Delaware</b>	\$2,575,026.00	<b>Minnesota</b>	\$30,725,610.77	<b>Texas</b>	\$164,920,070.45
<b>Florida</b>	\$182,726,065.31	<b>Missouri</b>	\$20,131,774.73	<b>Virginia</b>	\$165,765,449.25
<b>Georgia</b>	\$24,161,110.01	<b>Nevada</b>	\$259,244.50	<b>Washington</b>	\$20,555,568.09
<b>Hawaii</b>	\$1,736,184.19	<b>New Jersey</b>	\$72,477,397.96	<b>Washington, DC</b>	\$8,031,046.25
<b>Idaho</b>	\$1,571,373.00	<b>New Mexico</b>	\$6,192,604.28	<b>West Virginia</b>	\$6,786.54
<b>Illinois</b>	\$87,170,264.87	<b>New York</b>	\$87,653,962.56	<b>Wisconsin</b>	\$9,387,240.15
<b>Indiana</b>	\$19,875,621.11	<b>North Carolina</b>	\$23,380,670.18	<b>Wyoming</b>	\$49,148.52
<b>Iowa</b>	\$7,858,608.39	<b>North Dakota</b>	\$1,086,231.13		
<b>Kansas</b>	\$12,782,043.21	<b>Ohio</b>	\$47,018,541.70		

Trane's robust national infrastructure includes: 124 project offices, 205 parts/supply facilities, 6 express warehouses, and 11 manufacturing plant sites. Trane has 2,138 Salespersons and Project Managers available to support the Racine Contract.



**TRANE** LET'S GO BEYOND™

### HVAC Systems and Energy Services

*Easier, simpler and quicker with cooperative purchasing*

Becoming a participant of OMNIA Partners, Public Sector (and its subsidiaries National IPA and U.S. Communities) enables public agencies to drive efficiency, effectiveness and real savings with world-class government procurement resources and solutions. The entire portfolio of Trane equipment and services is available through OMNIA Partners saving time and money.

OMNIA Partners gives you greater purchasing power to unleash the potential of your buildings with Trane solutions. Trane is an industry leader in energy efficient, connected indoor comfort systems, providing full lifecycle support through a world-class services organization. Our mission is to collaborate with organizations to reduce the energy intensity of the world. Through innovative technology and unsurpassed expertise in buildings, we're helping organizations achieve real and enduring sustainability results.

**OMNIA PARTNERS**

**IFR Ingersoll Rand**

Trane will work with OMNIA Partners so all participating agencies are aware of our contract award via a 90 day plan that includes emailing over 80,000 direct customer contacts, a co-branded press release, and publicity campaigns via our [dedicated OMNIA website](#), direct mail, social media, and trade show promotion.

Our experienced Cooperative Contracting group is well-positioned to help Racine County—and the agencies that will piggyback off this contract—secure the goods and services they need to support their communities. With over 100 years of collective experience, Trane's Cooperative Contract Team brings to Racine County extensive knowledge and diverse know-how in navigating public procurement contracting. We look forward to bringing this experience to Racine County and its public procurement partners.

We sincerely appreciate your consideration.

## D. Responsible Bidder

### Minimum Criteria

The following minimum criteria shall be met to be eligible for this contract:

- Bidders shall demonstrate that they are financially stable;
- Bidder shall have been in business providing similar service for at least the last three (3) years;
- Bidders should have the capability of providing a combination of products, services, consulting, or other labor-based solutions to accommodate the range of products and services utilized by Participating Public Agencies; and
- Bidders shall be properly licensed and incorporated to do business in the State of Wisconsin.

Trane U.S. Inc. meets all the minimum criteria to be eligible for this contract:

- Trane is a \$14B corporation that has been in business for over 100 years. Our most recent balance sheet is shown below.
- Trane has held a cooperative contract since 1998 and has held the Harford County Public Schools and U.S. Communities Contract since 2015.
- Trane is properly licensed and incorporated to do business in the State of Wisconsin.

### 1. Detailed Response to Attachment D, Exhibit A

1. Include a detailed response to Attachment D, Exhibit A, OMNIA Partners Response for National Cooperative contract, to show proof of organizational capacity, equipment, and technical competency.

Please see Appendix 2 for Trane's detailed response to Exhibit A under Attachment D.

- a. Racine County makes no representation or warranty concerning the use of the Master Agreement by any other Participating Public Agency.

Trane acknowledges that Racine County makes no representation or warranty concerning the use of the Master Agreement by any other Participating Public Agency.

- b. The lowest responsible Bidder(s) will be required to sign Attachment D, Exhibit B, OMNIA Partners Administration Agreement.

Trane acknowledges that The lowest responsible Bidder(s) will be required to sign Attachment D, Exhibit B, OMNIA Partners Administration Agreement.

- c. If applicable, provide a sample of additional agreements that Participating Public Agencies may be asked to sign.

Trane will not require additional agreements from Participating Public Agencies.

### 2. Positive Balance Sheet

2. Provide proof of a positive balance sheet and profitable business operations for two (2) of the last three (3) years.

## Balance Sheet from 2021 Annual Report

### Trane Technologies plc Consolidated Balance Sheets

*In millions, except share amounts*

DECEMBER 31,	2021	2020
<b>ASSETS</b>		
<b>CURRENT ASSETS:</b>		
Cash and cash equivalents	\$ 2,159.2	\$ 3,289.9
Accounts and notes receivable, net	2,429.4	2,202.1
Inventories	1,530.8	1,189.2
Other current assets	351.5	224.4
<b>Total current assets</b>	<b>6,470.9</b>	<b>6,905.6</b>
Property, plant and equipment, net	1,398.8	1,349.5
Goodwill	5,504.8	5,342.8
Intangible assets, net	3,305.6	3,286.4
Other noncurrent assets	1,379.7	1,272.4
<b>Total assets</b>	<b>\$ 18,059.8</b>	<b>\$ 18,156.7</b>
<b>LIABILITIES AND EQUITY</b>		
<b>Current liabilities:</b>		
Accounts payable	\$ 1,787.3	\$ 1,520.2
Accrued compensation and benefits	544.8	451.1
Accrued expenses and other current liabilities	2,069.9	1,592.0
Short-term borrowings and current maturities of long-term debt	350.4	775.6
<b>Total current liabilities</b>	<b>4,752.4</b>	<b>4,338.9</b>
Long-term debt	4,491.7	4,496.5
Postemployment and other benefit liabilities	810.9	1,024.6
Deferred and noncurrent income taxes	581.5	578.5
Other noncurrent liabilities	1,150.2	1,291.1
<b>Total liabilities</b>	<b>11,786.7</b>	<b>11,729.6</b>
<b>Equity:</b>		
Trane Technologies plc shareholders' equity		
Ordinary shares, \$1.00 par value (259,695,768 and 263,309,250 shares issued at December 31, 2021 and 2020, respectively)	259.7	263.3
Ordinary shares held in treasury, at cost (24,500,935 and 24,500,862 shares at December 31, 2021 and 2020, respectively)	(1,719.4)	(1,719.4)
Retained earnings	8,353.2	8,495.3
Accumulated other comprehensive income (loss)	(637.6)	(631.5)
<b>Total Trane Technologies plc shareholders' equity</b>	<b>6,255.9</b>	<b>6,407.7</b>
Noncontrolling interest	17.2	19.4
<b>Total equity</b>	<b>6,273.1</b>	<b>6,427.1</b>
<b>Total liabilities and equity</b>	<b>\$ 18,059.8</b>	<b>\$ 18,156.7</b>

See accompanying notes to Consolidated Financial Statements.

2021 ANNUAL REPORT

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## Income Statement from 2021 Annual Report

### Trane Technologies plc Consolidated Statements of Comprehensive Income

*in millions*

FOR THE YEARS ENDED DECEMBER 31,	2021	2020	2019
Net earnings	\$ 1,436.6	\$ 870.0	\$ 1,428.5
Other comprehensive income (loss):			
Currency translation	(122.7)	261.5	(37.1)
Cash flow hedges			
Unrealized net gains (losses) arising during period	1.6	3.3	(2.7)
Net (gains) losses reclassified into earnings	(6.4)	1.9	0.7
Tax (expense) benefit	1.1	—	0.9
Total cash flow hedges, net of tax	(3.7)	5.2	(1.1)
Pension and OPEB adjustments:			
Prior service costs for the period	0.3	(1.9)	(5.7)
Net actuarial gains (losses) for the period	111.4	(52.5)	(41.9)
Amortization reclassified into earnings	38.6	43.4	48.1
Net curtailment and settlement (gains) losses reclassified to earnings	8.0	(1.8)	2.2
Currency translation and other	5.2	(10.4)	(1.4)
Tax (expense) benefit	(43.7)	(0.7)	(4.7)
Total pension and OPEB adjustments, net of tax	119.8	(23.9)	(3.4)
Other comprehensive income (loss), net of tax	(6.6)	242.8	(41.6)
Comprehensive income, net of tax	\$ 1,430.0	\$ 1,112.8	\$ 1,386.9
Less: Comprehensive income attributable to noncontrolling interests	(12.7)	(17.8)	(18.5)
<b>Comprehensive income attributable to Trane Technologies plc</b>	<b>\$ 1,417.3</b>	<b>\$ 1,095.0</b>	<b>\$ 1,368.4</b>

*See accompanying notes to Consolidated Financial Statements.*

## Balance Sheet from 2020 Annual Report

### Trane Technologies plc Consolidated Balance Sheets

*In millions, except share amounts*

DECEMBER 31,	2020	2019
<b>ASSETS</b>		
<b>Current assets:</b>		
Cash and cash equivalents	\$ 3,289.9	\$ 1,278.6
Accounts and notes receivable, net	2,202.1	2,184.6
Inventories	1,189.2	1,278.6
Other current assets	224.4	344.8
Assets held for sale	—	4,207.2
<b>Total current assets</b>	<b>6,905.6</b>	<b>9,293.8</b>
Property, plant and equipment, net	1,349.5	1,352.0
Goodwill	5,342.8	5,125.7
Intangible assets, net	3,286.4	3,323.6
Other noncurrent assets	1,272.4	1,397.2
<b>Total assets</b>	<b>\$ 18,156.7</b>	<b>\$ 20,492.3</b>
<b>LIABILITIES AND EQUITY</b>		
<b>Current liabilities:</b>		
Accounts payable	\$ 1,520.2	\$ 1,381.3
Accrued compensation and benefits	451.1	442.4
Accrued expenses and other current liabilities	1,592.0	1,564.2
Short-term borrowings and current maturities of long-term debt	775.6	650.3
Liabilities held-for-sale	—	1,200.4
<b>Total current liabilities</b>	<b>4,338.9</b>	<b>5,238.6</b>
Long term debt	4,496.5	4,922.9
Postemployment and other benefit liabilities	1,024.6	1,048.2
Deferred and noncurrent income taxes	578.5	572.0
Other noncurrent liabilities	1,291.1	1,398.2
<b>Total liabilities</b>	<b>11,729.6</b>	<b>13,179.9</b>
<b>Equity:</b>		
Trane Technologies plc shareholders' equity		
Ordinary shares, \$1.00 par value (263,309,250 and 262,804,939 shares issued at December 31, 2020 and 2019, respectively)	263.3	262.8
Ordinary shares held in treasury, at cost (24,500,862 and 24,499,897 shares at December 31, 2020 and 2019, respectively)	(1,719.4)	(1,719.4)
Retained earnings	8,495.3	9,730.8
Accumulated other comprehensive (loss)	(631.5)	(1,006.6)
<b>Total Trane Technologies plc shareholders' equity</b>	<b>6,407.7</b>	<b>7,267.6</b>
Noncontrolling interest	19.4	44.8
<b>Total equity</b>	<b>6,427.1</b>	<b>7,312.4</b>
<b>Total liabilities and equity</b>	<b>\$ 18,156.7</b>	<b>\$ 20,492.3</b>

*See accompanying notes to Consolidated Financial Statements.*

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2020 ANNUAL REPORT

## Income Statement from 2020 Annual Report

### Trane Technologies plc Consolidated Statements of Comprehensive Income

*In millions, except per share amounts*

FOR THE YEARS ENDED DECEMBER 31,	2020	2019	2018
Net revenues	\$ 12,454.7	\$ 13,075.9	\$ 12,343.8
Cost of goods sold	(8,651.3)	(9,085.5)	(8,582.5)
Selling and administrative expenses	(2,270.6)	(2,320.3)	(2,249.2)
Operating income	1,532.8	1,670.1	1,512.1
Interest expense	(248.7)	(242.8)	(221.0)
Other income/(expense), net	4.1	(28.4)	(33.3)
Earnings before income taxes	1,288.2	1,398.9	1,257.8
Benefit (provision) for income taxes	(296.8)	(238.6)	(234.9)
Earnings from continuing operations	991.4	1,160.3	1,022.9
Discontinued operations, net of tax	(121.4)	268.2	334.6
Net earnings	870.0	1,428.5	1,357.5
Less: Net earnings from continuing operations attributable to noncontrolling interests	(14.2)	(15.2)	(15.1)
Less: Net earnings from discontinuing operations attributable to noncontrolling interests	(0.9)	(2.4)	(4.8)
Net earnings attributable to Trane Technologies plc	\$ 854.9	\$ 1,410.9	\$ 1,337.6
<b>Amounts attributable to Trane Technologies plc ordinary shareholders:</b>			
Continuing operations	\$ 977.2	\$ 1,145.1	\$ 1,007.8
Discontinued operations	(122.3)	265.8	329.8
Net earnings	\$ 854.9	\$ 1,410.9	\$ 1,337.6
<b>Earnings (loss) per share attributable to Trane Technologies plc ordinary shareholders:</b>			
Basic:			
Continuing operations	\$ 4.07	\$ 4.74	\$ 4.08
Discontinued operations	(0.51)	1.10	1.33
Net earnings	\$ 3.56	\$ 5.84	\$ 5.41
Diluted:			
Continuing operations	\$ 4.02	\$ 4.69	\$ 4.03
Discontinued operations	(0.50)	1.08	1.32
Net earnings	\$ 3.52	\$ 5.77	\$ 5.35

2020 ANNUAL REPORT

# Trane Technologies plc

## Consolidated Statements of Comprehensive Income (continued)

*in millions, except per share amounts*

FOR THE YEARS ENDED DECEMBER 31,	2020	2019	2018
Net earnings	\$ 870.0	\$ 1,428.5	\$ 1,357.5
Other comprehensive income (loss):			
Currency translation	261.5	(37.1)	(230.6)
Cash flow hedges			
Unrealized net gains (losses) arising during period	3.3	(2.7)	1.2
Net gains (losses) reclassified into earnings	1.9	0.7	0.9
Tax (expense) benefit	—	0.9	(0.1)
Total cash flow hedges, net of tax	5.2	(1.1)	2.0
Pension and OPEB adjustments:			
Prior service costs for the period	(1.9)	(5.7)	(16.0)
Net actuarial gains (losses) for the period	(52.5)	(41.9)	12.8
Amortization reclassified into earnings	43.4	48.1	50.7
Settlements/curtailments reclassified to earnings	(1.8)	2.2	2.5
Currency translation and other	(10.4)	(1.4)	7.5
Tax (expense) benefit	(0.7)	(4.7)	(17.2)
Total pension and OPEB adjustments, net of tax	(23.9)	(3.4)	40.3
Other comprehensive income (loss), net of tax	242.8	(41.6)	(188.3)
Comprehensive income, net of tax	\$ 1,112.8	\$ 1,386.9	\$ 1,169.2
Less: Comprehensive income attributable to noncontrolling interests	(17.8)	(18.5)	(16.9)
<b>Comprehensive income attributable to Trane Technologies plc</b>	<b>\$ 1,095.0</b>	<b>\$ 1,368.4</b>	<b>\$ 1,152.3</b>

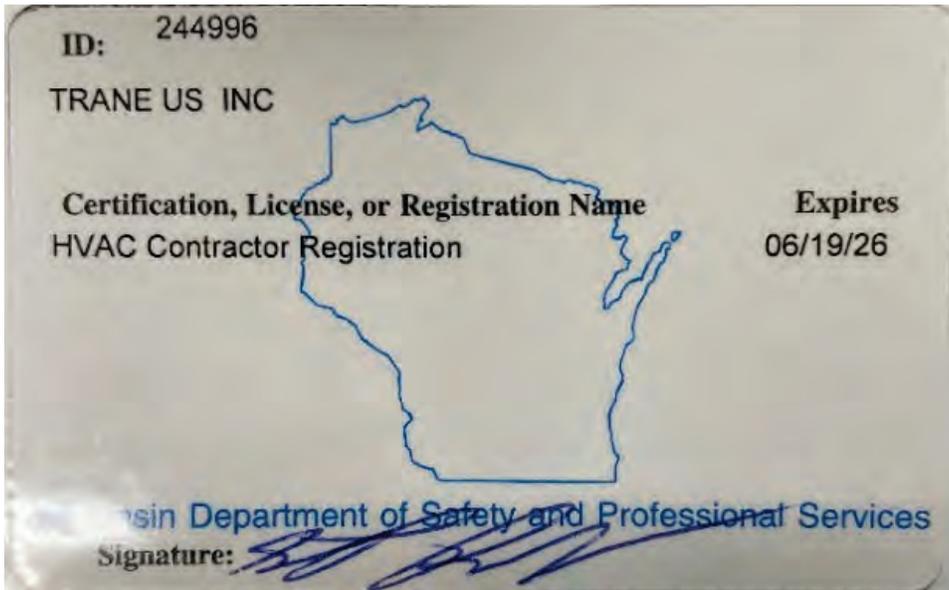
*See accompanying notes to Consolidated Financial Statements*

### 3. Business License

3. Business license and applicable information that Bidder can do business in the State of Wisconsin. List the states where other business or contractor licenses are held.

Trane is licensed to do business in Wisconsin and **all other states in the United States.**

#### Wisconsin HVAC Contractor Registration



# Wisconsin Contractor Re-Certification



## STATE OF WISCONSIN DEPARTMENT OF ADMINISTRATION

Tony Evers, Governor  
Kathy Blumenfeld, Secretary-designee  
Naomi De Mers, Division Administrator

March 28, 2022

Trane U.S., Inc.  
Attn: Tyler Schmitz  
5302 Voges Rd.  
Madison, WI 53718

Dear Tyler:

Thank you for applying for Division of Facilities Development (DFD) contractor re-certification.

DFD reviewed your updated application and has issued a re-certification decision.

Trane U.S., Inc. is re-certified to bid in the following divisions of work up to the following thresholds:

<u>Division of Work</u>	<u>Bid Threshold (Per Project)</u>
General	\$20,000,000
Mechanical	\$20,000,000
Other:	
Equipment Supplier	\$4,000,000

Please note that you are also re-certified to bid on projects in the Small Project Program (total project budget of \$300,000 or less).

When submitting your bids, please use your company name (Trane U.S., Inc.) as certified. Please do not submit bids outside of your certified divisions of work and/or over your certified bid amount thresholds (per project) as these bids will be rejected. Your new certification is valid until March 28, 2024. At that point, you will need to apply again for re-certification.

We look forward to your continued business. Please email us at [dfdcertification@wisconsin.gov](mailto:dfdcertification@wisconsin.gov) if you have any questions.

Sincerely,

Division of Facilities Development

Wisconsin Department of Administration

Facilities Development, PO Box 7866, Madison, WI 53707-7866  
Phone: (608) 266-2731 | DOA.WI.GOV





## ADDITIONAL REMARKS SCHEDULE

<b>AGENCY</b>	<b>NAMED INSURED</b> Trane U.S. Inc. dba Trane One Centennial Avenue Piscataway, New Jersey 08854 United States  <b>EFFECTIVE DATE:</b>
---------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------

### ADDITIONAL REMARKS

**THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,**

**FORM NUMBER:** \_\_\_\_\_ **FORM TITLE:** \_\_\_\_\_

Job Description: For Purposes of RFP Submission and General Evidence of Insurance

For questions regarding this certificate of insurance contact: Trane Technologies Corporate Risk Management Email: [rhonda.darbouze@tranetechnologies.com](mailto:rhonda.darbouze@tranetechnologies.com) Phone: 732-652-6778

ACORD 101 (2008/01)

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# 5. Bonding Capacity

5. Bonding capacity and capability of securing high dollar Performance Bonds.

Trane can consider single projects up to \$100 million within an aggregate limit of \$300 million.

# 6. W-9

6. Completed and signed W-9 Request for Taxpayer Identification Number and Certification form.

Form **W-9**  
(Rev. October 2018)  
Department of the Treasury  
Internal Revenue Service

## Request for Taxpayer Identification Number and Certification

▶ Go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9) for instructions and the latest information.

**Give Form to the requester. Do not send to the IRS.**

---

Print or type. See Specific Instructions on page 3.

**1** Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.  
**TRANE U.S. INC.**

**2** Business name/disregarded entity name, if different from above

**3** Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only **one** of the following seven boxes.

Individual/sole proprietor or single-member LLC     C Corporation     S Corporation     Partnership     Trust/estate

Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ \_\_\_\_\_

**Note:** Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

Other (see instructions) ▶ \_\_\_\_\_

**4** Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) **5**

Exemption from FATCA reporting code (if any) \_\_\_\_\_

(Applies to accounts maintained outside the U.S.)

**5** Address (number, street, and apt. or suite no.) See instructions.  
**800-E BEATY STREET**

**6** City, state, and ZIP code  
**DAVIDSON, NC 28036**

**7** List account number(s) here (optional)

Requester's name and address (optional)

---

**Part I Taxpayer Identification Number (TIN)**

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

**Note:** If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number										
or										
Employer identification number										
2	5	-	0	9	0	0	4	6	5	

---

**Part II Certification**

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

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**Sign Here**

Signature of U.S. person ▶

Date ▶ 1/4/2022

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**General Instructions**

Section references are to the Internal Revenue Code unless otherwise noted.

**Future developments.** For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9).

**Purpose of Form**

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

*If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.*

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Cat. No. 10231X

Form **W-9** (Rev. 10-2018)

## 7. Background Information

7. Furnish background of Bidder, including such information as size of the firm, legal status (corporation or partnership, etc.) lines of business, management and technical expertise, financial position, and years in business. Include any unique approaches or techniques developed and used by the firm.

Trane U.S. Inc. (Trane) is a wholly owned subsidiary of Trane Technologies (NYSE: TT) and was incorporated in 1929. Trane is a global climate innovator with over \$14 billion in annual revenue. We offer a wide range of products and services known for high-performance efficiency and sustainability. These prominent brands include Trane, Thermo King, and a host of other category-leading brands.

Trane first received NAESCO Accreditation in 2004 and is one of only 13 NAESCO Accredited Energy Service Providers. The ESP designation is defined as: “The technical and managerial competence to provide energy supply through the development and implementation of build/own/operate distributed generation, cogeneration or combined heat and power (CHP) projects or the firm contracting energy supply.”

In addition, Trane has been a qualified DOE ESCO since 1999 and has managed energy services performance contracting programs for the Defense Logistics Agency, Department of State, Navy, Army, Air Force, US Forest Service, US Geological Survey, and the General Services Administration. Trane has been hired for six follow-on ESPC projects at three DOD locations and our Federal ESPC projects have achieved a 30% average energy reduction from baseline. Trane has received multiple awards, including the Federal Energy Management Program Award of the Year and the Presidential Award for Leadership in Federal Energy Management. Additional awards/recognitions include:

- 2022, Fortune magazine World’s Most Admired Companies — 10th consecutive year
- 2022, [Lifestory Research “America’s Most Trusted® HVAC Brand”](#)—8th consecutive year
- 2021, Forbes America’s Best Employers for Diversity in America
- 2021, [Top Supplier Diversity Programs, U.S. Veterans Magazine’s \(USVM\) annual Best of the Best list](#)
- 2020, Top Veteran-friendly Company, U.S. Veterans Magazine’s (USVM) annual Best of the Best list—3rd consecutive year
- 2020, Dow Jones Sustainability North America Index (DJSI)—10th consecutive year



Accredited NAESCO since 2004. One of only 13 NAESCO Accredited Energy Service Providers (ESP).



Qualified Department of Energy ESCO since 1999 and DOE IDIQ ESPC contract holder.



Committed to reducing one gigaton of carbon emissions from our customers’ footprint by 2030 – the largest B2B customer climate commitment.



Included on World’s Most Admired Companies list by Fortune Magazine – 10th consecutive year.



Recognized as Top Supplier Diversity Programs by U.S. Veterans Magazine.



Named America’s Most Trusted® HVAC brand by Lifestory Research® – 7th consecutive year.



- 2020, Consulting Engineer Product of the Year, BAS, Controls, Energy Management – Building Connect+
- 2020, 3BL Media, 100 Best Corporate Citizens—7th consecutive year
- 2020 SECNAV Energy Award for the Small Shore Base category, Naval Undersea Warfare Center Keyport ESPC
- 2020 Federal Energy and Water Management Award for its Off-Grid Energy Savings Performance Contract (ESPC) ENABLE Project, U.S. Forest Service ENABLE ESPC
- [2019, Business Intelligence Group \(BIG\), Green Company of the Year](#), Manufacturing and Technology category
- [2019, Urban Green Council \(UBC\), Partner of the Year](#)
- 2019, World Environment Center Gold Medal Award for International Corporate Achievement in Sustainable Development
- 2019, named to the FTSE4 Good Index Series that measures the performance of companies demonstrating strong environmental, social and governance (ESG) practices—5th consecutive year.
- 2019, FEMP Annual FEDS Spotlight recipient, Lara Buluc, Co-Project Manager, USDA First Off-Grid ESPC ENABLE project, U.S. Forest Service ENABLE ESPC
- 2019, Dow Jones Sustainability World and North America Indices (DJSI)—9th consecutive year
- 2019, Corporate Responsibility Magazine, Ranked 60th, 100 Best Corporate Citizens List—6th consecutive year
- 2019, Corporate Knights Global 100 Most Sustainable Corporations Index
- 2019, Alliance to Save Energy, STAR Award for Doubling Down on Efficiency
- 2019 Regional Forester’s Honor Awards “ENABLE Off-Grid Mobile Solar PV & LED Lighting Project”, U.S. Forest Service ENABLE ESPC

## Trane’s Strengths

**30** years of experience on a national cooperative

**100+** years in business

Hold **#1 or #2 market positions** in all our business lines globally as a corporation

Experienced sales force, 12 Regions / **124 offices** across the U.S. able to do business in **all 50 states**

**700+** LEED APs, **182** Professional Engineers, and **240** Certified Energy Managers

Active in ASHRAE, BOMA, USGBC.

**Trane engineer is current president of ASHRAE.**

Nationally Accredited Energy Service Provider (**ESP**) with NAESCO for 18 years

Leader in industry training - proven through **NC3 Sponsorship** (National Coalition of Certification Centers)

**Product Innovation:** chiller design, applications company, IAQ company, thermal energy - comprehensive

**Trane Vision:** A World of Sustainable progress and enduring results

**Trane Purpose:** We advance the quality of life by creating comfortable, sustainable, and efficient environments

**Customer for Life** Mentality

Dedicated Commitment to **Safety** – Experience Modification Rate of 0.61

Commitment to **Sustainability** – Center for Energy Efficiency & Sustainability (CEES)

**Energy Services & Controls** concentrated offerings

## Size of Firm

Trane has over 34,000 employees worldwide. In the United States, Trane employs over 11,000 salaried employees and 13,500 hourly employees.

## Legal Status

Trane is a corporation.

## Lines of Business

Trane has a 100+ year history as a trusted provider of superior HVAC equipment and Building Automation Systems (BAS)/Energy Management Control Systems (EMCS) products and services. We have a global network of offices and service/parts locations to support energy conservation projects. Our local service organization will provide 24/7 technical support and access to a robust national supply chain. This community-based approach will help keep your operations running smoothly and provide rapid response in case of emergency. Our lines of business are provided under **Lines of Business: Trane Services** and **Lines of Business: Trane Building Systems and Technologies**.

## Management and Technical Expertise

### LOCAL PROJECT MANAGEMENT APPROACH

Trane's projects are managed locally. Each Trane office has the qualifications and hands-on relevant experience to deliver across all project phases. Trane offers vast in-house capabilities for design, equipment, contracting, controls, service, and project financing. A qualified and dedicated Project Manager (PM) is assigned to manage the day-to-day installation and construction activities ECMs at the project site in accordance with the design, costs, schedule, safety protocols, and QC processes. The PM leads and manages the installation team, including subcontractors, and is responsible for the Project Schedule. The following corporate management/technical resource pool is available to support the local delivery team:

Trane Key Resources	Trane Subject Matter Experts	Outside Resources	Trane Credentials
<ul style="list-style-type: none"><li>• Project Developers (48)</li><li>• Energy Engineers (44)</li><li>• M&amp;V Engineers (10)</li><li>• EH&amp;S Specialists (58)</li><li>• Technicians (1800+)</li><li>• Commissioning Agents (30)</li><li>• Quality Control Specialists (30)</li><li>• Construction Managers (133)</li><li>• Trainers (60)</li><li>• Marketing/Technical Writers</li></ul> <p><i>* Approximate resources available to support projects across each phase</i></p>	<ul style="list-style-type: none"><li>• Utility Supply Side Specialists</li><li>• Renewable Energy &amp; Power Systems Team</li><li>• Controls Engineering, Design &amp; Intelligent Services</li><li>• HVAC Applications</li></ul>	<ul style="list-style-type: none"><li>• Engineering</li><li>• Design Consultants</li><li>• Subcontractors</li><li>• Vendors</li></ul>	<ul style="list-style-type: none"><li>• 100 Certified Six Sigma Professionals</li><li>• 182 Professional Engineers (PE)</li><li>• 240 Certified Energy Managers (CEM)</li><li>• 660 LEED Accredited Professionals</li><li>• 700 Degreed Engineers</li></ul>

After the project is constructed, Trane’s local service and maintenance team ensures optimum operations. Through the innovative use of data trending and analytics, Trane can provide opportunities for continuous system improvement optimization. **Most companies do not directly employ HVAC or Controls Service Personnel.** When a customer needs service, a locally based service company will respond on their behalf. Trane’s truck-based service personnel promptly respond to any request. These service experts will show up in a Trane van, wearing a Trane uniform. They are direct employees of Trane. Their experience level ranges from journeymen to experienced senior technicians and supervisors – some of whom possess more than 30 years of HVAC industry experience. Our service technicians are skilled in maintaining and repairing not only Trane equipment, but nearly every manufacturer in the industry.

Trane’s local project delivery model offers the following advantages:

- **A local service organization to provide 24/7 technical support and a robust national supply chain.** Our service technicians are skilled in maintaining and repairing not only Trane equipment, but nearly every manufacturer in the industry.
- **Intelligent Services/BAS technicians** to analyze building data and provide scheduled and on-call local service support. This will contribute to uptime for ongoing operations and provide rapid response in case of emergency.
- **Established relationships** with local designers, suppliers, and subcontractors—including small/disadvantaged businesses. Our network includes a pool of pre-qualified sub-contractors to perform work such as electrical, piping, rigging, etc.
- **Expertise to perform system upgrades and replacements**, including major mechanical equipment such as chillers, cooling towers, air handlers, pumps, and coils. Trane’s local offices have dedicated professionals in each of the following areas:
  - o **Contracting Solutions:** Total comprehensive solutions, including guaranteed energy savings performance contracting and large turnkey installation projects.
  - o **Trane Equipment:** Energy-efficient, environmentally friendly HVAC equipment for both comfort and process applications.
  - o **Controls:** State-of-the-art building automation systems. Our local offices are complete with dedicated Controls Demonstration Centers for client education and training.
  - o **Service:** Our service technicians are skilled in maintaining and repairing not only Trane equipment, but HVAC systems from nearly every manufacturer in the industry.
  - o **Supply:** Full line of Trane parts, non-Trane parts, maintenance supplies, safety equipment, refrigeration, and maintenance/service tools warehoused locally.
  - o **Training:** Fully equipped training facilities for seminars and training on industry issues Awards

## SAFETY APPROACH

Safety Planning is woven into Trane’s Construction/Installation Approach. See Section: “Trane’s Safety Policy” for additional information.

## MITIGATING DISRUPTIONS TO DAILY OPERATIONS

Virtually all our projects feature construction activities across multiple buildings and work in occupied spaces. Our local teams are experienced in scheduling work activities and implementing projects in a way that minimizes disruption to daily operations. We work with our customers to develop an effective project schedule and coordinate all implementation activities with project site representatives. For work performed in occupied areas – such as lighting and water conservation upgrades – we will attempt to schedule installation during low-occupancy times, as well as publish work schedules and estimated completion times well in advance.

Trane will schedule installations in occupied areas – such as lighting and water conservation upgrades – during low-occupancy times and create/publish work schedules with estimated completion times in advance. We will also develop a detailed facility phasing plan for customer review prior to the start of construction. This phasing plan will include allowable work hours, days of the week that will be completed, and acceptable shutdown times for each occupied space.

Trane will coordinate with facility leadership and create signage that notifies occupants of upcoming work and shutdowns. Trane will actively manage all aspects of construction and will provide site supervision to manage crews and immediately respond to any occupant issues or questions. Trane will hold meetings with the facility occupants to keep the Trane team informed of the access and scheduling requirements for the proposed efficiency measures which impact implementation cost estimates and phasing plans.

Based on input from each building manager, we will develop a detailed phasing plan for each facility for your team’s review prior to the start of construction. This phasing plan will include allowable work hours, days of the week that work is to be completed, and acceptable shutdown times for each occupied space.

### ***To keep your project on track and to minimize disruption to day-to-day activities, our team will:***

 <p>Pre-fabricate materials in preparation for high periods of construction activity</p>	 <p>Schedule major construction activities during holidays and unoccupied times</p>	 <p>Employ night and weekend schedules to maintain progress throughout the year</p>	
<p>Perform lighting and water retrofits early in the project to accelerate savings</p> 	<p>Concurrently schedule major construction activities that generate noise for an extended period of time</p> 	<p>Publish schedules in advance, and coordinate any shutdowns or entry into occupied spaces w/building occupants</p> 	<p>Perform daily/nightly clean-up and inspections</p> 

## Financial Position

Trane Technologies is a \$14B public corporation with a strong investment grade rating as indicated by Moody's and S&P (Baa2/BBB). Thus, our financial strength allows us to meet our energy performance guarantees. Trane has and can use escrow accounts where needed with scheduled construction draws as appropriate. In addition, we have a dedicated team of energy engineers that track project performance on a detailed ECM basis and take corrective actions if needed or appropriate.

The Income Statement and Balance Sheet from our most recent annual report is included in Section D.2. of this response. Trane's entire annual report can be viewed at the following web address along with all other financial documents: <https://investors.tranetechnologies.com/financial-information/financial-summary/default.aspx>. A letter from J.P. Morgan summarizing their experience with Trane is provided below.

Jeffrey Stern  
Executive Director  
Diversified Industrials  
Global Corporate Bank

383 Madison Avenue  
New York, NY 10179

T 1 212 622 9977  
F 1 917 849 4697  
jeffrey.x.stern@jpmorgan.com

J.P.Morgan

January 21, 2022

Ladies and Gentlemen:

At the request of Trane Technologies (the "Company"), the parent company of Trane US, Inc., we are forwarding a resume of our banking experience when dealing with the Company.

JPMorgan Chase Bank, N.A. and our related affiliates, have had a significant banking relationship with the Company dating back several decades. Currently we accommodate the Company with credit facilities which include a low 10 figure unsecured revolving credit facility. Trane US, Inc. has also maintained a U.S. \$ checking account with the J.P. Morgan Chase Bank, N.A. in New York for over 10 years. Our dealings over the years with the Company have always been handled in a very satisfactory manner.

JPMorgan Chase Bank, N.A. considers the Company to be a valued client and the organization is highly regarded by us.

We are furnishing this letter and the information contained herein to you as an accommodation to the Company and on the condition that this letter and the information contained herein is treated as confidential, that it is not intended to be, and does not constitute, representations regarding the general condition of the Company, its management or its future ability to meet its obligations, that neither we nor any of our officers, employees and agents shall have any liability or responsibility in connection herewith.

Best regards,

  
Executive Director

THE INFORMATION IN THIS LETTER IS PROVIDED AT THE REQUEST OF TRANE TECHNOLOGIES. THIS LETTER AND ANY INFORMATION PROVIDED IN CONNECTION THEREWITH ARE FURNISHED ON THE CONDITION THAT THEY ARE STRICTLY CONFIDENTIAL. THAT NO LIABILITY OR RESPONSIBILITY WHATSOEVER IN CONNECTION HERewith SHALL ATTACH TO JPMORGAN CHASE BANK, N.A., ANY OF ITS SUBSIDIARIES AND/OR AFFILIATES, OR ANY OF THEIR OFFICERS, EMPLOYEES OR AGENTS, THAT THIS LETTER MAKES NO REPRESENTATIONS REGARDING THE GENERAL CONDITION OF THE SUBJECT, ITS MANAGEMENT, OR ITS FUTURE ABILITY TO MEET ITS OBLIGATIONS, AND THAT ANY INFORMATION PROVIDED IS SUBJECT TO CHANGE WITHOUT NOTICE. ALL PERSONS ARE INFORMED THAT THIS RESPONSE IS A STRICTLY CONFIDENTIAL RESPONSE TO A REQUEST AND MAY BE INCOMPLETE. ANY STATEMENT ON THE PART OF JPMORGAN CHASE BANK, N.A. OR ANY OF ITS OFFICERS, AS TO THE RESPONSIBILITY OR STANDING OF ANY PERSON, FIRM OR CORPORATION, OR AS THE VALUE OF ANY SECURITIES, IS GIVEN AS A MERE MATTER OF OPINION FOR WHICH NO RESPONSIBILITY, IN ANY WAY, IS TO ATTACH JPMORGAN CHASE BANK, N.A. OR ANY OF ITS OFFICERS. FURTHERMORE, NO OFFER OR SOLICITATION ON OUR PART WITH RESPECT TO THE SALE OF PURCHASE OF SECURITIES IS INTENDED OR TO BE IMPLIED.

## Years in Business

Trane has been manufacturing world-class HVAC equipment for over 100 years.

## Unique Approaches or Techniques Developed and Used by Firm

Trane began in 1885 as a family plumbing business in La Crosse, Wisconsin. Joined by his son Reuben, a mechanical engineer, James Trane developed an innovative low-pressure steam heating system. By 1913, the family had incorporated as The Trane Company. Over the next hundred years, Trane established its position as a pioneer in climate control by patenting its first air conditioner in 1931 then launching the Turbovac, a new type of water chiller that fundamentally altered the industry's approach to large-building air conditioning systems. These early innovations paved the way for Trane's industry-leading commercial air conditioner, CenTraVac™— the highest efficiency, lowest emissions, most reliable chiller on the market. Today Trane is an HVAC OEM operating worldwide, providing products and services unmatched in the industry. Just a few of Trane's unique approaches include:

- Building automation systems providing continuous commissioning
- Design, and energy simulation software used by many of the world's top design firms
- Intelligent systems that can help provide predictive failure analysis
- P3 partnerships providing educational opportunities,
- Thermal storage systems allowing load shedding and off-peak utility optimization
- Innovative partnerships with VRF technology

## Lines of Business: Trane Services

Trane Services help optimize building performance by connecting building and machine data to deliver the knowledge and power needed to manage buildings. Our offerings include:

### ENERGY & SUSTAINABILITY

- **Energy Conservation Measures** Trane has been an accredited Energy Services Company (ESCO) since 1999 and has **executed almost \$3.5 billion in guaranteed Energy Savings Performance Contracting (ESPC) work**. We solve energy problems holistically with top digital and analytical tools, engineering expertise, and a full portfolio of products and services. ESPC projects allow building owners to pay for significant building upgrades that improve energy efficiency via future energy savings that are guaranteed by Trane, eliminating the need for a significant capital expense. In addition to our work in the Commercial/State & Local/K-12/Higher Education vertical markets, Trane has been a Trane® has been a qualified DOE ESCO since 1999 and has **implemented Federal ESPCs** for the Defense Logistics Agency, Department of State, Navy, Army, Air Force, US Forest Service, US Geological Survey, and the General Services Administration.
- **Energy Monitoring & Analysis** Trane uses intelligent tools to monitor, track, predict, and optimize building operations. We offer a complete energy management solution that delivers improved building performance and reduced operating costs. Trane's software-driven energy

load management and predictive analytics tools forecast, plan, and manage energy consumption to avoid higher electricity prices. Trane Intelligent Services has four major components:



### **Building Performance**

Trane building professionals analyze data and equipment behavior in the context of the overall system, discovering hidden information and opportunities for improvement.



### **Energy Performance**

Trane professionals maintain 24/7 watch over your critical building systems, proactively detecting issues and analyzing alarms, and initiating responses according to your specific rules of engagement.



### **Active Monitoring**

Trane Energy Optics® and Trane Energy Analyzer—illustrate your building's energy use. Because if we can see a problem, we can change it.



### **Energy Assessment**

Trane's cloud-based building energy management system (BEMS) service uncovers energy waste in every corner of your building.

- **Active Energy Management** Trane develops and implements integrated Active Energy Management programs that can lower energy costs, build sustainability, and reduce dependence on the electrical grid.
  - o Renewable Energy & Distributed Energy Resources Trane can develop distributed energy resources (DER) to improve sustainability and resilience. Our services include onsite installations and renewable energy purchasing strategies, including virtual power purchasing agreements (VPPA). Trane's dedicated Renewable and Resilient Energy and Power Systems Team can implement solar PV, solar hot water heating, rainwater harvesting, biomass heating plants, geothermal heat pumps, cogeneration biogas, water/wastewater, and smart grid technology.
- **Financing & Energy Services Contracting** Trane's Financing Group provides expertise in grants, utility rebates, performance contracts, energy services agreements, and public-private partnerships that fund sustainability programs. Trane experts help customers select the best tool for their goals. Trane experts also help customers increase their buying power as part of a purchasing cooperative or group. Trane is a member of the nation's leading cooperative and group purchasing organizations supporting public, non-profit, and health care organizations.

## OPERATE, MAINTAIN & REPAIR

- **Connectivity and Cloud Services** Trane provides secure and scalable solutions via Trane’s building optimization tools that reduce operating costs and improve comfort and efficiency. Trane Connect is a cloud-based customer portal that offers secure, firewall-protected access to building systems for remote monitoring and routine maintenance. Trane’s Tracer Ensemble Building Management System is a premier web-based building management system that eliminates the complexity of managing multiple building systems across multiple sites. Tracer manages sites from a PC, tablet, or smart phone. Trane works closely with IT teams to help ensure our connected building management systems provide secure access for authorized users, and only authorized users. Trane provides seamless integration of any open standard protocol building system so that sub-systems work together and share vital information.
- **HVAC System Management** Trane develops warranty and maintenance programs that improve budget planning, save energy, and minimize downtime. Offerings include start-up services to ensure a new system is performing to spec., service agreements to extend system life, extended warranties that provide longer duration/comprehensive coverage, and predictive services to detect issues early.
- **HVAC System Repair** Trane provides locally based, factory-trained technicians to service Trane systems as well as any other brand of HVAC equipment.
- **Rental Solutions** Trane Rental Services provides 24/7/365 local service, engineering expertise and an expansive fleet of rental chillers, air conditioners, cooling towers, air handlers, portable heaters, power generators, and ancillary products for planned or unplanned, simple, or complex, and short- or long-term needs.
- **Parts and Supplies** Trane Supply provides HVAC service professionals with parts, supplies, and replacement equipment to help them serve their customers via a network of more than 360 locations throughout the United States and Canada.



## DESIGN, UPGRADE & MODERNIZE

- **Upgrading Existing Equipment** Trane upgrades help HVAC systems operate more efficiently and environmentally friendly. Typical upgrades include controls, variable frequency drives, and refrigerant conversions.
- **Building Systems Design and Upgrades** Trane maintains high performing buildings by keeping building automation, HVAC, lighting, and central plants up to date with the latest BAS innovations.
- Trane has expertise in **Central Plant Design**. Examples include:
  - o **Clemson University Central Energy Plant**, Clemson, SC – Feasibility Study, Design, Construction



- o [Georgia World Congress Center, Atlanta, GA](#) – 30 MBTU of new condensing boilers and a new Central Energy Plant that includes new energy efficient chillers, boilers, and pumping systems.
- o [Hillsborough County Central Energy Plant, Tampa, FL](#) – Design, Construction, Operation and Maintenance of a 3,900-ton central energy plant with 84 thermal ice storage tanks and extensive underground piping system connecting seven county buildings.
- o [Pinellas County Central Energy Plant, Clearwater, FL](#) – Feasibility Study, Design, Construction, and Operations and Maintenance
- o [Pueblo County Courthouse, Pueblo, CO](#) – EarthWise® Ice-Enhanced, Air-Cooled Chiller Plant
- o [Tampa Housing Authority and Bank of America Development, Tampa, FL](#) – Encore Central Energy Plant
- Trane has experience working with municipal owners and their design consultants on Wastewater Treatment Plant Equipment and Maintenance projects. Examples include:
  - o [City of Bremerton, WA, Wastewater Treatment Plant](#)
  - o [City of Lakota, WA, Wastewater Treatment Plant](#)
  - o [City of Lynwood, WA, Wastewater Treatment Plant](#)
  - o [City of Monroe, WA, Wastewater Treatment Plant](#)
  - o [City of Santa Rosa, CA, Wastewater Treatment Plant](#)
  - o [LOTT Cleanwater Alliance, Budd Inlet, Tacoma, WA, 335kW digester methane gas driven cogeneration systems and Treatment Plant](#)
- **HVAC System Retrofits** Trane evaluates whether a retrofit or replacement will provide the better return on investment. Trane provides the service and support from conception to completion to select the ideal equipment and controls for buildings and can implement the installation as mechanical contractor.
- **Indoor Air Quality (IAQ)** Trane’s IAQ Assessments include a fact-based, comprehensive review of building results and a straightforward report of condition. We can make recommendations on how to improve building air quality to meet the latest industry guidelines and implement the changes. Trane also provides ongoing IAQ monitoring. Trane’s system improvements meet industry guidelines and reduce energy costs. Our solutions include:
  - o Ultraviolet Lamps in Ductwork to prevent microbial buildup on air filters, cooling coils, drain pans, and duct surfaces.

**Optimize Indoor Air Quality**

HVAC systems play a prominent role in air cleaning. In addition to our best-in-class equipment, Trane's IAQ Assessments provide a comprehensive review and report of building conditions and concrete guidance based on your overall system performance. Our IAQ solutions include ultraviolet lamps in ductwork, dynamic air cleaners, and Synexis® Dry Hydrogen Peroxide (DHP™) which works 24/7 to fight certain viruses, bacteria, mold, odors, and insects. Our approach covers the four key areas of air quality improvement:

			
<b>Dilute</b> <i>Use outdoor air to dilute buildup of contaminants</i>	<b>Exhaust</b> <i>Exhaust air from kitchens, restrooms, and combustion systems efficiently</i>	<b>Contain</b> <i>Maintain indoor humidity levels and remove contaminants</i>	<b>Clean</b> <i>Use HVAC system to reduce particles, odors, or microorganisms</i>

- o Dynamic Air Cleaners to ensure that your HVAC system not only heats and cools—but cleans the air.
- o Synexis® Dry Hydrogen Peroxide (DHP™) to fight viruses, bacteria, mold, odors, and insects.

Trane’s recent K-12 IAQ experience includes:

- [City of Des Peres, MO](#)
- [San Felipe Del Rio Consolidated Independent School District, TX](#)
- [Mason Public Schools, MI](#)

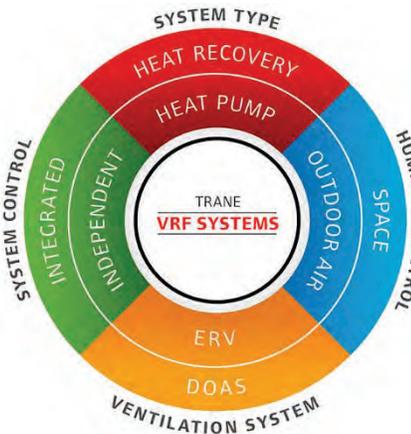
The following K-12 IAQ initiatives were completed under Trane’s OMNIA agreement:

- Normandy School District, MO
- Muhlenberg County Schools, KY
- Danville Independent Schools, KY
- Webster County Schools, KY

## Lines of Business: Trane Building Systems and Technologies

### VARIABLE REFRIGERANT FLOW (VRF) AND DUCTLESS SYSTEMS

Variable Refrigerant Flow (VRF) technology is taking the HVAC industry by storm. VRF technology is a popular choice for a variety of building sizes and uses by offering higher energy efficiency, smaller footprints, and greater flexibility. Additionally, VRF heat pumps and heat-recovery systems are popular strategic electrification solutions as part of the greater drive towards the decarbonization of HVAC systems.



Trane has paired applications knowledge and expertise with its extensive equipment and controls offerings to provide variable refrigerant flow (VRF) systems solutions. This fully integrated, high-performing HVAC system solution is designed to deliver customized comfort throughout any commercial space. Regardless of the capacity, energy efficiency, functionality, or performance-monitoring requirements, our VRF Systems Solutions, featuring Trane® / Mitsubishi Electric VRF Technology, are designed to exceed the comfort and sustainability goals established for commercial building projects.

- **N-Generation CITY MULTI® VRF** Trane® / Mitsubishi Electric VRF products include a variety of outdoor units, indoor units, ventilation solutions, controls, and more to design a complete VRF system for any building.
- **Trane®/ Mitsubishi Electric P Series** Ductless, boundless, and full of Potential, the P Series systems are highly efficient and the right solution for your light commercial applications. Outdoor cooling units. Indoor units. Ductless controls.

- **Nv Series Zoned Cooling and Heating Solutions** Ductless with a difference, the Nv series affords user-friendly, zoned cooling and heating solutions for single- or multi-room applications.
- **Nv Series Zoned Cooling and Heating Solutions** Ductless with a difference, the Nv series affords user-friendly, zoned cooling and heating solutions for single- or multi-room applications.

## **CHILLERS — LEGENDARY RELIABILITY, QUIET SOUND, AMAZING ENERGY EFFICIENCY.**

- **Comprehensive Chilled Water Systems** Trane’s comprehensive chilled-water systems employ best practices in chiller plant design that align with current industry guidance for achieving high performance cooling, heating, and ventilation, all while reducing first cost.
- **Comprehensive Chiller-Heater Systems** Trane Comprehensive Chiller-Heater systems — featuring electric heat pumps — provide cost-effective, energy-efficient, reliable cooling and heating, while reducing carbon emissions. Ideal for larger buildings, especially those with a central plant, these pre-engineered system solutions make electrified HVAC systems easier to specify and implement.
- **Intelligent Variable Air Systems** Our Intelligent Variable Air systems simplify the design and implementation of systems that HVAC designers typically consider complicated and time-consuming. With new technologies and optimized controls, these systems are 20% to 30% more efficient than traditional multiple-zone VAV systems.
- **Water-Cooled Chillers** We have optimized our fleet of water-cooled chillers to help customers maximize efficiency, benefit the environment, and reduce operating expenses. With HVAC costs making up 40% of commercial building energy consumption, the right chiller represents an incredible opportunity to reduce the energy intensity.
- **Air Cooled Chillers** High efficiency and low noise are the hallmarks of all Trane’s air-cooled chillers. Our robust portfolio features a wide operating map, so you can find the just-right solution for your building. We offer an array of tonnage sizes, efficiencies, and performance features to meet your requirements. Whether you need a classic chiller with dependable performance or an environmentally conscious chiller with next generation refrigerant, there's a Trane model for every customer.
- **Modular Chillers** MiniMod™, SuperMod™, PolyTherm™ and Manhattan™ Gen II chillers represent the line-up of Trane’s modular chillers. Trane is committed to manufacturing products that are highly efficient, reliable, serviceable and cost effective. Our proven performance is backed by careful engineering.
- **Cold Generator Scroll Chillers** The Cold Generator Scroll Chillers are a family of traditional capacity and compact expandable capacity Scroll chillers suitable for a range of comfort and process cooling applications. Concise footprints and doorway friendly design make them an ideal solution for new construction, retrofit and replacement applications

## TRANE® PACKAGED UNITS AND SPLIT SYSTEMS

Whether for a large data center, a complex commercial concern or a small business, Trane offers sustainable options to deliver customized comfort and efficiency.

- **CoolSense® Integrated Outdoor Air Systems** The CoolSense® pre-packaged HVAC design system combines a dedicated outdoor-air system (DOAS) with chilled-water sensible-cooling terminal units to deliver a flexible, energy-efficient solution that enhances comfortable spaces and simplifies maintenance.
- **Intelligent Variable Air Systems** Trane Intelligent Variable Air systems simplify the design and implementation of systems that HVAC designers typically consider complicated and time-consuming. With new technologies and optimized controls, these systems are 20% to 30% more efficient than traditional multiple-zone VAV systems.
- **Zoned Rooftop Systems** Ideal for small buildings, Trane® Zoned Rooftop Systems provide cost-effective options to increase comfort and energy efficiency, while simplifying operation and maintenance. These packaged systems make advanced functionality affordable and easy for non-technical users to operate.
- **Rooftop Units** Small to Large Commercial Rooftop Units: 2 - 162 Tons. Our broad portfolio of solutions can meet any building's footprint requirements and are easy to install and maintain.
- **Split Systems** Trane offers the broadest selection of split system components. Design the system you need for a corner retail shop, light commercial application, office building, hotel, school and more. Choose from gas furnace and indoor coil options for smaller buildings to a full line of air handler units and compressors with capacities from 6 - 120 tons.
- **Self-Contained Systems** For new construction or retrofit, Trane self-contained HVAC systems are a great fit. Some projects can make installation of HVAC systems tricky. With a complete line of self-contained HVAC systems from 20 - 110 tons of capacity, Trane can satisfy any new construction or retrofit application with reliable, energy efficiency comfort.
- **Water Source Heat Pumps** Fully compatible with geothermal technology, Axiom™ water source heat pumps from Trane offer higher efficiencies — up to 40 EER on select configurations — than other conventional heat-pump technologies, along with precise space heating and cooling capabilities for superior comfort. Available eFlex variable-speed control minimizes on/off system cycling, temperature swings, noise, and energy use. Axiom™ durability, performance and efficiency means exceptionally low life-cycle costs to boot. Building owners can also take advantage of a 10% federal tax credit on qualifying installation costs if geothermal system placed in service before Jan. 1, 2022.
- **Dedicated Outdoor Air Solutions** Trane® dedicated outdoor air systems condition 100 percent outdoor air — improving indoor air quality, controlling relative humidity, and reducing the load on other HVAC equipment in a building.

## AIR HANDLERS, TERMINAL DEVICES, VAV AND FAN COILS

- **CoolSense® Integrated Outdoor Air Systems** The CoolSense® pre-packaged HVAC design system combines a dedicated outdoor-air system (DOAS) with chilled-water sensible-cooling terminal units to deliver a flexible, energy-efficient solution that enhances comfortable spaces and simplifies maintenance.
- **Terminal Devices** The Trane® portfolio of fan coil, unit ventilator and blower coil solutions are designed to make installations faster and easier, and to maximize HVAC system performance. Using advanced technology, these systems reliably and efficiently deliver the comfort your building occupants need. We are the only manufacturer that offers factory-commissioned, single-zone VAV systems integrated with Tracer® UC400 controllers, delivering up to 66 percent higher efficiency, temperature stability, quiet operation, and dehumidification advantages for varying-occupancy spaces. Trane fan coil, unit ventilator and blower coil solutions deliver efficiency and comfort to a wide variety of buildings, applications, and people — quietly and dependably — day after day, year after year.
- **Sensible-Cooling (DOAS) Terminal Units** These terminal units reduce energy use and operating costs with Electronically Commutated Motor (ECM) and modulating airflow control algorithms. Trane sensible-cooling terminal units are constructed with a 10.5 inches casing height and are an excellent choice when plenum spaces are tight.
- **Variable-Air-Volume Units** VariTrane™ variable-air-volume units (VAV) are among the industry leaders in quality and reliability and are designed to meet the specific needs of today's applications. This generation of VariTrane units builds upon Trane's history of quality and reliability and expands the products into one of the most complete variable-air-volume units offering in the industry. Our units feature rugged variable-air-volume units construction, are available in several different profiles to suit the space available, and all utilize digital controls for energy-efficiency and to facilitate interface with building management systems.
- **Performance Climate Changer® Air Handlers** Trane® Performance Climate Changer® air handlers can help HVAC systems achieve higher energy efficiency and indoor air quality while reducing maintenance requirements – adding life to buildings and improving the lives of people within them. From the most straightforward needs to wide-ranging demands for air cleaning, dehumidification and energy savings, there's a Trane Performance Climate Changer® air handling unit to deliver everything your project requires.
- **Air Handler Technologies** Trane continually invests in air handler research and development of new products to adapt the changing needs of today's HVAC market. Our focus on whole systems has led to the design of many custom options that can be incorporated into standard cataloged air handler, providing a more cost-effective solution than a completely custom-built unit. These custom-engineered air handler solutions are offered as factory-packaged specials that deliver Trane quality, enable simplified on-site installation, and provide proven, tested performance. The air handler solutions address such issues as humidity control, energy recovery, special acoustical needs, air filtration and the use of optional fuel sources.

- **Unit Heaters** The Trane electric architectural forced-air wall unit heaters combine quiet, reliable heating with an attractive cabinet design. Their ease of installation, rugged construction and architectural styling particularly suits them for space heating applications in commercial, industrial, and institutional applications. These unit heaters range from smaller room-sized electric heaters to large indoor and outdoor duct furnaces.

## VARIABLE FREQUENCY DRIVES (VFD)

Trane TR200 Series drives play an important role in a system to reduce energy usage, extend motor life, optimize AC motor speed control, maximize occupant comfort, and reduce costs.

- **TR200 Series Variable Frequency Drives** Trane TR200 Series drives' support of open standard protocols make them compatible with virtually all HVAC equipment and building automation systems. They can also be ordered specifically for a project and easily installed on-site for new and retrofit applications. With a complete range available from 1½ to 1350 HP, the features and flexibility of TR200 Series drives make them ideal for stand-alone control of cooling towers, exhaust fans, pumps, and a variety of air handlers.

## ENERGY STORAGE

- **Thermal Battery Systems** Trane Thermal Battery™ systems are premier HVAC plants that provide a distributed resource for our changing grid. Their ability to store thermal energy enables your building to reliably modify HVAC operations to optimize for carbon reduction or energy cost savings.
- **Thermal Energy Storage Solutions** Leveraging Trane energy storage technologies can help improve how power supply is managed, creating a more resilient energy system by increasing your building's energy agility for greater sustainability and profitability, while reducing grid dependency. Trane offers a number of energy storage solutions to help our customers meet their objectives. Solutions include thermal energy storage (ice or chilled water storage), batteries, and industrial process and flow management solutions.

## PRECISION COOLING

Precision cooling is essential for mission critical applications such as data centers and indoor agriculture. With industry-leading expertise and a wide array of solutions and services, Trane — a holistic provider — can help customers ensure mission critical facilities are highly reliable, efficient, and sustainable. Trane's application engineering expertise and systems approach allows for efficient, flexible, and scalable integrated designs, meeting specific customer needs that ensure uptime and performance.

- **Precision Temperature and Humidity Control** Trane delivers a broad range of cooling capacities for mission critical applications, from a small technology room to the largest data centers —all supported by the local services organization with global footprint wherever and whenever you need it.

## Trane Building Management and Automation

At the base of every system, we provide an integrated and secure solution that meets the needs of your project or building, with the ability to optimize your HVAC equipment, lighting and more. Take back control of your building and achieve the operational excellence you and your customers are seeking.

- **Solutions for Large Buildings and Campuses** Design and manage smarter buildings. Our Tracer® Ensemble® technology provides the ultimate user experience by combining custom reporting and dashboards to view and optimize assets. Easily access alarms, setpoints, and schedules from virtually anywhere through a secure remote access. Additionally, with Ensemble you have access to Tenant Services™ and Work Order Management to maximize your occupants' comfort while minimizing stressful procedures. Tracer® SC+ with its easy-to-use Synchrony® Interface is a powerful building automation system for your facility that will integrate systems to simplify command and give you better control over comfort and energy efficiency. Lighting Solutions: control over half of your building's energy use by integrating your lighting system with one simple-to-use interface. With Air-Fi® Wireless, you can create the reliable, flexible system you want without the wires. It also allows for easy Building Automation System infrastructure updates by allowing a phased approach based on your timeline.
- **Small Building Solutions** Our Pivot® Smart Thermostat System allows you to maintain an ideal environment that works for you with an easy-to-use interface. Smart thermostat features enable you to easily manage comfort as a natural part of your day. Does your business have multiple buildings or locations? Pivot provides the ability to control multiple buildings, so your occupants can thrive in every location. Pivot® Smart Thermostat system now integrates with Tracer® Ensemble® Cloud! This new integration brings the capabilities of an enterprise management system to include buildings that are only thermostat-controlled equipment.
- **Air-Fi® Wireless Communications** A communicating and sensing technology that allows the different parts of a building system, from your HVAC and building controllers, to communicate wirelessly. Cut the wires — and get comfortable with Trane® Air-Fi® wireless.
- **Lighting Solutions** Trane has a dedicated lighting group that provides a holistic approach to procure, design, and implement lighting solutions that maximize energy conservation and save money. HVAC and lighting are two of the biggest energy users in commercial and industrial buildings. Together they consume approximately 52% of a typical building's energy use. HVAC and lighting also have many similarities in their relationship to building occupancy and use, so it makes sense to manage them holistically to maximize energy conservation. Trane's team has overseen the installation of more than \$150 million annually in lighting solutions for a wide range of clients. This massive volume of lighting projects affords Trane the ability to purchase Tier 1 lighting products cost



Trane uses strictly **Tier 1** quality lighting products. Only seven of the hundreds of thousands of lighting manufacturers in the world are considered **Tier 1**.

Most of these products are made in the US, Canada, and Mexico.

effectively. We can integrate lighting to HVAC systems via your Building Automation System (BAS).

- **Controls Solutions for Light Commercial Contractors** Bringing innovative technology and solutions to your customers is more important than ever. Achieve new levels of productivity, energy efficiency, reliability, and preparedness by partnering with Trane.

## Trane Design and Analysis Software Tools

- **Design Tools** TRACE® 3D Plus Load Design, Trane® Design Assist™, VariTrane Duct Designer, Pipe Designer are among some of the applications in this portfolio.
- **Analysis Tools** Among 3 applications in this category, TRACE® 3D Plus is our next generation building design and analysis software program that delivers faster, more accurate results through a seamless workflow that closely aligns with today's building process. The latest HVAC systems and controls can be modeled quickly, precisely and with the intricacies of today's many building applications. TRACE 3D Plus is built on the U.S. Department of Energy's EnergyPlus engine and enhanced with Trane's industry leading expertise to help designers validate and interpret projects with confidence and clarity. All of these new features plus a more robust support experience to get you up and running quickly.
- **Selection Tools** Trane's product selection program formerly known as TOPSS™, is now Trane® Select Assist™. Users can now access this flexible and powerful tool on their PC, tablet, or smartphone. Our selection program guides users through the process of configuring Trane equipment to meet or exceed the project specifications.
- **Complimentary Calculators and Charts** Trane software range features a variety of free tools that make your design and analysis tasks easier. These calculators include software to calculate your potential LEED compliance.

## Additional Information Advantageous to Racine County

### CREATIVE FUNDING

#### Power Purchasing Agreements

A [Power Purchasing Agreement](#) (PPA) is typically used for renewable technologies or energy-generating infrastructure. This structure is generally considered off-balance sheet and is not debt for the end user. In this structure, Trane would install the renewable, micro-grid, or energy-generating assets and create a long-term contract with the public agency to purchase the power generated by the infrastructure installed. The capital to fund this project is provided by Trane directly or through a third-party financier or owner. The asset would then be offered to the public agency at the end of the contract term in form of a purchase option (fair market value).

This structure is advantageous because it allows the third-party owner of the asset to take advantage of depreciation and tax credits (in the case of renewables). This can significantly lower the total operating cost of the infrastructure, which makes your operating contract less costly. This financing structure is beneficial for public agencies looking to lock in a low and consistent utility rate in exchange for hosting

energy generating assets, supports the public agencies sustainability initiatives, and is owned by a third party.

### **Energy Services Agreement**

An energy services agreement (ESA) is an alternative that has the opportunity to be considered as credit-neutral structure from an accounting point of view. Under an ESA, a customer agrees to make contingent payments based on the energy savings or other contractual allowances realized, rather than a fixed debt-service payment. In this way, the customer is assured that the payment it makes is always less than or equal to the corresponding reduction in operating cost. As a result, there is a neutral or positive impact on your cash flow. Using an ESA assures that there is a direct relationship between the payment and the verified energy savings realized:

- This model leverages third-party ownership of an asset to be eligible for federal and state tax benefits that would not be traditionally available to the public sector
- Structured as a service contract to relieve capital budget burden
- Zero capital outlay
- Zero balance sheet impact
- Payable from operating funds
- Preserves capital and borrowing

### **Energy-as-a-Service (EaaS)**

Similar to an ESA structure, under Energy as a Service (EaaS) model, the project assets are owned by a third party. Trane takes on the performance risk, and the customer pays for the services provided by the project. EaaS is a fee for service model designed for customers to pay per unit of energy they consume subject to the availability of the installed equipment. Much like electricity generated from a solar PPA, efficiency savings from installed equipment such as chillers, boilers, lighting, etc. can be structured much like a Power Purchase Agreement (“PPA”).

The structure is outcome based with the customer receiving agreed upon key performance indicators (KPIs) and savings as applicable, and/or any combination thereof. The customer payments will be reflective of the project performance. Working with the Trane, the SPE sets a certain level of performance. If the performance isn’t realized, the Trane will make up any shortfall. At the expiration of the contract, the customer will have the option of extending the contract term, paying the fair market value for the project assets, or returning the project assets to the SPE owner. The abandon in place option is at the discretion of the SPE owner. All these options will be negotiated between the parties.

### **Public-Private Partnerships (P3)**

Under a public-private partnership (P3) model, the customer can assign to Trane or a third-party certain risks that are normally borne by the public owner under a traditional arrangement like a design-build contract. These risks include the design, construction, and maintenance of the project.

This financing arrangement allows the customer to assign construction, performance, and maintenance risks components to a third party, while minimizing financial impacts. This can provide you with an expected and secured annual operating cost over the term of the contract. It will also spell out the end-of-term customer options.

In this public-private partnership, the delivery model requires an agreement between a public owner and a private sector partner for the design, construction, funding, and operations and maintenance of the assets by the private sector partner over an agreed upon amount of time. A P3 normally uses a performance-based methodology for the technical requirements and specifications. This allows the customer an opportunity to leverage Trane's experience and expertise to guarantee a defined level of performance of an asset throughout the life of the agreement. Financing can be a combination of equity and debt.

Under this P3 arrangement, the operations, maintenance, removal, and performance risks are wholly shifted to Trane in order to supply the credit support required by private sector equity providers. Trane can assume complete O&M responsibility with a corresponding assignment of risk, or we can offer operations management supervision –with O&M provided by your workforce with less risk transfer.

### **ANTICIPATION DISCOUNT PROGRAM**

The Trane Anticipation Discount Program can give you the opportunity to add value to your HVAC Supplies by reducing the cost of purchase by making payment prior to shipment. With this program you can reduce your costs while financing the project at an attractive rate, gain immediate order approval and enhance your credit standing.

The Trane Anticipation Discount Program can be customized for each project you are planning, using any Trane HVAC supplies, allowing for variable payment amounts in addition to variable payment dates.

The amount of your final discount is based on a formula that incorporates several factors including payment amount, time of payment, current discount rate and shipping dates.

### **OPPORTUNITIES FOR K-12 ENERGY EDUCATION**

As a leading global provider of indoor comfort systems and services, Trane feels a responsibility to educate students on the importance and benefits of energy efficiency. Trane has several educational opportunities for school administrators:

#### *The BTU Crew™*

Trane's **BTU Crew** is an educational program that teaches kids easy ways to save energy. The program promotes STEM careers by showing students how much fun science and energy can be. When you invest in your school's infrastructure, you invest in your students' futures as well. We can help you create a better learning environment where the school becomes a living, hands-on learning lab and provides relevant program curriculum to round out your student education with practical skills for when they graduate.



Trane provides this feature for one building at no cost. Trane's educational emphasis:

- Teaches students of all levels the basics of energy
- Creates passion for a future career in science, technology, engineering, and math (STEM)
- Engages students in decisions impacting their school's energy use
- Builds real-life skills in technical education with industry-recognized certifications

### Promotes an Early Interest in Energy and STEM

Studies show that kids can develop life-long preferences at an early age. By the fourth grade, one-third of boys and girls have lost an interest in science. By eighth grade, almost half have lost interest or deemed it irrelevant to their education or future plans.

That's why Trane's educational offerings begin early in a student's life. The BTU Crew™ encourages interest in STEM, and helps students learn how to increase energy efficiency. The BTU Crew™ is:

- Interactive and engaging
- Customizable and adaptable
- Available in Grade 4+ and Grade 8+ versions

### Provides Hands-On Learning Through Digital Solutions

Easy-to-use interactive digital tools give students an engaging, visual way to learn the concepts of energy efficiency and sustainability by understanding the energy use in their own school. Students can design the dashboard metrics and track results toward energy and carbon footprint goals, giving them a deep understanding of the dynamics of energy – while advancing their analytical and problem-solving skills.

### Students Gain Knowledge on Energy and Learn How to Make a Difference

Over the course of six lessons, your students will learn about energy, energy efficiency, careers, and ways to act.

- **Energy 101:** Students learn about energy, energy transformations and energy usage.
- **I Spy...Energy Efficiency:** Students learn what energy efficiency means and how to be energy-efficient through hands-on experiments.
- **Careers:** Students learn what different types of engineers do, specifically concerning energy usage.
- **Energy Audit:** Students conduct a preliminary energy audit of their school using Trane's web-based tool to view real results.
- **What's Our Energy Score:** Students analyze the results of the energy audit.
- **Expand the BTU Crew™:** Students act by presenting findings or writing a letter to a local legislator.

## *NC3 – The National Coalition of Certification Centers*



Trane is a proud sponsor of **NC3**, a national network of educational institutions working with industry, trade, and professional organizations to develop and implement industry driven, portable certifications. Trane’s NC3 initiatives focus on technical education and workforce development in the HVAC and energy efficiency sectors. NC3 provides curriculum and associated certifications that high school students can earn.

These certifications are designed for integration into an existing technical program to enhance what is already being taught. NC3 certifications can be applied across several different industries, therefore creating flexible, stackable, and relevant credentials to students and a wide variety of employers.

Integrating industry certifications into an academic course combines the best of both worlds by enhancing teacher skills, delivering the professional development that technical educators look for, and providing students with more opportunities and relevant job-ready skills.

### **NC3 National Signing Day**

NC3, working with companies like Trane, also delivers innovation – an example being NC3 National Signing Day. This is where students, many of whom are in their last year of high school, are recognized at their chosen Technical College like how athletes sign letters of intent for Division I colleges. In this case, students are recognized for choosing to pursue a technical education.

Trane has many capabilities that make us different than our competition. We work with our education partners to strategically use everything that Trane has in our portfolio of services. Detailed on the following pages are just a few of the offerings that Trane feels would interest to school districts.

### *We Will Help You Spread the Good News*

Trane regularly collaborates with our customers to promote projects, milestones, and results – with customer consent, collaboration, and approval every step of the way. We work with our customers to determine what, when and how to promote milestones that mutually benefit both parties and showcase a shared commitment to innovation, energy efficiency and sustainability. Sample promotional opportunities include:

- Social media posts
- News releases on key project milestones
- Joint events and speaking engagements
- Written or video case studies
- Website or annual report feature
- Customer awards and recognition

We also regularly honor customers that demonstrate the highest levels of commitment to energy efficiency and sustainability through our customer awards program, which includes our Energy Efficiency Leader Award and Climate Stewardship Award. Promotional elements for recognition vary based on customer preferences, but often include some combination of an employee or public event / award presentation; written and video case studies; news release; building tour; media outreach; and social media posts and internal employee communications.

Here are a few examples of publicity that have resulted from similar projects.

### River Trails Elementary School, Mount Prospect, IL



**Daily Herald**  
Suburban Chicago's Information Source

## River Trails District 26 honored for sustainability efforts

Daily Herald report Updated 10/19/2021 10:15 AM

River Trails Elementary School District 26 in Mount Prospect recently received a Reducing the Energy Intensity of the World Award for its sustainability commitments, including a significant reduction in energy consumption at its facilities, officials announced this week.

The award from Trane Technologies coincided with the christening of the newly renovated Prairie Trails School, Mount Prospect's first net-zero energy consumption facility. Net-zero energy consumption buildings use a total amount of energy annually that is equal to or less than the amount of renewable energy created on-site.

Prairie Trails School is on track to save more than \$32,000 a year in gas and electricity costs while offering optimized indoor air quality and reliable, energy efficient performance, officials say. Solar panels, combined with other energy saving design elements, are offsetting the building's annual electricity consumption.

"The renovation of Prairie Trails School was a significant project for our district," said Lyndl Schuster, assistant superintendent for business services. "Not only did we require an upgrade to our facilities in order to best serve our students, we also wanted to remain committed to a districtwide sustainability initiative."

### Williamson County Schools, TN



 **Williamson County Schools**  
RIGOR • RELEVANCE • RELATIONSHIPS • RELENTLESSNESS

"Because of TRANE, we are paying less today for utilities than we were 5 years ago – and we've added five new schools."

 Tommy Little – Williamson County Commissioner  
Education Committee Chair

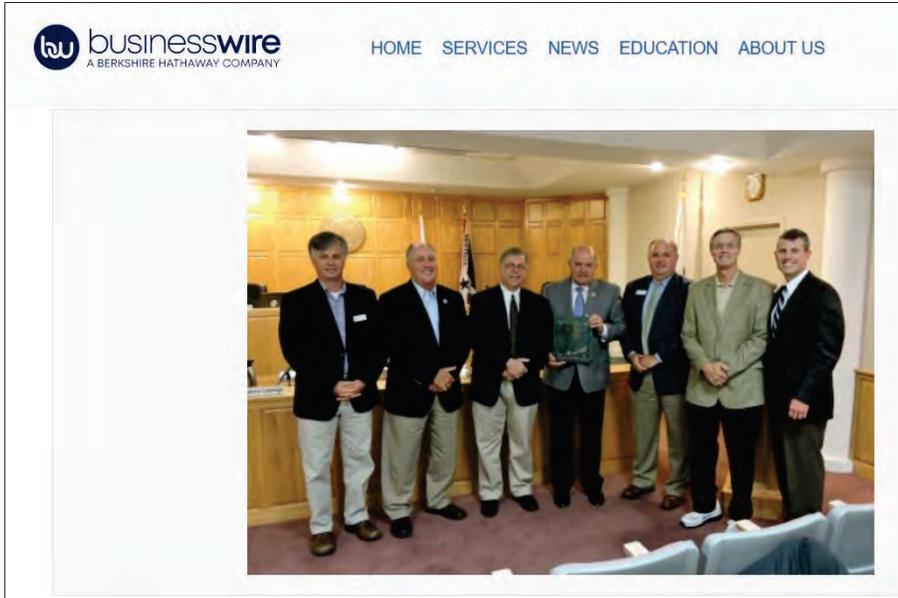
 **WILLIAMSON COUNTY**  
Tennessee



Presentation for Association of County Mayors in , Tennessee, *Infrastructure Improvement and Energy Conservation Program funded with Guaranteed Savings – In Tennessee*, Aug. 30, 2021, features quote about Williamson County project that Trane completed\*

“Because of TRANE, we are paying less today for utilities than we were five years ago – and we’ve added five new schools” Tommy Little, Williamson County Commissioner, Education Committee Chair, Williamson County, Tennessee

### City of Vestavia Hills, AL



Trane’s exterior [lighting upgrade](#) for the City of Vestavia Hills, AL resulted in this [web site article](#). Trane presented the City with an Energy Efficiency Leader Award since the project cut energy consumption in NC3 – The National Coalition of Certification Centers

## 8. References

8. Minimum of three (3) comparable references of current work being performed. Information shall include name, phone number, fax number and email address of a person that may be contacted. Ideally, at least two (2) references will be with a government facility of similar size. Also include a brief description of the projects.

### Reference 1: Roanoke City Schools

Company: Roanoke City Schools Comprehensive Solutions and OMNIA Projects

Address: 3601 Ferncliff Avenue NW, Roanoke, VA 24017

Contact Person: Jeff Shawver – Chief of Physical Plants

Phone: 540-853-6306

Email address: jshawver@rcps.info

Description of project:

#### *HVAC Equipment and Products:*

- Installation of VRF system at Noel C. Taylor Academy and Fishwick Middle School

- Rooftop unit replacement at Forest Park Academy
- Boiler replacement at Roanoke Academy for Math and Science and Lucy B. Addison M.S.
- Chiller replacement at Roanoke Academy for Math and Science
- Chiller and cooling tower replacement at Lucy B. Addison Middle School
- VFDs on condenser water pumps at high schools
- Gym cooling at Lucy B. Addison M.S., Madison M.S, Garden City E.S., and Westside E.S.

***Installation and Services***

- Lighting upgrades including energy efficient internal and external LED lighting
- Building envelope upgrades
- Water conservation upgrades

***Related Products, Solutions, and Other Services:***

- Controls upgrades including Trane Intelligent Services
- Financial services
- Training
- Educational services

## Reference 2, City of Mesa Parks

Company: City of Mesa Parks, Recreation and Community Facilities OMNIA Projects

Address: P.O. Box1466 | 4444 | Mesa, Arizona, 85211

Contact Person: Barry Lougheed

Phone: 480-644-3732 (T), 602-350-6322 (C)

Email address: barry.lougheed@mesaaz.gov

Description of project:

### ***HVAC Equipment and Products:***

- New Chillers in several different buildings
- New HVAC equipment

### ***Installation and Services***

- Turnkey building mechanical retrofits
- Street lighting retrofits
- Closed Circuit TV (CCTV) services

### ***Related Products, Solutions, and Other Services:***

- New Trane control systems in 40+ buildings
- Hosted Ensemble
- 3<sup>rd</sup> party system integrations
- Control system services
- Lighting control systems
- Training

## Reference 3: Gateway Technical College

Company: Gateway Technical College Indoor Environmental Quality Project through OMNIA

Address: 1001 S. Main Street, Racine, WI 53403

Contact Person: John Thielen, Director of Capital Projects

Phone: 262-564-2597

Email address: thielenj@gtc.edu

Description of project:

### *HVAC Equipment and Products:*

- Installed Synexis® in-room devices for Indoor Air Quality improvement

The leaders at Gateway Technical College in Southeastern Wisconsin needed to create the best possible learning environment to help their 20,000 students comfortably return to in-person learning for the fall 2021 semester. Administrators wanted to optimize indoor environmental quality (IEQ) at the college's 18 buildings spread across nine campuses. For more information click [here](#).



## 9. Proof of Performance

### a. Services Bidder Can Perform

9. To further demonstrate similar experience and provide proof of performance:
  - a. Include a detailed description of the Services Bidder can perform, including training, start-up and commissioning services, installation, maintenance, turn-key services, project approach to Indoor Environmental Quality (IEQ), repair services, rentals, leases, equipment upgrades, and any other services provided by the Bidder.

Trane provided service information in the Lines of Business: Trane Services (pages 23-33). Additional information is provided on the following pages.

Below is a list of categories provided under this contract and, by no means, is restricted to just these items. Detailed descriptions of training, start-up and commissioning services, installation, maintenance, turn-key services, IEQ, repair services, rentals, leases, and equipment upgrades are provided on the following pages.

#### **HVAC Equipment and Products:**

- All Trane commercial equipment including all applied, unitary, terminal units and heating products procured domestically
- Cooling Towers
- Frequency Drives
- Ductless split systems & VRF products
- Pumps
- Boilers, hot water heaters and water specialties
- Modular chillers
- Dust collection systems & servicing
- TAS packaged central plants
- Evaporcool evaporative process cooling
- Dynamic air filtration
- Genesis conversion (photo catalytic oxidation) technology
- Heat recovery air handlers
- Unit ventilators
- Trane parts in conjunction with Trane contracted repair and retrofit of existing Trane equipment as well as over the counter purchases
- Outsourcing of chilled and hot water by providing plants owned by Trane and leased to the governmental entity
- Adsil coatings as required on all HVAC equipment
- Indoor Air Quality services such as appraisals, filtration analysis and remediation

#### **Installation and Services**

- Lighting and retrofits
- Equipment startups and warranty support

- HVAC, refrigeration, and plumbing installation including complete turnkey replacements, new construction, renovation, and new construction projects
- Included are any ancillary labor tasks, related to HVAC, refrigeration, or plumbing installations.
- Predictive maintenance such as oil, refrigerant, and vibration analysis
- Many types of repair services with coverage (full, partial, and preventive) on existing Trane HVAC equipment types as well other OEM brand names and plumbing fixtures and systems
- Remanufacturing services **including Trane's exclusive R'Newal programs**
- All turnkey contracting including engineering, architectural and general contract work as it relates to the HVAC, refrigeration, plumbing requirements, and other mechanical systems
- Municipal services including wastewater treatment plant work, pump stations, and heat transfer systems

#### **Related Products, Solutions, and Other Services:**

- Trane building automation equipment to the extent that it is coupled with installation of both new and/or retrofit of BAS systems
- Training-both local and factory providing skill building, educational programs, and certifications
- System commissioning and reporting analytics
- Many types of monitoring such as man-in-attendance, BAS remote monitoring and Intelligent Services
- Maintenance services including full and preventive maintenance contracts including time & material contracts
- Equipment modifications as it relates to either a new construction or retrofit project including custom fabrication
- Filter change outs, contract maintenance and over the counter sales
- Warranty services and extended parts and labor warranties
- Air and water balancing
- Building Automation analytics and Energy Optics programs
- Financial services such as leasing (all types), prompt pay discounting, anticipation discounting, guaranteed savings programs and long-term financing solutions.
- Site surveys of existing facilities
- Rental HVAC equipment from Trane Rental Services
- System analysis of existing facilities including modeling and payback analysis
- Project management services such as contract managing and analysis of bids and budget prioritization
- Long range school planning and facility audits
- Data management services of existing facilities via ComfortSite
- Estimating resources for budgeting of projects
- Engineering and architectural services such as MEP, structural and civil
- Contracting for packaged enhanced solutions
- Facilities Management program
- Airport HVAC systems including localized jet-bridge air conditioners

## TRAINING

Trane offers a variety of training programs to choose from. These can be conducted at your location, at a nearby Trane office, at our national training centers, or through training manuals. We can include any combination of these resources, depending on your preference.

### Select the Training Method That Works for You



On-Site Training  
(your facilities)



Office Training  
(Trane local office)



Trane University  
(factory training)



Air Conditioning  
Clinics (manuals)

Our course instructors have strong controls and HVAC service backgrounds. They draw on the expertise of Trane applications engineers, product engineers, technical support engineers and product development teams to provide the best training possible.

### *On-Site/Virtual Training*

This training is designed around applications specific to your facilities. Examples include:

- System training to understand chillers, dehumidification, and rooftop variable air volume units.
- Controls training to obtain the best performance from your building automation system.
- Boiler plant efficiency and maintenance, lighting, and water conservation measures.
- Shadowing Trane technicians while we provide contracted maintenance services.

### *Office Training*

Trane can customize training for your employees at our offices. This includes the material covered in our Trane University courses listed below.

### *Trane University*

Trane University offers Building Systems and Controls training in St. Paul, MN and Technical Service training in La Crosse, WI. These courses also can be conducted at Trane offices throughout North America. In either case, our instruction will further advance your staff's understanding of systems and the interaction between various components. Well-trained facility managers and technicians will minimize service costs by efficiently identifying and correcting problems.

- ***Building System and Controls training*** offers a comprehensive portfolio of technical courses to help you effectively monitor and coordinate your HVAC equipment and systems using your Trane building automation system. This will be provided by the Controls Vendor, CSO as referenced below.
- ***Technical Service training*** offers factory training for commercial systems service, maintenance, and operation. These courses are designed to increase technician competence and confidence when servicing HVAC and controls systems.

## *Trane A/C Clinics*

Trane has developed several training manuals to support our in-person training efforts, including an A/C Clinic. This comprehensive course covers the fundamentals of heating, ventilating, and air conditioning. Each clinic includes a student workbook, with corresponding quiz questions/problems.

### **START-UP AND COMMISSIONING SERVICES**

Trane has a strong local presence, and we service what we install with our own service technicians. Trane follows a process called Contracting to Service Transition, where the local Trane technicians' part of the start-up and commissioning so that they are prepared to support the facility once implemented. Our strong local presence and this process using our own service technicians allows us to have the fastest possible response times when a need for service should arise. In addition to providing on-site service from our local team, Trane local remote monitoring capabilities and can leverage the data that we gather with the knowledge of the Trane technicians and account team that are responsible for your facility. This approach adds to Trane's ability to provide fast and proactive service, at times identifying and starting to resolve issues prior to the customer knowing about it. Trane's maintenance services include:

- **Elite Start Services** – Give your new system the assurance of optimal performance and a long-life cycle
- **Repair Services** – Trane technicians can service all brands and types of HVAC units
- **Scheduled Agreement** – Periodic maintenance of systems to ensure peak operating performance
- **Select Agreement** – Added protection against unexpected equipment failures
- **Remote Diagnostics** – Ability to monitor your critical building systems remotely and quickly troubleshoot as necessary

### **INSTALLATION**

A qualified and dedicated Project Manager (PM) is assigned to manage the day-to-day installation and construction activities at the project site in accordance with the design, costs, schedule, safety protocols, and QC process. The PM leads and manages the installation team, including subcontractors, and is responsible for Project Schedule. Trane has a nationwide resource pool of 133 construction managers available to provide support to the assigned PM.

### **MAINTENANCE**

To help optimize the performance of your building systems, our service technicians and other professionals will assist at whatever level you desire. Whether you're installing new equipment, maintaining an existing system, or completely upgrading your infrastructure, we can provide the expertise to match your specific needs.

Choose from among the following services

- **Scheduled Agreement** – Periodic maintenance of systems to ensure peak operating performance

- **Select Agreement** – Added protection against unexpected equipment failures
- **Remote Diagnostics** – Ability to monitor your critical building systems remotely and quickly troubleshoot as necessary

### *Scheduled Agreement*

Under our Scheduled Agreement offering, factory authorized service technicians perform the periodic maintenance required to keep your systems operating at their peak, so you no longer must plan, schedule, or manage routine maintenance. We are fully trained to perform maintenance on Trane HVAC equipment and other brands within your facilities.

Under a Scheduled Agreement, your building systems are maintained by our knowledgeable service technicians using Six Sigma maintenance procedures to deliver the highest level of quality. Clients often experience lower maintenance costs under a Scheduled Agreement because impending equipment failures can be identified and resolved before they become major problems.

### *Select Agreement*

With a Select Agreement, you receive all the benefits of a Scheduled Agreement, plus parts and labor coverage for maintainable equipment selected by your team – and approved by Trane.

We will work with you to select the major components and systems in your facility that you want Trane to maintain. We cover the cost of repairing your systems or replacing the pre-selected components, should they fail. We will help you consider acceptable performance ranges, reliability, and risk tolerance to determine the level of coverage you require for your HVAC maintenance needs.

### *Remote Diagnostics*

Quickly detect failures in your building with round-the-clock monitoring from the Trane Intelligent Services center, where our building professionals provide support 24 hours a day, 365 days a year. Beyond alarm detection, Trane building professionals with deep industry expertise analyze each incoming alarm and initiate action to resolve the issue, thereby maintaining efficiency and peak performance. The ability to address some problems remotely can reduce the need for service calls – and the amount of time your staff spends on facility-related problems.

## **TURNKEY SERVICES**

Trane creates comprehensive solutions based on a thorough understanding of your business goals as well as your infrastructure needs. With our full knowledge of the interrelated workings of your building or buildings, we can recommend adjustments in equipment and services for maximum efficiency and cost-savings. We call this corner-to-corner approach Turnkey Contracting Services.

Even before you sign a contract, Trane ranks your building's performance to see how it compares to your competitors'. Because we are the largest OEM of HVAC equipment, we have a global database of information regarding thousands of installed systems— including buildings belonging to other organizations in your industry. We can measure how your building stacks up with a roughly apples-to-apples comparison.

Once you've contracted for Trane Turnkey Services, we customize project solutions to fit your unique operational and performance needs. An environmentally sensitive industry such as biomedical engineering, for example, may demand carefully managed temperature, humidity, air particulates or air filtration. Our solutions may also include:

- Mechanical, electrical, lighting systems specifications, retrofit and optimization
- Building lifecycle planning
- Total cost of ownership reduction through energy-saving system specifications and operating cost optimization
- Addressing environmental and operating cost concerns through enterprise energy management systems including:
  - On-site generation
  - Water conservation
  - Energy purchasing options
  - Renewable technologies
  - Code and regulations compliance
  - Ongoing maintenance and repair

With Trane Turnkey Contracting Services, you reduce energy and operating costs while maintaining efficient operation.

## **PROJECT APPROACH TO INDOOR ENVIRONMENTAL QUALITY (IEQ)**

Wellsphere™ from Trane is a holistic approach to building wellness. It addresses the four elements of indoor environmental quality (IEQ):

### *Air Quality*

Improving indoor air quality (IAQ) is one of the most effective ways to address airborne health risks in your building. Indoor pollutants can be invisible to our senses, yet harmful to our health and productivity. Trane can perform an IAQ assessment of your facilities and fully vet the three solutions that Trane currently supports:

- Ultraviolet lamps in ductwork
- Synexis (dry hydrogen peroxide gas)
- Dynamic air cleaners.

### *Thermal Comfort*

Create an indoor atmosphere that's comfortable and stimulating while balancing your energy efficiency and sustainability needs. When the right HVAC equipment and control strategies are in place, occupants can feel more comfortable and be more productive.

### *Lighting*

The lighting design of indoor spaces can affect peoples' mood, productivity and even the rhythms of their bodies. Today's more intelligent lighting systems have significant potential to improve safety,

comfort, and productivity. By integrating controls over lighting and HVAC, Trane can make it easier to manage more of what is happening inside your building—from one easy-to-use user interface.

### *Acoustics*

Good acoustic design can enhance concentration and focus by eliminating noise, improving sound privacy and much more. Trane is an industry leader in providing accurate, comprehensive acoustical data for our products and system designs within the building context. Quiet products are only the beginning of Trane's scientific approach to building acoustics.

## **REPAIR SERVICES**

Chances are your facilities have HVAC and controls systems from several different manufacturers. Trane technicians are proficient in servicing all brands and types of HVAC and controls systems. These are among the comfort systems that our local technicians maintain, repair, or replace:

- Air filtration and air handlers
- Chillers (air-cooled and water-cooled)
- Chilled water and condenser water pumps
- Controls (digital and pneumatic)
- Cooling towers and evaporative coolers
- Condensing units
- Fans and humidification
- Motors and motor starters
- Rooftop and unitary HVAC units (electric and gas-fired)
- Variable frequency drives

Knowledgeable Trane technicians will troubleshoot your equipment using data compiled from experiences with clients around the world. They are trained to look beyond the immediate problem by also identifying weaknesses or potential areas of unreliability.

### **Rentals**

If you need temporary cooling or other equipment during a retrofit, we have the resources in place to quickly deliver a solution. Trane Rental Services has been providing temporary equipment solutions for more than 25 years. Our fleet includes Water- and Air-Cooled Chillers, Package Air Conditioning Units, Air Handling Units, Diesel Power Generators, Oil-Free Compressed Air, Heaters, and ancillary equipment to support our customers.

You will have access to 24/7/365 customer service, equipment monitoring and technical support. With 25 locations in the United States and Canada, **we can deliver temporary equipment solutions to every major metropolitan market within hours.** In addition to providing solutions for emergency needs, we can also help customers with their seasonal supplemental needs, planned shutdowns and special events.

## LEASES

**Trane's Financial Services** includes leasing (all types), prompt pay discounting, anticipation discounting, guaranteed savings programs and long-term financing solutions.

## EQUIPMENT UPGRADES

- All Trane commercial equipment including all applied, unitary, terminal units and heating products procured domestically
- Trane building automation equipment to the extent that it is coupled with installation of both new and/or retrofit of BAS systems.
- Lighting & retrofits
- Cooling Towers
- Frequency Drives
- Ductless split systems & VRF products
- Pumps
- Boilers, hot water heaters and water specialties
- Modular chillers
- Dust collection systems & servicing
- TAS packaged central plants
- Evaporcool evaporative process cooling
- Dynamic air filtration
- Genesis conversion (photo catalytic oxidation) technology
- Heat recovery air handlers
- Unit ventilators
- Trane parts in conjunction with Trane contracted repair and retrofit of existing Trane equipment as well as over the counter purchases.

## OTHER SERVICES

- **Energy Services** - Energy Tracking, Energy Analysis, Evaluation of Potential Upgrades, demand response, rebates and other
- **System analysis** of existing facilities including modeling and payback analysis
- **Design Build Contracting** for upgrading and improving efficiency within municipal infrastructure including but not limited to city buildings, wastewater treatment plants, conveyance systems, water treatment facilities, metering system, and lighting, etc.

## PRODUCTS AND BRANDS SUPPORTED BY TRANE

- Identify the manufacturer products/brands the Bidder can service and support.

While Trane is the industry expert on Trane equipment, we service all brands and most models of HVAC equipment. Trane technicians are sent to other competitive OEM schools across the industries (Carrier,

York, etc.) for certification. Trane is a vendor-neutral company with experience installing, maintaining, and repairing a variety of products and brands including:

**Products** – water-cooled chillers, air-cooled chillers, air handlers, boilers, pumps, piping, cooling towers, VAV systems, variable frequency drives, constant volume systems, building energy management systems, roof top unit air handlers, make up air unit air handlers, VRF and ductless systems, building automation systems, all heating and cooling valves, air balancing, back flow/cooling/heating valves, heat exchangers, and refrigeration.

**Brands** – AAON, American Standard, Amana, AO Smith, Artichill, Aurora, BAC, Bard, Bell and Gossett, Bosch, Bryant, Carrier, Coleman, Daiken, Desert-Aire, Distech, Edpac, Energy Logic, Evapco, Honeywell, Hydrother, Ingersoll-Rand, Johnson Controls/York, Lennox, Liebert, Lochnivar, Marley/Evapco, Marvair, McQuay, Mitsubishi, Multistack, Paco, Patterson-Kelly, Pool Pac, Raypack, RBI, Trane, and Vertiv.

### MINIMUM WORK CREW

- Stipulate the minimum work crew that will be made available at all times, ensuring timely and effective project completion. A project foreman, fluent in English, must be onsite during all construction activities and have authority to act on behalf of the Bidder. Each site work crew must have at least one journeyman assigned.

The minimum work crew is addressed based on project type. All contracting jobs will have a project foreman (typically lead mechanic) fluent in English that has the authority to act on behalf of Trane. Each site will have at least one journeyman assigned.

### SUBCONTRACTOR SELECTION

- Describe how Bidder selects sub-contractors for service and/or installation and how Bidder ensures customer satisfaction related to the sub-contractors.

Trane utilizes our Subcontractor Qualification Process to formalize screening. The standard request for proposal (RFP) process includes a two-step process of pre-qualification that is managed via ApprUV (<https://appruv.com>). Prequalification criteria includes financial stability, licenses, small business certification, resource capacity, skillset, work quality, safety rating, and legal standing. Evaluation criteria defined in the solicitation will be used to support best value selection.

All potential subcontractors complete Trane’s Contractor Qualification Statement. Our Project Manager (PM), Quality Control (QC), and Environmental Health and Safety (EH&S) Specialists complete a Contractor Evaluation Form for the screening and final selection process.

Upon completion of the subcontractor qualifications, Trane follows the steps listed below to ensure best value:

- **Bid Packages:** Bid packages are prepared by the PM with support from Development Team engineers. The bid packages describe the scope of work to be performed, drawings and sketches, the nature of the bid (i.e., design build, no change order), and the bid response format (e.g., required detail, taxes, bonds).
- **Separate Walkthroughs:** Subcontractor site visits are a prerequisite. Whenever practical, we conduct separate walkthroughs with each contractor, rather than in large groups to increase engagement and questions.

- **Multiple Bidders:** Trane solicits pricing from a minimum of three subcontractors for most scopes of work. We carefully review the list of subcontractors available, acknowledging those with proven history with Trane and our client. We then compare them to the requirements to assure they are the best subcontractors for the project.

Trane keeps tight cost controls through close oversight of subcontractors and monitors performance and quality control through onsite supervision, quality inspections, and cost and schedule progress reporting. Subcontractors participate in weekly and monthly project review meetings, and daily work progress reports showing hours worked and activities completed are required. Trane has Equipment Engineers on staff in our sales office who work with the local design engineering community daily, and these same engineers will be working with the designers for the optimal selections on Trane equipment, as well as non-Trane equipment needed for the project.

## TESTING, ADJUSTING, AND BALANCING

- Describe Bidder's company's process for submitting a test and balance report for each piece of equipment installed, including items that will be covered in the test and balance report.

The purpose of testing, adjusting, and balancing (TAB) is to assure that an HVAC system is providing maximum occupant comfort at the lowest energy cost possible.

Pre-planning for TAB work includes making certain that all the necessary parties and individuals to conduct the work are onboard. The type of building and systems to be tested and a realistic evaluation of what skills the TAB technician possesses are key planning elements.

- Often, a controls specialist will be needed to operate the system for the TAB technician.
- The representatives from the original equipment suppliers may be needed as a resource, at a minimum, but for complex equipment and systems or in a new building startup a manufacturer's representative may be required at the site to operate the mechanical equipment.
- If the building has a facilities manager that individual is typically the most important participant with which the on-site TAB technicians will work. Facility managers have a substantial vested interest in ongoing customer satisfaction—the people who work or live in the building are actual end- use customers—and their satisfaction will ultimately be the key measure of success.

Occasionally, a system cannot be balanced or made to perform in accordance with the contract's design specifications regardless of the number of balancing dampers or valves that can be installed.

Competent TAB technicians should be prepared for this possibility and work with the appropriate individuals to formulate recommendations as part of the final TAB report.

It should be made clear that the TAB work is not "commissioning." Most commissioning services are completed by firms having technicians experienced with each of the individual building systems—HVAC, lighting, plumbing, electrical, and security systems.

Commissioning services for any new building construction or renovation are intended to verify all the above systems—operate properly and meet performance criteria.

Commissioning also includes the testing of all building controls for each mode of operation to verify all systems are being sequenced correctly with each other and that all interlocks are functioning. The commissioning agent must document the results of each equipment test performed as it is completed.

These firms will usually subcontract the services of an independent TAB contractor to verify HVAC system balancing as part of their more inclusive commissioning contract.

### *New Buildings*

Testing, adjusting, and balancing of all HVAC systems in a new building is needed to complete the installation and to make the system perform as the designer intended. Assuming that the system design and installation meets the comfort needs of the building occupants, testing, adjusting, and balancing of the HVAC system fine tunes occupant comfort levels while keeping energy use to the lowest level possible. This is extremely important in this era of rising energy costs.

It is important to make sure that all factory equipment startup service has been completed before beginning any TAB work. Most specifications on new building construction usually require a factory representative to be present during the initial startup and adjustment of the mechanical equipment—central boilers, chillers, large variable-speed motor drives, and cooling towers. This initial equipment checkout is also usually required to activate the factory warranties and is not part of the TAB contractor's responsibility. After this initial startup service has been completed, the TAB contractor should be informed that the systems are operating properly, that all safety interlocks and protective devices are functioning, and the systems are ready to be balanced. The TAB phase of any building construction or renovation is intended to verify that all HVAC water- and airflows and pressures meet the design intent and equipment manufacturer's operating requirements. It is rare to find an HVAC system of any size that will perform completely satisfactorily without the benefit of final adjustments. Therefore it is considered a "best practice" for the designer to specify that TAB work be part of the overall HVAC system installation.

### *Existing Buildings*

There are few buildings in existence that have not experienced changes in internal loads and space layout changes since they were designed and built. These buildings should periodically have their HVAC systems rebalanced to achieve maximum operating performance, efficiency, and comfort.

### *The TAB Technician*

TAB technician designates the person in charge of the TAB work being done on the HVAC system. TAB procedures on a complicated HVAC system require that the TAB technician must be a well-trained, highly skilled, and knowledgeable individual. This person must know the fundamentals of airflow, hydronic flow, refrigeration, and electricity and be familiar with all types of HVAC temperature controls and refrigeration systems. They must also know how to take pressure, temperature, and flow measurements and be able to perform effective troubleshooting.

### *The TAB Team*

There are TAB jobs that can be done by one person. However, many HVAC systems need a TAB team to complete the TAB work efficiently and in a reasonable time period. It is equally important that the other members of the TAB team be trained and knowledgeable in the basic fundamentals and procedures of TAB work.

## *Energy Costs and Occupant Comfort*

TAB work conducted on existing buildings will often hold opportunities for the attentive TAB technician to identify additional equipment or work for the system being balanced that will increase occupant comfort and decrease building operating costs. An obvious example would be the replacement of single-speed electric fan motors with newer computer-controlled equipment that can more closely follow the required airflow needs over the changing seasons and load variations. Variable-speed electric motors are a relatively new product and the older the building the greater the likelihood and potential for energy-saving and comfort-enhancing opportunity. In some instances, variable-speed motors may consume just 15% of the electricity on an annual basis as an older single-speed motor.

Another example would be when the TAB technician is asked to provide a rebalance of an individual zone due to shifts in internal use. Often, this is a good opportunity to examine the benefits of a complete review of the building's mechanical system and possibly provide complete-building TAB services. Also, changes in one building zone will often result in changes throughout or at least in other parts of the building.

## *TAB Instruments*

### **Airflow Measuring Instruments**

- Manometers—Used to measure pressure drops which can be translated into flow rates. Available in tube types, both U-Tube and inclined-vertical use a fluid in a tube to represent the difference in pressure between two points.
- Digital manometers—Can provide very accurate readings at very low-pressure differentials, such as across air filters and expansion cooling coils. Can automatically adjust for barometric pressure, store readings with recall in average or total numbers, and some can provide additional functions such as temperature measurements.
- Anemometers—Available in several configurations—rotating vane, deflecting vane, thermal—and used primarily to measure air velocities at registers, grilles, hoods, coils, etc.
- Flow measuring hoods—Directly measures CFM of air distribution devices.

### **Temperature Measuring Instruments**

- Glass tube and dial thermometers—Measurement of air and fluid temperatures
- Thermocouples—Measures surface temperatures
- Psychrometers and electronic thermo-hygrometers—Determines relative humidity.

### **TAB Reporting Forms**

The proper use of a consistent set of reporting forms assures that TAB work is being done in a systematic manner that produces documented test results that can be easily understood. The following list is an example of forms with a brief description of each to illustrate the steps in the TAB process. Each project may require fewer or more forms and steps depending upon the TAB project goals and the system complexity. Forms include:

- **System Diagram**—A schematic that depicts the system to be tested, its major components, distribution system sizes, the quantities of flow, the location of regulating devices and terminal units and other relevant data.
- **Apparatus Test Report**—Provides details of actual measured flow rates, motor loads and other information that will be useful to compare design to actual system component performance.
- **Coil Test Report**—Used to record performance of chilled or hot water, steam, DX, or other types of energy exchange coils.
- **Gas/Oil-Fired Apparatus Test Report**—Tracks performance of unit heaters, furnaces, and boilers for use in comparison and as a supplement to factory-provided data.
- **Duct Heater Test Report**—Provides documentation of airflow rates across electric furnaces and heater coils and verifies min./max. airflow rates as per required by manufacturers.
- **Duct Transverse Reports**—Used as a worksheet for recording velocity pressures in a prescribed manner to determine actual airflow for duct— round and rectangular.
- **Air Outlet Test Report**—Provides documentation of preliminary and final air distribution devices and possible reasons for deviations from design.
- **Terminal Unit Test Report**—Used to check and document the performance of terminal units.
- **Major Equipment Test Reports**—Each major mechanical HVAC device that is present and part of the TAB project—Chiller/Packaged HVAC/Compressor/Condenser/Cooling Tower/Pump/Boiler—is tested and the results recorded according to industry-recognized procedures. Specific test requirements may be requested for any major component to verify operating performance or efficiency.
- **Instrument Calibration Report**—Documents the tested accuracy of the instruments used to conduct the TAB project.

### *RELEVANT CODES AND STANDARDS*

- **Energy Systems Analysis & Management**—Presents an updated level of technical information necessary for energy conservation and retrofits of today's commercial facilities. This new manual provides building owners, facility managers, contractors, and system designers with the tools needed to evaluate an existing facility for energy savings potential. Items of special interest include performance contracting, CFC refrigeration regulation, and new automation system open protocols. Other topics covered include HVAC heat recovery, energy auditing, operation and maintenance, and indoor air quality.
- **HVAC Systems - Commissioning Manual**—A practical how-to guide for contractors, owners, and engineers interested in learning about commissioning for new buildings and re-commissioning for existing buildings. Separate chapters are devoted to the different levels of commissioning, including b g basic, comprehensive, and critical system commissioning. A thorough explanation of re-commissioning leads one through the preliminary investigation, survey and documentation phase, the design and installation of system modifications, and the actual re- commissioning test.

- **HVAC Systems - Testing, Adjusting, & Balancing**—Presents the basic fundamentals, methods, and procedures, including the necessary tables and charts, to adequately balance a complete HVAC system. A tutorial on air and hydronic systems as well as equipment performance and operation, this comprehensive text covers motor operation, fan curves, pump curves, and fluid flow losses in ducts, fittings, pipes, and air terminals. In addition, variable frequency drives, direct digital control systems, lab hood exhaust balancing and the latest balancing equipment and procedures are presented.
- **TAB Procedural Guide**—The TAB Procedural Guide is intended for trained TAB technicians to assure that the appropriate procedures are employed in an effective manner. This new publication includes general as well as specific guidance for both air-and water-side HVAC system adjusting and balancing. Variable air volume, multi-zone, dual duct, and exhaust air systems are examples of the systems specifically covered and time-saving forms are included for precise record keeping during the conduct of a TAB project. The guide assists TAB technicians with preplanning and establishing teams so that energy use is minimized whether the work is done in new or existing buildings.

## COMMISSIONING PLAN

- Describe Bidder’s company’s process for delivering a comprehensive commission plan at least two (2) weeks prior to start-up, including details of what will be covered in the plan.

This Commissioning Plan establishes the framework for how commissioning will be handled and managed on a given project and custom to that project’s Scope of Work. The commissioning process is applicable anytime Trane performs work, either in a primary contracting capacity or as a sub-contractor within the projects’ delivery model. The commissioning planning process begins with a kick-off meeting to determine the project’s scope, breadth of work, participating trades, timelines, etc. At this meeting, the Trane Project Manager (PM) in conjunction with the Customer Agency will discuss the commissioning process, schedule, team and team member responsibilities, communication structures, and develop a general description of the systems to be commissioned. The Commissioning Plan is custom to the project’s unique Scope of Work. A Commissioning Plan typically includes the following and takes place well before equipment is ordered or work begun, which could be weeks or months prior to the project’s completion:

<b>Introduction</b>	Purpose and general summary of the Plan.
<b>General Project Information</b>	Overview of the project, emphasizing key project information and delivery method characteristics.
<b>Commissioning Scope</b>	The commissioning scope including which building assemblies, systems, subsystems, and equipment will be commissioned on this project.
<b>Team Contacts</b>	Project specific Commissioning Team members and contact information.
<b>Communication Plan &amp; Protocols</b>	Documentation of the communication channels to be used throughout the project.

<b>Commissioning Process</b>	Detailed description of the project specific tasks to be accomplished during the Planning, Design, Construction, and Tenant Occupancy Stages with associated roles & responsibilities.
<b>Commissioning Documentation</b>	List of commissioning documents required to identify expectations, track conditions and decisions and validate/certify performance.
<b>Commissioning Schedule</b>	Specific sequences of events and relative timeframes, dates, and durations.

## TRANE'S APPROACH TO PREVENTATIVE MAINTENANCE

- Describe Bidder's company's scope of work for preventative maintenance work.

Trane's service team members use specific software and standard processes in place to schedule service calls, complete preventative maintenance, invoice jobs, and track inventory. With a comprehensive range of service capabilities and in-house expertise—delivered by an extensive service network always on call—Trane delivers the most reliable and cost-effective performance from day one. Once a Service Agreement is in place, Trane technicians will complete field reports that include all recommendations for maintaining a high-performance facility.

Trane's Preventative Maintenance program typically consists of four quarterly site visits: with one annual inspection and three routine inspections. The number of site visits can vary according to the system needs. By planning ahead and addressing maintenance needs on a systematic, scheduled basis, customers can virtually eliminate unplanned downtime and save a lot on repair costs. As maintenance tasks are performed, technicians record and detail each asset's condition to determine the appropriate timeframe for an inspection, cleaning, lubrication, any calibration, or adjustment, including possible part replacement.

The work performed is recorded electronically via technician's mobile device. The data is stored and backed up on a secure data network. At completion of the work, customers receive an electronic report of the tasks executed. In addition (for service agreement customers only) work reports can be accessed on a Trane customer portal (<https://mybuilding.trane.com>).

We're fully trained, using proprietary Six Sigma maintenance procedures, to service both Trane HVAC equipment as well as that of other brands.

Trane's industry exclusive service flow process includes detailed, documented procedures that identify steps for: safety, sequence of execution, quality control, work validation, parts, materials, tools, and environmental compliance. Where applicable, **Trane's exclusive service process meets or exceeds ASHRAE 180-2008 Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems.**

To prolong an asset's useful life and lessening the likelihood of failure, Trane offers a preventative approach that can leverage predictive technology as well as regular monitoring of your HVAC operations. Our standard Preventative Maintenance package involves planning ahead and addressing maintenance needs on a systematic, scheduled basis. However, we can add value with optional state-of-

the-art add-on services — such as Predictive Service, Active Monitoring, Critical Systems Audit, or Rental Reserve.

Trane’s overall approach to Preventative Maintenance revolves around 7 Service pillars:

### *Knowledge Transfer*

Work performed on your equipment will be documented by our technician and reviewed with you at the completion of each service visit. Trane Technicians will review operating sequences and practices for the equipment covered by the agreement and advise you of operational improvement opportunities. Concurrent with annual start-up, the dedicated Trane Technician will instruct your Facility staff on how to operate the equipment covered by the agreement.

### *Quality Guarantee*

Trane provides a guarantee of performance based on testing conditions — as specified in both AHRI (Air Conditioning, Heating and Refrigeration Institute) and ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers). Trane then backs up this performance with the industry’s premier warranty and service support to ultimately provide the best value for each customer. Within the controls and automation teams, for example, Trane has adopted the mantra of “no bad jobs”. This business mindset is prevalent throughout Trane — from the factory to the field sales office. Trane products have utilized several such initiatives to provide cost saving areas for customers. For example:

- **ICS (Integrated Control Systems).** The controls that come with Trane products all offer an open computer control technology protocol. This allows a client to feel comfortable that with every Trane product that is purchased, their existing Building Automation System will be able to communicate or if there is not a Building Automation System (BAS) in place, Trane can provide our BAS system **at a packaged program price**.
- **D.F.T. (Demand Flow Technology).** A mathematically based business strategy that encompasses the entire Trane organization: marketing, sales, order entry, engineering manufacturing, suppliers, and finance. Demand Flow Technology manages every aspect of the product cycle from the time the product is ordered, until it is shipped. Its sophisticated procedures ensure that customers receive fast availability of a wide selection of Trane standard products as well as custom and modified ones.

### *Technology*

#### **Scheduling, Service History — ComfortSite**

[ComfortSite](#) — our web-based asset management system — is used for scheduling of Service calls and provides customers with free access to their Service history, technical reports, parts identification tools, product literature and other relevant information. In addition to these options, ComfortSite also enables owners to manage local parts inventory and equipment replacement plans. ComfortSite offers these advantages:

- Asset and maintenance management software
- 24/7 internet-based access
- Trane enters HVAC equipment data

- No software integration or process changes required
- Ability to enter non-HVAC equipment into the database
- Multi-level username and password access
- Multiple output file formats available for upload

### *Chiller Plant Optimization*

Chiller Plant Optimization validates that the chiller plant is operating appropriately. It helps manage the multiple system inputs and confirms set-up accuracy.

#### **Advantages:**

- Maintain comfort, reliability, and uptime
- Prevent premature failure of the system or components
- Identify anomalies that waste energy



#### **Implementation:**

- Review chiller plant control parameters and search for inefficiencies in cycling and staging
- Check loop tuning and provide a quote, if necessary
- Reset routines to design specifications

### *Predictive Service*

Trane will analyze the condition of your HVAC equipment to detect physical conditions that can lead to system inefficiencies and catastrophic failures. Early detection by Trane Field Service Technicians enables you to arrange maintenance procedures and overhauls during planned downtime instead of experiencing unplanned system outages and emergency repair delays and costs.

- Infrared Thermography
- Combustion Testing
- Vibration Testing
- Eddy Current Tube Testing
- Ultrasonic Testing other than tubes, bearing, etc.
- Air Quality Monitoring
- Air Balance
- Water Balance

### *Energy Performance*

Energy Performance provides real-time energy monitoring, displayed through a set of online dashboards and tools, to reveal where and when a building consumes energy. It provides the ongoing, real-time insight that's needed to drive measurable results. This advanced cloud-based building energy management system (BEMS) service provides visual tools and analytics that uncover hidden causes of

energy waste. Energy Performance pairs advanced technology with the extensive expertise of Trane building professionals who recommend energy conservation measures (ECMS) based on building data.

### Advantages:

- Leverage spectral analysis to visualize energy usage or demand over a select period
- Monitor building performance and view progress on sustainability goals using intuitive dashboards
- Access analytics to identify times of excessive energy consumption
- Report and track the ongoing improvements gained by proactively managing your building



### Implementation:

- Cloud-based building energy management system provided through Software as a Service (SaaS)
- Access to online dashboards, reports, alerts, and trending tools
- Interpretation by technical specialists
- Real-time energy data monitoring and aggregation from multiple sources: utility meters, sub-meters, sensors and building automation system all linked to your local energy costs to track your energy spend more accurately
- Software support, online help, and documentation
- Site set-up and data

### *The Environment and Sustainability*

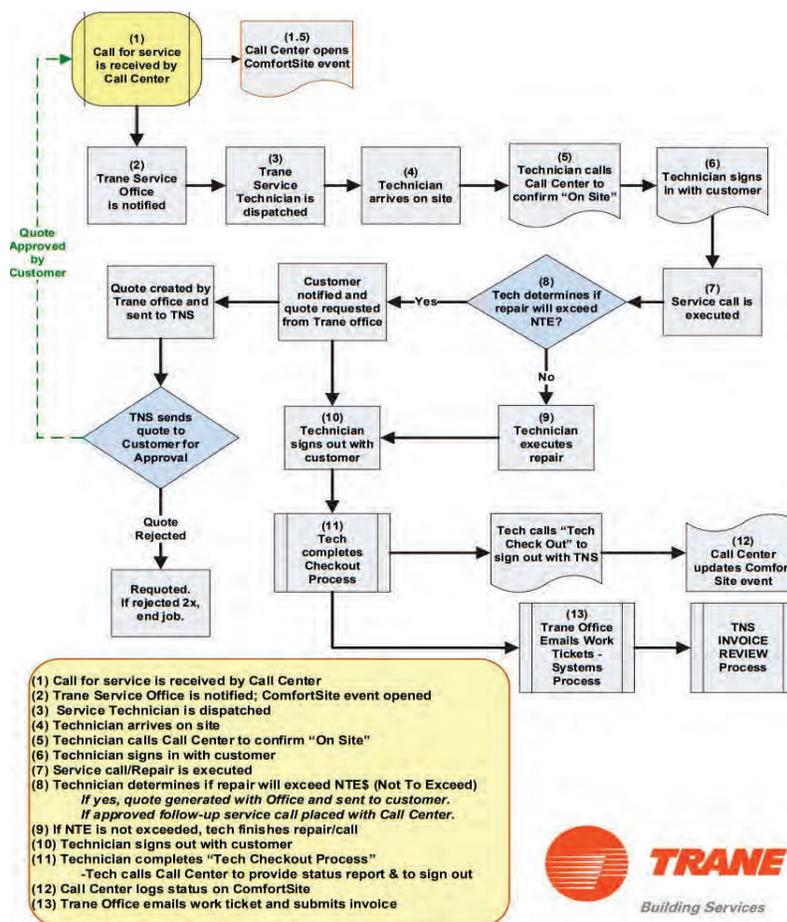
Trane procedures for handling refrigerants are compliant with Federal and State laws and regulations — in respect to the proper handling, storage, and repair of leaks of ozone-depleting refrigerants as well as their substitutes, according to Environmental Protection Agency regulation 40 CFR Part 82. Trane service technicians are Universal-certified and use only certified recovery equipment.

Trane maintains and uses our Refrigerant Management Software (RMS) to capture, manage and report Refrigerant Activity. The Refrigerant Activity Report Form is used by the technician to record all

refrigerant activity that has occurred on each piece of equipment. The form data is entered into RMS after it is submitted to and checked by central office personnel. Annually, Trane prints a report from RMS of all Refrigerant activity that has occurred at each site. The report details all refrigerant activity performed by Trane Building Services Technicians for each piece of equipment and can be used to satisfy reporting requirements. In terms of Oil disposal, we remove used oil from your refrigeration units and dispose of it in accordance with applicable environmental regulations. Trane has a national contract with a leading provider of used oil services to recycle used oil, where allowed, and properly dispose of used oil which does not meet recycling requirements (in states where used oil is a hazardous waste, Trane will remove used oil from refrigeration units for the customer to arrange disposal).

### Documented Processes to Safeguard Uniform Service Delivery

All Trane personnel follow documented processes to enable and safeguard uniform service delivery.



### Specific Work Steps

The following illustrates Trane’s procedure for each call for service:

#### Emergency Response within 4 hours — 24/7, 365 days a year

Priority Emergency Response is available on a 24-hour-per-day basis. Trane is able to perform emergency services outside of normal business hours when requested. Each Trane office has its own Emergency hotline for seven (7) days a week, twenty-four (24) hours a day, three hundred sixty-five

(365) days per year. Our goal is to answer each call within 30 seconds of receipt, 90% of the time. And our goal is to respond to all emergency calls within 4 hours or less.

**Trane's team of Service technicians has a rotational, on-call schedule, and someone is always available to handle an after-hours or an emergency call.**

### **Emergency Parts Service**

Trane's Parts order system provides an ability for both emergency and rush orders. This system is unique in that it allows the flexibility of integrating rush orders into the standard order system without disruptions or excessive costs.

### **The State-of-the-Art Rental Reserve Add-on Service**

Whether it's extra cooling needed during extreme weather conditions or a short-term replacement following an emergency, buildings sometimes require equipment to cool an indoor environment on a temporary basis. Trane Rental Services can provide fast, safe, and cost-effective solutions using modern and reliable equipment. A temporary cooling system will keep your business operational whilst you repair, replace, or upgrade your existing system. Rely on temporary solutions from the name you trust. Our team of account managers, engineers, service technicians and logistics professionals can rapidly transform the equipment you need into a smoothly functioning system that will exceed your expectations.

Every rental delivers state-of-the-art Trane equipment and expertise. We'll be your one-stop solutions provider when you are:

- Short on time — A temporary system allows you the ability to continue your business operations while you take the time to find the best permanent solution.
- Short on funds — Capital improvement budgets are shrinking these days. A rental from Trane can allow you to optimize the use of your funds.
- Risk averse — Knowing when and where temporary solutions are available can speed deployment time in an emergency and limit associated financial losses.
- Experiencing temporary spikes — A rental is a cost-effective solution for a short-term situation, such as a spike in production or peak design conditions that lasts two months or less.

### **Other Maintenance and Repair (OMR)**

If the Technician finds an issue that needs to be fixed, they will communicate that to the customer and record their findings in a report, requesting a quote from Trane — to be approved by the customer ahead of the repair, replacement, or any other maintenance work.

Customers often opt for Trane's exclusive HVAC Rental Reserve program. The Rental Reserve Program is intended to protect against unplanned needs caused by customer's HVAC equipment outages. It is designed to minimize the impact of downtime by providing cooling system redundancy. The program provides year-round availability of rental chiller equipment within a 24-/48-hour notice to Trane — to proceed with delivery and connection of the rental equipment. Included in the price of the add-on option is a customized and executable HVAC rental emergency plan maintained by Trane as well as suitable equipment for speedy connection at the site.

The rental emergency plan provided by Trane would contain a typical chilled water system plan, for example, where we will identify:

- Location, type, and tonnage of the rental chiller;
- Applicable electrical, chilled water, tower water connections as necessary for chiller connection;
- Necessary system upgrades to accommodate the Trane Rental chiller package

### Warranties — Workmanship, Equipment

**The workmanship warranty** (labor portion of the Maintenance Services and Additional Work) is **90 days from the date of completion**. Trane’s obligation under the Warranty is limited to correcting any labor improperly performed by Trane. Defects must be reported to Trane within the 90-day period.

**The parts and equipment warranty** (the material manufactured by Trane and provided to the customer in performance of the Services) is **12 months from the earlier date of equipment start-up or replacement**. Trane’s obligation under the Warranty is limited to repairing or replacing the defective part at its option. Defects must be reported to Trane within the 12-month period.

Should it be necessary to replace or repair any non-Trane equipment provided by Trane as part of a service to the state, Trane will extend to the Customer the benefits of any warranty Trane receives from the manufacturer.

### ADDITIONAL CHARGES FOR MAINTENANCE

- Describe and define all scenarios in which additional charges would apply outside of routine preventive maintenance.

The primary goal of maintenance is to avoid or mitigate the consequences of failure of equipment. This may be by preventing the failure before it occurs which Planned Maintenance and Condition Based Maintenance helps to achieve. It is designed to preserve and restore equipment reliability by replacing worn components before they fail. Preventive maintenance activities include partial or complete overhauls at specified periods, oil changes, lubrication, minor adjustments, and so on. In addition, workers can record equipment deterioration, so they know to replace, or repair worn parts before they cause system failure. The ideal preventive maintenance program would prevent all equipment failure before it occurs, however additional charges would apply if these parts were not included up front.

### REPAIR AND UPGRADE RECOMMENDATIONS

- Describe Bidder’s methodologies for assisting Participating Public Agencies with recommendations on repairs and upgrades from defining the repair/upgrade through the completion of work.

With a comprehensive range of service capabilities and in-house expertise, delivered by an extensive service network always on call, Trane service solutions ensure the most reliable and cost-effective performance from HVAC systems from day one – and on through their complete lifecycle. Once a Service Agreement is in place, Trane Technicians will complete field reports that include all recommendations for maintaining a high-performance facility. Below are descriptions of our service capabilities, from start up through advanced remote monitoring and contingency cooling.

## *Start Up*

### **Trane Elite Start™ - Commissioning service**

Trane Service Engineers validate HVAC installation, following a tried and tested checklist for optimal start-up conditions, verifying, and recording design operational parameters.

**Trane Extended Start** - Assure the highest level of performance for the HVAC system's crucial first year. HVAC systems are typically sold with a standard factory warranty terms and conditions. Trane Extended Start goes above and beyond the standard warranty to provide eight value-added services which will create a system performance baseline.

## *Operate and Maintain*

**Genuine Parts and Repair Services** - The right parts and the OEM expertise quickly available. From precision-crafted original Trane items to generic parts, Trane offers a comprehensive parts inventory with 6,500 references to answer quickly to customers' needs. Trane efficient logistics and factory authorized technicians also ensure expert replacements and fixes.

**Trane Chiller Health Check Program** - OEM chiller performance analysis The reliability and efficiency of a water chiller are directly related to how it is maintained and operated. Appropriate maintenance can help avoid severe malfunctions and costly breakdown. Trane Chiller Health Check Program provides the real time status and performance of equipment and recommends proactive measures to restore a safe, reliable, and efficient operation of chillers.

**Trane Service Agreements** - Reduce operating costs and optimize equipment life with planned maintenance from Trane. By planning and addressing maintenance needs on a systematic, scheduled basis, your client can save significantly and virtually eliminate unplanned downtime. Trane will help define the service agreements best suited to your client's applications and business needs.

## *Improve Cost of Ownership*

**Trane Select™ Contracts** - Head off problems before they affect operation Four customizable HVAC service contracts designed to provide operating efficiency, maximize the system life, and help cut costs. From preventive maintenance plans to fully comprehensive solutions, Trane Select Contracts offer fixed costs making them more valuable the longer the contract period. All contracts come with free compressor coverage.

**Trane Controls Services** - Keeps HVAC settings fine-tuned for optimal performance. Buildings are a complex, inter-related set of systems. Over time, adjustments can change HVAC configurations that were fine-tuned on installation. Trane Controls Services offer four levels of servicing to regularly review the building control system, ensure it maintains its designed comfort level and is always up to date with your clients' current needs – operating as efficiently as possible.

## *Upgrade and Improve*

**Trane Care™ Services** - Restore the performance of HVAC equipment and maximize its lifecycle. No matter where your clients' equipment is in its life cycle, Trane Care™ will turn HVAC systems into business advantages in terms of reliability, energy, and environment to help their buildings perform at its best and sustain it day in and day out. A Trane Care™ upgrade of HVAC installations will enhance

equipment reliability, reduce operating costs, optimize equipment life, and ensure compliance with environmental regulations.

### *Advanced Remote Analytics*

Trane Intelligent Services - Close remote building system monitoring and analysis of system trends. Trane Intelligent Services provide always-on, automated monitoring powered by a suite of leading technologies backed by Trane's team of technical experts. They give building operators high-end capability to help minimize the occurrence and severity of system failures through early detection of alarms and performance issues. Whether your clients require continuous monitoring and automated notification, monitoring plus an action plan for remediation services, Trane can provide a cost-effective solution to establish critical points, appropriate parameters, actions, and procedures.

### *Contingency Cooling*

Trane Rental Services - Cooling solutions for all temporary needs Temporary cooling needs covered to keep your clients' businesses operational during repair, replacement, or upgrade of the existing systems: from breakdowns to extra seasonal capacity requirements, planned service work, facility renovation, specialty events and more. Trane provides fast, safe, and cost-effective solutions using modern and reliable equipment for all building purposes.

## **NOTIFICATION OR PERSONNEL IN FACILITY**

- Describe Bidder's firm's process for notifying a Participating Public Agency when personnel are going to be in a facility, arrival and departure time and the work performed. How does Bidder handle requirements for sign-off of work prior to leaving a facility?

The Trane service coordinator notifies customer when Technician is scheduled to arrive. Upon arrival Technician checks in with designated site contact. Upon departure Trane technician reviews work and secures signature from site contact.

## b. Ability to Provide Temporary Cooling

b. Describe Bidder's ability to provide temporary cooling/chiller units.

Whether it is extra cooling needed during extreme weather conditions or a short-term replacement following an emergency, businesses sometimes require equipment to cool an indoor environment on a temporary basis. [Trane Rental Services](#) can provide fast, safe, and cost-effective solutions using modern and reliable equipment. A temporary cooling system will keep your business operational whilst you repair, replace, or upgrade your existing system. Rely on temporary solutions from the name you trust. Our team of account managers, engineers, service technicians and logistics professionals can rapidly transform the equipment you need into a smoothly functioning system that will exceed your expectations. A rental is a cost-effective solution for a short-term situation, such as a spike in production or peak design conditions that lasts two months or less.

- **Fast** - Because speed of unit installation can be extremely important to your business, all Trane rental equipment has been fitted with enhancements that save installation time.
- **Safe and reliable** - Whilst getting your system up and running is of utmost importance to your operation, safety and reliability of the equipment provided are equally important. You can depend on Trane modern equipment.
- **Cost-effective** - Whatever the application, Trane can provide a cost-effective temporary cooling solution for your organization until you are able to repair or replace your existing equipment.

Every rental delivers state-of-the-art Trane equipment and expertise. We will be your one-stop solutions provider when you are: Short on time: A temporary system allows you the ability to continue your business operations while you take the time to find the best permanent solution. Short on funds: Capital improvement budgets are shrinking these days. A rental from Trane can allow you to optimize the use of your funds. Risk averse: Knowing when and where temporary solutions are available can speed deployment time in an emergency and limit associated financial losses.

### Rental applications

#### R'newals, retrofits or replacements

Eliminates the time pressure associated with getting your primary HVAC system back on line. A rental system can provide continuous cooling during equipment change-outs or planned maintenance.

#### Supplemental cooling

Provides additional cooling for those times when your facility's cooling loads exceed your current system's capacity.

#### Emergencies

Gets your HVAC system back up quickly in case of a natural disaster or unexpected equipment failure.

#### Specialty cooling

Provides cooling for a special occasion. Trane's temporary chillers and on site services are available for exhibitions, ice skating rinks, and other special events.



## c. Products and Services Provided by Trane

- c. Describe in detail the depth of product and services Bidder provides and any related products or services being offered. Include:

Trane's products and services are provided on the "Product Information Matrix" on pages 75-92.

### DESCRIPTION OF THE PRODUCTS

- A description of the Products, including all related components and parts to be provided by the major product category.

#### 1. HVAC Equipment and Products

##### Chillers

- Air-cooled chillers
- Water-cooled chillers
- Compressor chillers
- Ancillary chiller water plant equipment
- Absorption liquid chillers
- HVAC Refrigeration Type- Rotary, Centrifugal, Scroll, Reciprocating, Absorption

##### Unitary systems that combine heating, cooling, and fan sections

- Rooftop systems
- Split systems
- Self-contained systems
- Water source heat pumps
- **Unitary** Type-rooftops, split systems, VRFs, Heat Pumps, PTACs, water- source, mini-splits

##### Air handling systems

- Performance air handlers
- Blowercoil air handlers
- Make-up air gas heating system
- Air handler options and air cleaning options, Type- central station-manufactured or custom makeup air, fan, filter, coil sections

##### Terminal devices

- Unit heaters
- Unit ventilators
- Fan coil units
- Ventilation fans and variable air volume
- Air Terminal Devices and Heating Products Type-VAV, Fin Tube Radiation/Convectors

##### Ductless variable refrigerant volume units

## **Dedicated outdoor air systems**

### **Replacement coils**

### **Automation equipment**

### **Parts and aftermarket product**

- **Cooling Towers** Type- open, closed, evaporative, other
- **Pumps** Type- single stage, split case, end suction, inline, circulator, turbines
- **Invertors**
- **Boilers & Water Heaters** Type- modulating, condensing, cast iron, water tube, packaged and other
- **HVAC Specialty Products** Type - modular, outside/inside, S&T Heat Recovery, Humidity Control, Heat Wheel, Heat Pipe, Heat Exchangers

### **Other HVAC products**

- **Indoor Air Quality Products and Devices** Type- Active polarization, non- ionizing, electronic air cleaning systems intended to replace passive filtration, any other.

## *2. Installation and Services*

### **Installation of new equipment**

- **Startup & Commissioning Services** Type - equipment startups, system checkouts, control verification, retro commissioning, M & V verifications, rebate auditing, other

### **Maintenance of existing systems**

- **Service & Maintenance** Type- preventative and full maintenance contracts, man-at attendance, remote monitoring, annuals, emergency services, regulatory compliance, cleaning (e.g., duct, coils, and filters), scheduled maintenance (e.g., oil, chemical and vibration analysis) and other

### **Upgrading of existing infrastructure**

### **Turnkey services**

- **Installation and Turnkey Contracting** Type- retrofit, new construction, energy retrofit, controls new- and upgrade and other

### **Other installation and services offered by Bidder**

- **Warranty Services** Type- Extended parts & labor (define maximum number of years available), delayed start-up and other
- **Professional Services** Type- Engineering, Design, Drafting, Architectural, Project Management and other
- **Site Surveys** Type- Equipment, system analysis, operational, architectural, and other

## *3. Related Products, Solutions, and Other Services*

### **New, and/or retrofitting older products and solution**

### **HVAC equipment controls**

- Type-core components, end devices, lighting, panels

### **Ancillary Services**

#### **Thermostats**

#### **Sensors**

#### **Energy programs**

#### **Design and analysis tools**

#### **Commissioning**

#### **Building management and/or certifications**

#### **Enterprise management**

#### **Rental and lease services**

- Type-chillers, pumps, transformers, terminal units, generators, cooling towers, packaged unitary and other

#### **Financial services**

- Type- leasing, prompt, and pre-payment discounts, guaranteed savings and other

#### **Training and/or educational services**

#### **Municipal services**

#### **Other related products and services**

### **CATALOG OR BROCHURE TYPE INFORMATION**

- A catalog or brochure type information as applicable.

Trane has detailed catalog information for all equipment. A National Line Card is provided on the following pages.

# National Line Card

PRODUCTS & SYSTEMS SOLUTIONS



## APPROACH

We take a creative approach to every project; treating each project uniquely so we can collaborate to understand objectives and goals. Trane delivers outcomes; we start from the beginning and follow the process through. Plus, we always keep indoor environment quality and energy efficiencies top of mind.

## SERVICE & SOLUTIONS

Our capabilities include commercial systems, energy services & solutions, contracting, controls/building automation, rentals and service.

Trane Wellsphere™ is a holistic approach to building wellness that cultivates healthier indoor spaces. It brings together unmatched experience and expertise to take a holistic approach to optimizing building's indoor environmental quality (IEQ).

- HVAC SYSTEMS**  
Sustainable and scalable solutions for maintaining ideal system performance
- OPTIMIZED EQUIPMENT**  
Applied Chilled and Hot Water, Air Handling, Large and Light Packaged, VRF, VAV, Zone Terminal, Pre-Packaged Systems with Controls
- RENTAL SERVICES**  
Promptly provides temporary, scalable HVAC and power from standard applications to complex solutions
- BUILDING SERVICES**  
Reliable, preventative and proactive scheduled maintenance and repair by factory trained technicians
- ENERGY SERVICES**  
Managing your energy supply and demand to reduce cost, optimize performance and improve sustainability
- BUILDING AUTOMATION SYSTEMS**  
Making precise control easier, mobile and data-rich



### Trane Building Automation Systems



**Tracer® SC+**  
Scalable building automation system solution



**Tracer Concierge®**  
Light commercial control system



**Pivot® Smart Thermostat**  
Wi-Fi & Ethernet thermostat for light commercial applications



**Factory & Field**  
Mounted BACnet® & LonTalk® Unit Controllers, Integrates with BACnet MSTP, LonTalk Certified, BACnet/IP, Modbus® Protocols



**Wireless Solutions**  
Wireless comms, BACnet/Zigbee®, temperature & humidity sensors

### Trane Building Management Systems



**Tracer® Ensemble®**  
Enterprise level building management software



**Tracer® Synchrony®**  
Web-based facility management software



**Tracer® Concierge®**  
Occupant user interface for non-technical user



**Tracer® Mobile Apps**  
Concierge, Trane BAS Operator Suite

### Trane Intelligent Services



Aggregates data collected in a building. Provides analytic tools to make real-time, near term, and long term decisions that maximize the way buildings are managed and maintained.

### Lighting Solutions



Control more than half of your building energy use when you integrate Trane lighting solutions into your BAS.\* The Trane difference offers increased energy savings, improved comfort and flexibility, and a higher quality design - all within your customer's budget. Lighting science can support productivity, performance, safety, and well being. Utilizing intelligent lighting solutions as your infrastructure for smart buildings unlocks the capabilities of asset tracking, contact tracing, emergency assistance, and more!

\*U.S. Energy Information Administration, 2020

### Trane® / Mitsubishi VRF & Ductless



**N-Generation CITY MULTI®**  
Energy efficient, all electric VRF system available in Standard, High Efficiency, and H2i®(R) (Hyper-Heat)



**Nv Series**  
Ductless system for maximum energy efficiency and quality control with precise zone control to distribute heat or air conditioning only to spaces in use



**P Series**  
Light commercial ductless system for superior comfort, flexibility and reliability with precise 1:1 outdoor to indoor connections for efficient zone management



**Indoor Units**  
A variety of indoor units available to meet any application and design requirements, including ceiling cassettes, wall mounted, concealed and more



**LEV Kit**  
The power to connect Trane® / Mitsubishi Electric CITY MULTI® Products to Trane Air Handlers; Allows for higher airflows, higher static pressure, larger capacity, customized products, and DOAS configurations; Available in multiple tonnage sizes

### Trane Precision Cooling



**Single Circuit DX**  
Single circuit DX; vertical floor mounted; 5 - 10 Ton; tandem compressor options: EC fan technology



**Dual Circuit DX**  
Dual circuit DX series; vertical floor mounted; 15 - 30 Tons

### Centrifugal Chillers



**Model TACW**  
Oil-free; 60 - 1400 Tons; R-134a and R-513A



**Agility® Model HDWA**  
150 - 450 Ton; 60 Hz, 50 Hz; Symbio® 800 controller; uses either R-513A or R-134A



**CenTraVac® Model CVHE**  
3-Stage Compressor; Symbio® 800 controller; 150 - 500 Tons; R-514A



**CenTraVac® Model CVHF**  
2-Stage Compressor; Symbio® 800 controller; 325 - 2000 Tons; R-514A



**CenTraVac® Model CVHH**  
Multi-stage; Dual Compressor; Symbio® 800 controller; 900 - 2000 Tons; R-1233zd



**CenTraVac® Series S™ Model CVHM**  
Oil-Free Compressor; Symbio® 800 controller; 170 - 390 Tons; R-514A



**CenTraVac® Model CDHF**  
Multi-Stage Dual Compressor; Symbio® 800 controller; 1450 - 3950 Tons; R-514A



**CenTraVac® Model CDHH**  
Multi-stage; Dual Compressor; Symbio® 800 controller; 1800 - 4000 Tons; R-1233zd

### Water-Cooled Chillers



**Cold Generator™ Model CGWR**  
Scroll Compressors; 20 - 75 Tons; R-410A



**Series R® Model RTWD**  
Helical Rotary Compressor; 60 - 250 Tons; R-134a or R-513a



**Optimus® Model RTHD**  
Optional Variable Speed Helical Rotary Compressor; 150 - 430 Tons; R-134a; or R-513a for fixed speed only



**Series R® Model RTUD**  
Helical Rotary Compressor with remote air-cooled condenser; 80 - 250 Tons; R-134a



### Air-Cooled Chillers



**Cold Generator™ Model CCAR**  
Scroll Compressor with Air-Cooled Condenser; 20 - 70 Tons; R-410A



**Model CGAM**  
Scroll Compressor; 20 - 130 Tons; R-410A



**Ascend® Model ACS**  
Scroll Compressor; 140 - 230 Tons; R-410A



**Series R® RTAC**  
Helical Rotary Chiller; 140 - 500 Tons; R-134a



**Sintesis® Model RTAF**  
Variable Speed Helical Rotary Compressor; 115 - 500 Tons; R-134a or next gen R-513A



**Ascend® Model ACR**  
Free Cooling; Symbio® 800 controller; 150 - 550 Tons; R-134a



**Model TACA**  
Oil Free Centrifugal; 60 - 440 Tons; R-134a or R-513A



**Ascend® Model ACX**  
Energy efficient, all electric heating and cooling; Symbio® 800 controller; 130-240 Tons; R-410A



**MiniMod™**  
Water-Cooled; Oil Free Centrifugal, R-134a and R-513A; 60 - 135 Tons (1000 Ton Arrays)



**Cold Generator™ Model CICD**  
Water-cooled; Heat Recovery; 20-80 Ton (600 ton Arrays)

**Modular Chillers**



**Manhattan® Gen II**  
Air-Cooled and Water-cooled Heat Pump; Heat recovery and Free Cooling; 15 - 80 Tons (800 Ton Arrays)



**SuperMod™**  
Air-Cooled and Water-Cooled; 20 - 40 Tons (400 Ton Arrays)



**PolyTherm™**  
Water-Cooled; Simultaneous Heating and Cooling; 30 - 60 Tons (480 Ton Arrays)

**Packaged Units**



**Impact®**  
Cooling, Gas/Electric, Heat Pump & Dual-Fuel; Multiple Efficiency Levels; Up to 16 SEER; 2 - 5 Tons



**Foundation®**  
Cooling, Gas/Electric; Adapts to Competitors Roof Curbs; 3 - 5 Tons; 7.5 - 12.5 Tons



**Precedent® 17 Plus**  
Cooling & Gas/Electric; Up to 17.5 SEER; 3 - 5 Tons



**Precedent® & Precedent® with eFlex™**  
Cooling, Gas/Electric, Heat Pump & Dual-Fuel; Multiple Efficiency Levels ; eFlex Variable Speed Compressor; Up to 23.5 SEER; 3 - 10 Tons



**Voyager® 2 & Voyager 2 with eFlex**  
Cooling, Gas/Electric & Heat Pump; Multiple Efficiency Levels (Up to 20.1 IEER, 12.5 - 25 Tons), eFlex Variable Speed Compressor (12.5 - 17.5 Tons)



**Zoned Rooftop Systems**  
Pre-designed for small building comfort; Includes Precedent or Voyager rooftop unit, VAV terminal units, Tracer® Concierge™ system control & Air-Fi™ wireless controls & sensors; 3 - 25 Tons



**Voyager 3**  
Cooling, Gas/Electric; eStage™ Multi-Stage Compressors; Full & part load efficiencies; Up to 14.7 IEER; 27.5 - 50 Tons



**IntelliPak® I**  
Cooling, Gas/Electric, Hot Water, Steam; 20 - 130 Tons; Available with eFlex Variable Speed Compressor; 40 - 75 Tons



**IntelliPak® II**  
Cooling, Gas/Electric, Hot Water, Steam; Air-Cooled and Evaporative Condenser; Available with eFlex Variable Speed Compressor; Tracer® SC+ controls; VariTrane™ VAV terminals; 90 - 162 Tons;



**IntelliPak® 3**  
Cooling, Gas/Electric, Hot Water, Steam; 20 - 75 Tons; Avail. with eFlex Variable Speed Compressor; Available connectivity; Symbio controller; Up to 17.8 IEER

**Self-Contained Units**



**IntelliPak® Modular Series**  
Split apart construction, easy transport & installation; Factory-installed digital controls; Up to 13.9 EER, 17.9 IEER; Water Cooled 20 - 35 Tons; Remote Air Cooled - 32 Tons



**IntelliPak® Signature Series**  
Up to 14.1 EER, 19.3 IEER; Floor by floor system; Factory-installed digital controls; Air-Cooled 20-60 Tons; Water-cooled 20 - 110 Tons



**Modular Self Contained System**  
Smallest Footprint on the Market; Water-Cooled System; Variable speed compressors and fans; Full and part load efficiencies; Industry-leading Part Load Efficiency - Up to 20.8 IEER; 40 - 80 Tons

**Water-Source Heat Pumps**



**Axiom™ Standard Efficiency GEH/GEV Models**  
Horizontal (0.5 - 15T) or vertical (0.5 - 25T); Quiet operation; Multiple airflow configurations; 0.5 - 25 Tons



**Axiom High Efficiency Single-Stage EXH/EXV Models**  
Horizontal or vertical; Electronically Commuted Motor (ECM); Rotary or scroll compressor; 0.5 - 6 Tons



**Axiom High Efficiency Two-Stage DXH/DXV Models**  
Horizontal or vertical; 2-Stage compressor; Deluxe sound option for quiet operation; Meets LEED EA-c4 requirement; 2 - 6 Tons



**Axiom Variable Speed VSH/VSV Models**  
Horizontal or vertical; eFlex™ Variable Speed compressors and fans; Single and three phase voltage; 2 - 5 Tons.



**Axiom High Efficiency Console GEC Model**  
ASHRAE 62 indoor air quality compliant; Quiet operation; 0.5 - 1.5 Tons



**Axiom Vertical Stack GET Model**  
Multiple capacities & cabinet sizes; Available in PSC or ECM motors; Flexible air supply options; Integrated controls; 0.75 - 3 Tons



**Axiom Water-to-Water EXW Model**  
Co-axial heat exchanger; Rackable modular design; 5, 10, 20 Tons



**Axiom Rooftop GWS Model**  
Boiler/Tower or Geothermal applications; Multiple configuration options; Microprocessor controls; 3 - 20 Tons

**Air Handling Units**



**Performance Climate Changer® - Catalog**  
Indoor or Outdoor; Up to 15000 CFM; 2" R-13 Foam Insulated Panels; Factory-Engineered & Mounted Controls



**Performance Climate Changer® - Semi-custom**  
Indoor or Outdoor; Up to 60000 CFM; (up to +/-10.0 inches w.g.; 2", R-13 or 3", R-19; Foam Insulated Wall panels; Flexible Dimensions



**Trane Custom Models TCFS & TCPA**  
Indoor & Outdoor; 1500 - 200,000 CFM; -12.0 to +12.0 inches w.g.; Thermal Performance with R-Values up to 25

**Terminal Units**



**Compact Vertical Blower Coil Model BCCD**  
Indoor; 800-2000 CFM; ECM Motors, Factory-Engineered & Mounted Controls



**Blower Coil Model BCHD/BCVD**  
Indoor; 400 - 3000 CFM; ECM motors; Factory-Engineered & Mounted Controls



**CoolSense® Terminal Unit**  
Up to 1300 CFM; Variable speed ECM or constant-fan speed; Tracer® UG400 controller (available with Air-Fi wireless)



**VariTrane® Model VC\*F**  
Single Duct Variable Air Volume Boxes; 25 - 8000 CFM



**VariTrane® Model VDDF**  
Dual Duct Variable Air Volume Boxes; 80 - 8000 CFM



**VariTrane® Model V\*\*F**  
Fan-Powered Variable Air Volume Boxes; 200 - 3300 CFM; Parallel or Series Configuration



**VariTrane® Model L\*\*F**  
Low Height Fan-Powered Variable Air Volume Boxes; 100 - 1800 CFM; Parallel or Series Configuration



**VariTrane® Model VRRF**  
Round Inlet/Round Outlet RetroFit Variable Air Volume Boxes; 25 - 4000 CFM



**UniTrane® Model FC\*B**  
Horizontal or Vertical Fan Coil; Cabinet, Recessed or Compact Configurations; 200 - 1200 CFM



**UniTrane® Model FCV**  
Vertical High Rise Fan Coil Units Vertical stack fan coil; 300 - 1200 CFM



**Force-Flo® Model FF\*B**  
Horizontal or Vertical Cabinet Heater; Concealed or Recessed Configurations; 200-1200 CFM



**Model VUVE**  
Vertical Unit Ventilators; 750 - 1500 CFM



**Model HUVH**  
Horizontal Unit Ventilators; 750 - 2000 CFM



**Model UHS/UHP**  
Propeller Unit Heaters; Hydronic & Steam



**Model UHWA/UHAA/UHRA/UHXA/UHEC/UHCA**  
Electric Unit Heaters



**Indoor Gas Heating Units**  
Unit Heaters & Duct Furnaces



### Split Systems

**Split Systems**  
Cooling & Heat Pump; Gas, Electric, or Hot Water Heat; 1.5 - 5 Tons



**Odyssey™ with Symbio®**  
Symbio Connectivity & phone app; Full & part load efficiencies; Up to 13.1 IEER; 6 - 25 Tons



**RAUJ**  
Air-Cooled Condensing Units; Available with Remote Chiller Evaporators; 20 - 120 Tons



**CAUJ**  
Air-Cooled Condensers; 20 - 120 Tons



### Dedicated Outdoor Air

**Horizon® DOAS**  
DX Packaged (Air and Water Cooled)  
• Low Dew Point capability  
• ERV  
• AHRI 920



**Mixed Air Unit**  
• Brings in up to 100% fresh air  
• ASHRAE 90.1 compliance  
• Provides adequate dehumidification at full load conditions  
• Double walled-insulation with insulated base pan



### Make-Up Air Gas Heating Units

**Model GSAA**  
Indoor Gas-Fired Make-Up Air Handlers; Standard & High Efficiency; 100 - 1200 MBH



**Model GRAA**  
Outdoor Gas-Fired Make-Up Air Handlers; 100 - 1200 MBH



**Model AHOA**  
Packaged Air Handlers; Cooling, Make-Up Air, & Ventilation



**VFD**  
Trane TR150/TR200 Variable Frequency Drives; 6, 12, 18 Pulse



### Engineered Systems

**Controls and Equipment**  
• Comprehensive Chilled Water  
• Central Geothermal  
• Thermal Battery® Air-cooled Chiller Plant  
• Thermal Battery® Cooling and Heating  
• Intelligent Variable Air System  
• Zoned Rooftop System  
• Variable Refrigerant Flow  
• CoolSense® Integrated Outdoor System

### Energy Services

We partner with our clients to understand how energy impacts their business and sustainability goals. Leveraging deep expertise and cutting edge technology, we help optimize energy purchasing strategies, energy sourcing, energy storage, consumption, and overall network efficiency with validated results



### IAQ Solutions

Today there are more ways than ever to manage and monitor indoor air quality, while keeping your goals for cost and sustainability in sight. Trane is a leader in indoor air quality. We can help you align with air quality guidelines set by the Centers for Disease Control using innovative technologies and proven solutions



### Trane Building Services

Help reduce operating costs and extend the life of your equipment with planned maintenance from Trane.



### Consulting Engineer Portal

Trane offers expert HVAC systems, solutions, and support for every stage of a building lifecycle, including quick links to design and analysis tools, education and training, BIM and CAD drawings, prepackaged solutions, and energy analysis tools. Visit [www.traneengineer.com](http://www.traneengineer.com)



### Trane Rental Services

Water-Cooled Chillers, Air-Cooled Chillers, Temporary Power, Cooling Towers, Packaged A/C Units, Air Handlers, Portable A/C Units



### Trane Creative Solutions

Customized Trane Equipment Modifications Including: Multizone Replacements, Water-Side Economizer Coils for Air-Cooled Chillers, Packaged Air-Cooled Ice Storage Systems, Acoustical Attenuation



For more information visit [trane.com/commercial](http://trane.com/commercial)



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit [trane.com](http://trane.com) or [tranetechnologies.com](http://tranetechnologies.com).

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## PRODUCT INFORMATION MATRIX

- A matrix breaking out product information on all products, options, accessories such as product type, capacity range, standard warranty information, extended warranty information, estimated lead time/delivery time, etc.

### 1. HVAC Equipment and Products

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
<b>CHILLERS</b>						
<b>Air-cooled chillers</b>	Air-Cooled Scroll Chillers	CGAM	<a href="#">Scroll Chiller Model CGAM (trane.com)</a>	20 to 130 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, Delayed Start-Up Contact Trane Office
<b>Air-cooled chillers</b>	Series R Helical Rotary Chillers	RTAC	<a href="#">Series R® Helical Rotary Chiller Model RTAC (trane.com)</a>	140 to 500 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, Delayed Start-Up Contact Trane Office
<b>Air-cooled chillers</b>	Sintesis Air-Cooled Chillers	RTAF	<a href="#">Sintesis® Air-Cooled Chillers (trane.com)</a>	115 to 520 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up Contact Trane Office
<b>Air-cooled chillers</b>	Ascend Air-Cooled Chillers	ACS	<a href="#">Ascend™ Air-Cooled Chillers Model ACS (trane.com)</a>	140 to 230 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up Contact Trane Office
<b>Air-cooled chillers</b>	Ascend Air-Cooled Chillers with Integrated Free Cooling	ACR	<a href="#">Ascend® ACR Chillers (trane.com)</a>	150 to 550 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up Contact Trane Office
<b>Air-cooled chillers</b>	Air-Cooled Oil-Free Magnetic Bearing Chillers	TACA	<a href="#">Air-Cooled Oil-Free Magnetic Bearing Chillers (trane.com)</a>	60 to 440 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up Contact Trane Office
<b>Air-cooled chillers</b>	Ascend Air-to-Water Heat Pump	ACX	<a href="#">Ascend® ACX Chillers (trane.com)</a>	140 to 230 tons cooling; 1500 to 2500 MBh heating	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up Contact Trane Office
<b>Air-cooled chillers</b>	SuperMod	PACV	<a href="#">SuperMod chiller (trane.com)</a>	10-60 to 960 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up Contact Trane Office
<b>Air-cooled chillers</b>	Manhattan Gen II	TPAC	<a href="#">Manhattan™ Gen II Modular Chillers (trane.com)</a>	15 to 80 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up Contact Trane Office
<b>Water-cooled chillers</b>	Water-Cooled Oil-Free Magnetic Bearing Chillers by Arctic	ARTC	<a href="#">Water-Cooled Oil-Free Magnetic Bearing Chillers by Arctic (trane.com)</a>	60 to 1500 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up Contact Trane Office

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
<b>Water-cooled chillers</b>	Water-Cooled Helical Rotary Chiller	RTUD, RTWD, RTHD <a href="https://www.trane.com/products/water-cooled-helical-rotary-chiller">Water-Cooled Helical Rotary Chiller (trane.com)</a>	80 to 450 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up	Contact Trane Office
<b>Water-cooled chillers</b>	CenTraVac Water-Cooled Chiller	CVHE, CVHF, CVHH, CVHM, CDHG, CDHH, CDHF <a href="https://www.trane.com/products/centra-vac-water-cooled-chiller">CenTraVac Water-Cooled Chiller (trane.com)</a>	120 to 4000+ tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up	Contact Trane Office
<b>Water-cooled chillers</b>	Agility Centrifugal Water-Cooled Chiller	HDWA <a href="https://www.trane.com/products/agility-centrifugal-water-cooled-chillers">Agility® Centrifugal Water-Cooled Chillers (trane.com)</a>	175 to 425 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up	Contact Trane Office
<b>Water-cooled chillers</b>	Thermafit™ MiniMod™	ACW <a href="https://www.trane.com/products/thermafit-mini-mod">Thermafit MiniMod Model TACA</a>	60 to 1000 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up	Contact Trane Office
<b>Water-cooled chillers</b>	SuperMod	PWCV <a href="https://www.trane.com/products/super-mod">SuperMod chiller (trane.com)</a>	10-60 to 960 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up	Contact Trane Office
<b>Water-cooled chillers</b>	PolyTherm	V30-V60 <a href="https://www.trane.com/products/polytherm-modular-chiller">PolyTherm™ modular chiller (trane.com)</a>	30 to 480 tons cooling; 450 to 7,200 Mbh heating	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up	Contact Trane Office
<b>Water-cooled chillers</b>	Manhattan Gen II	TPWC <a href="https://www.trane.com/products/manhattan-gen-ii-modular-chillers">Manhattan™ Gen II Modular Chillers (trane.com)</a>	15 to 80 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up	Contact Trane Office
<b>Compressor chillers</b>	Cold Generator Scroll Chillers	CICD, CGWR, CCAR <a href="https://www.trane.com/products/cold-generator-scroll-chillers">Cold Generator Scroll Chillers (trane.com)</a>	CCID 20 to 85 tons; CGWR/CCAR 20 to 75 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant Delayed Start-Up	Contact Trane Office
<b>UNITARY SYSTEMS THAT COMBINE HEATING, COOLING, AND FAN SECTIONS</b>						
<b>Rooftop systems</b>	Impack - 14 SEER, 15 SEER, 16 SEER	4*CC4, 4* CY4; 4* CY5; 4* CZ6 <a href="https://www.trane.com/products/impack">Impack (trane.com)</a>	2 to 5 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, 2-10 Year Heat Exchanger Delayed Start-Up	Contact Trane Office
<b>Rooftop systems</b>	Foundation®	EBC, GBC <a href="https://www.trane.com/products/foundation">Foundation® (trane.com)</a>	3 to 5 tons; 7.5 to 12.5 tons; 15 to 25 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, 2-10 Year Heat Exchanger Delayed Start-Up	Contact Trane Office
<b>Rooftop systems</b>	Voyager® 2 & 3	T*D, T*H, Y*D, Y*H; TC,TE, YC <a href="https://www.trane.com/products/voyager-rooftop-units">Voyager® Rooftop Units (trane.com)</a>	12.5 to 25 tons; 27.5 to 50 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, 2-10 Year Heat Exchanger Delayed Start-Up	Contact Trane Office

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.	
<b>Rooftop systems</b>	Precedent®	TS*,YS*; TSJ,YSJ; WS*, DS*; TH*, YH*; WH*,DH*; TZ*, YZ*	<a href="https://www.trane.com">Precedent® Rooftop Units (trane.com)</a>	3 to 25 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, 2-10 Year Heat Exchanger Delayed Start-Up	Contact Trane Office
<b>Rooftop systems</b>	IntelliPak®	S*HL, S*HK	<a href="https://www.trane.com">IntelliPak (trane.com)</a>	20 to 162 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, 2-10 Year Heat Exchanger Delayed Start-Up	Contact Trane Office
<b>Split systems</b>	Smaller Split Systems	4TTA3, 4TTA4, 4TTA7, 4TTL6, 4TTR3, 4TTR4, 4TTR6, 4TTR7; 4YWA4, 4TWA7, 4TWL6, 4TWR5, 4TWR6, 4TWR4, 4TWR7; GAF2, GAM5, TAM6, EM4, TEM6	<a href="https://www.trane.com">Split System Air Conditioners and Heat Pumps (trane.com)</a>	1.5 to 5 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, Delayed Start-Up	Contact Trane Office
<b>Split systems</b>	Gas Furnaces and coils	S8X1, S8X2, S9V2-PS, S9V2-VS, S9X1, S9X2, TDD2-9B, TUD2-9B, 4PXA-U, 4PXC-U/D, 4TXC-DS, 4TXF	<a href="https://www.trane.com">Gas Furnaces and Indoor Coils (trane.com)</a>	1.5 to 5 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, Delayed Start-Up	Contact Trane Office
<b>Split systems</b>	Odyssey™	TTA, TWA, TWE	<a href="https://www.trane.com">Odyssey™ Split Systems with Symbio Controls (trane.com)</a>	6 to 25 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, Delayed Start-Up	Contact Trane Office
<b>Split systems</b>	Large Split Systems	RAUJ, CAUJ	<a href="https://www.trane.com">Large Commercial Condensers (RAUJ CAUJ) (trane.com)</a>	20 to 120 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, Delayed Start-Up	Contact Trane Office
<b>Self-contained systems</b>	Intellipak® Modular Series	SCW/R; SIW/R	<a href="https://www.trane.com">Intellipak® Modular Series (trane.com)</a>	20 to 35 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, 2-10 Year Heat Exchanger Delayed Start-Up	Contact Trane Office
<b>Self-contained systems</b>	Modular Self Contained™	SCWM	<a href="https://www.trane.com">Modular 40 to 80 Tons (trane.com)</a>	40 to 80 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, 2-10 Year Heat Exchanger Delayed Start-Up	Contact Trane Office
<b>Self-contained systems</b>	IntelliPak™ Signature Series	SC/I - W/R	<a href="https://www.trane.com">Signature 20 to 110 Tons (trane.com)</a>	20 to 110 tons WC, 25 to 60 tons AC	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, 2-10 Year Heat Exchanger Delayed Start-Up	Contact Trane Office

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.	
<b>Water source heat pumps</b>	Axiom™ High-Efficiency Console WSHP	GEC	<a href="#">Console WSHP (trane.com)</a>	.5 to 1.5 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, Delayed Start-Up	Contact Trane Office
<b>Water source heat pumps</b>	Axiom™ Horizontal and Vertical WSHP	EXHV/DXHV; VSHV; GEHV	<a href="#">Axiom™ Horizontal and Vertical Water Source Heat Pumps (trane.com)</a>	.5 to 25 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, Delayed Start-Up	Contact Trane Office
<b>Water source heat pumps</b>	Trane® Axiom™ Rooftop WSHP	GWS	<a href="#">Rooftop WSHP (trane.com)</a>	3 to 20 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, Delayed Start-Up	Contact Trane Office
<b>Water source heat pumps</b>	Axiom™ Vertical Stack WSHP	GET	<a href="#">Axiom™ Vertical Stack Water Source Heat Pump (trane.com)</a>	.75 to 3 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, Delayed Start-Up	Contact Trane Office
<b>Water source heat pumps</b>	Trane® Axiom™ Water-to-Water WSHP	EXW	<a href="#">Axiom Water-to-Water WSHP (trane.com)</a>	5, 10 & 20 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-5 Year Refrigerant, Delayed Start-Up	Contact Trane Office
<b>AIR HANDLING SYSTEMS</b>							
<b>Performance Air Handlers</b>	Catalog Air Handlers	UCCA	<a href="#">Catalog Air Handlers   Industrial HVAC Heating and Cooling (trane.com)</a>	3 thru 30	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor Start-up	Delayed Start-up Contact Trane Office
<b>Performance Air Handlers</b>	Semi-Custom Air Handlers	CSAA	<a href="#">Semi-Custom Air Handlers   HVAC Air Conditioning Units and Systems (trane.com)</a>	3 thru 120	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor Start-up	Delayed Start-up Contact Trane Office
<b>Performance Air Handlers</b>	Custom Air Handlers	CSAA, PSCA, TCFS, TCPA	<a href="#">Custom Air Handlers   Industrial HVAC Cooling and Heating Systems (trane.com)</a>	10,000 to 200,000+ CFM	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor Start-up	Delayed Start-up Contact Trane Office
<b>Blower coil air handlers</b>	Blower Coil Air Handlers	BCHD, BCVD, BCCD	<a href="#">Blower Coil Air Handlers   Terminal Devices, Blower Coils, Unit Heaters (trane.com)</a>	400 to 3000 CFM	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor Start-up	Delayed Start-up Contact Trane Office
<b>Make-up air gas heating systems</b>	Indirect Fired Make-Up Air	GGAA/GZAA	<a href="#">Indirect Fired Make-Up Air Gas Heating System (trane.com)</a>	100 to 1,200 Mbh	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-10 Year Heat Exchanger	Delayed Start-up Contact Trane Office
<b>Air handler options</b>	Motorized Impeller Fan Array	MI	<a href="#">Motorized Impeller Fan Array (trane.com)</a>	Up to 15 Fans	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>Air handler options</b>	Sensible Assisted Membrane	SAM	<a href="#">Sensible Assisted Membrane (trane.com)</a>	Customized Airflow	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>Air cleaning options (IAQ)</b>	Trane Catalytic Air Cleaning System	TCATS	<a href="#">Trane Catalytic Air Cleaning System</a>	3 thru 120	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office

Product Type		Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
<b>Air cleaning options (IAQ)</b>	CDQ® Desiccant Dehumidification	CDQ	<a href="#">CDQ® Desiccant Dehumidification (trane.com)</a>	3 thru 120	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>TERMINAL DEVICES</b>							
<b>Unit heaters</b>	High Efficiency Gas Heaters	HI-050 to 400	<a href="#">High Efficiency Gas Heaters (trane.com)</a>	50 to 400 Mbh	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-10 Year Heat Exchanger, Delayed Startup	Contact Trane Office
<b>Unit heaters</b>	S & P Unit Heaters	UHSB, UHPB	<a href="#">S&amp;P Unit Heaters (trane.com)</a>	8 to 705.6 Mbh	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>Unit heaters</b>	Electric Unit Heaters	UHEC, UHXA, UHRA, UHWA, UHAA	<a href="#">Electric Unit Heaters (trane.com)</a>	2 TO 100 Kw	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>Unit heaters</b>	Gas Unit Heaters	GRAA, GFAA, GSAA	<a href="#">Gas Unit Heaters (trane.com)</a>	100 to 400 MBh	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-10 Year Heat Exchanger, Delayed Startup	Contact Trane Office
<b>Unit heaters</b>	Gas Unit Heaters	GT, GH, GA, GB, GK	<a href="#">Gas Unit Heaters (trane.com)</a>	30 to 400 MBh	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-10 Year Heat Exchanger, Delayed Startup	Contact Trane Office
<b>Unit heaters</b>	Gas Unit Heaters	GLNE, GMNE, GNNE, GTNE, GUNE, GVNE	<a href="#">Gas Unit Heaters (trane.com)</a>	30 to 400 MBh	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-10 Year Heat Exchanger, Delayed Startup	Contact Trane Office
<b>Unit heaters</b>	Gas Unit Heaters	GGAA	<a href="#">Gas Unit Heaters (trane.com)</a>	100 to 800 MBh	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-10 Year Heat Exchanger, Delayed Startup	Contact Trane Office
<b>Unit heaters</b>	Gas Unit Heaters	AHAA/AHBA	<a href="#">Gas Unit Heaters (trane.com)</a>	1500 to 14,000 CFM	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, 2-10 Year Heat Exchanger, Delayed Startup	Contact Trane Office
<b>Unit ventilators</b>	Classroom Unit Ventilators	HUVC, VUVC	<a href="#">Classroom Unit Ventilators (trane.com)</a>	750 to 2000 CFM - Horz. 750 to 1500 CFM Vert.	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>Fan coil units</b>	UniTrane® Fan Coil	FCAB, FCBB, FCCB, FCDB, FCEB, FCHB, FCJB, FCPB	<a href="#">UniTrane® Fan Coil</a>	200 to 1200 CFM	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>Fan coil units</b>	Vertical High Rise Fan Coil	FCVA	<a href="#">Vertical High Rise Fan Coil (trane.com)</a>	300 to 1200 CFM	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>Fan coil units</b>	Sensible Cooling Terminal Units	LDCF, LDEF, LDWF	<a href="#">Sensible-Cooling Terminal Devices   Terminal Device Solutions (trane.com)</a>	4" to 8" Primary	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
<b>Variable air volume</b>	<a href="#">VariTrane® Round In Round Out</a>	VRRF	<a href="#">VariTrane® Round In Round Out</a>	0 to 4000 CFM	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup Contact Trane Office
<b>Variable air volume</b>	VariTrane® Single Duct Terminal Units	VCC, VCW, VCE, VDD	<a href="#">VariTrane® Single Duct Terminal Units</a>	0 to 8000 CFM	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup Contact Trane Office
<b>Variable air volume</b>	VariTrane® Dual Duct Terminal Units	VCC, VCW, VCE, VDD	<a href="#">VariTrane® Dual Duct Terminal Units</a>	0 to 4000 CFM	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup Contact Trane Office
<b>Variable air volume</b>	VariTrane® Fan Powered Terminal Units	VPCF, VPWF, VPEF, VSCF, VSWF, VSEF	<a href="#">VariTrane® Fan-Powered Terminal Units</a>	0 to 3000 CFM	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup Contact Trane Office
<b>Variable air volume</b>	VariTrane® Low-Height Fan-Powered Terminal Units	LPCF, LPWF, LPEF, LSCF, LSWF, LSEF	<a href="#">VariTrane® Low-Height Fan-Powered Terminal Units</a>	0 to 1950 CFM	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup Contact Trane Office
<b>DUCTLESS VARIABLE REFRIGERANT VOLUME UNITS</b>						
<b>Variable Refrigerant Flow</b>	N-Generation CITY MULTI® VRF					
<b>Variable Refrigerant Flow</b>	R2 Series	R2	<a href="#">N-Generation CITY MULTI® VRF (trane.com)</a>	72 to 336MBh	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup Contact Trane Office
<b>Variable Refrigerant Flow</b>	Y Series	Y	<a href="#">N-Generation CITY MULTI® VRF (trane.com)</a>	72 to 432 MBh	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup Contact Trane Office
<b>Variable Refrigerant Flow</b>	S Series	S	<a href="#">N-Generation CITY MULTI® VRF (trane.com)</a>	36 to 48 MBh	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup Contact Trane Office
<b>Variable Refrigerant Flow</b>	Indoor Units	TPLFYP, TPMFYP, TPCFYP, TPKFYP, TPWFYP, TPEFYP, TPVFYP, TPFFYP	<a href="#">N-Generation CITY MULTI® VRF (trane.com)</a>		12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup Contact Trane Office
<b>Variable Refrigerant Flow</b>	Horizon DOAS	OAB, OAD, OAG, OAK, OAN	<a href="#">N-Generation CITY MULTI® VRF (trane.com)</a>	3 to 80 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup Contact Trane Office
<b>Variable Refrigerant Flow</b>	P Series	PUY, PUZ	<a href="#">P Series (trane.com)</a>	12 to 42 MBh	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup Contact Trane Office
<b>Variable Refrigerant Flow</b>	Nv Series	NTYS, NTYM, NTXS, NTSM	<a href="#">Nv Series (trane.com)</a>	6 to 60 MBh	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup Contact Trane Office

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
<b>DEDICATED OUTDOOR AIR SYSTEMS</b>						
<b>Dedicated outdoor air solutions</b>	Trane® Horizon™ Outdoor Air Units	OAB, OAD, OAG, OAK, OAN <a href="#">Horizon® Air and Water Source Heat Pumps (trane.com)</a>	3 to 54 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>Dedicated outdoor air solutions</b>	Horizon™ Dedicated Outdoor Air Systems	OABD, OABE, OADD, OADE, OAGD, OAGE, OAKD, OAKE, OAND, OANE <a href="#">Horizon® Dedicated Outdoor Air Systems (trane.com)</a>	3 to 30 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>Dedicated outdoor air solutions</b>	Mixed Air Unit	HAEA <a href="#">Mixed Air Unit (trane.com)</a>	10 to 15 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>REPLACEMENT COILS</b>						
<b>Chilled and Hot Water Coils, Steam, DX</b>	Air Heating and Cooling Coils	3W, 3U, W, WL, WP, UW, UP, 5W, WD, LL, UU, 5D, D1, D2, K, P2, P4, P8, UA, TT, T, ST, NS, N, 3F, UF, H4, FD, H3, F3 <a href="#">Air Heating and Cooling Coils (trane.com)</a>	2 to 12 Rows	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>AUTOMATION EQUIPMENT</b>						
<b>Controls &amp; Building Automation Systems (BAS)</b>	Tracer® Ensemble	<a href="#">Tracer Ensemble Enterprise Building Management Systems (trane.com)</a>		12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>Controls and BAS</b>	Tracer® SC+	<a href="#">Tracer® SC+ (trane.com)</a>		12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>Controls and BAS</b>	Lighting Control Solutions	<a href="#">Lighting Solutions (trane.com)</a>		12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>Controls and BAS</b>	Air-Fi® Wireless Communications	<a href="#">Air-Fi® Wireless Communications (trane.com)</a>		12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>Controls and BAS</b>	Pivot® Smart Thermostat System	<a href="#">Pivot® Smart Thermostat System (trane.com)</a>		12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
<b>Controls and BAS</b>	Sensors - CO <sub>2</sub> , Temperature, and Combination Temperature and Humidity	<a href="#">Sensors (trane.com)</a>		12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>Controls and BAS</b>	Power and Energy Meters	<a href="#">Power and Energy Meters (trane.com)</a>		12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Startup	Contact Trane Office
<b>PARTS AND AFTERMARKET PRODUCT</b>						
	Trane® OEM Parts	<a href="#">Trane® OEM Parts   Trane Supply</a>				Contact Trane Office
	Chemicals for HVAC Professionals	<a href="#">Chemicals   HVAC Parts &amp; Supplies   Trane Supply</a>				Contact Trane Office
	Airflow and Motors	<a href="#">Motors, Air Flow and Drives   HVAC Parts &amp; Supplies   Trane Supply</a>				Contact Trane Office
	Equipment	<a href="#">HVAC Equipment   HVAC Parts &amp; Supplies   Trane Supply</a>				Contact Trane Office
	Indoor Air Quality and Filters	<a href="#">Indoor Air Quality   HVAC Parts &amp; Supplies   Trane Supply</a>				Contact Trane Office
	Controls and Electrical for HVAC Professionals	<a href="#">Controls and Electrical   HVAC Parts &amp; Supplies   Trane Supply</a>				Contact Trane Office
	Compressors & Valves for HVAC Professionals	<a href="#">Compressors &amp; Valves   HVAC Parts &amp; Supplies   Trane Supply</a>				Contact Trane Office
	Installation Supplies, Tools and Test Instruments for HVAC Professionals	<a href="#">Installation &amp; Testing Tools   HVAC Parts &amp; Supplies   Trane Supply</a>				Contact Trane Office
	Refrigerant Handling for HVAC Professionals	<a href="#">Refrigerant Handling   HVAC Parts &amp; Supplies   Trane Supply</a>				Contact Trane Office
	General Products for HVAC Professionals	<a href="#">General HVAC Parts   HVAC Parts &amp; Supplies   Trane Supply</a>				Contact Trane Office

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.	
<b>OTHER HVAC PRODUCTS</b>							
<b>Energy Storage</b>	Calmac Thermal Storage Systems	Model C & A	<a href="#">Thermal Energy Storage Solutions (trane.com)</a>	C - 41 to 486 Ton-Hours, A - 41 to 162 Ton-Hours	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Start-Up	Contact Trane Office
<b>Precision Cooling</b>	Computer Room Air Conditioners (CRAC) Direct Expansion (DX)	CRAH, CRAC	<a href="#">Computer Room Air Conditioners (CRAC) Direct Expansion (DX) (trane.com)</a>	6 thru 30 tons	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Start-Up	Contact Trane Office
<b>Frequency Drives</b>	TR200 Series	TR	<a href="#">TR200 Series (trane.com)</a>	1.5 to 1350 HP	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Start-Up	Contact Trane Office
<b>Pumps</b>	TACO Pumping Solutions (Example)	TACO	<a href="#">Taco Comfort Solutions   Leader in Hydronics and Pump Solutions</a>	Custom Sizes			
<b>Pumps</b>	PACO Pumping Solutions (Example)	PACO	<a href="#">PACO Pumps   FUSION PUMP</a>	Custom Sizes			
<b>Cooling Towers</b>	Baltimore Air Coil (Example)	BAC	<a href="#">Global   Baltimore Aircoil</a>	Custom Sizes			
<b>Cooling Towers</b>	SPX (Example)	SPX	<a href="#">Cooling Towers - SPX Cooling Towers</a>	Custom Sizes			
<b>Cooling Towers</b>	Other manufactures available						
<b>Heat Exchangers</b>	Alfa Laval (Example)	AL	<a href="#">Gasketed plate-and-frame heat exchangers   Alfa Laval</a>	Custom Sizes			
<b>Heat Exchangers</b>	Other manufacturers available						
<b>Packaged Chiller Plants</b>	TAS Packaged Chilling Products	TAS	<a href="#">Modular Products &amp; Solutions   (tas.com)</a>	Custom Sizes	12 mo from start up, or 18 mo from shipment	Contact Trane Office	Contact Trane Office
<b>Multistack Module Chiller Systems</b>	Modular Air Cooled	ASF,ASP,ARP	<a href="#">Modular Solutions Air-Cooled - Multistack</a>	Custom Sizes	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Start-Up	Contact Trane Office
<b>Multistack Module Chiller Systems</b>	Modular Water Cooled	MSD,MSH,MSR,MSS	<a href="#">Modular Solutions Water-Cooled - Multistack</a>	Custom Sizes	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Start-Up	Contact Trane Office

Product Type		Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
<b>Multistack Module Chiller Systems</b>	Packaged Solutions	ASC,ASM,HSS,ACF	<a href="#">Packaged Solutions - Multistack</a>	Custom Sizes	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Start-Up	Contact Trane Office
<b>Multistack Module Chiller Systems</b>	Maglev Solutions	ACF,MSF,MSH	<a href="#">MagLev Solutions - Multistack</a>	Custom Sizes	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Start-Up	Contact Trane Office
<b>Multistack Module Chiller Systems</b>	Heating Solutions	ARA,VME	<a href="#">Heating Solutions - Multistack</a>	Custom Sizes	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Start-Up	Contact Trane Office
<b>Multistack Module Chiller Systems</b>	Multipro	MP	<a href="#">MultiPRO - Multistack</a>	Custom Sizes	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Start-Up	Contact Trane Office
<b>Multistack Module Chiller Systems</b>	Auragreen	AG	<a href="#">AuraGreen - Multistack</a>	Custom Sizes	12 mo from start up, or 18 mo from shipment	2-5 Year Parts and Labor, Delayed Start-Up	Contact Trane Office
<b>Heat Recovery Systems</b>	Energy Recovery Systems (Example)	AE	<a href="#">Energy Recovery Wheels   HVAC Systems   Airxchange</a>	Custom Sizes			
<b>Energy Recovery Ventilator</b>	RenewAire Energy Recovery Systems (Example)	SL-75	<a href="#">RenewAire Energy Recovery Ventilation - ERVs</a>	Custom Sizes			
<b>Boilers &amp; Hot Water Heaters</b>	Lochinvar Boiler Systems (Example)	CREST	<a href="#">CREST with Hellcat™ Combustion Technology   Lochinvar</a>	Custom Sizes			
<b>Process Coolers</b>	Filtrine (Example)	PCP,POC,PC	<a href="#">Chiller Systems   Industrial Chiller Manufacturer   Filtrine</a>	Custom Sizes			
<b>Tempspec Unit Ventilators</b>	Classroom Air Conditioners	VUD,VUF,VDT	<a href="#">Standard Unit Ventilators - Tempspec</a>	800 - 2000 CFM	12 mo from start up, or 18 mo from shipment	Contact Trane Office	
<b>Tempspec Unit Ventilators</b>	Vertical Stacked Fan Coil Units	TL,TF,TR	<a href="#">Vertical Stacked Fan Coil Units - Tempspec</a>	300 - 1200 CFM	12 mo from start up, or 18 mo from shipment	Contact Trane Office	
<b>Tempspec Unit Ventilators</b>	Filtration	Air Medic	<a href="#">Filtration - Tempspec</a>	Custom	12 mo from start up, or 18 mo from shipment	Contact Trane Office	
<b>Solar Collector Systems</b>	Solar Photovoltaics (Example)	PV	<a href="#">Home Solar plus Storage Solutions   SunPower</a>	Custom			

Product Type		Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
<b>Solar Collector Systems</b>	Solar Thermal (Example)	ST	<a href="#">Solar Thermal Heating Systems (Commercial &amp; Residential)</a> <a href="#">Solar Water Heater Installers in CT (sun-windsolutions.com)</a>	Custom			
<b>Water Treatment</b>	Pump replacement, reservoir upgrades/repairs, UV system repair/upgrade/replacement, chemical use evaluation/upgrade, conveyance system upgrades/replacements, pump station upgrades/replacements including pumps, SCADA, etc. water meter replacement and infrastructure improvements		<a href="#">Lakota-Wastewater-Treatment-Plant (trane.com)</a>				
<b>KCC Products</b>	MSP Technology	MSP	<a href="#">HOME   KCCCompanies</a>	Custom Sizes	12 mo from start up, or 18 mo from shipment	Contact Trane Office	
<b>KCC Products</b>	Heat Exchangers	DU/DV	<a href="#">HOME   KCCCompanies</a>	Custom Sizes	12 mo from start up, or 18 mo from shipment	Contact Trane Office	
<b>KCC Products</b>	Dehumidifiers	DU/DV	<a href="#">HOME   KCCCompanies</a>	Custom Sizes	12 mo from start up, or 18 mo from shipment	Contact Trane Office	

## 2. Installation and Services

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
<b>INSTALLATION AND SERVICES</b>						
<b>Installation of new equipment</b>	Startup and commissioning services					
<b>Maintenance of existing systems</b>	Service and maintenance					
<b>Upgrading of existing infrastructure</b>	Wastewater Treatment Plant design build services					
	Pump replacements, blower replacements, SCADA upgrades, clarifier overhaul and/or replacement, digester improvements or replacements, thickening system improvements or replacements/dewatering systems, process improvements/changes, aeration system improvements or replacements, piping, alternative energy including turbines, cogeneration, solar, heat recovery, membrane replacement/new installation, pump stations refurbish or build new, force main or gravity main replacement/installation, UC system installation/replacement, chemical use evaluation and amendments, VFD installation/replacement, all design build contracting services.		<a href="https://www.trane.com">Lakota-Wastewater-Treatment-Plant (trane.com)</a>			
<b>Turnkey services</b>	Solar photovoltaic					

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
<b>Turnkey services</b>	Wind turbines					
<b>Turnkey services</b>	Thermal heating systems					
<b>Turnkey services</b>	Alternative energy HVAC					
<b>Turnkey services</b>	Geothermal heat pumps					
<b>Turnkey services</b>	Lighting technology					
<b>Turnkey services</b>	Pumping systems					
<b>Turnkey services</b>	Microgrid					
<b>Turnkey services</b>	Energy storage					
<b>Turnkey services</b>	Solar daylighting					
<b>Turnkey services</b>	Biomass plants					
<b>Turnkey services</b>	Solar thermal domestic water heating					
<b>Turnkey services</b>	Solar transpired wells					
<b>Installation and services</b>	Retrofit, new construction, energy retrofit, controls new- and upgrade and other	<a href="https://trane.com">Energy Conservation Measures (trane.com)</a>				
<b>Installation and services</b>	Warranty Services - Extended parts & labor (define maximum number of years available), delayed start-up and other					
<b>Installation and services</b>	Professional Services -Engineering, Design, Drafting, Architectural, Project Management and other					

### 3. Related Products, Solutions, and Other Services

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
<b>HVAC EQUIPMENT CONTROLS</b>						
<b>Equipment controllers</b>	Symbio Equipment Controllers	<a href="https://trane.com/symbio">Symbio (trane.com)</a>	N/A			
<b>ANCILLARY SERVICES</b>						
<b>Wellsphere</b>	Wellsphere™ addresses the four elements of indoor environmental quality	<a href="https://trane.com/wellsphere">Wellsphere™ (trane.com)</a>	N/A			
<b>Wellsphere</b>	Air Quality	<a href="https://trane.com/element-of-air">Element of Air (trane.com)</a>	N/A			
<b>Wellsphere</b>	Thermal Comfort	<a href="https://trane.com/element-of-thermal">Element of Thermal (trane.com)</a>	N/A			
<b>Wellsphere</b>	Lighting	<a href="https://trane.com/element-of-lighting">Element of Lighting (trane.com)</a>	N/A			
<b>Wellsphere</b>	Acoustics	<a href="https://trane.com/element-of-acoustics">Element of Acoustics (trane.com)</a>	N/A			
<b>Wellsphere</b>	Assessment	<a href="https://trane.com/assess">Assess (trane.com)</a>	N/A			
<b>ENERGY PROGRAMS</b>						
<b>Energy &amp; Sustainability</b>	Energy Analysis & Monitoring	<a href="https://trane.com/energy-analysis-monitoring">Energy Analysis &amp; Monitoring (trane.com)</a>				
<b>Energy &amp; Sustainability</b>	Active Energy Management	<a href="https://trane.com/active-energy-management">Active Energy Management (trane.com)</a>				
<b>Energy &amp; Sustainability</b>	Renewable Energy & DERs	<a href="https://trane.com/renewable-energy-ders">Renewable Energy &amp; Distributed Energy Resources (trane.com)</a>				
<b>Energy &amp; Sustainability</b>	Energy Conservation Measures	<a href="https://trane.com/energy-conservation-measures">Energy Conservation Measures (trane.com)</a>				
<b>Energy &amp; Sustainability</b>	Financing & Energy Services Contracting	<a href="https://trane.com/financing-energy-services-contracting">Financing &amp; Energy Services Contracting (trane.com)</a>				
<b>Energy &amp; Sustainability</b>	Digital Services	<a href="https://trane.com/digital-services">Digital Services (trane.com)</a>				

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
<b>Operate, Maintain &amp; Repair</b>	Connectivity & Cloud Services	<a href="https://trane.com">Connectivity &amp; Cloud Services (trane.com)</a>				
<b>Operate, Maintain &amp; Repair</b>	HVAC System Management	<a href="https://trane.com">HVAC System Management (trane.com)</a>				
<b>Operate, Maintain &amp; Repair</b>	HVAC System Repair	<a href="https://trane.com">HVAC System Repair (trane.com)</a>				
<b>DESIGN AND ANALYSIS TOOLS</b>						
<b>Design Tools and Software</b>	Design and Analysis Tools	<a href="https://trane.com">Design Tools (trane.com)</a>	N/A			
<b>Design Tools and Software</b>	TRACE® 3D Plus Load Design	<a href="https://trane.com">TRACE® 3D Plus Load Design (trane.com)</a>	N/A			
<b>Design Tools and Software</b>	Trane® Design Assist™	<a href="https://trane.com">Trane® Design Assist™</a>	N/A			
<b>Design Tools and Software</b>	myPLV®	<a href="https://trane.com">myPLV Design Tool (trane.com)</a>	N/A			
<b>Design Tools and Software</b>	VariTrane Duct Designer	<a href="https://trane.com">VariTrane Duct Designer</a>	N/A			
<b>Design Tools and Software</b>	Trane Pipe Designer	<a href="https://trane.com">Trane Pipe Designer</a>	N/A			
<b>Design Tools and Software</b>	Trane Acoustics Program	<a href="https://trane.com">Trane Acoustics Program</a>	N/A			
<b>Design Tools and Software</b>	Trane Engineer's Toolbox	<a href="https://trane.com">Trane Engineer's Toolbox</a>	N/A			
<b>Design Tools and Software</b>	TRACE 700	<a href="https://trane.com">TRACE 700 (trane.com)</a>	N/A			
<b>Design Tools and Software</b>	Calculators & Charts	<a href="https://trane.com">Calculators &amp; Charts (trane.com)</a>	N/A			

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
<b>RENTAL AND LEASE SERVICES</b>						
<b>Rental and lease services</b>	Trane HVAC Rentals	<a href="#">HVAC Equipment Rentals (trane.com)</a>				
<b>FINANCIAL SERVICES</b>						
	Financing & Energy Services Contracting	<a href="#">Financing &amp; Energy Services Contracting (trane.com)</a>				
	OMNIA Partners	<a href="#">OMNIA Partners (trane.com)</a>				
	Anticipation Discount Program	<a href="#">Anticipation Discount Program (trane.com)</a>				
	Energy Savings Contracting	<a href="#">Energy Savings Contracting (trane.com)</a>				
<b>TRAINING AND/OR EDUCATIONAL SERVICES</b>						
	Trane HVAC Education & Training	<a href="#">Education &amp; Training (trane.com)</a>				
	Trane University	<a href="#">Trane University</a>				
	Trane Education Center	<a href="#">TRANE Education Center - Browse Catalog (tranetechnologies.com)</a>				
	Engineers Newsletters & Engineers Newsletters Live!	<a href="#">Engineers Newsletters (trane.com)</a>				
<b>MUNICIPAL SERVICES</b>						
	Building Systems Upgrades	<a href="#">Building Systems (trane.com)</a>				
	HVAC System Retrofits	<a href="#">HVAC System Retrofits (trane.com)</a>				
	Existing HVAC Equipment Upgrades	<a href="#">HVAC Equipment Upgrades (trane.com)</a>				

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
New building construction/ replacement including civil/earthwork, tankage, landscape along with energy conservation/LEED services						
Indoor Air Quality, Acoustics, Lighting		<a href="https://www.trane.com/wellsphere">Wellsphere™ (trane.com)</a>				
Window replacement						
Building Envelope						
Solar		<a href="https://www.trane.com/renewable-energy">Renewable Energy &amp; Distributed Energy Resources (trane.com)</a>				
Roof repair/replacement						
Streetlights						
Parking Lot Lights						
Pump Station /Lift station design build services						
Generator replacement/upgrade						
Vehicle retrofit for sustainable fuel/biofuel, electric, etc.						
Charging station installation						
Smart Cities - traffic signals, photo radar, photo streetlights, 5G		<a href="https://www.trane.com/local-government">Local Government (trane.com)</a>				
Energy Conservation (Mechanical, Electrical, Utility, Civil, Structural and Architectural)		<a href="https://www.trane.com/energy-conservation">Energy Conservation Measures (trane.com)</a>				
<b>Engineer &amp; Contractor Support</b>	Supporting Engineers who are designing the future	<a href="https://www.trane.com/consulting-engineer">Consulting Engineer (trane.com)</a>				

Product Type	Trane Model	Link to Trane Website	Capacity Range	Standard Warranty Information	Extended Warranty Information	Est. Lead Time / Delivery Time, etc.
<b>Engineer &amp; Contractor Support</b>	Trane Contractor Solutions	<a href="#">Contractor (trane.com)</a>				
<b>Engineer &amp; Contractor Support</b>	Customer Direct Service	<a href="#">CDS Support Home (custhelp.com)</a>				
<b>Engineer &amp; Contractor Support</b>	BIM and Selection Tools	<a href="#">BIM and Selection Tools (trane.com)</a>				
<b>Engineer &amp; Contractor Support</b>	Civil Engineering					
<b>Engineer &amp; Contractor Support</b>	Structural Engineering					

## TECHNICAL INFORMATION

- All necessary technical information relating to operation of equipment and systems, along with list of spare parts recommended by manufacturers with part numbers needed to maintain and efficiently run the systems and equipment.

All necessary technical information relating to the operation of equipment and systems, along with a list of spare parts recommended by manufacturers with part numbers to maintain and efficiently run the systems and equipment **are furnished by product type per job**. We do not furnish parts lists anymore as it is now maintained electronically. In order to save valuable time and paper resources, we have chosen to provide a sample of how we provide this information to our customers. Additional information is provided via link in the Product Information Matrix.

### d. Record Keeping and Processing System

- d. Describe Bidder's record keeping and processing system for work performed.

#### ONLINE ACCESS TO RECORDS

- Bidder's ability to provide online access to records.

Trane's ComfortSite requires a login and password (provided to a customer by a local Trane Parts location) and provides free access to technical tools and information, literature, parts identification tools, online ordering and online warranty and credit request entry. Our parts identification tool has search options for model, serial, part, vendor part, description and more. Information returned includes parts lists, graphics, where used information, supersede information, literature, warranty information and sales order information. Literature and graphics can easily be printed or emailed, and parts lists exported to Excel. Customer pricing and availability is also in the tool, and items can be added to the cart with one click. Orders submitted online flow to the local Parts location for fulfillment. In addition to these options, ComfortSite also allows Owners the ability to manage local parts inventory, equipment replacement plans and schedule services.

#### EXPEDITING DELIVERY OF PRODUCT

- State any options for expediting delivery of product.

Trane's product order entry system, TOPPS, provides the ability of both emergency and rush orders. This system is unique in that it allows the flexibility of integrating the ERO (rush) orders into the standard order system without disruptions or excessive costs.

**Operational Excellence** (OpEx) is part of our Path to Premier Performance. It is a philosophy and collection of tools to drive out waste from our processes. While many aspects of Lean Manufacturing are involved in OpEx, the skillset also includes Six Sigma and other tools needed to solve both simple and complex problems that keep us from delivering premier performance to our customers, our shareholders, and our employees.

**Quick Ship Option** Trane Quick Ship option provides shorter delivery leads for time critical jobs such as replacement or "fast-track" jobs with tight construction cycles.

Ever had the need to have cooling equipment available in a quick time frame, either for a specific fast-track project, replacement, retrofit job or emergency breakdown? Trane has an extensive stock of air-

cooled **Packed Stock Product** and water- cooled chillers, rooftops, ducted split systems to suit your needs for immediate delivery. Each factory carries stocked product that is available to ship within 24 hours. Stock is limited to common options, sizes, and configurations.

## **BACKORDER POLICY**

- State backorder policy. Does Bidder fill or kill order and require Participating Public Agency to reorder if item is backordered?

Trane strives to provide on-time delivery for all orders placed. Occasionally the Company is unable to immediately fill an order. In these instances, the back- ordered items or materials are automatically scheduled and delivered once the fill- rate is complete. In most instances, the Participating Public Agency would not be required to re-order items and would automatically receive the items when available.

## **RESTOCKING PROCEDURES FOR RETURNS**

- State restocking procedures for returning products, if applicable.

Returns must have prior written approval by Company and are subject to restocking charge where applicable.

## **SPECIAL PROGRAMS**

- Describe any special programs offered that will improve customers' ability to access Products and Services, on-time delivery, or other innovative strategies.

### *Comfortsite*

ComfortSite requires a login and password (provided to a customer by a local Trane Parts location) and provides free access to technical tools and information, literature, parts identification tools, online ordering and online warranty and credit request entry. Our parts identification tool has search options for model, serial, part, vendor part, description and more. Information returned includes parts lists, graphics, where used information, supersede information, literature, warranty information and sales order information. Literature and graphics can easily be printed or emailed, and parts lists exported to Excel. Customer pricing and availability is also in the tool, and items can be added to the cart with one click. Orders submitted online flow to the local Parts location for fulfillment. In addition to these options, Comfortsite also allows Owners the ability to manage local parts inventory, equipment replacement plans and schedule services.

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## TRANE'S CAPACITY TO BROADEN CONTRACT SCOPE

- Describe the capacity of Bidder to broaden the scope of the contract and keep the product and service offerings current and ensure the latest products, standards and technology for HVAC Products, Installation, Labor Based Solutions, and Related Products and Services.

Whenever a new product offering or service becomes available to the field, Trane will provide documentation for inclusion onto the HVAC Equipment and Services contract. This submission would include such information as suggested price discounting, market analysis, expected market penetration, related marketing materials for various vertical areas and technologies included. Once added to the contract, Trane would market the additions through internal eNewsletters, webinars, local seminars, and direct contact.

## TRANE'S SAFETY POLICY

- Describe your Bidder's safety policy and/or program, including how the policy is communicated to employees, whether the employees are evaluated on safety, and if any employees are dedicated to safety.

**Safety Program and OSHA Practices** Trane's incident (OSHA) rates are consistently 67-86% below the industry average and our current Experience Modification Rate (EMR) is 0.61.

Safety Planning is woven into Trane's Construction/Installation Approach. An Environmental, Health and Safety (EH&S) Specialist is assigned to every project. This position is organizationally-independent and has the authority to stop work — or material in process — that does not meet quality installation and safety standards. The EH&S Specialist is responsible for standards (procedures, programs, and guidance) and compliance throughout all phases of project delivery.

The EH&S Specialist is involved in recurring review meetings to ensure unbiased assessments of the health of the project. The EH&S Specialist works with onsite personnel to monitor EH&S programs and ensure compliance with Trane's Safety program and Federal, state, and local regulatory requirements. He/she oversees that the site safety inspections, audits, site safety action register, reporting, and personnel safety training are accurate and up to date.

A wide range of safety training and resources are available to Trane technicians, including:

- Safety training — 20 hours per year
- Electrical safety — NFPA 70E compliant, electrical PPE
- Fall protection



**FACT**

Trane's parent company, Trane Technologies, enjoys an excellent Safety Experience Modification Rate (EMR) of 0.61, compared to the industry average of 1.00 - which means we have a much better safety track record than our peers.

\* as of 4/17/2022

- Ergonomics
- Smith System Safe Driving Program
- USDOT compliance
- Refrigerant management training

Subcontractors are thoroughly pre-screened and qualified to fully vet their safety records and ratings, citation history for the last five years, OSHA (Occupational Safety and Health Administration) logs for the past three years, history of payment to vendors, financial viability, bonding capacity, proof of insurance, review of their company safety policy including employee commitment and involvement, worksite analysis, hazard control and training. Trane requires all subcontractors to hold **weekly safety meetings** to address any anticipated safety concerns or any outstanding safety issues that need to be addressed. Trane’s safety department requires strict compliance with the company’s safety policies and all OSHA requirements



## QUALITY CONTROL

- Describe Bidder’s quality control processes.

Trane leverages industry-leading systems including ISO, Lean-Six Sigma, UL, CE, and other internal/external quality standards to ensure top quality products are provided to customers. Quality policy and programs are coordinated by our corporate functions and completed on a by product line and site of manufactured basis. Specific policy can be reviewed by specific area when required. Incremental to these key programs that are reviewed monthly by leadership team members, Trane products also have utilized four (4) initiatives to provide cost saving areas for our customer: ICS: Integrated Control Systems. The controls that come with Trane products all offer an open computer control technology protocol. This allows a client to feel comfortable that with every Trane product that is purchased, their existing Building Automation System will be able to communicate or if there is not a Building Automation System in place, Trane can provide our BAS system at a packaged program price.; D.F.T.: Demand Flow Technology, a mathematically based business strategy that encompasses the entire Trane organization: marketing, sales, order entry, engineering manufacturing, suppliers, and finance. Demand Flow Technology manages every aspect of the product cycle from the time the product is ordered, until it is shipped. Its sophisticated procedures ensure that customers receive fast availability of a wide selection of Trane standard products as well as custom and modified ones.

### *Six Sigma*

Trane has adopted Six-Sigma initiatives at all levels of the company to improve the processes managed by our business units. All employees in each manufacturing process are trained to QC manufacturing steps. Statistical samples of finished goods are routinely inspected to monitor product quality. Corporate keeps open dialogue with employees and distributors to monitor our quality of service and response.

### *Quality Guarantee*

Trane provides a guarantee of performance based on testing conditions as specified in both ARI as well as ASHRAE. Trane then follows this performance with the industry’s premier warranty and service

support to ultimately provide the best value to the end users. Within the controls and automation teams, for example, Trane has adopted the mantra of “no bad jobs”. This business mindset is prevalent throughout Trane, from the factory to the field sales offices.

Our engineers are committed to continuous improvement across all our product lines. They work tirelessly to increase energy efficiency and performance for all our systems, from light commercial to large, applied solutions. It's our depth of experience that makes Trane commercial systems the best in the business.

Our approach to each customer is unique in that we are interested in creating a customer for life rather than selling widgets. That ensures we set expectations with the customer and work to meet or exceed those expectations. Product warranties are in place to make sure the quality is met.

## **PROBLEM ESCALATION**

- Describe Bidder's problem escalation process.

Trane has a strong reputation for customer satisfaction and strives to be a leader in this category, reinforced by eliciting customer feedback through customer satisfaction surveys, identifying root cause of problems, and working to solve problems with finality.

Operational Excellence (OpEx) is part of our Path to Premier Performance. It is a philosophy and collection of tools to drive out waste from our processes. While many aspects of Lean Manufacturing are involved in OpEx, the skillset also includes Six Sigma and other tools needed to solve both simple and complex problems that keep us from delivering premier performance to our customers, our shareholders, and our employees.

The process used to expedite a service call to a service repair quotation starts with the initial service request. The Call Center time and date stamps each service call entry as well as informing the project manager, assigned to the account, of the service request. Once the technician is on the job and has identified the problem, he contacts the project manager and explains the problem and the recommended solution. Our project manager will then contact the customer's representative with the verbal repair quotation, estimated time for repair and request for approval. If the repair can be made at the time the technician is at the jobsite, he will be informed to perform the repair; if not, the project manager will inform the customer's representative with the scheduled repair date. All the project managers carry cell phones and are easily reached any time of the day or night. As an added means of assuring customer satisfaction, the communication center will call each customer location after each scheduled maintenance and quoted repair service. The results of this satisfaction survey are electronically returned to the Trane Project Manager and if further actions are required, they will be immediately addressed. The results are compiled and submitted for the customer's review on a predetermined time frame.

### *After Hours*

The after-hours call center has an escalation process should the primary on-call technician not acknowledge the first call within 15 minutes. If the secondary technician fails to respond in 15 minutes, the area service manager is that contacted. During normal business hours, the service dispatcher will initially assess the call priority. The customer has the option to engage with the service manager if they have issues, concerns or questions with the call response or repairs(s) performed.

## CUSTOMER COMPLAINTS

- Describe how customer complaints are measured and categorized. What processes are in place to know that a problem has been resolved?

### *Customer Satisfaction Survey*

Trane has a strong reputation for customer satisfaction and strives to be a leader in this category, reinforced by eliciting customer feedback through customer satisfaction surveys, identifying root cause of problems, and working to solve problems with finality.

Key Drivers for Fulfillment / Project Management:

- Functionality of the equipment/systems installed on the job
- Follow-up and follow through on commitments
- Labor resources assigned to the job
- Communication of schedule status
- Resolving issues as they come up

Key Drivers for Sales/Account Management:

- Level in expertise in developing solutions
- Responsiveness of account managers to questions and inquiries
- Time it took to provide a quote that met project requirements

A four-day Customer Satisfaction Training is delivered over 12 months to all offices. Below you will see the full training schedule:

Day 1

- Management Engagement
- Module 1: Understanding Expectations
- Module 2: Speak the Language of Excellence in Service

Day 2

- Module 3: Become a Master Communicator
- Module 4: Listening for Service Opportunities
- Module 5: The Power of a Good Question

Day 3

- Module 6: Dealing with Problems, Complaints and Concerns
- Module 7: Dealing with that Difficult Person
- Module 8: Restore and Rebuild Broken Relationships

Day 4

- Module 9: Communicating Under Pressure – How to be Calm and Effective
- Module 10: How to be a Customer Service Superstar
- Module 11: Achieve Customer Loyalty and Advocacy

These surveys are analyzed, scored, and reviewed monthly. Low scores are immediately handled by Contracting Leaders. Area Service Managers are provided a score and trend quarterly. Low scores are immediately handled by the Service Manager. All employees have metrics in place to measure their role in customer satisfaction as well. District scores are published within the company, breeding a friendly-competition and best practice sharing for continuous improvement.

## **POST-INSTALLATION SUPPORT**

- Describe Bidder's post-installation support and warranty specifics. Include both product and installation warranty information.

### *Optimizing HVAC System*

To help you ensure that the customer's new system is properly installed and operating at maximum efficiency during the critical first years of operations, Trane Building Services provides startup services with comprehensive HVAC Startup Services and HVAC warranty service agreements.

### *HVAC Warranty Service Agreements*

Trane provides a variety of extended warranties to allow customers another opportunity to manage their ongoing costs of operations. The nature of Trane HVAC equipment, and truly any mechanical equipment, means that it requires service as it operates. While they receive a standard parts warranty as the original purchaser, our extended warranties help them project their costs and protect their business against increases in material and/or labor costs.

### *Operating and Maintaining Building*

Trane offers HVAC unit repair services that assure continued efficient operation of equipment. Trane can also provide proactive HVAC service plans with scheduled service, select service, and extended warranties to help reduce unplanned repair expenses and to reduce the risk of catastrophic system failure.

### *Upgrade and Improve Existing System*

Compressor and control renewal options offered by Trane Building Services can help bring older chiller systems up to current standards. You can also upgrade chillers with the latest Trane HVAC upgrades. Add value to buildings by addressing energy management, environmental impact, compliance issues, and building lifetime planning through commercial HVAC contracting services and solutions. For temporary or special occasion cooling needs, Trane Building Services provides temporary chillers and rental options. We can also set up cooling contingency plans as part of an overall emergency preparedness plans for scheduled or emergency outages in buildings.

### *Building Services Commitment*

The service professionals of Trane Building Services are committed to ensuring the equipment functions at its highest level of efficiency. With over a century of experience in the industry, Trane Building Services has a clear understanding of how facility management needs change as business and as technology changes. You can always trust Trane Building Services to deliver on promises and provide the highest level of industry knowledge and service for the government entities' equipment.

First year parts and labor warranty support is offered by the Trane service group on Centrifugal chillers and water-cooled Rotary Chillers. All other equipment has a one-year parts warranty (unless extended warranties are purchased) and a labor warranty by Trane as part of the standard contract terms with U.S. Communities. Optional extended parts and labor warranties are offered and must be purchased prior to the units being started.

A customer will receive a standard 12/18 warranty on new equipment (basically a parts only warranty). Government entities can buy two different types of warranties thru Trane after the equipment has been shipped:

### Option 1: Extended Service Warranty

- Warranty: All parts and labor warranty from Trane factory.
- Requirements: Trane Affiliated Service Company must do a minimum of four inspections.
- Eligible equipment: Trane equipment *that is still at least 2 months within standard 12/18 warranty with no major failures. Warranty must be purchased within 6 months of startup but not later than 16 months from shipment*
- Labor (and refrigerant) warranties must be purchased prior to *initial unit startup*

### Option 2: Extended Service Warranty- Expanded

- Warranty: Parts warranty from Trane factory and Labor warranty from Trane Affiliated
- Service Company (good for the 2nd-5th year or 6th-10th year extended warranties).
- Requirements: Trane Affiliated Service Company must do a minimum of six inspections.
- Eligible equipment: Trane equipment that is either just out of the standard 12/18-month warranty OR will soon be out of an extended warranty (for example 2nd-5th year extended parts warranty). Warranty must be purchased within 6 months of startup but not later than 16 months from shipment
- Labor (and refrigerant) warranties must be purchased prior to initial unit startup
- After we complete the upgrades and construction for a Turnkey Contracting Services project, Trane will deliver the documentation needed to keep the investment working properly. We will provide one preliminary copy of as-built drawings—floor plans showing the actual building layouts—and an advance copy of the Operations & Maintenance (O&M) manual. Once these deliverables are reviewed and approved, Trane will submit two copies of final O&M documents, including:
  - o As-built system or installation drawings (or both)
  - o Equipment submittals
  - o Service and maintenance procedure *manuals*
  - o User and technical *manuals*

### *O&M Summary*

Trane eliminates confusion and complexity about who is responsible for maintenance, repair which rest with the customer. As a large global company, we have the leverage to keep costs down for replacement parts—our own and those of other manufacturers. Our integrated approach means that

Trane engineers and technicians are trained to work with many brands of equipment, and our extensive network ensures that we have resources close to your building.

At the same time, we have local expertise throughout the country – people who understand the climate, economy, utilities and issues your organization faces. They are your most valuable advisors.

### *Long-Term Operations and Maintenance Support*

Upgraded building systems are meant to save money on energy and cost less to maintain for many, many years. Trane stands by customers to help keep systems working at top efficiency, reduce the chances of equipment failure, and give facilities management the expertise to reach new levels of efficiency. Trane offers a variety of ongoing support opportunities, including training in the optimal operation of HVAC systems. Trane can also provide remote systems monitoring and performance reporting.

## **DEFECTIVE PRODUCTS**

- Describe the process for replacement or repair of defective products and warranty related issues.

### *Process Steps For Replacement / Repair Of Defective Products & Warranty Related Issues*

1. Determine if the problem is a unit or system problem.
2. If a unit problem, determine level of urgency—nonfunctioning, intermittent, etc.,
3. Parts or parts with labor?
4. Work with local office to schedule repair. We will ship all U.S. Communities projects with 1st year parts and labor warranties.

### *Parts and Labor Warranty. Parts Warranty – 12/18*

- Trane new equipment warranty terms call for the replacement of defective parts discovered within 12 months of initial start-up or 18 months from date of shipment (12/18 terms), whichever is less.
- Extended parts warranties are also available

### *Trane Standard Warranty – 12/18*

- Standard warranty states that our products will be free from defects in material and workmanship and have the capacities and ratings set forth in the submitted literature, provided that no warranty is made against corrosion, erosion, or deterioration.
- Same 12/18 terms as above

### *Quick Ship Option*

Trane Quick Ship option provides shorter delivery leads for time critical jobs such as replacement or “fast-track” jobs with tight construction cycles.

## UNIT REPAIR VS. UNIT REPLACEMENT

- Describe how Bidder evaluates and determines unit repair versus unit replacement.

Unit repair versus unit replacement is primarily based in pre-established warranties mutually agreed upon within the contract. One year from date of purchase is standard, additional extended warranties are available for purchase.

The following HVAC extended warranties are available for purchase before the ship date of the applicable equipment to give you added peace of mind:

### *Types of Extended Warranties*

An extended Trane warranty is available for purchase before the ship date of the equipment.

- **Delayed Start-Up:** When start-up of new equipment will be delayed beyond six months after shipment, the delayed start-up warranty will postpone the commencement date of the first-year part warranty.
- **Whole Unit Parts Warranty:** The extended whole unit parts warranty begins at the expiration of the standard warranty. And like the standard warranty, the whole unit parts warranty will replace any covered part that is found to be defective in material or manufacture.
- **Compressor Warranty:** In the event a part in the compressor assembly of a Trane unit or a part in the motor/compressor assembly of a Trane centrifugal chiller covered by this warranty is found to be defective, this warranty will provide for a replacement compressor or part (at the discretion of Trane).
- **Labor Warranty:** When a part covered under warranty is found to be defective, the labor warranty will provide for labor to install the replacement part. Note that 'compressor only' labor warranty covers labor to replace applicable parts on that assembly only. Only a Trane commercial warranty agent may perform warranted repairs under the labor warranty.
- **Refrigerant Warranty:** The refrigerant warranty will provide for replacement refrigerant to restore a unit to the proper refrigerant charge if a warranted part on the Trane unit is found to be defective.
- **Low Voltage Controls Parts Warranty:** The low voltage controls parts warranty is offered on CSAA air handlers ordered with a Pre-Packaged Solution (PPS). The parts warranty begins at the expiration of the standard warranty and covers the low voltage controls components included in the PPS which are found to be defective in material or manufacture.
- **Low Voltage Controls Labor Warranty:** The low voltage controls labor warranty is offered on CSAA air handlers ordered with a Pre-Packaged Solution (PPS). This warranty covers labor to repair/replace low voltage controls components included in the PPS option only. When a part covered under warranty fails, this warranty will provide labor to repair/replace the covered component. Only a Trane commercial warranty agent may perform warranted repairs under the labor warranty.

## INVOLVEMENT OF OTHER COMPANIES

- Identify all other companies that may be involved in processing, handling, shipping, products and/or services.

Trane utilizes multiple carriers/modes across North America (and beyond) in the process of moving product from our plants and warehouses/distribution centers to our customers. We partner with carriers who meet our requirements and/or industry standards for quality and service performance. Carrier specifics vary by mode, origin/destination points and customer requirements.

## DISTRIBUTION FACILITIES

- Provide the number, size and location of Bidder's distribution facilities, warehouses, and retail network as applicable.

Trane has 6 express warehouses, 2 Global parts warehouses, 11 plant sites, 25 retail parts centers, and 205 parts/supply facilities.

## ORDER INFORMATION

- Provide order information to include available ordering methods and available payment terms.

Trane offices utilize a myriad of systems with which to conduct and manage the businesses. For commercial equipment, services, installations, energy services, etc., the offices utilize Sales Force for initial data entry and tracking. The information is then transferred into other online systems, depending on the project type.

Equipment projects begin with online selection tools that define unit capacity based on jobsite conditions. These tools also define the electrical requirements, weights, unit sizes and such. Once each unit is selected, the system then transfers these selections to online pricing tools and ultimately, to the manufacturing plants themselves for fabrication. Trane has many manufacturing plants located throughout North America. The type of equipment determines which plant will be used for fabrication as well as the necessary materials required, manufacturing timelines, labor resources, etc. Once the fabrication is complete, all items for a particular project are consolidated for shipment and ultimate delivery to the jobsite.

Service projects begin with an online estimating tool that helps define the necessary labor resources required to fulfil a specific task. Each task is compiled into a complete job portfolio which then defines the ultimate size and scope of the service project. Service projects can vary in both size and complexity, involving a single or multiple technical resources as well as outside expertise.

Installation projects begin with an online estimating tool that will help define the overall project scope, necessary jobsite resources, materials necessary to fulfill a given scope of work, identified project risks, non-company labor trades required, etc. This tool will also help develop the overall project timeline, Gantt charting, material ordering points, etc.

Service repair parts are managed through an online system that determines product availability, stocking locations, unit pricing, stock replenishment points, etc. Service parts are available from local Trane commercial sales offices as well as several national parts stocking points. These retail outlets work with both the internal and external customers, such as agencies working through a Racine cooperative contract.

Most projects are extended net-30-day status for credit terms. Open terms are established based on the agency's credit worthiness and payment history. Agencies are encouraged to work with their assigned

Trane account manager if other needs are required. Trane also offers pre-payment discount options should agencies wish to explore those project investment opportunities.

## SUPPORT CENTERS

- Provide the number and location of support centers (if applicable).

Trane has 124 Project/Sales offices and 205 parts/supply facilities. Please note: some parts/supply facilities are located at the same address as project sales offices.

Project/Sales Offices			
State	Function	Address	City
Alabama	Birmingham, AL Sales Office	1030 London Drive, Suite 100,	Birmingham
Alabama	Huntsville, AL Sales Office	301 James Record Road, Building 200, Suite 100	Huntsville
Alabama	Mobile, AL Sales Office	124 E I-65 Service Road North	Mobile
Alabama	Montgomery, AL Sales Office	915 Lagoon Business Loop	Montgomery
Alaska	Anchorage, AK Sales Office	12101 Industry Way, Suite C1	Anchorage
Arizona	Phoenix, AZ Sales Office	850 W. Southern Avenue	Tempe
Arizona	Tucson, AZ Sales Office	4520 South Coach Drive	Tucson
Arkansas	Little Rock, AR Sales Office	10303 Colonel Glenn Rd.	Little Rock
Arkansas	Springdale, AR Sales Office	401 Skyler Street	Springdale
California	Fresno, CA Sales Office	3026 North Business Park Avenue, Suite 104	Fresno
California	Los Angeles, CA Sales Office	3253 E. Imperial Highway	Brea
California	Petaluma, CA Sales Office	1343 Redwood Way	Petaluma
California	Sacramento, CA Sales Office	4145 Delmar Avenue	Rocklin
California	San Diego, CA Sales Office	3565 Corporate Ct	San Diego
California/Pacific Coast Trane	Oakland, CA Sales Office	383 4th St. #202	Oakland
California/Pacific Coast Trane	San Francisco, CA Sales Office	310 Soquel Way	Sunnyvale
Colorado	Colorado Springs, CO Sales Office	4840 List Drive	Colorado Springs
Colorado	Denver, CO Sales Office	445 Bryant Street, Unit 5	Denver
Colorado	Fort Collins, CO Sales Office	2416 Donella Court, Unit D	Fort Collins
Colorado	Grand Junction, CO	2387 River Rd, Unit 110	Grand Junction
Connecticut	Hartford, CT Sales Office	716 Brook Street, Suite 130	Rocky Hill
Delaware/Seiberlich Trane	Wilmington, DE Sales Office	66 Southgate Blvd., Southgate Industrial Park	New Castle
Florida	Fort Myers, FL Sales Office	6461 Topaz Court	Fort Myers
Florida	Jacksonville, FL Sales Office	8929 Western Way	Jacksonville
Florida	Miami, FL Sales Office	2884 Corporate Way	Miramar
Florida	Orlando, FL Sales Office	2301 Lucien Way, Suite 430	Maitland
Florida	Pensacola, FL Sales Office	580 E Burgess Rd Suite A-2	Pensacola
Florida	Tallahassee, FL Sales Office	109 Hamilton Park Drive, Suite 1	Tallahassee
Florida	Tampa, FL Sales Office	902 Himes Avenue	Tampa
Florida	West Palm Beach, FL Sales Office	6965 Vista Parkway N, Ste. 11	West Palm Beach

Project/Sales Offices			
State	Function	Address	City
Georgia	Atlanta, GA Sales Office	4000 Dekalb Technology Parkway, Building 100	Atlanta
Georgia	Augusta, GA Sales Office	804 Trane Road	Augusta
Georgia	Macon, GA	125 Macon West Drive	Macon
Georgia	Savannah, GA Sales Office	3609 Ogeechee Road, Suite A	Savannah
Hawaii	Honolulu, HI Sales Office	2969 Mapunapuna Pl., Ste. 101	Honolulu
Idaho	Boise, ID Sales Office	351 North Mitchell St., Ste. 110	Boise
Illinois	Trane Chicago Sales Office	7100 S. Madison	Willowbrook
Indiana	Fort Wayne, IN Sales Office	6602 Innovation Blvd.	Fort Wayne
Indiana	Indianapolis, IN Sales Office	8100 E 106th Street	Fishers
Indiana	South Bend, IN Sales Office	3725 Cleveland Road, Suite 300	South Bend
Indiana	Evansville, IN Sales Office	1024 East Sycamore Street	Evansville
Iowa	Davenport, IA Sales Office	4801 Grand Ave	Davenport
Iowa	Des Moines, IA Sales Office	2220 NW 108th Street	Clive
Kansas	Kansas City Sales Office	11211 Lakeview Avenue	Lenexa
Kansas	Wichita, KS Sales Office	120 S. Ida Street	Wichita
Kentucky	Lexington, KY Sales Office	2350 Fortune Drive	Lexington
Kentucky	Louisville, KY Sales Office	12700 Plantside Drive	Louisville
Louisiana	Baton Rouge, LA Sales Office	11534 Cloverland Ave	Baton Rouge
Louisiana	New Orleans Sales Office	4013 N. I-10 Service Rd. West	Metairie
Louisiana	Shreveport, LA Sales Office	9225 Premier Ct	Shreveport
Maine	Portland, ME Sales Office	860 Spring Street, Unit #1	Westbrook
Maryland	Hunt Valley, MD Sales Office	10947 Golden West Dr., Ste. 100	Hunt Valley
Maryland/Boland Trane	Washington, D.C. Sales Office	30 West Watkins Mill Road	Gaithersburg
Massachusetts	Boston, MA Sales Office	181 Ballardvale Street, Suite 201	Wilmington
Massachusetts	Springfield, MA Sales Office	90 Carando Drive	Springfield
Michigan	Detroit, MI Sales Office	37001 Industrial Road	Livonia
Michigan	Flint, MI Sales Office	5335 Hill 23 Drive	Flint
Michigan	Lansing, MI Sales Office	3350 Pine Tree Road	Lansing
Michigan	West Michigan Sales Office	5005 Corporate Exchange Boulevard S.E.	Grand Rapids
Minnesota	Twin Cities Sales Office	775 Vandalia Street	St. Paul
Mississippi	Jackson, MS Sales Office	851 Wilson Drive, Suite A	Ridgeland
Missouri	Springfield, MO Sales Office	540 N. Cedarbrook	Springfield
Missouri	St. Louis, MO Sales Office	101 Matrix Commons Drive	Fenton
Montana/Armacost Trane	Billings, MT Sales Office	3311 4th Ave. North, Suite 4	Billings
Montana/Armacost Trane	Great Falls, MT	422 9th Street S. (59405), P.O. Box 2642 (59403)	Great Falls
Nebraska	Omaha, NE Sales Office	11937 Portal Road	La Vista
Nevada	Reno, NV Sales Office	5595 Equity Avenue, Suite 100	Reno
New Hampshire	Manchester, NH Sales Office	15 Constitution Drive, Suite 2K	Bedford

Project/Sales Offices			
State	Function	Address	City
New Jersey	Trane New Jersey Sales Office	19 Chapin Rd., Bldg. B, Suite 200	Pine Brook
New Mexico	Albuquerque	5501 San Diego Avenue NE	Albuquerque
New York	Albany, NY Sales Office	301 Old Niskayuna Road, Ste. 1	Latham
New York	Buffalo, NY Sales Office	45 Earhart Drive, Suite 103	Buffalo
New York	Long Island, NY Sales Office	245 Newtown Road, Suite 500	Plainview
New York	New York, NY Sales Office	10-27 46th Avenue	Long Island City
New York	Rochester, NY Sales Office	75 Town Centre Drive, Suite 300	Rochester
New York	Syracuse, NY Sales Office	15 Technology Place	East Syracuse
North Carolina	Asheville, NC Sales Office	168 Sweeten Creek Road	Asheville
North Carolina	Charlotte, NC Sales Office	4501 S. Tryon Street	Charlotte
North Carolina	Greensboro, NC Sales Office	2025 16th Street	Greensboro
North Carolina	Raleigh, NC Sales Office	401 Kitty Hawk Drive	Morrisville
North Carolina/ Brady Trane	Wilmington, NC Sales Office	6736-A Netherlands Drive	Wilmington
North Dakota	Fargo, ND Sales Office	3417 7th Ave N, Suite D	Fargo
Ohio	Cincinnati, OH Sales Office	10300 Springfield Pike	Cincinnati
Ohio	Cleveland, OH Sales Office	9555 Rockside Road	Valley View
Ohio	Columbus, OH Sales Office	2300 CityGate Drive, Suite 100	Columbus
Ohio	Toledo, OH Sales Office	1001 Hamilton Drive	Holland
Ohio/Waibel Trane	Dayton, OH Trane Sales Office	7446 Webster Street	Dayton
Oklahoma	Oklahoma City Sales office	305 Hudiburg Circle	Oklahoma City
Oklahoma	Tulsa Sales Office	2201 N Willow Ave	Broken Arrow
Oregon	Portland, OR Sales Office	7257 SW Kable Lane	Portland
Pennsylvania	Allentown, PA Sales Office	5925 Tilghman St #300	Allentown
Pennsylvania	Harrisburg, PA	3909 TecPort Drive	Harrisburg
Pennsylvania	Pittsburgh, PA Sales Office	400 Business Center Drive	Pittsburgh
Pennsylvania	Tozour Energy Systems	3606 Horizon Drive	King of Prussia
Pennsylvania	Wilkes-Barre, PA Office	1185 North Washington Street	Wilkes-Barre
Rhode Island	Providence, RI Sales Office	10 Hemingway Drive	East Providence
South Carolina	Charleston, SC Sales Office	4951 Rivers Avenue	North Charleston
South Carolina	Columbia, SC Sales Office	111 Lott Court	West Columbia
South Carolina	Greenville, SC Sales Office	412 Fairforest Way	Greenville
South Dakota	Sioux Falls, SD	6225 South Pinnacle Pl., Ste. 101	Sioux Falls
Tennessee	Chattanooga, TN Sales Office	6138 Preservation Dr., Ste. 500	Chattanooga
Tennessee	Knoxville, TN Sales Office	5220 S. Middlebrook Pike	Knoxville
Tennessee	Memphis, TN	1775 Pyramid Place, Suite 100	Memphis
Tennessee	Nashville, TN Sales Office	601 Grassmere Park Dr., Ste. 10	Nashville
Tennessee	Kingsport, TN Sales Office	10384 Wallace Alley Street	Kingsport
Texas	El Paso, TX Sales Office	1405 Vanderbilt Drive	El Paso
Texas	Austin, TX Sales Office	9801 Metric Blvd, Suite 400	Austin
Texas	Corpus Christi, TX Sales Office	2828 Wow Road, Unit B	Corpus Christi
Texas	Dallas, TX	1617 Hutton Drive	Carrollton
Texas	Fort Worth, TX Sales Office	4200 Sylvania Ave.	Fort Worth

Project/Sales Offices			
State	Function	Address	City
Texas	Lubbock, TX Sales Office	8308 Upland Avenue	Lubbock
Texas	San Antonio, TX	9535 Ball Street, Suite 1100	San Antonio
Texas	Weslaco, TX Sales Office	1240 N. Votech Drive	Weslaco
Texas/Hunton Trane	Houston, TX Sales Office	10555 Westpark Drive	Houston
Utah	Salt Lake City, UT	2817 South 1030 West	Salt Lake City
Vermont	Burlington, VT Sales Office	177 Leroy Road	Burlington
Virginia	Richmond, VA Sales Office	10408 Lakeridge Pkwy., Ste. 100	Ashland
Virginia	Roanoke, VA Sales Office	2303 Trane Drive	Roanoke
Virginia/Damuth Trane	Norfolk, VA Sales Office	1100 Cavalier Blvd.	Chesapeake
Washington	Seattle, WA Sales Office	2333 158th Court NE	Bellevue
Washington	Spokane, WA Sales Office	11002 E Montgomery Drive, Suite #500	Spokane Valley
Wisconsin	Appleton, WI Sales Office	2500 N Lynndale Dr, Suite H	Appleton
Wisconsin	Madison, WI Sales Office	5302 Voges Road	Madison
Wisconsin	Milwaukee, WI Sales Office	234 W. Florida St, 6th Floor	Milwaukee

Parts/Supply Locations			
State	Function	Address	City
Alabama	Trane Supply	1030 London Drive	Birmingham
Alabama	Trane Supply	301 James Record Road	Huntsville
Alabama	Trane Supply	124 E I-65 Service Road North	Mobile
Alabama	Trane Supply	915 Lagoon Business Loop	Montgomery
Alaska	Trane Supply	12101 Industry Way	Anchorage
Arizona	Trane Supply	220 E Germann Rd	Gilbert
Arizona	Trane Supply	720 East Auto Center Dr	Mesa
Arizona	Trane Supply	21415 N 15th Lane	Phoenix
Arizona	Trane Supply	437 W. Fairmont Dr	Tempe
Arizona	Trane Supply	10115 W Van Buren	Tolleson
Arizona	Trane Supply	2165 N Forbes Blvd. Suite 107	Tucson
Arkansas	Trane Supply	19 Colonel Glenn Plaza Rd.	Little Rock
Arkansas	Trane Supply	401 Skyler Street	Springdale
California	Trane Supply	21720 Wilmington Ave	Carson
California	Trane Supply	20450 East Walnut Dr North	Diamond Bar
California	Trane Supply	3026 North Business Park Ave.	Fresno
California	Trane Supply	3631 San Fernando Rd	Glendale
California	Trane Supply	4380 Warehouse Court	North Highlands
California	Trane Supply	2222 Kansas Ave	Riverside
California	Trane Supply	4145 Delmar Avenue	Rocklin
California	Trane Supply	3565 Corporate Ct	San Diego
California	Trane Supply	15551 Redhill Ave	Tustin
California	Pacific Coast Trane	890 Service St. Unit A	San Jose
Colorado	Trane Supply	4840 List Drive	Colorado Springs

## Parts/Supply Locations

State	Function	Address	City
Colorado	Trane Supply	445 Bryant Street	Denver
Colorado	Trane Supply	67 Inverness Dr East	Englewood
Colorado	Trane Supply	2416 Donella Court	Fort Collins
Colorado	Trane Supply	2387 River Rd	Grand Junction
Connecticut	Trane Supply	485 Ledyard St.	Hartford
Connecticut	Trane Supply	178 Wallace St.	New Haven
Connecticut	Trane Supply	47 Harbor View Ave.	Stamford
Delaware	Seiberlich Trane HVAC Parts & Supplies	66 Southgate Blvd.	New Castle
Florida	Trane Supply	12385 Automobile Blvd.	Clearwater
Florida	Trane Supply	970 N. Clyde Morris Blvd.	Daytona Beach
Florida	Trane Supply	2660 NW 89 Court	Doral
Florida	Trane Supply	6461 Topaz Court	Fort Myers
Florida	Trane Supply	16520 Scheer Blvd.	Hudson
Florida	Trane Supply	8929 Western Way	Jacksonville
Florida	Trane Supply	10592 Balmoral Circle E	Jacksonville
Florida	Trane Supply	12750 SW 125th Ave.	Miami
Florida	Trane Supply	11600 Miramar Parkway	Miramar
Florida	Trane Supply	544 Commercial Boulevard	Naples
Florida	Trane Supply	3401 Wd Judge Dr. Ste 110	Orlando
Florida	Trane Supply	9424 Southridge Park Court	Orlando
Florida	Trane Supply	580 E Burgess Rd.	Pensacola
Florida	Trane Supply	2103 SW 3 St.	Pompano Beach
Florida	Trane Supply	400 NW Enterprise Dr.	Port St. Lucie
Florida	Trane Supply	2224 72nd Terrace East	Sarasota
Florida	Trane Supply	109 Hamilton Park Drive	Tallahassee
Florida	Trane Supply	4720 East Adamo Drive	Tampa
Florida	Trane Supply	6965 Vista Parkway North	West Palm Beach
Georgia	Trane Supply	5980 Peachtree Rd.	Atlanta
Georgia	Trane Supply	804 Trane Road	Augusta
Georgia	Trane Supply	3547 Gentian Blvd	Columbus
Georgia	Trane Supply	2625 Pinemeadow Court	Duluth
Georgia	Trane Supply	5021 Old Dixie Hwy	Forest Park
Georgia	Trane Supply	2140 Barrett Park Drive	Kennesaw
Georgia	Trane Supply	125 Macon West Drive	Macon
Georgia	Trane Supply	3061 Kingston Ct. SE	Marietta
Georgia	Trane Supply	1175 Northmeadow Parkway	Roswell
Georgia	Trane Supply	3609 Ogeechee Road	Savannah
Hawaii	Trane Supply	2969 Mapunapuna Place	Honolulu
Idaho	Trane Supply	351 North Mitchell Street	Boise
Illinois	Trane Supply	2601 Beverly Dr.	Aurora
Illinois	Trane Supply	1322 Barclay Blvd.	Buffalo Grove
Illinois	Trane Supply	301 E Mercury Drive	Champaign
Illinois	Trane Supply	920 W. Pershing Rd.	Chicago

**Parts/Supply Locations**

<b>State</b>	<b>Function</b>	<b>Address</b>	<b>City</b>
Illinois	Trane Supply	1605 Eastport Plaza Dr	Collinsville
Illinois	Trane Supply	2410 Vantage Dr.	Elgin
Illinois	Trane Supply -	7950 West 185th St.	Tinley Park
Illinois	Trane Supply	7100 S. Madison St.	Willowbrook
Indiana	Trane Supply	1458 S. Liberty Dr.	Bloomington
Indiana	Trane Supply	14289 W Commerce Road	Daleville
Indiana	Trane Supply	6602 Innovation Blvd	Fort Wayne
Indiana	Trane Supply	5355 N Post Rd.	Indianapolis
Indiana	Trane Supply	2363 Perry Rd.	Plainfield
Indiana	Trane Supply	3725 Cleveland Rd	South Bend
Indiana	Trane Supply	1024 East Sycamore Street	Evansville
Iowa	Trane Supply	2165 NW 108th Street	Clive
Iowa	Trane Supply	4801 Grand Ave	Davenport
Kansas	Trane Supply	9972 Lakeview Ave	Lenexa
Kansas	Trane Supply	130 S. Ida Street	Wichita
Kansas	Trane Supply	2700 Bi State Dr.	Kansas City
Kansas	Trane Supply	2724 NE Independence Ave	Lee's Summit
Kentucky	Trane Supply	141 Center Street	Bowling Green
Kentucky	Trane Supply	1360 Donaldson Hwy	Erlanger
Kentucky	Trane Supply	2350 Fortune Drive	Lexington
Kentucky	Trane Supply	12850 Plantside Drive	Louisville
Kentucky	Trane Supply	1000 E. Market Street	Louisville
Louisiana	Trane Supply	6316 Fieldstone Drive	Baton Rouge
Louisiana	Trane Supply	530 Elmwood Park Blvd.	Harahan
Louisiana	Trane Supply	5400 Pepsi St. Suite H	Harahan
Louisiana	Trane Supply	9225 Premier Ct	Shreveport
Maine	Trane Supply	860 Spring Street	Westbrook
Maryland	Trane Supply	899 Airport Park Rd.	Glen Burnie
Maryland	Trane Supply	2208 Greenspring Dr.	Timonium
Maryland	Boland HVAC Parts & Supplies	30 W. Watkins Mill Road	Gaithersburg
Massachusetts	Trane Supply	100 Messina Dr.	Braintree
Massachusetts	Trane Supply	5A Polito Dr.	Shrewsbury
Massachusetts	Trane Supply	90 Carando Drive	Springfield
Massachusetts	Trane Supply	96 Commerce Way	Woburn
Massachusetts	Trane Supply	1050 Holt Ave.	Manchester
Michigan	Trane Supply	1947 S Industrial Highway	Ann Arbor
Michigan	Trane Supply	2410 Austins Parkway	Flint
Michigan	Trane Supply	1200 Monroe Ave NW	Grand Rapids
Michigan	Trane Supply	3350 Pinetree Road	Lansing
Michigan	Trane Supply	33725 Schoolcraft Rd.	Livonia
Michigan	Trane Supply	251 Executive Dr.	Troy
Minnesota	Trane Supply	7860 12th Ave South	Bloomington
Minnesota	Trane Supply	800 Berkshire Lane	Plymouth
Minnesota	Trane Supply	720 Vandalia Street	St. Paul

## Parts/Supply Locations

State	Function	Address	City
Mississippi	Trane Supply	851 Wilson Drive	Ridgeland
Missouri	Trane Supply	3663 Corporate Trail Dr.	Earth City
Missouri	Trane Supply	101 Matrix Commons Drive	Fenton
Missouri	Trane Supply	2101 West Sunset St.	Springfield
Montana	Armacost Trane Supply	3311 4th Ave. North	Billings
Montana	Armacost Trane Supply	422 9th Street South	Great Falls
Nebraska	Trane Supply	4408 S 108th St	Omaha
Nevada	Trane Supply	4375 South Valley View Boulevard, Suite D	Las Vegas
New Hampshire	Trane Supply	1050 Holt Ave. Unit 11	Manchester
New Jersey	Trane Supply	26 Chapin Road	Pine Brook
New Jersey	Trane Supply	3005 Hadley Rd.	South Plainfield
New Jersey	Trane Supply	800 Huyler St.	Teterboro
New Mexico	Trane Supply	5501 San Diego Avenue NE	Albuquerque
New York	Trane Supply	51 Railroad Ave.	Albany
New York	Trane Supply	115 49th St.	Brooklyn
New York	Trane Supply	2916 Walden Ave, Suite 250	Depew
New York	Trane Supply	6211 E. Molloy Rd.	East Syracuse
New York	Trane Supply	12 Skyline Dr.	Hawthorne
New York	Trane Supply	40-01 Crescent St.	Long Island City
New York	Trane Supply	245 Newtown Road	Plainview
New York	Trane Supply	1046 University Ave.	Rochester
North Carolina	Trane Supply	168 Sweeten Creek Road	Asheville
North Carolina	Trane Supply	4501 S. Tryon Street	Charlotte
North Carolina	Trane Supply	8810-B Airpark West Dr.	Charlotte
North Carolina	Trane Supply	1265 19th St Ln NW	Hickory
North Carolina	Trane Supply	12857 Independence Blvd.	Matthews
North Carolina	Brady Parts Center	6736-A Netherlands Drive	Wilmington
North Carolina	Brady Parts Center	8408 Triad Drive	Greensboro
North Carolina	Brady Parts Center	4306 Bennett Memorial Rd.	Durham
North Carolina	Brady Parts Center	4437 Beryl Road	Raleigh
North Dakota	Trane Supply	3417 7th Ave N	Fargo
Ohio	Trane Supply	10300 Springfield Pike	Cincinnati
Ohio	Trane Supply	2300 City Gate Drive	Columbus
Ohio	Trane Supply	2188 North Wilson Rd	Columbus
Ohio	Trane Supply	7446 Webster St.	Dayton
Ohio	Trane Supply	1001 Hamilton Drive	Holland
Ohio	Trane Supply	6050 Towpath Dr	Valley View
Oklahoma	Trane Supply	2205-A N Willow Ave	Broken Arrow
Oklahoma	Trane Supply	3450 S. MacArthur Blvd.	Oklahoma City
Oregon	Trane Supply	7244 SW Durham Road, Ste. 100	Portland
Pennsylvania	Tozour Trane Parts Center	2 Executive Dr.	Moorestown
Pennsylvania	Trane Supply	5925 Tilghman St.	Allentown

**Parts/Supply Locations**

<b>State</b>	<b>Function</b>	<b>Address</b>	<b>City</b>
Pennsylvania	Trane Supply	102 Four Coins Dr. Ext.	Canonsburg
Pennsylvania	Trane Supply	122 Equity Dr.	Greensburg
Pennsylvania	Trane Supply	491 Blue Eagle Ave.	Harrisburg
Pennsylvania	Tozour Trane HVAC Parts & Supply	480 Drew Court	King of Prussia
Pennsylvania	Trane Supply	3042 New Beaver Ave.	Pittsburgh
Pennsylvania	Trane Supply	1185 North Washington Street	Wilkes-Barre
Rhode Island	Trane Supply	333 Niantic Ave Unit B	Providence
South Carolina	Trane Supply	412 Fairforest Way	Greenville
South Carolina	Trane Supply	4951 Rivers Avenue	North Charleston
South Carolina	Trane Supply	130 Monroe Dr.	Simpsonville
South Carolina	Trane Supply	2180 Chesnee Highway	Spartanburg
South Carolina	Trane Supply	1510 Key Road	West Columbia
South Dakota	Trane Supply	609 North Kiwanis Ave.	Sioux Falls
Tennessee	Trane Supply	4157 South Creek Rd.	Chattanooga
Tennessee	Trane Supply	1609 Amherst Rd.	Knoxville
Tennessee	Trane Supply	355 Mason Road	La Vergne
Tennessee	Trane Supply	6972 Appling Farms	Memphis
Tennessee	Trane Supply	4140 Getwell Rd.	Memphis
Tennessee	Trane Supply	601 Grassmere Park Drive	Nashville
Tennessee	Trane Supply	10390 Wallace Alley Street	Kingsport
Texas	Trane Supply	26 Walter Jones Blvd., Suite E	El Paso
Texas	Trane Supply	4905 New York Ave.	Arlington
Texas	Trane Supply	9801 Metric Blvd.	Austin
Texas	Trane Supply	2209A Rutland Dr.	Austin
Texas	Trane Supply	4401 Freidrich Lane	Austin
Texas	Trane Supply	1617 Hutton Drive	Dallas
Texas	Trane Supply	503 W. Owassa Rd.	Edinburg
Texas	Trane Supply	4200 N. Sylvania Ave.	Fort Worth
Texas	Trane Supply	10665 Sanden Dr. Suite 180	Garland
Texas	Trane Supply	8308 Upland Avenue	Lubbock
Texas	Trane Supply	115 Industrial Blvd.	McKinney
Texas	Trane Supply	5590 South Buckner Blvd. #100	Mesquite
Texas	Trane Supply	2469 Freedom Dr.	San Antonio
Texas	Trane Supply	4940 Eisenhower Rd.	San Antonio
Texas	Hunton Distribution	16335 Central Green Blvd.	Houston
Texas	Hunton Distribution	10560 Bissonnet Street Suite 100	Houston
Utah	Trane Supply	2817 South 1030 West	Salt Lake City
Virginia	Trane Supply	10404 Lakeridge Parkway	Ashland
Virginia	Trane Supply	1215 E. Market St.	Charlottesville
Virginia	Trane Supply	11205 New Albany Dr.	Fredericksburg
Virginia	Trane Supply	115 Bradley Dr.	Lynchburg
Virginia	Trane Supply	14000 Justice Rd.	Midlothian
Virginia	Trane Supply	2301 Trane Drive	Roanoke

Parts/Supply Locations			
State	Function	Address	City
Virginia	Damuth Trane	1104 Cavalier Blvd.	Chesapeake
Virginia	Damuth Trane	230 Clearfield Ave Ste 126	Virginia Beach
Virginia	Damuth Trane	507 Muller Ln.	Newport News
Washington	Trane Supply	19201 120th Ave NE	Bothell
Washington	Trane Supply	7302 26th St. E	Fife
Washington	Trane Supply	601 S. Alaska St.	Seattle
Wisconsin	Trane Supply	2500 N Lynndale Dr.	Appleton
Wisconsin	Trane Supply	4801 Voges Rd.	Madison
Wisconsin	Trane Supply	4512 W. Burnham	Milwaukee

## CUSTOMER SERVICE

- Describe Bidder’s customer service department staffing levels, hours of operation and other relevant details.

Each office has its own 24/7/365 Emergency call number. Our goal is to answer each call within 30 seconds of receipt, 90% of the time. Our goal is to respond to all emergency calls within 4 hours or less.

## ORDERING PROCESS

- Describe the process for ordering when supply of a unit and installation is involved, specifically addressing whether one purchase order is required for the entire project, or if separate purchase orders are required for ordering the product and securing installation services.

We prefer a single purchase order but will accept multiple purchase orders.

The process for receiving a PO is based upon a request (equipment, contracting, service) by a customer, an account manager will research the desired outcome from a systems perspective, suggest a solution and possible alternatives, and include a pricing scenario within a Trane proposal. Should the customer accept and sign the proposal, the order is entered and submitted to Financial Services for credit approval.

Alternatively, if the customer submits its contract/PO, utilizing pricing information provided by an account manager, an order is entered, any attached terms and conditions are reviewed by the Contract Management Department, and submitted to Financial Services for credit approval.

## ORDER MANAGEMENT

- Describe Bidder’s internal management system for processing orders from point of customer contact through delivery and billing. Please state if Bidder uses single system or platform for all phases of ordering, processing, delivery, and billing.

Trane uses an Oracle-based platform for all phases of ordering, processing, delivery, and billing.

## REPORTING

- Describe the capacity of Bidder to provide management reports, i.e., commodity histories, procurement card histories, green spend, etc. for each Participating Public Agency.

Trane can provide account procurement history including project type, dollars spent, purchase frequency and payment type. Trane does not have the ability of providing a “green spend” report format unless the project is identified as LEED during the purchase or construction phase.

## E. Bid Form Criteria

All pricing submitted using the Bid Form (Attachment C) or a document using the same requested information in the same format.

Trane response includes a product list price discount schedule identified by unit product code. Each product either manufactured or represented by Trane is identified by a unique product code and associated list price discount. Trane does not publish a "list price book" for Commercial HVAC products since product list price is project specific and is determined by unit type, size, electrical requirements, options, and warranty options. Trane's response also includes hourly labor rates, by trade type and geographic location. In addition:

- Trane will be responsible for compliance with any federal, state, or local prevailing wage laws.
- Trane's discount schedule will remain fixed for the duration of the contract, except for product obsolescence or new product introduction. Trane will request the addition of new products and services to the lead agency through a formal request, as opportunities present themselves.



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# Appendix 1

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**Addendum 1, Addendum Acknowledgement**



**ADDENDUM 1  
INVITATION FOR BID  
IFB #RC2022-1001  
HVAC PRODUCTS, INSTALLATION, LABOR BASED SOLUTIONS,  
AND RELATED PRODUCTS AND SERVICES**

This Addendum has been prepared by:

Racine County

Duane McKinney

Date: Wednesday July 6, 2022

To the Bidder of Record:

This Addendum is issued as stated in the original Invitation for Bid on page 2 in section B. to address questions received from Bidders in writing requesting clarification from Racine County on the specifications provided for the above subject bid and to correct an item in the solicitation. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided below.

Clarification

1. There is a modification included in this Addendum to correct a sentence located under Section B. Term. See below for details.

Questions and Answers

1. Question:

Attachment D – National Cooperative Contract states “The following documents are used in reviewing and administering national cooperative contracts and are included for Supplier’s review and bid.” Page 12 states: “The Successful Bidder(s) will be required to sign Attachment D – National Cooperative Contract to be Administered by OMNIA Partners, Exhibit B – Administration Agreement. Contractors should have any reviews required to sign the document prior to submitting a response.” Please confirm that the following documents are for Successful Bidder(s) and do not need be executed/signed and included with this proposal response:

- Exhibit B – Administration Agreement, Example
- Exhibit C – Master Intergovernmental Cooperative Purchasing Agreement, Example
- Exhibit D – Principal Procurement Agency Certificate, Example
- Exhibit E – Contract Sales Reporting Template
- Exhibit F – Federal Funds Certifications

- Exhibit G – New Jersey Business Compliance
- Exhibit H – Advertising Compliance Requirement

*Answer: The following documents are informational only:*

- *Exhibit C – Master Intergovernmental Cooperative Purchasing Agreement, Example*
- *Exhibit D – Principal Procurement Agency Certificate, Example*
- *Exhibit E – Contract Sales Reporting Template*
- *Exhibit H – Advertising Compliance Requirement*

*The documents below are to be completed by the Successful Bidder(s). While the documents below do not need to be submitted as part of the Bidder's initial response, it may quicken the award process if they are included:*

- *Exhibit B – Administration Agreement, Example*
- *Exhibit F – Federal Funds Certifications*
- *Exhibit G – New Jersey Business Compliance*

2. Question:

Please confirm that there is no specific Value Add requirement and no scoring associated with Value Add.

*Answer: There is no specific Value Add requirement and no scoring associated with Value Add products and/or services.*

3. Question:

Please confirm if “G.ADDITIONAL DATA WITH BID, Bidders may include any additional information deemed advantageous to Racine County” should be submitted within the main body of the Complete Bid Package or if this information needs to be submitted under separate cover in the Value Add area on Demand Star

*Answer: Yes, Bidders may include any additional information deemed advantageous to Racine County with their bid. This can be submitted either within the main body of the Complete Bid Package or as a separate cover/area in Demand Star.*

4. Question:

Please provide clarification on the Supplemental Documents/Added Value upload area and if there is any scoring associated with a separate Added Value.

*Answer: See Answers to Questions 2 and 3 above. There is no separate scoring associated with Added Value products and/or services.*

Modification

1. Page 13 - Remove the first sentence of Section B. Term and replace with the following:

Racine County  
IFB #RC2022-1001  
HVAC Products, Installation, Labor Based Solutions, and Related Products and Services

*The term of the Master Agreement will be for five (5) years following the contract award date with the option to renew for one (1) additional five (5) year period.*

The rest of this section shall remain.

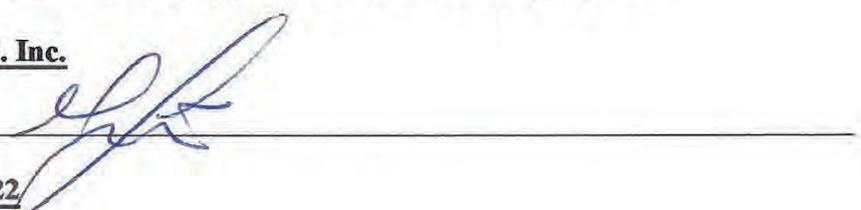
This Addendum is three (3) pages in its entirety with no additional attachments.

**Please sign, date and attach a copy of this Addendum to your bid.**

Firm: Trane U.S. Inc.

Signature: \_\_\_\_\_

Date: July 8, 2022





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# Appendix 2

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**Exhibit A, Response for National Cooperative Contract**



**Exhibit A**  
**Response for National Cooperative Contract**

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**1.0 Scope of National Cooperative Contract**

Capitalized terms not otherwise defined herein shall have the meanings given to them in the Master Agreement or in the Administration Agreement between Vendor (sometimes referred to as 'Supplier') and OMNIA Partners.

**1.1 Requirement**

Racine County, Wisconsin (hereinafter defined and referred to as "Principal Procurement Agency"), on behalf of itself and the National Intergovernmental Purchasing Alliance Company, a Delaware corporation d/b/a OMNIA Partners, Public Sector ("OMNIA Partners"), is requesting bids for HVAC Products, Installation, Labor Based Solutions, and Related Products and Services. The intent of this Invitation for Bid is any contract between Principal Procurement Agency and Vendor resulting from this Invitation for Bid ("Master Agreement") be made available to other public agencies nationally, including state and local governmental entities, public and private primary, secondary and higher education entities, non-profit entities, and agencies for the public benefit ("Public Agencies"), through OMNIA Partners' cooperative purchasing program. The Principal Procurement Agency has executed a Principal Procurement Agency Certificate with OMNIA Partners, an example of which is included as Exhibit D, and has agreed to pursue the Master Agreement. Use of the Master Agreement by any Public Agency is preceded by their registration with OMNIA Partners as a Participating Public Agency in OMNIA Partners' cooperative purchasing program. Registration with OMNIA Partners as a Participating Public Agency is accomplished by Public Agencies entering into a Master Intergovernmental Cooperative Purchasing Agreement, an example of which is attached as Exhibit C, and by using the Master Agreement, any such Participating Public Agency agrees that it is registered with OMNIA Partners, whether pursuant to the terms of the Master Intergovernmental Purchasing Cooperative Agreement or as otherwise agreed to. The terms and pricing established in the resulting Master Agreement between the Vendor and the Principal Procurement Agency will be the same as that available to Participating Public Agencies through OMNIA Partners.

All transactions, purchase orders, invoices, payments etc., will occur directly between the Vendor and each Participating Public Agency individually, and neither OMNIA Partners, any Principal Procurement Agency nor any Participating Public Agency, including their respective agents, directors, employees or representatives, shall be liable to Vendor for any acts, liabilities, damages, etc., incurred by any other Participating Public Agency. Vendor is responsible for knowing the tax laws in each

state.

This Exhibit A defines the expectations for qualifying Vendors based on OMNIA Partners' requirements to market the resulting Master Agreement nationally to Public Agencies. Each section in this Exhibit A refers to the capabilities, requirements, obligations, and prohibitions of competing Vendors on a national level in order to serve Participating Public Agencies through OMNIA Partners.

These requirements are incorporated into and are considered an integral part of this IFB. OMNIA Partners reserves the right to determine whether to make the Master Agreement awarded by the Principal Procurement Agency available to Participating Public Agencies, in its sole and absolute discretion, and any party submitting a response to this IFB acknowledges that any award by the Principal Procurement Agency does not obligate OMNIA Partners to make the Master Agreement available to Participating Procurement Agencies.

## **1.2 Marketing, Sales and Administrative Support**

During the term of the Master Agreement OMNIA Partners intends to provide marketing, sales, partnership development and administrative support for Vendor pursuant to this section that directly promotes the Vendor's products and services to Participating Public Agencies through multiple channels, each designed to promote specific products and services to Public Agencies on a national basis.

OMNIA Partners will assign the Vendor a Director of Partner Development who will serve as the main point of contact for the Vendor and will be responsible for managing the overall relationship between the Vendor and OMNIA Partners. The Director of Partner Development will work with the Vendor to develop a comprehensive strategy to promote the Master Agreement and will connect the Vendor with appropriate stakeholders within OMNIA Partners including, Sales, Marketing, Contracting, Training, and Operations & Support.

The OMNIA Partners marketing team will work in conjunction with Vendor to promote the Master Agreement to both existing Participating Public Agencies and prospective Public Agencies through channels that may include:

- A. Marketing collateral (print, electronic, email, presentations)
- B. Website
- C. Trade shows/conferences/meetings
- D. Advertising
- E. Social Media

The OMNIA Partners sales teams will work in conjunction with Vendor to promote the Master Agreement to both existing Participating Public Agencies and

prospective Public Agencies through initiatives that may include:

- A. Individual sales calls
- B. Joint sales calls
- C. Communications/customer service
- D. Training sessions for Public Agency teams
- E. Training sessions for Vendor teams

The OMNIA Partners contracting teams will work in conjunction with Vendor to promote the Master Agreement to both existing Participating Public Agencies and prospective Public Agencies through:

- A. Serving as the subject matter expert for questions regarding joint powers authority and state statutes and regulations for cooperative purchasing
- B. Training sessions for Public Agency teams
- C. Training sessions for Vendor teams
- D. Regular business reviews to monitor program success
- E. General contract administration

~~Vendors are required to pay an Administrative Fee of 3% of the greater of the Contract Sales under the Master Agreement and Guaranteed Contract Sales under this Invitation for Bid. Vendor will be required to execute the OMNIA Partners Administration Agreement (Exhibit B).~~

Trane has demonstrated its ability to deliver significant growth with a 2% administration fee and feels an increase will result in loss of business to other, lowered fee cooperative contracts.

### **1.3 Estimated Volume**

The dollar volume purchased under the Master Agreement is estimated to be approximately \$500M annually. While no minimum volume is guaranteed to Vendor, the estimated annual volume is projected based on the current annual volumes among the Principal Procurement Agency, other Participating Public Agencies that are anticipated to utilize the resulting Master Agreement to be made available to them through OMNIA Partners, and volume growth into other Public Agencies through a coordinated marketing approach between Vendor and OMNIA Partners.

### **1.4 Award Basis**

The basis of any contract award resulting from this IFB made by Principal Procurement Agency will, at OMNIA Partners' option, be the basis of award on a

national level through OMNIA Partners. If multiple Vendors are awarded by Principal Procurement Agency under the Master Agreement, those same Vendors will be required to extend the Master Agreement to Participating Public Agencies through OMNIA Partners. Utilization of the Master Agreement by Participating Public Agencies will be at the discretion of the individual Participating Public Agency. Certain terms of the Master Agreement specifically applicable to the Principal Procurement Agency (e.g., governing law) are subject to modification for each Participating Public Agency as Vendor and such Participating Public Agency may agree without being in conflict with the Master Agreement as a condition of the Participating Agency's purchase and not a modification of the Master Agreement applicable to all Participating Agencies. Participating Agencies may request to enter into a separate supplemental agreement to further define the level of service requirements over and above the minimum defined in the Master Agreement (e.g., governing law, invoice requirements, order requirements, specialized delivery, diversity requirements such as minority and woman owned businesses, historically underutilized business, etc.) ("Supplemental Agreement"). It shall be the responsibility of the Vendor to comply, when applicable, with the prevailing wage legislation in effect in the jurisdiction of the Participating Agency. It shall further be the responsibility of the Vendor to monitor the prevailing wage rates as established by the appropriate department of labor for any increase in rates during the term of the Master Agreement and adjust wage rates accordingly. In instances where supplemental terms and conditions create additional risk and cost for Vendor, Vendor and Participating Public Agency may negotiate additional pricing above and beyond the stated contract not-to-exceed pricing so long as the added price is commensurate with the additional cost incurred by the Vendor. Any supplemental agreement developed as a result of the Master Agreement is exclusively between the Participating Agency and the Vendor (Contract Sales are reported to OMNIA Partners).

All signed Supplemental Agreements and purchase orders issued and accepted by the Vendor may survive expiration or termination of the Master Agreement. Participating Agencies' purchase orders may exceed the term of the Master Agreement if the purchase order is issued prior to the expiration of the Master Agreement. Vendor is responsible for reporting all sales and paying the applicable Administrative Fee for sales that use the Master Agreement as the basis for the purchase order, even though Master Agreement may have expired.

## **1.5 Objectives of Cooperative Program**

This IFB is intended to achieve the following objectives regarding availability through OMNIA Partners' cooperative program:

- A. Provide a comprehensive competitively solicited and awarded national agreement offering the Products covered by this solicitation to Participating

- Public Agencies;
- B. Establish the Master Agreement as the Vendor's primary go to market strategy to Public Agencies nationwide;
  - C. Achieve cost savings for Vendor and Public Agencies through a single solicitation process that will reduce the Vendor's need to respond to multiple solicitations and Public Agencies need to conduct their own solicitation process;
  - D. Combine the aggregate purchasing volumes of Participating Public Agencies to achieve cost effective pricing.

## **2.0 REPRESENTATIONS AND COVENANTS**

As a condition to Vendor entering into the Master Agreement, which would be available to all Public Agencies, Vendor must make certain representations, warranties and covenants to both the Principal Procurement Agency and OMNIA Partners designed to ensure the success of the Master Agreement for all Participating Public Agencies as well as the Vendor.

### **2.1 Corporate Commitment**

Vendor commits that (1) the Master Agreement has received all necessary corporate authorizations and support of the Vendor's executive management, (2) the Master Agreement is Vendor's primary "go to market" strategy for Public Agencies, (3) the Master Agreement will be promoted to all Public Agencies, including any existing customers, and Vendor will transition existing customers, upon their request, to the Master Agreement, and (4) that the Vendor has read and agrees to the terms and conditions of the Administration Agreement with OMNIA Partners and will execute such agreement concurrent with and as a condition of its execution of the Master Agreement with the Principal Procurement Agency. Vendor will identify an executive corporate sponsor and a separate national account manager within the IFB response that will be responsible for the overall management of the Master Agreement.

### **2.2 Pricing Commitment**

Vendor commits the not-to-exceed pricing provided under the Master Agreement pricing is its lowest available (net to buyer) to Public Agencies nationwide and further commits that if a Participating Public Agency is eligible for lower pricing through a national, state, regional or local or cooperative contract, the Vendor will match such lower pricing to that Participating Public Agency under the Master Agreement.

### **2.3 Sales Commitment**

Vendor commits to aggressively market the Master Agreement as its go to market strategy in this defined sector and that its sales force will be trained, engaged and committed to offering the Master Agreement to Public Agencies through OMNIA Partners nationwide. Vendor commits that all Master Agreement sales will be accurately and timely reported to OMNIA Partners in accordance with the OMNIA Partners Administration Agreement. Vendor also commits its sales force will be compensated, including sales incentives, for sales to Public Agencies under the Master Agreement in a consistent or better manner compared to sales to Public Agencies if the Vendor were not awarded the Master Agreement.

### **3.0 VENDOR BID**

Vendor must supply the following information for the Principal Procurement Agency to determine if Vendor is qualified and responsible to extend the resulting Master Agreement to Participating Public Agencies through OMNIA Partners.

#### **3.1 Company**

- A. Brief history and description of Vendor to include experience providing similar products and services.

Trane U.S. Inc. (Trane), a wholly owned subsidiary of Trane Technologies (NYSE: TT), provides systems and services that enhance and leverage the infrastructure of our clients to provide quality, comfort, strong financial impacts, and sustainable outcomes of buildings around the world. Trane's 100-year history as a trusted provider of superior products and services has resulted in a global network of project offices and service/parts locations.

Trane began in 1885 as a family plumbing business in La Crosse, Wisconsin and became the Trane Company in 1913. Over the next hundred years, Trane established its position as a pioneer in climate control. In 1931, the company patented its first air conditioner. Seven years later, Trane launched Turbovac, a new type of water chiller that fundamentally altered the industry's approach to large-building air conditioning systems. These early innovations paved the way for Trane's industry-leading commercial air conditioner, CenTraVac™—the highest efficiency, lowest emissions, most reliable chiller on the market. Throughout the second half of the Twentieth century, Trane expanded its offerings to customers. With the acquisition of Sentinel Electronics in the late 1970s, and General Electric's Central Air Conditioning Division in 1982, Trane expanded both its residential and energy management offerings and entered the building automation system market. In 1984, American Standard Companies, Inc., acquired the Trane Company, and four years later, launched the American Standard Heating & Air Conditioning Brand. Throughout the 1990s and early 2000s, the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED®) building rating program grew—which

influenced building, system, and product design. In addition, control system integration and capabilities increased due to ASHRAE Standard requirements as well as the desire to reduce system energy use.

Trane became a qualified U.S. Department of Energy ESCO in 1999. Since that time, Trane has managed energy services performance contracting (ESPC) programs for federal government agencies, including the Department of Energy, Department of State, Navy, Army, Air Force, and the General Services Administration. Trane's Federal ESPC portfolio includes \$641 million in DOE ESPC projects. In 2004, Trane became a NAESCO Accredited Energy Service Provider. By 2007, annual air conditioning sales and services topped \$7.4 billion. Trane, Inc., became a public entity after American Standard Companies divested other portions of its business. In December 2007, it was announced that Trane would merge with Ingersoll Rand. The merger became final in June of 2008. System and product investment and introduction continued during this time as the company again responded to customer and standard requirements, as well as the impact of the sustainability movement. Trane's Renewable and Resilient Energy and Power Systems Team focused on developing Smart Grid, Solar Power, Wind Power, and Generator capabilities. In 2013, Trane launched a series of commercial products that reduce carbon emissions by 99.9%. After completing a successful Reverse Morris Trust Transaction with former parent company Ingersoll Rand in March 2020, Trane Technologies and is now listed on the New York Stock Exchange.

### **Trane's History with Cooperative Contracting**

Trane has been participating in regional and national public sector cooperative purchasing contracts since 1998. Originally managed through the Hunton Trane office, the first contract was awarded from TCPN (Texas Cooperative Purchasing Network) and ESC Region 4 and lasted until 2002. At that time, Trane U.S. was awarded a second contract from TCPN and ESC Region 4. These contracts were awarded based on best value and included all the products and services available from the Company at that time. Beginning in 2005, Trane was awarded our third contract from TCPN (Contract R4668) and was in effect thru 2010. Beginning in 2010, Trane was awarded our fourth contract from TCPN (R5045) which ran a total of 7 years in duration. Finally, in 2015, Trane was given another contract under TCPN (R150502) which lasted until 2019. For over 20 years, Trane was a vendor in good standing with TCPN and provided exceptional value and services to agencies piggybacking onto the contracts.

In 2015, Trane also began a relations with Harford County Public Schools and U.S. Communities with the award of 15-JLP-023. This contract ran in parallel with the TCPN award but was deemed the primary contract for use in North America. This contract was applicable in all 50 states and pertained to both the Company owned and independent commercial franchise offices. This

contract was fully executed thru it's 7-year potential plus an additional 6 months. In this time, Trane has seen exceptional year over year growth, delivering value to agencies utilizing the contract.

Trane was also awarded and Energy Services Contract from the Port of Portland and U.S. Communities. This contract, #1153, was initially awarded in 2017 and will run through 2023. At that time, the Port of Portland has the option to extend this contract for an additional five-years. Under this contract, agencies have the ability to secure Energy Services or Performance Contracting from Trane, improving their facility operational costs and savings.

Trane has demonstrated our ability to perform in the public sector markets using public procurement contracts similar to this RFP. We are anxious to help agencies achieve the same results utilizing the contract under Racine County.

- B. Total number and location of salespersons and/or project managers employed by Vendor to help support Participating Public Agencies. See table below.
- C. Number and location of support centers (if applicable) and location of corporate office.  
Trane's Corporate Office is located at 800-E Beaty Street, Davidson, NC 28036. See table below for support center numbers/locations.

Trane Region/ Franchise	Salesperson s	Project Managers	Number of Support Centers	
			Project/Sales Offices	Trane Supply Stores
Florida Region	106	38	8	19
Great Lakes Region	119	43	11	18
Greater Northeast Region	185	51	14	22
Kentucky/Indiana Region	29	23	3	6
Mid-America Region	117	51	11	14
Mid-Atlantic Region	92	30	6	10
Pacific NW/Rocky Mtn Region	86	31	10	12
Pacific SW/AZ/HI	116	43	11	18
Southeast Region	179	55	15	24
Southern Atlantic Region	113	53	10	17
Texas/N LA Region	120	40	8	14
Upper Midwest Region	91	27	7	16
Armacost Trane Franchise, MT	4	1	2	2
Boland Trane Franchise, MD	50	13	2	2
Brady Trane Franchise, NC	41	12	3	6

Damuth Trane Franchise, VA	24	15	1	3
Hunton Trane Franchise, Houston, TX	87		4	1
Pacific Coast Trane Franchise, CA	28	4	2	1
Seiberlich Trane Franchise, DE	11	10	3	1

D. Annual sales for the three previous fiscal years.

2019: \$4.414B

2020: \$4.408B

2021: \$4.722B

a. Submit FEIN and Dunn & Bradstreet report.

Trane U.S. Inc. FEIN number is 25-0900465. A Dunn & Bradstreet report is provided as Attachment A.

E. Describe any green or environmental initiatives or policies. Trane’s Gigaton challenge, LEED buildings, etc.

**The Gigaton Challenge** is Trane’s commitment to eliminate one billion metric tons of CO<sub>2</sub>e from our customers’ footprint by 2030. We lead by example and are committed to carbon-neutral operations and zero waste to landfills by 2030 and pledging to give back more water than used in water-stressed areas. Trane achieved our first set of science-based targets in 2018—two years early—and set bold new commitments for 2030. Our emissions reduction commitments align with the Paris Climate Accord net-zero targets consistent with limiting global temperature rise to no more than 1.5°C.

**Energy Star Certification** Trane’s team includes a wide range of support services that help our customers project energy savings and sustainability successes. Our customers have access to Trane’s internal resources for marketing, website development, living learning labs, energy accreditation programs, and grant or report preparation.

- **Marketing & Promotion of Energy Programs:** Trane has dedicated Public Relations resources to support our customer projects with press releases, media outreach, awards, and speaking engagements.
- **Application for an ENERGY STAR Label & LEED Certification:** Trane is actively involved with the Energy Star initiative and has helped customers achieve Energy Star status for their facilities. Trane also supports LEED initiatives and employs over 1,100 LEED Accredited Professionals companywide.
- **Calculation & Reporting of Emissions Reductions:** TRACE™® 700

software provides energy modeling of facilities, including an Environmental Impact Analysis designating CO<sub>2</sub>, SO<sub>2</sub>, and NO<sub>x</sub> impact on the environment. Active monitoring through TIS offerings will allow Trane to identify potential operational adjustments or new energy savings opportunities.

### **Trane's LEED Certified Facilities**

Trane has been involved in hundreds of projects to help clients with LEED certification. Our corporate sustainability commitment has led us to LEED certification standards at several of our sites around the world.

- Trane San Antonio District Office, San Antonio, TX – LEED CI 2.0 (Silver)
- Trane Taicang Facility Building, Taicang, China – LEED NC 2.2 (Certified)
- Trane Taicang Office Building, Taicang, China – LEED NC 2.2 (Gold)
- Tozour Trane, King of Prussia, PA – LEED CI v2009 (Certified)
- Trane Arkansas Sales Suite, Little Rock, AR – LEED CI 2.0 (Certified)
- Trane 45 Earhart Drive, Buffalo, NY – LEED EB O&M (Certified)
- Trane St. Paul, St. Paul, MN – LEED EB O&M (Gold)

- F. Describe any diversity programs or partners Vendor does business with and how Participating Agencies may use diverse partners through the Master Agreement. Indicate how, if at all, pricing changes when using the diversity program. If there are any diversity programs, provide a list of diversity alliances and a copy of their certifications.

Diversity is a business imperative at Trane and ingrained in our core values. Trane's corporate-level Supplier Diversity Program includes qualified diverse-owned businesses includes both large and small minority, woman, veteran, disabled, gay, lesbian, bisexual, and transgender owned businesses. At the local level, Trane has implemented a New England United (NEU) Diversity and Inclusion (D&I) network for Trane employees to participate in and help drive change in and outside of the company. All team members proposed for this project participate in these programs. Trane's M/WBE outreach efforts include:

- Contacting M/WBE small business trade associations/business development organizations and using the Small Business Administration's (SBA) website to identify potential partners
- Attending local, regional, and national small and minority business trade shows, Industry Days, and procurement conferences.
- Requesting sources from the System for Award Management ([www.sam.gov](http://www.sam.gov)) Dynamic Small Business Search.
- Documenting flow-down requirements to all subcontractors for small businesses utilization to maximize participation when practical
- Pledged commitment to inclusive sourcing through WEConnect International

G. Indicate if Vendor holds any of the below certifications in any classified areas and include proof of such certification in the response:

a. Minority Women Business Enterprise

Yes  No

If yes, list certifying agency: \_\_\_\_\_

b. Small Business Enterprise (SBE) or Disadvantaged Business Enterprise (DBE)

Yes  No

If yes, list certifying agency: \_\_\_\_\_

c. Historically Underutilized Business (HUB)

Yes  No

If yes, list certifying agency: \_\_\_\_\_

d. Historically Underutilized Business Zone Enterprise (HUBZone)

Yes  No

If yes, list certifying agency: \_\_\_\_\_

e. Other recognized diversity certificate holder

Yes  No

If yes, list certifying agency: \_\_\_\_\_

H. List any relationships with subcontractors or affiliates intended to be used when providing services and identify if subcontractors meet minority-owned standards. If any, list which certifications subcontractors hold and certifying agency.

Trane will work directly with public agencies, as required, to determine the diversity spend required for each purchase. Once established, Trane will partner with agency approved local sub-contractors and ensure diversity requirements are met. Trane will report diversity spend as required. At the project level, Trane does the following to promote Small Business Participation:

- Trane will break out contract work requirements into economically feasible units, as appropriate, to facilitate small business participation.
- Trane will conduct market research to identify subcontractors and suppliers through all reasonable means, such as performing online searches on the certified lists and holding pre-bid conferences.
- Trane will provide interested businesses with adequate and timely information about the plans, specifications, and requirements for performance of the prime contract to assist them in submitting a timely offer for the subcontract.
- Trane will direct businesses that need additional assistance to various state and county programs which assists in obtaining bonding, lines of credit, required insurance, necessary equipment, supplies, materials, or

services.

- Trane will solicit small business concerns as early in the acquisition process as practicable to allow them sufficient time to submit a timely offer for the subcontract.
- Trane will utilize the available services of small business associations; local, state, and federal small business assistance offices, and other organizations to encourage small business entities to certify and register with the state and local governments.
- Trane will participate in the formal mentor-protégé program with one or more small business protégés that results in developmental assistance to the protégé(s).
- Trane will advertise subcontracting opportunities in local newspapers.
- Trane will advertise subcontracting opportunities by sending emails to small business concerns local to that particular jobsite.
- Trane will keep the playing field level, allowing all bidders reasonable time to respond and providing the same information to all prospective subcontractors.

I. Describe how Vendor differentiates itself from its competitors.

Trane's experience with cooperative contracting began in 1998 with the Region 4 ESC (Formerly TCPN) contract. In 2015, we were selected to provide products/services under the Harford County Public Schools and U.S. Communities Contract (15-JLP-023) and have executed work under this contract through the seven-year term plus an additional six months. In 2017, Trane secured the Port of Portland and U.S. Communities Contract. Trane® has been a qualified DOE ESCO since 1999 and has completed complex Energy Savings Performance Contracts (ESPC) for the Federal Government. An ESPC is a proven, cash flow neutral financing mechanism that pays for facility improvements that can be paid back over time based on future utility bill saving. Trane's Core Products – HVAC Equipment and Controls – drive one-third of total ESPC savings. Trane's incident (OSHA) rates are consistently 67-86% below the industry average and our current Experience Modification Rate (EMR) is 0.61. Trane has leveraged this experience to deliver dozens of ESPC projects under the Port of Portland contract.

Trane has the capacity to provide a wide range of services and products to support agencies across the country. Our 100-year history as a trusted provider of superior products and services and has resulted in a robust national infrastructure. Our project offices are staffed with factory-trained service technicians that provide operational oversight, O&M, service-repair, and installation support. Trane stocks service-repair parts (over 20,000 SKUs per location), equipment, and supplies right in our customer's communities. We also have established relationships with local designers, suppliers, and subcontractors—including small/disadvantaged businesses. Trane has booked

\$1.4B+under our Harford and Port of Portland OMNIA contracts since 2018 and has delivered services and products in 43 states.

Trane has a global network of offices and service/parts locations to deliver services. This offers the following advantages:

- Robust supply chain to sustain operations and rapidly restore service during emergencies
- 2,750 community-based, factory-trained service technicians provide local operational oversight, O&M, service-repair, and installation support
- Established relationships with local designers, suppliers, and subcontractors—including small/disadvantaged businesses
- Reduced travel and lodging costs to save agencies and taxpayers money

As one of the world's largest manufacturers/integrators of energy efficient HVAC equipment and Building Automation Systems (BAS)/Energy Management Control Systems (EMCS), Trane has the technical expertise to optimize energy efficiency, peak demand, and renewable power generation in public facilities. We build, test, certify, implement, and service best-in-class equipment with optimized full and part-load efficiency.

Trane is also a vendor neutral company, and we manage, install, commission, and service other manufacturer's systems. Trane provides BAS/EMCS system integration through both open (i.e. BACnet, LON, Modbus) and proprietary control protocols. We leverage our controls expertise to connect the resilient systems that modern sites rely on.

Trane® has been a qualified DOE ESCO since 1999 and [has completed complex Energy Savings Performance Contracts for the Federal Government](#). Through these efforts, we have developed repeatable, best practice processes. In addition, Trane's Core Products – HVAC Equipment and Controls – drive one-third of total ESPC savings<sup>1</sup>

- J. Describe any present or past litigation, bankruptcy or reorganization involving Vendor.

Trane U.S. Inc. is a multi-billion-dollar company and enters hundreds of transactions on an annual basis and, as such, become involved in claims and disputes that arise in the ordinary course of its businesses. As a large company, claims and suits are numerous as many claimants are hoping to tap the deep pockets of a large company. Many of these are unwarranted claims which often result in dismissal. Company-wide compiled data of this scope is not readily

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<sup>1</sup> Data extrapolated from: Slattery, T. (2017). Reported Energy and Cost Savings from the Federal DOE ESPC Program: FY 2015 (ORNL/TM -2017/18).

available, and this information cannot be accurately ascertained without extensive and burdensome research. It is the policy of our company to settle claims and disputes amicably and to the satisfaction of our customers. Due to the large volume and because information related to settlements are confidential, we are unable to disclose detailed information on all litigation and claim matters. However, no such dispute or litigation is likely or expected to adversely affect Trane U.S. Inc.'s ability to perform hereunder. Trane has not been involved in a bankruptcy. Trane U.S. Inc. was recently re-formed due to reorganization under Trane Technologies, a \$14B company. Although originally established in 1929, our new date of incorporation is May 1, 2020, in Delaware.

- K. Felony Conviction Notice: Indicate if the Vendor
- a. ~~is a publicly held corporation and this reporting requirement is not applicable;~~
  - b. is not owned or operated by anyone who has been convicted of a felony; or
  - c. ~~is owned or operated by and individual(s) who has been convicted of a felony and provide the names and convictions.~~
- L. Describe any debarment or suspension actions taken against Vendor  
Not applicable

### 3.2 Distribution, Logistics

- A. Each offeror awarded under this IFB may offer their complete product and service offering/a balance of line. Describe the full line of products and services offered by Vendor.
- See the "Product Information Matrix" for the full line of products and services offered by Trane.
- B. Describe how Participating Agencies are ensured they will receive the Master Agreement pricing; include all distribution channels such as direct ordering, retail or in-store locations, through distributors, etc. Describe how Participating Agencies verify and audit pricing to ensure its compliance with the Master Agreement.
- Trane's regional sales representatives are located in our 124 Project/Sales offices across the country. Trane has pricing forms that are used for OMNIA projects and support the Master Agreement. We will provide pricing validation forms to verify pricing upon request.
- C. Identify all other companies that will be involved in processing, handling or shipping the products/service to the end user.
- Trane utilizes multiple carriers/modes across North America (and beyond) in the process of moving product from our plants and warehouses/distribution centers to our customers. We partner with carriers who meet our requirements and/or industry standards for quality and service performance.

Carrier specifics vary by mode, origin/destination points, and customer requirements.

- D. Provide the number, size and location of Vendor's distribution or other operations facilities, warehouses, and/or retail network as applicable.

Trane services products from our 124 sales/project offices and distributes through our 205 parts/supply locations, 6 express warehouses, and 11 manufacturing plant sites.

### 3.3 Marketing and Sales

- A. Provide a detailed ninety-day plan beginning from award date of the Master Agreement describing the strategy to immediately implement the Master Agreement as Vendor's primary go to market strategy for Public Agencies to Vendor's teams nationwide, to include, but not limited to:

- i. Executive leadership endorsement and sponsorship of the award as the public sector go-to-market strategy within first 10 days
- ii. Training and education of Vendor's national sales force with participation from the Vendor's executive leadership, along with the OMNIA Partners team within first 90 days

The Trane offices have been associated with a national cooperative since it's inception and are intimately involved with a contract that encompasses HVAC equipment and services. Trane has a Cooperative Contracting Team dedicated to Sales and Marketing. This team drives marketing and sales messaging throughout North America and Canada and educates our sales teams with cooperative purchasing positioning. Our detailed plan for the first 90 days includes:

- Announcement in our quarterly Omnia newsletter, which is distributed to over 750 Trane employees and affiliates.
- Announcement on the Trane Commercial internal portal
- We will add information to the Trane Technologies Omnia Hub page where we place important documentation such as due diligence items, pricing, Power Points, contract award letters, newsletters and any pertinent information relevant to the topic.
- Our Omnia program managers will meet with individual sales offices, helping them to understand cooperative markets, targeted sales strategies and presenting the Trane story to the marketplace.
- Conduct regional workshops designed to promote the cooperative contracts, legal statutes, product and services pricing methodology, marketing tools and other topics designed to promote the contract(s). All training will be recorded and posted on our intranet site. The training will focus on educating our sales force on what types of customers can use the contract, the benefits of the contract to Trane and the customer, pricing,

and will ensure our sales teams are educated on how to drive sales in compliance with OMNIA Partners rules.

- One-on-one office visits

B. Provide a detailed ninety-day plan beginning from award date of the Master Agreement describing the strategy to market the Master Agreement to current Participating Public Agencies, existing Public Agency customers of Vendor, as well as to prospective Public Agencies nationwide immediately upon award, to include, but not limited to:

- i. Creation and distribution of a co-branded press release to trade publications
- ii. Announcement, Master Agreement details and contact information published on the Vendor's website within first 90 days
- iii. Design, publication and distribution of co-branded marketing materials within first 90 days
- iv. Commitment to attendance and participation with OMNIA Partners at national (i.e. NIGP Annual Forum, NPI Conference, etc.), regional (i.e. Regional NIGP Chapter Meetings, Regional Cooperative Summits, etc.) and supplier-specific trade shows, conferences and meetings throughout the term of the Master Agreement
- v. Commitment to attend, exhibit and participate at the NIGP Annual Forum in an area reserved by OMNIA Partners for partner Vendors. Booth space will be purchased and staffed by Vendor. In addition, Vendor commits to provide reasonable assistance to the overall promotion and marketing efforts for the NIGP Annual Forum, as directed by OMNIA Partners.
- vi. Design and publication of national and regional advertising in trade publications throughout the term of the Master Agreement
- vii. Ongoing marketing and promotion of the Master Agreement throughout its term (case studies, collateral pieces, presentations, promotions, etc.)
- viii. Dedicated OMNIA Partners internet web-based homepage on Vendor's website with:
  - OMNIA Partners standard logo;
  - Copy of original Invitation to Bid;
  - Copy of Master Agreement and amendments between Principal Procurement Agency and Vendor;
  - Summary of Products and pricing;
  - Marketing Materials
  - Electronic link to OMNIA Partners' website including the online

registration page;

- A dedicated toll-free number and email address for OMNIA Partners

Trane will partner with OMNIA Partners to ensure Participating Agencies and our customers are aware of the awarded contract through multiple marketing and communication campaigns. Trane's 90 plan to market the Master Agreement to participating public agencies will include:

- An email to over 80,000 direct customer contacts that receive Trane E-mail communications
- A co-branded press release within first 30 days-this would be both internal to Trane and sent to national publications and targeted industry publications
- Announcement of award through all applicable social media sites; these include Trane's Facebook presence, Trane Twitter presence and Trane's LinkedIn presence
- Direct mail campaigns
- Co-branded collateral pieces
- Advertisement of contract in regional or national publications
- Participation in trade shows
- Dedicated Omnia internet web-based homepage with:
  - Omnia Logo
  - Link to Omnia website
  - Summary of contract and services offered
  - Due Diligence Documents including a copy of solicitation, copy of contract and any amendments, marketing materials

Co-developing a case study and pursue article placements with key publications

- C. Describe how Vendor will transition any existing Public Agency customers' accounts to the Master Agreement available nationally through OMNIA Partners. Include a list of current cooperative contracts (regional and national) Vendor holds and describe how the Master Agreement will be positioned among the other cooperative agreements.

Trane uses the software application Salesforce to manage sales pursuit. For every customer that is eligible for OMNIA Partners pricing, we will notate the eligibility in Salesforce. Upon renewal of existing services, the account owner is then able to offer OMNIA Partners pricing to the customer, except in cases where the customer decides to put the job up for bid. Trane intends to position OMNIA Partners as a top tier cooperative partner.

- D. Acknowledge Vendor agrees to provide its logo(s) to OMNIA Partners and

agrees to provide permission for reproduction of such logo in marketing communications and promotions. Acknowledge that use of OMNIA Partners logo will require permission for reproduction, as well.

Trane will provide its logo to OMNIA Partners and agrees to permit reproduction of the logo in marketing communications and promotions. We understand that use of the OMNIA Partners logo requires permission for reproduction.

- E. Confirm Vendor will be proactive in direct sales of Vendor's goods and services to Public Agencies nationwide and the timely follow up to leads established by OMNIA Partners. All sales materials are to use the OMNIA Partners logo. At a minimum, the Vendor's sales initiatives should communicate:
- i. Master Agreement was competitively solicited and publicly awarded by a Principal Procurement Agency
  - ii. Best government pricing
  - iii. No cost to participate
  - iv. Non-exclusive

As stated in our marketing plan, Trane can confirm these requirements will be met.

- F. Confirm Vendor will train its national sales force on the Master Agreement. At a minimum, sales training should include:
- i. Key features of Master Agreement
  - ii. Working knowledge of the solicitation process
  - iii. Awareness of the range of Public Agencies that can utilize the Master Agreement through OMNIA Partners
  - iv. Knowledge of benefits of the use of cooperative contracts

As stated in our marketing plan, Trane can confirm these requirements will be met.

- G. Provide the name, title, email and phone number for the person(s), who will be responsible for:
- i. Executive Support:  
Greg Spencer, gsspencer@trane.com, 469-442-6055
  - ii. Marketing:  
Greg Spencer, gsspencer@trane.com, 469-442-6055
  - iii. Sales:  
Greg Spencer, gsspencer@trane.com, 469-442-6055

- iv. Sales Support:  
Chris Teller, cteller@trane.com, 917-440-2808  
Jeremy Lee, Jeremy.lee@trane.com, 913-599-4664  
Tina Bossen, tina.bossen@trane.com, 480-490-4502
- v. Financial Reporting:  
Amanda Dawson, Amanda.dawson@trane.com, 832-551-7999
- vi. Accounts Payable:  
Amanda Dawson, Amanda.dawson@trane.com, 832-551-7999
- vii. Contracts:  
Greg Spencer, gsspencer@trane.com, 469-442-6055

H. Describe in detail how Vendor's national sales force personnel and/or project managers are structured, including contact information for the highest-level executive in charge of the sales and/or project management team. Trane has a dedicated Strategic Programs team that drives the use of cooperatives for sales. Leading the group is Aaron Tanck, Director of Strategic Programs. Aaron oversees Greg Spencer, our Cooperative Program Manager. Aaron reports to Amber Mulligan, Vice President, Strategic Sales, who is the highest-level executive in charge of sales for Cooperative contracts. Amber.Mulligan@tranetechnologies, 910-233 -3594.

I. Explain in detail how the sales or project management teams will work with the OMNIA Partners team to implement, grow and service the national program. Trane's Cooperatives team is dedicated to drives sales through our cooperative agreements. This team anticipates working with OMNIA Partners to promote the contract vehicle and provide efficient public service to our customers across the U.S. While we expect to do the majority of the marketing work through our marketing and sales departments, we hope OMNIA Partners can assist with launching our internal training program and occasionally fielding questions from our field teams as they are trained and mobilized. We also hope OMNIA Partners will be able to support us with new opportunities, such as new member sign-up and answering compliance questions.

I. Explain in detail how Vendor will manage the overall national program throughout the term of the Master Agreement, including ongoing coordination of marketing and sales efforts, timely new Participating Public Agency account set-up, timely contract administration, etc.contract administration, etc.

Our OMNIA Partners marketing plan includes a coordinated effort between Trane and OMNIA Partners. We will continue to market the OMNIA Partners program both internally and externally via training, corporate SharePoint site, customer meetings, marketing materials, and tradeshow. All marketing materials will be available in hard copy and electronic format. Our Strategic

Program Leader, Greg Spencer, will continue to oversee the program, driving growth throughout the term of the Master Agreement.

- J. State the amount of Vendor’s Public Agency sales for the previous fiscal year. Provide a list of Vendor’s top 3 Public Agency customers, the total purchases for each for the previous fiscal year along with a key contact for each.

Trane’s Public Agency sales under the OMNIA agreement for 2021 was \$368.4M. Our top three Public Agency customers/total bookings for 2021 are as follows:

<b>Customer Name</b>	<b>Total Bookings for 2021</b>	<b>Key Contact</b>
Roanoke City Public Schools	\$20,601,056.80	Jeff Shawver – Chief of Physical Plants Phone: 540-853-6306
Berwick Area School District	\$20,300,560.00	Brent Crispell – Director of Building and Grounds
Hall County Board of Commissioners	\$9,696,634.20	Phone: 570-759-6400
Suffolk Public Schools	\$7,052,958.50	Brett Jockell – Superintendent and Director

- K. Describe Vendor’s information systems capabilities and limitations regarding order management through receipt of payment, including description of multiple platforms that may be used for any of these functions.

Trane account managers use Trane Select Assist (previously known as TOPSS) to quote and provide technical information for equipment sales. Additionally, our greater sales organization uses multiple Oracle based internal programs to facilitate contracting, equipment (both OEM Trane and buysell), service, controls, and parts orders. Trane maintains a customer focused approach with Salesforce.

- L. Provide the Contract Sales (as defined in Section 12 of the OMNIA Partners Administration Agreement) that Vendor ~~will guarantee~~ projects each year under the Master Agreement for the initial three years of the Master Agreement (“Guaranteed Contract Sales”).

Trane projects, but does not guarantee, OMNIA contract sales during the first three years to be:  
\$50M in year one (2022)

\$200M in year two (2023)

\$300M in year three (2024)

To the extent Vendor guarantees minimum Contract Sales, the Administrative Fee shall be calculated based on the greater of the actual Contract Sales and the Guaranteed Contract Sales.

Current supply chain environments will have an impact on these projections in addition to inflationary pressures, funding mechanisms, etc.

M. Even though it is anticipated many Public Agencies will be able to utilize the Master Agreement without further formal solicitation, there may be circumstances where Public Agencies will issue their own solicitations. The following options are available when responding to a solicitation for Products covered under the Master Agreement.

- i. Respond with Master Agreement pricing (Contract Sales reported to OMNIA Partners).
- ii. If competitive conditions require pricing lower than the standard Master Agreement not-to-exceed pricing, Vendor may respond with lower pricing through the Master Agreement. If Vendor is awarded the contract, the sales are reported as Contract Sales to OMNIA Partners under the Master Agreement.
- iii. Respond with pricing higher than Master Agreement only in the unlikely event that the Public Agency refuses to utilize Master Agreement (Contract Sales are not reported to OMNIA Partners).
- iv. If alternative or multiple bid and/or proposals are permitted, respond with pricing higher than Master Agreement, and include Master Agreement as the alternate or additional bid/proposal.

Detail Vendor's strategies under these options when responding to a solicitation.

Trane, Inc. U.S. continues to offer competitive pricing to the public sector per the cooperative contract guidelines. Currently, these pertain to the Harford County Public Schools Contract 15-JLP-023 and the Port of Portland contract # 1153. Trane has established a strict process to assure agencies receive the correct pricing for the specific contract. This begins with assigning a specific cooperative quote number that identifies the agency as well as project being addressed. The process then dictates that the pricing follow strict contract guidelines including list price discounts for equipment, set hourly rates by trade for labor solutions and fixed mark-up guidelines for non-Trane materials being furnished to meet the project's scope. A combination of these assure that the agency is being provided the correct price for the specified scope of work.



**TRANE**<sup>®</sup>

TRANE  
TECHNOLOGIES

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# Exhibit A

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**Dun and Bradstreet Report**

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LIVE REPORT

**TRANE U.S. INC.**

Tradestyle(s):(SUBSIDIARY OF TRANE INC., PISCATAWAY, NJ) 1

**ACTIVE** **HEADQUARTERS**

**D-U-N-S Number:** 00-134-4621  
**Phone:** +1 704 655 4000

**Address:** 800-e Beaty St, Davidson, NC, 28036, United States Of America  
**Web:** [www.trane.com](http://www.trane.com)  
**Endorsement:** Kevin.Celestine@tranetechnologies.com  
**Exclude from Portfolio Insight:**

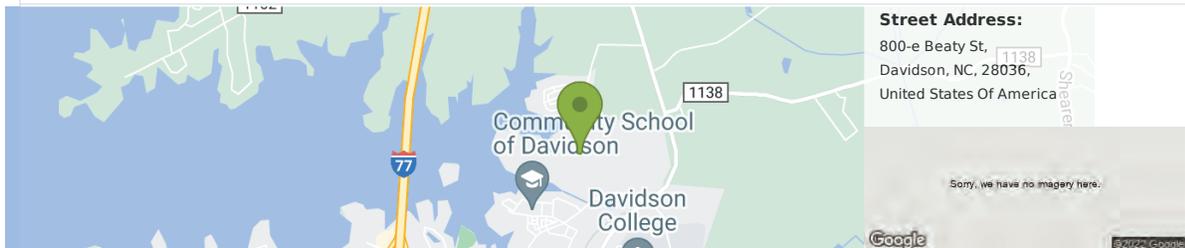
Summary

KEY DATA ELEMENTS (Formerly: SCORE BAR)

KDE Name	Current Status	Details
PAYDEX®	71	14 days beyond terms
Delinquency Score	60	Moderate Risk of severe payment delinquency.
Failure Score	2	Moderate to High Risk of severe financial stress.
D&B Viability Rating	4 5 B Z	View More Details
Bankruptcy Found	N	
D&B Rating	--	Unavailable.

COMPANY PROFILE ⓘ

<b>D-U-N-S</b> 00-134-4621	<b>Mailing Address</b> PO Box 6820 Piscataway, NJ, 08855, UNITED STATES	<b>Employees</b> 6,500
<b>Legal Form</b> Corporation (US)	<b>Telephone</b> +1 704 655 4000	<b>Age (Year Started)</b> 93 Years (1929)
<b>History Record</b> Clear	<b>Website</b> <a href="http://www.trane.com">www.trane.com</a>	<b>Named Principal</b> Dave Regnery, CEO
<b>Date Incorporated</b> 03/26/1929	<b>Present Control Succeeded</b> 1929	<b>Line of Business</b> Mfg refrigeration/heating equipment
<b>State of Incorporation</b> DELAWARE		<b>SIC</b> 35850101
<b>Ownership</b> Not publicly traded		<b>NAICS</b> 333415



OVERALL BUSINESS RISK ⓘ

**Dun & Bradstreet thinks...**



Overall assessment of this organization over the next 12 months:	Some-Financial-Stress-Concerns
Based on the predicted risk of business discontinuation:	Moderately-Higher-Than-Average-Risk-Of-Financial-Stress
Based on the predicted risk of severely delinquent payments:	Moderate Potential For Severely Delinquent Payments

**D&B MAX CREDIT RECOMMENDATION**

**MAXIMUM CREDIT RECOMMENDATION**

**US\$ 2,000,000**

The recommended limit is based on a moderately high probability of severe delinquency or business failure.

**FAILURE SCORE** (Formerly Financial Stress Score)

**Company's Risk Level**

MODERATE-HIGH

**Probability of failure over the next 12 months**

2.29 %



**Past 12 Months**

Low Risk

High Risk

**DELINQUENCY SCORE** (Formerly Commercial Credit Score)

**Company's Risk Level**

MODERATE

**Probability of delinquency over the next 12 months**

4.75 %



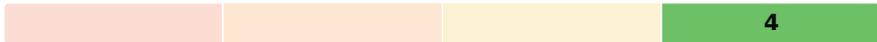
**Past 12 Months**

Low Risk

High Risk

**VIABILITY RATING SUMMARY**

**Viability Score**



High Risk (9)

Low Risk (1)

**Data Depth Indicator**



Descriptive (G)

Predictive (A)

**Portfolio Comparison**



High Risk (9)

Low Risk (1)

Financial Data

Unavailable

Trade Payments  
Company Size  
Years in Business

D&B PAYDEX® ⓘ



14 days beyond terms

Past 24 Months

Low Risk

High Risk

D&B PAYDEX - 3 MONTHS ⓘ



19 days beyond terms

PAYDEX® TREND CHART ⓘ

△ This Company    ▭ Industry Benchmark

SBRI ORIGINATION

SBRI Origination Card Score



SBRI Origination Lease Score



SBRI Origination Loan Score



D&B SBFE SCORE



No D&B SBFE Score data is currently available.

D&B RATING ⓘ

Special Rating

-- : Undetermined

Current Rating as of 11/05/2009

#### FRAUD RISK SCORE INFORMATION



No Fraud Risk Score is Available

#### LEGAL EVENTS

Events	Occurrences	Last Filed
Bankruptcies	0	-
Judgements	1	10/27/2017
Liens	10	10/24/2020
Suits	7	03/16/2020
UCC	421	02/07/2022

#### DETAILED TRADE RISK INSIGHT™

Days Beyond Terms  
7 Days

3 Months  
From Apr-22 to Jun-22



**Days Beyond Terms Past 3 months : 7**

Low Risk:0 ; High Risk:120+

Dollar-weighted average of 353 payment experiences reported from 117 companies.

#### DETAILED TRADE RISK INSIGHT™ 13 MONTH TREND

**Total Amount Current and Past Due -**

#### FINANCIAL OVERVIEW - BALANCE SHEET



No Data Available

#### TRADE PAYMENTS

**Highest Past Due:**

700,000

**Highest Now  
Owing**  
4,000,000

**Total Trade  
Experiences**  
715

**Largest High  
Credit**  
8,000,000

## FINANCIAL OVERVIEW - PROFIT AND LOSS



No Data Available

## OWNERSHIP

Subsidiaries  
**11**

Branches  
**276**

Total Members  
**888**

This company is a Headquarters, Parent, Subsidiary.

	Domestic Ultimate	Global Ultimate
Name	INGERSOLL-RAND US TRANE HOLDINGS CORPORATION	TRANE TECHNOLOGIES PUBLIC LIMITED COMPANY
Country	UNITED STATES	IRELAND
D-U-N-S	96-330-6712	98-503-3590
Others	-	-

## FINANCIAL OVERVIEW - KEY BUSINESS RATIOS



No Data Available

## ALERTS



There are no alerts for this D-U-N-S Number.

## WEB & SOCIAL POWERED BY FIRSTRAIN



No Data Available

## NOTES

Add Note



No notes is available for this D-U-N-S Number.

## COUNTRY/REGIONAL INSIGHT



### United States Of America

Consecutive hikes in the Fed Funds Rate through end-2022 to fight stubborn inflation threaten to slow growth and increase unemployment.

### Risk Category



### Available Reports

Country Insight Snapshot  
(CIS)

High-level view of a single country's cross-border risk exposure, with particular focus on the current political, commercial, and macroeconomic environments.

Country Insight Report  
(CIR)

In-depth analysis of the current risks and opportunities within a single country and its regional and global context.

## STOCK PERFORMANCE

### History

Daily High

52-Week High

### Performance

P/E:

EPS:

Div/Yield

The scores and ratings included in this report are designed as a tool to assist the user in making their own credit related decisions, and should be used as part of a balanced and complete assessment relying on the knowledge and expertise of the reader, and where appropriate on other information sources. The score and rating models are developed using statistical analysis in order to generate a prediction of future events. Dun & Bradstreet monitors the performance of thousands of businesses in order to identify characteristics common to specific business events. These characteristics are weighted by significance to form rules within its models that identify other businesses with similar characteristics in order to provide a score or rating.

Dun & Bradstreet's scores and ratings are not a statement of what will happen, but an indication of what is more likely to happen based on previous experience. Though Dun & Bradstreet uses extensive procedures to maintain the quality of its information, Dun & Bradstreet cannot guarantee that it is accurate, complete or timely, and this may affect the included scores and ratings. Your use of this report is subject to applicable law, and to the terms of your agreement with Dun & Bradstreet.

## Small Business Risk Insight

### SBRI ORIGINATION LEASE SCORE

SBRI Origination Lease Score : 793

### SBRI ORIGINATION CARD SCORE

SBRI Origination Lease Score : 860

### SBRI ORIGINATION LOAN SCORE

**SBRI Origination Loan Score : 816**

**KEY SBRI ATTRIBUTES**

<b>Total Balance</b> <b>393,163.00</b>		<b>Total Open SBRI Accounts</b> <b>249</b>		<b>Number Of Total Accounts Ever Cycle 2+</b> <b>80</b>	
<b>Credit Card Total Balance</b>	20,526.00	<b>Total Exposure</b>	615,294.00	<b>Time since most recent Cycle 2 on all accounts</b>	1 Months
<b>Lease Agreement Total Balance</b>	232,608.00	<b>Maximum Age of All Open Accounts</b>	507.00 Months	<b>Worst Delinquent All Accounts</b>	
<b>Loan Total Balance</b>	140,029.00	<b>Total Available Credit - Credit Card</b>	215,656.00	<b>Past 1-3 Months</b>	Cycle 4
		<b>Total Available Credit - Lines of Credit</b>	16,500.00	<b>Past 1-12 Months</b>	Cycle 5

**ACCOUNT SUMMARIES**

<b>Total Current Balance</b>		<b>562,268</b>													
<b>Total Past Due</b>		<b>183,966</b>													
<b>Total Past Due Cycle 1</b>		<b>38,930</b>													
<b>Total Past Due Cycle 2</b>		<b>28,233</b>													
<b>Total Past Due Cycle 3</b>		<b>14,209</b>													
<b>Total Past Due Cycle 4</b>		<b>4,748</b>													
<b>Total Past Due Cycle 5</b>		<b>97,844</b>													
<b>Total Charge Off Amount</b>		<b>49,732</b>													
Type	Lender	Date Reported	Open Date	Closed Date	Total Payments	Original Amount/Current Credit Line	Current Balance	Total Current Balance	Total Past Due	Past Due Cycle 1	Past Due Cycle 2	Past Due Cycle 3	Past Due Cycle 4	Past Due Cycle 5	Charge-Off Amount
Term Loan		05/31/2022	07/31/2020			79,900	79,900	140,029	0	0	0	0	0	0	
Term Loan		08/31/2009	12/09/2003			5,091		140,029							7,563
Term Loan		05/31/2022	06/22/2020			52,900	52,900	140,029	0	0	0	0	0	0	
Term Loan		03/31/2015	04/29/2014		9	15,747	1,369	140,029	0	0	0	0	0	0	
Term Loan		03/31/2015	04/30/2014		9	14,500	1,262	140,029	0	0	0	0	0	0	
Term Loan		02/28/2015	02/28/2014		10	15,188	2,643	140,029	0	0	0	0	0	0	
Term Loan		11/30/2013	12/31/2012	11/30/2013		20,165	0	140,029	0	0	0	0	0	0	
Term Loan		07/31/2013	08/10/2009	07/31/2013		229,525	0	140,029	0	0	0	0	0	0	
Term Loan		06/30/2007	04/16/2007	05/09/2007		2,247	0	140,029	0	0	0	0	0	0	
Lease Agreement		09/30/2014	09/02/2010			53,770	2,409	385,779	2,409	0	2,409	0	0	0	
Lease Agreement		06/30/2013	09/25/2009			61,660	2,425	385,779	1,212	1,212	0	0	0	0	
Lease Agreement		06/30/2013	09/25/2009			39,988	1,978	385,779	989	989	0	0	0	0	
Lease Agreement		06/30/2013	09/25/2009			39,988	1,979	385,779	989	989	0	0	0	0	
Lease Agreement		06/30/2013	06/18/2009			10,295	254	385,779	254	0	0	254	0	0	
Lease Agreement		06/30/2013	06/18/2009			10,295	254	385,779	254	0	0	254	0	0	
Lease Agreement		04/14/2016	10/30/2012	02/01/2016	18	0	1,317	385,779	1,317	439	439	439	0	0	
Lease Agreement		04/14/2016	11/30/2012	12/10/2015	18	33	17	385,779	0	0	0	0	0	0	10

Type	Lender	Date Reported	Open Date	Closed Date	Total Payments	Original Amount/Current Credit Line	Current Balance	Total Current Balance	Total Past Due	Past Due Cycle 1	Past Due Cycle 2	Past Due Cycle 3	Past Due Cycle 4	Past Due Cycle 5	Charge-Off Amount
Lease Agreement		10/06/2015	05/10/2012	02/11/2015	18	716	0	385,779	0	0	0	0	0	0	
Lease Agreement		03/04/2015	07/10/2012		18	240	608	385,779	480	240	240	0	0	0	
Lease Agreement		01/08/2016	09/30/2012		18	240	19	385,779	0	0	0	0	0	0	
Lease Agreement		04/13/2016	09/30/2012		18	366	418	385,779	0	0	0	0	0	0	
Lease Agreement		01/08/2016	10/20/2012		18	67	163	385,779	0	0	0	0	0	0	
Lease Agreement		07/10/2015	09/10/2012	03/10/2016	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/18/2014	10/30/2012		18	1,554	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	06/10/2012	06/11/2014	18	0	32	385,779	0	0	0	0	0	0	
Lease Agreement		04/13/2016	03/30/2012		18	0	390	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	12/30/2011	01/02/2014	18	0	121	385,779	0	0	0	0	0	0	
Lease Agreement		07/16/2013	07/10/2012		18	79	537	385,779	237	79	79	79	0	0	
Lease Agreement		07/10/2015	12/10/2011	09/11/2013	18	2,554	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	12/20/2011	06/21/2015	18	0	5	385,779	0	0	0	0	0	0	
Lease Agreement		01/04/2014	06/20/2003	12/21/2011	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	12/20/2011	03/21/2016	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/04/2014	03/30/2007		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	06/30/2012	06/18/2014	18	0	2,980	385,779	2,367	789	789	789	0	0	
Lease Agreement		02/13/2012	10/20/2006	04/09/2009	18	4,446		385,779							4,488
Lease Agreement		05/07/2015	05/10/2012	02/11/2016	18	0	405	385,779	70	35	35	0	0	0	
Lease Agreement		01/02/2013	10/10/2006	04/11/2011	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/13/2016	09/20/2011		18	354	1,113	385,779	708	177	177	177	177	0	
Lease Agreement		04/14/2016	06/10/2009	03/11/2013	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/08/2016	04/20/2011		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2010	09/10/2005	06/11/2009	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/04/2014	04/20/2011	10/21/2015	18	513	410	385,779	0	0	0	0	0	0	
Lease Agreement		09/30/2009	09/10/2006	11/10/2009	18	0	231	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	07/10/2011	06/21/2015	18	92	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/04/2014	06/30/2006		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/08/2016	04/10/2011		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/02/2013	06/10/2006	12/11/2010	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		11/12/2013	10/27/2010	10/23/2013	36	193,623	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/13/2012	01/30/2006	08/01/2010	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	07/10/2011	02/02/2016	18	0	650	385,779	440	110	110	110	110	0	
Lease Agreement		12/03/2014	10/20/2005		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2015	10/07/2010		56	6,955	617	385,779	96	96	0	0	0	0	
Lease Agreement		01/02/2013	07/10/2005	04/11/2011	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		10/01/2017	04/01/2008	01/09/2017	105	1,917	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/13/2012	06/30/2005	01/01/2010	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2010	02/20/2001		0	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2010	01/10/2005	07/11/2009	18	207	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	07/20/2011	04/21/2013	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/04/2014	12/20/2008	12/21/2011	18	49	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2010	09/30/2010	01/01/2015	0	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2010	12/20/2004	12/21/2008	18	36	0	385,779	0	0	0	0	0	0	
Lease Agreement		10/14/2013	07/29/2010	09/24/2013	36	149,112	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/13/2012	12/30/2004	01/02/2009	18	60		385,779							385
Lease Agreement		06/02/2022	10/08/2003	11/04/2010		54,808	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2010	12/30/2003	04/21/2009	18	0	397	385,779	136	136	0	0	0	0	
Lease Agreement		06/02/2022	08/12/2003	11/04/2010		95,868	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/04/2014	01/20/2008		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2010	03/17/2003	09/21/2010		278,861	65,183	385,779	60,169	0	0	0	0	60,169	

Type	Lender	Date Reported	Open Date	Closed Date	Total Payments	Original Amount/Current Credit Line	Current Balance	Total Current Balance	Total Past Due	Past Due Cycle 1	Past Due Cycle 2	Past Due Cycle 3	Past Due Cycle 4	Past Due Cycle 5	Charge-Off Amount
Lease Agreement		02/28/2010	07/20/2003	01/21/2008	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/02/2022	05/17/2006	03/12/2010		9,765	0	385,779	0	0	0	0	0	0	
Lease Agreement		07/16/2013	01/10/2007		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		10/03/2013	10/16/2006	09/22/2020	23	27,970	550	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	12/10/2015		18	2,565	14	385,779	0	0	0	0	0	0	
Lease Agreement		08/31/2009	01/20/2007	04/21/2011	18	828	33	385,779	0	0	0	0	0	0	
Lease Agreement		06/02/2022	08/11/2003	01/14/2011		3,681	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	12/10/2015		18	781	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/13/2016	01/10/2007	10/25/2011	18	0	387	385,779	92	92	0	0	0	0	
Lease Agreement		06/02/2022	01/30/2009	05/17/2012		30,876	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	10/20/2015		18	764	223	385,779	0	0	0	0	0	0	
Lease Agreement		01/02/2013	04/20/2006	04/21/2011	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2010	06/30/2003	02/02/2011		253,994	36,150	385,779	31,753	0	0	0	0	31,753	
Lease Agreement		04/14/2016	09/30/2015		18	5,796	421	385,779	0	0	0	0	0	0	
Lease Agreement		01/04/2014	09/10/2004	12/08/2010	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2010	03/17/2003	07/21/2010		17,328	5,393	385,779	5,075	0	0	0	0	5,075	
Lease Agreement		04/14/2016	01/10/2015		18	101	102	385,779	0	0	0	0	0	0	
Lease Agreement		02/28/2010	04/10/2005	04/10/2008	18	0	179	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	04/10/2011	05/21/2015	18	0	71	385,779	0	0	0	0	0	0	
Lease Agreement		11/30/2020	10/30/2015		60	30,111	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/04/2014	12/10/2000	10/30/2003	18	0	240	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	12/10/2010	12/10/2013	18	0	130	385,779	41	41	0	0	0	0	
Lease Agreement		04/14/2016	07/20/2015		18	60	98	385,779	0	0	0	0	0	0	
Lease Agreement		01/02/2013	12/30/2005	01/01/2011	18	1,860	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/10/2015	04/16/2010		21	7,437	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/11/2016	06/30/2015		18	3,903	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/02/2013	05/20/2006	11/14/2011	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/08/2016	07/20/2010		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	06/10/2015		18	649	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/13/2016	09/30/2003	01/01/2006	18	1,344	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	06/20/2015		18	944	230	385,779	118	118	0	0	0	0	
Lease Agreement		11/30/2013	02/11/2010	03/17/2010	0	6,448	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2010	11/30/1998	05/19/2009	18	0	1	385,779	0	0	0	0	0	0	
Lease Agreement		07/10/2015	03/12/2010		21	6,480	0	385,779	0	0	0	0	0	0	
Lease Agreement		11/15/2020	06/09/2015	10/22/2020	6	23,550	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/02/2013	04/10/2007	07/11/2011	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/11/2016	03/30/2010	07/01/2015	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	03/10/2015		18	288	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/13/2012	11/30/2006	03/01/2010	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/13/2016	12/30/2009		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		10/06/2015	02/10/2015		18	4,256	0	385,779	0	0	0	0	0	0	
Lease Agreement		07/11/2012	10/10/2008		18	693	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/11/2014	03/20/2010	06/21/2015	18	0	920	385,779	744	372	372	0	0	0	
Lease Agreement		04/10/2015	12/30/2014		18	646	333	385,779	116	58	58	0	0	0	
Lease Agreement		07/11/2012	11/10/2008		18	729	0	385,779	0	0	0	0	0	0	
Lease Agreement		10/31/2011	12/01/2009	10/22/2011	18	642	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	10/10/2014		18	550	195	385,779	0	0	0	0	0	0	
Lease Agreement		07/11/2012	11/10/2008		18	690	0	385,779	0	0	0	0	0	0	
Lease Agreement		09/16/2012	12/01/2009	07/12/2012	8	2,090	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	10/20/2014		18	1,320	307	385,779	0	0	0	0	0	0	
Lease Agreement		07/11/2012	10/10/2007		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		07/10/2015	07/30/2010		18	0	0	385,779	0	0	0	0	0	0	

Type	Lender	Date Reported	Open Date	Closed Date	Total Payments	Original Amount/Current Credit Line	Current Balance	Total Current Balance	Total Past Due	Past Due Cycle 1	Past Due Cycle 2	Past Due Cycle 3	Past Due Cycle 4	Past Due Cycle 5	Charge-Off Amount
Lease Agreement		04/14/2016	07/10/2014		18	152	472	385,779	76	38	38	0	0	0	
Lease Agreement		02/28/2010	07/10/2004	10/11/2008	18	228	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/11/2014	10/10/2010	09/28/2015	18	0	1,936	385,779	1,936	484	484	484	484	0	
Lease Agreement		04/14/2016	07/20/2014		18	243	81	385,779	0	0	0	0	0	0	
Lease Agreement		02/28/2010	05/10/2004	11/11/2008	18	282	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/08/2016	01/30/2010		18	0	136	385,779	136	136	0	0	0	0	
Lease Agreement		06/30/2006	04/16/2002			3,355	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/28/2010	05/10/2004	11/11/2008	18	372	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	07/20/2021		1	2,570	2,570	385,779	0	0	0	0	0	0	
Lease Agreement		02/13/2012	01/10/2004	06/01/2009	18	0	36	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	09/20/2021		1	2,849	2,849	385,779	0	0	0	0	0	0	
Lease Agreement		12/03/2014	03/30/2008		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2003	08/24/1998	09/24/2001		10,428	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	09/20/2021		1	799	799	385,779	0	0	0	0	0	0	
Lease Agreement		01/04/2014	02/10/2009		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		11/30/2010	03/06/2000	09/12/2005	0	30,600	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	07/20/2021		1	711	7	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2010	10/10/2004	02/11/2009	18	0	29	385,779	0	0	0	0	0	0	
Lease Agreement		07/08/2008	06/26/2001			2,844	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	02/10/2020		7	2,841	2,841	385,779	0	0	0	0	0	0	
Lease Agreement		01/02/2013	03/20/2006	09/21/2011	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2010	03/16/2007		15	28,080		385,779							21,059
Lease Agreement		05/31/2022	10/10/2020		4	371	371	385,779	0	0	0	0	0	0	
Lease Agreement		01/02/2013	07/10/2006	07/11/2011	18	0	10	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	03/20/2016		18	704	201	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	09/30/2020		8	1,271	1,271	385,779	0	0	0	0	0	0	
Lease Agreement		04/13/2016	01/30/2010	08/01/2011	18	435	870	385,779	870	435	435	0	0	0	
Lease Agreement		04/30/2019	06/24/2014		58	23,034	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2021	05/28/2020			52,208	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/13/2012	07/30/2004	02/01/2010	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	06/10/2014	12/11/2015	18	219	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	03/30/2020		8	1,418	1,418	385,779	0	0	0	0	0	0	
Lease Agreement		01/08/2016	12/30/2006		18	0	8	385,779	0	0	0	0	0	0	
Lease Agreement		01/08/2016	06/30/2014		18	945	29	385,779	0	0	0	0	0	0	
Lease Agreement		03/31/2021	09/29/2020	03/26/2021	5	37,649	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/04/2014	09/30/2006		18	0	20	385,779	0	0	0	0	0	0	
Lease Agreement		07/31/2019	06/24/2014		60	114,600	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2021	05/28/2020			20,122	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/30/2019	06/24/2014		58	46,516	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/13/2012	07/30/2004	02/01/2010	18	0	50	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2021	05/28/2020			52,208	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/13/2016	07/10/2005	08/28/2009	18	0	60	385,779	60	30	30	0	0	0	
Lease Agreement		01/08/2016	04/30/2014		18	3,684	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2021	05/28/2020			20,122	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/02/2013	03/30/2006	10/01/2011	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	03/30/2014		18	1,104	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	12/30/2018		9	64	64	385,779	0	0	0	0	0	0	
Lease Agreement		10/03/2011	10/20/2007	07/21/2011	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		07/10/2015	01/30/2014		18	153	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	10/31/2017		57	62,750	3,795	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	01/10/2010	01/11/2015	18	0	0	385,779	0	0	0	0	0	0	

Type	Lender	Date Reported	Open Date	Closed Date	Total Payments	Original Amount/Current Credit Line	Current Balance	Total Current Balance	Total Past Due	Past Due Cycle 1	Past Due Cycle 2	Past Due Cycle 3	Past Due Cycle 4	Past Due Cycle 5	Charge-Off Amount
Lease Agreement		04/14/2016	01/20/2014		18	1,620	298	385,779	0		0	0	0	0	
Lease Agreement		11/30/2021	06/30/2019		12	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/13/2012	07/10/2001	01/11/2010	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		09/03/2014	09/30/2013		18	703	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	10/20/2018		8	564	564	385,779	0	0	0	0	0	0	
Lease Agreement		01/04/2014	01/30/2005		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	10/20/2013		18	56	108	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2021	10/20/2018		5	162	1	385,779	0	0	0	0	0	0	
Lease Agreement		02/28/2010	03/30/1986	01/02/2008	18	0	280	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	03/10/2013	12/11/2015	18	65	0	385,779	0	0	0	0	0	0	
Lease Agreement		09/30/2019	10/10/2011			0	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/13/2012	01/20/2006	07/21/2010	18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/11/2014	08/30/2013		18	210	0	385,779	0	0	0	0	0	0	
Lease Agreement		09/30/2019	10/20/2015			1,694	1,694	385,779	1,270	0	0	423	0	847	
Lease Agreement		12/03/2014	05/30/2003	06/01/2004	18	20	0	385,779	0	0	0	0	0	0	
Lease Agreement		07/10/2015	09/10/2013	12/29/2015	18	5,664	78	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	01/30/2014		12	126	126	385,779	75	0	75	0	0	0	
Lease Agreement		01/31/2014	10/01/2009	01/29/2014	51	78,443	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/04/2014	07/20/2009		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/29/2020	12/30/2014			0	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/07/2007	05/24/2004	07/31/2007	13	15,319	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/31/2015	06/27/2007	01/28/2015	88	19,517	650	385,779	0	0	0	0	0	0	
Lease Agreement		09/30/2019	03/30/2016			158	158	385,779	158	0	0	0	158	0	
Lease Agreement		11/05/2008	11/12/2001	10/31/2008		5,256	0	385,779	0	0	0	0	0	0	
Credit Cards		09/30/2013	08/14/2009	01/17/2014	12	3,000	563	36,460	0	0	0	0	0	0	
Lease Agreement		01/31/2015	04/05/2005	01/28/2015	115	33,310	1,214	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2019	12/30/2014		1	58	58	385,779	0	0	0	0	0	0	
Lease Agreement		02/29/2012	04/19/2006	02/13/2012	69	4,868	0	385,779	0	0	0	0	0	0	
Credit Cards		07/31/2009	05/02/1984	09/30/2007	0	2,500	0	36,460	0	0	0	0	0	0	
Lease Agreement		01/31/2014	06/29/2009	01/29/2014	54	78,548	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2019	12/10/2015		3	1,122	1,122	385,779	390	0	0	390	0	0	
Lease Agreement		11/26/2014	07/01/2013			25,900	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	06/24/2006	0	0	0	36,460	0	0	0	0	0	0	
Lease Agreement		01/31/2015	05/26/2006	01/28/2015	104	17,196	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/31/2020	02/10/2015		3	266	2	385,779	0	0	0	0	0	0	
Lease Agreement		07/31/2010	08/01/2006		1	22,501		385,779	112	112	0	0	0	0	
Credit Cards		09/30/2013	05/13/2008	11/29/2009	12	7,500		36,460							5,723
Lease Agreement		02/28/2014	12/29/2009	02/11/2014	48	15,032	0	385,779	0	0	0	0	0	0	
Lease Agreement		09/30/2019	12/10/2015		1	924	9	385,779	0	0	0	0	0	0	
Lease Agreement		12/19/2006	07/26/2001	11/30/2006	5	24,417	387	385,779	0	0	0	0	0	0	
Credit Cards		02/28/2010	12/15/2003	01/20/2010	24	1,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		04/14/2016	04/20/2013		18	1,452	693	385,779	0	0	0	0	0	0	
Lease Agreement		01/31/2003	02/25/2000			4,680	0	385,779	0	0	0	0	0	0	
Lease Agreement		10/29/2010	08/01/2006			7,657		385,779	0	0	0	0	0	0	
Credit Cards		11/30/2012	01/27/2010		0	2,459	669	36,460	0	0	0	0	0	0	
Lease Agreement		10/06/2015	05/10/2013		18	2,430	0	385,779	0	0	0	0	0	0	
Lease Agreement		10/31/2003	02/28/2000	07/31/2003		103,200	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2011	05/26/2006		61	17,196	0	385,779	0	0	0	0	0	0	
Credit Cards		12/31/2013	12/11/2001	08/19/2003	0	5,000	0	36,460	0	0	0	0	0	0	263
Lease Agreement		10/06/2015	05/10/2013		18	2,313	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/31/2005	08/01/2003	05/03/2005	3	53,266		385,779	0	0	0	0	0	0	
Lease Agreement		11/02/2011	05/15/2006	08/17/2009	16	3,245		385,779	0	0	0	0	0	0	
Credit Cards		12/31/2013	12/11/2001	08/19/2003	0	1,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		10/06/2015	05/10/2013		18	2,295	0	385,779	0	0	0	0	0	0	

Type	Lender	Date Reported	Open Date	Closed Date	Total Payments	Original Amount/Current Credit Line	Current Balance	Total Current Balance	Total Past Due	Past Due Cycle 1	Past Due Cycle 2	Past Due Cycle 3	Past Due Cycle 4	Past Due Cycle 5	Charge-Off Amount
Lease Agreement		11/30/2010	01/01/2010			47,297		385,779	0	0	0	0	0		
Credit Cards		05/31/2022	06/09/2000	11/16/2006	0	0	0	36,460	0	0	0	0	0	0	
Lease Agreement		08/11/2015	01/10/2013		18	419	0	385,779	0	0	0	0	0		
Credit Cards		05/31/2022	08/27/1999	11/16/2006	0	0	0	36,460	0	0	0	0	0	0	
Lease Agreement		11/30/2016	10/01/2014		20	5,030	0	385,779	0	0	0	0	0		
Lease Agreement		02/28/2017	02/01/2014		25	33,658	0	385,779	0	0	0	0	0		
Lease Agreement		10/31/2016	07/01/2014			7,834	0	385,779	0	0	0	0	0		
Lease Agreement		04/10/2015	12/30/2012	04/01/2016	18	0	389	385,779	0	0	0	0	0	0	
Lease Agreement		04/28/2017	02/01/2014			77,527	0	385,779	0	0	0	0	0		
Lease Agreement		04/28/2017	01/01/2015			3,882	0	385,779	0	0	0	0	0		
Lease Agreement		04/14/2016	04/30/2010	06/16/2014	18	3,750	0	385,779	0	0	0	0	0	0	3,229
Lease Agreement		04/13/2016	12/30/2012		18	277	260	385,779	0	0	0	0	0	0	
Lease Agreement		10/29/2010	02/01/2009			70,945		385,779	0	0	0	0	0		
Lease Agreement		03/31/2011	04/01/2010		1	4,181		385,779	0	0	0	0	0		
Lease Agreement		11/30/2007	11/14/2003	11/21/2007	15	4,695	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/28/2015	12/31/2010			45,811	865	385,779	865	865	0	0	0	0	
Lease Agreement		08/31/2007	01/01/2001			59,079	0	385,779	0	0	0	0	0		
Lease Agreement		03/31/2011	04/01/2010			82,965		385,779	0	0	0	0	0		
Lease Agreement		10/29/2010	04/01/2004		1	30,844		385,779	0	0	0	0	0		
Lease Agreement		10/31/2013	03/25/2010	10/31/2013		33,667	0	385,779	0	0	0	0	0	0	
Lease Agreement		07/31/2010	10/01/2007		1	9,106		385,779	0	0	0	0	0		
Lease Agreement		03/01/2012	11/30/1997	08/28/1998		2,340		385,779	0	0	0	0	0		1,645
Lease Agreement		04/30/2010	10/01/2004			14,101		385,779	2,634	333	335	333	1,632		
Lease Agreement		06/30/2013	09/25/2009			24,184	1,044	385,779	522	522	0	0	0	0	
Lease Agreement		07/31/2010	10/01/2007		1	9,798		385,779	0	0	0	0	0		
Lease Agreement		02/28/2010	02/24/2005	02/19/2010	60	14,515	1,045	385,779	0	0	0	0	0		
Lease Agreement		05/31/2011	10/14/2004	03/09/2011	29	2,631		385,779	0	0	0	0	0		
Lease Agreement		06/30/2013	06/18/2009			10,295	254	385,779	254	0	0	254	0	0	
Lease Agreement		11/30/2016	12/01/2014			37,243	0	385,779	0	0	0	0	0		
Lease Agreement		08/31/2012	12/05/2007	08/31/2012	1	2,576	0	385,779	0	0	0	0	0		
Lease Agreement		12/01/2011	08/27/2004	09/27/2011		45,720		385,779	0	0	0	0	0		
Lease Agreement		09/30/2014	09/01/2010			41,225	1,570	385,779	1,570	1,570	0	0	0	0	
Lease Agreement		09/30/2005	04/01/2004	07/04/2005	1	4,402		385,779	0	0	0	0	0		
Lease Agreement		12/31/2011	08/26/2000	12/05/2011	133	20,179	22	385,779	0	0	0	0	0		
Lease Agreement		10/29/2010	10/01/2004		1	128,916		385,779	0	0	0	0	0		
Lease Agreement		07/31/2014	07/02/2010			48,218	934	385,779	0	0	0	0	0	0	
Lease Agreement		02/28/2005	11/15/2000	08/22/2003		58,089	0	385,779	0	0	0	0	0		
Lease Agreement		06/30/2013	06/18/2009			10,295	254	385,779	254	0	0	254	0	0	
Lease Agreement		12/01/2011	07/15/2004	09/15/2011		45,720		385,779	0	0	0	0	0		
Lease Agreement		07/31/2014	07/02/2010			48,218	934	385,779	0	0	0	0	0	0	
Lease Agreement		07/15/2003	06/01/1998			3,155	0	385,779	0	0	0	0	0		
Lease Agreement		07/31/2007	08/26/2000		9	22,997	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2013	09/25/2009			41,430	1,971	385,779	985	985	0	0	0	0	
Lease Agreement		07/31/2007	02/17/2000	04/04/2001		18,915	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2013	09/25/2009			23,345	808	385,779	297	297	0	0	0	0	
Lease Agreement		08/31/2003	04/28/2003	07/29/2003	2	6,600	0	385,779	0	0	0	0	0		
Lease Agreement		06/30/2013	08/28/2009			24,304	526	385,779	526	526	0	0	0	0	
Lease Agreement		06/30/2013	06/18/2009			10,295	254	385,779	254	0	0	254	0	0	
Lease Agreement		01/31/2010	05/12/2003	10/20/2009		19,710		385,779	0	0	0	0	0		
Lease Agreement		03/31/2013	03/25/2008	03/31/2013		45,000	0	385,779	0	0	0	0	0	0	
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		20,700	0	385,779	0	0	0	0	0	0	
Lease Agreement		03/31/2013	02/08/2008	03/31/2013		16,900	0	385,779	0	0	0	0	0	0	

Type	Lender	Date Reported	Open Date	Closed Date	Total Payments	Original Amount/Current Credit Line	Current Balance	Total Current Balance	Total Past Due	Past Due Cycle 1	Past Due Cycle 2	Past Due Cycle 3	Past Due Cycle 4	Past Due Cycle 5	Charge-Off Amount
Lease Agreement		05/31/2005	05/15/2002			22,361	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/28/2015	12/31/2010			45,811	865	385,779	865	865	0	0	0	0	
Credit Cards		09/30/2008	08/02/2000	02/17/2003	0	0	0	36,460	0	0	0	0	0	0	
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		20,700	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2012	11/30/2007			32,500	575	385,779	0	0	0	0	0	0	
Lease Agreement		07/31/2006	05/29/2001	05/29/2006		24,042		385,779	0	0	0	0	0	0	
Lease Agreement		01/31/2015	12/31/2010			55,886	3,299	385,779	3,299	0	3,299	0	0	0	
Credit Cards		06/02/2008	03/03/1997	03/11/2003	0	0	0	36,460	0	0	0	0	0	0	
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		20,700	0	385,779	0	0	0	0	0	0	
Lease Agreement		09/30/2014	09/01/2010			41,225	1,570	385,779	1,570	1,570	0	0	0	0	
Lease Agreement		10/31/2001	09/28/1998		24	23,533	0	385,779	0						0
Lease Agreement		12/31/2014	12/31/2010			49,438	3,746	385,779	1,873	0	1,873	0	0	0	
Credit Cards		06/02/2008	10/09/1996	10/10/2002	0	0	0	36,460	0	0	0	0	0	0	
Lease Agreement		07/31/2010	04/01/2009		1	12,045		385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2014	08/24/2010			19,754	495	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2002	07/30/1997	07/30/2002		17,100	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/31/2013	10/30/2009	08/31/2013		23,685	0	385,779	0	0	0	0	0	0	
Credit Cards		12/02/2015	08/01/2005	11/14/2014	4	6,200	0	36,460	0	0	0	0	0	0	
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		25,846	0	385,779	0	0	0	0	0	0	
Lease Agreement		07/31/2014	07/02/2010			39,668	754	385,779	0	0	0	0	0	0	
Lease Agreement		03/31/2005	03/27/2000	01/04/2005		33,372		385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2013	09/25/2009			26,303	1,144	385,779	572	572	0	0	0	0	
Credit Cards		03/31/2011	01/12/1991	03/12/2004		1	0	36,460	0	0	0	0	0	0	
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		25,846	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2013	09/25/2009			39,988	1,979	385,779	989	989	0	0	0	0	
Lease Agreement		04/30/2005	10/15/1999	10/15/2004		13,440		385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2013	09/21/2009			52,345	1,192	385,779	1,192	1,192	0	0	0	0	
Credit Cards		02/28/2009	10/02/2000	10/30/2006			0	36,460	0	0	0	0	0	0	
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		25,846	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2013	09/25/2009			23,225	1,017	385,779	508	508	0	0	0	0	
Lease Agreement		11/30/2003	07/06/1998	07/06/2001		5,652	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2013	06/18/2009			10,295	254	385,779	254	0	0	254	0	0	
Credit Cards		09/30/2019	08/25/2004				14,054	36,460	0	0	0	0	0	0	
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		20,743	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2013	09/25/2009			26,303	1,144	385,779	572	572	0	0	0	0	
Lease Agreement		06/30/2003	07/16/1998		1	5,640	0	385,779	0	0	0	0	0	0	
Credit Cards		09/30/2019	03/03/1980				1,105	36,460	0	0	0	0	0	0	
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		20,743	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2013	06/18/2009			10,295	254	385,779	254	0	0	254	0	0	
Credit Cards		06/30/2006	04/30/2006	02/25/2007	2	11,500	1,425	36,460	88	88	0	0	0	0	
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		20,743	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/12/2000	01/21/2008		6,750	0	36,460	0	0	0	0	0	0	
Lease Agreement		08/31/2014	07/19/2010			55,886	1,209	385,779	0	0	0	0	0	0	
Lease Agreement		08/31/2007	07/18/2002	07/18/2005		4,029		385,779	0	0	0	0	0	0	
Lease Agreement		07/31/2014	07/02/2010			48,218	934	385,779	0	0	0	0	0	0	
Lease Agreement		03/31/2015	12/31/2010	03/31/2015		55,886	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/31/2004	12/13/2000	12/15/2003		2,850	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/31/2014	07/02/2010			39,668	60	385,779	0	0	0	0	0	0	
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		20,743	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/31/2014	07/19/2010			55,886	1,209	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2003	12/27/2000	04/28/2003		12,434	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2013	09/25/2009			23,014	1,041	385,779	520	520	0	0	0	0	
Credit Cards		10/31/2008	04/06/2004	11/26/2008			494	36,460	87	20	0	20	47	0	
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		20,743	0	385,779	0	0	0	0	0	0	
Lease Agreement		07/31/2014	07/02/2010			39,668	754	385,779	0	0	0	0	0	0	

Type	Lender	Date Reported	Open Date	Closed Date	Total Payments	Original Amount/Current Credit Line	Current Balance	Total Current Balance	Total Past Due	Past Due Cycle 1	Past Due Cycle 2	Past Due Cycle 3	Past Due Cycle 4	Past Due Cycle 5	Charge-Off Amount
Lease Agreement		04/30/2007	07/01/2001	07/02/2004	27	12,312		385,779	0	0	0	0			
Lease Agreement		06/30/2013	06/18/2009			10,295	254	385,779	254	0	0	254	0	0	
Credit Cards		05/31/2022	06/27/2003	08/23/2011		0	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		20,743	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/31/2013	11/25/2009	08/31/2013		20,027	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/28/2005	07/27/2000	02/27/2003	4	806		385,779	0	0	0	0			
Lease Agreement		11/30/2013	12/29/2008	11/30/2013		30,507	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	05/17/2002	06/25/2008		0	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		20,743	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2013	09/25/2009			26,705	1,224	385,779	612	612	0	0	0	0	
Lease Agreement		01/31/2006	05/01/2001	10/20/2005	4	9,152		385,779	0	0	0	0			
Lease Agreement		03/31/2013	03/05/2008	03/31/2013		33,250	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	05/15/2002	07/01/2008		0	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		18,915	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2013	12/27/2011	12/31/2013		87,370	0	385,779	0	0	0	0	0	0	
Lease Agreement		09/30/2005	07/28/2002	01/28/2005	19	1,119		385,779	0	0	0	0			
Lease Agreement		12/31/2014	12/31/2010			40,278	3,063	385,779	2,297	0	2,297	0	0	0	
Credit Cards		05/31/2022	05/14/2002	01/03/2010		15,000	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		18,915	0	385,779	0	0	0	0	0	0	
Lease Agreement		01/31/2015	12/31/2010			55,886	3,299	385,779	3,299	0	3,299	0	0	0	
Lease Agreement		12/31/2006	03/02/2002	03/02/2004		2,112		385,779	0	0	0	0			
Lease Agreement		08/31/2014	07/19/2010			55,886	1,209	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	02/05/2002	01/21/2008		3,000	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		18,915	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/28/2015	12/31/2010			55,886	1,099	385,779	1,099	1,099	0	0	0	0	
Lease Agreement		09/30/2004	12/17/1998	12/17/2001	4	3,096	0	385,779	0	0	0	0			
Lease Agreement		08/31/2014	07/19/2010			55,886	1,209	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	10/09/2001	02/03/2005		0	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		18,915	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/31/2014	07/19/2010			55,886	1,209	385,779	0	0	0	0	0	0	
Lease Agreement		01/15/2002	01/05/1997		2	6,619	0	385,779	0	0	0	0	0		
Credit Cards		05/31/2022	02/23/2001	01/21/2008		20,000	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		18,915	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/31/2014	07/19/2010			55,886	1,209	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	07/22/1999	02/01/2013		19,150	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		18,915	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	02/01/1999	07/27/2007		0	0	36,460	0	0	0	0	0		
Term Loan		02/12/2009	05/17/2006			11,734	1,955	140,029	325	325	0	0	0	0	
Term Loan		10/08/2008	10/04/2005	09/30/2008	27	12,601	0	140,029	0	0	0	0	0	0	
Lines of Credit		01/10/2019	01/05/2018			1,000	0	0	0	0	0	0	0	0	
Lines of Credit		06/01/2022	03/27/2020			5,000	0	0	0	0	0	0	0	0	
Lines of Credit		06/01/2022	11/04/2021		5	5,000	0	0	0	0	0	0	0	0	
Lines of Credit		06/01/2022	11/15/2019			2,000	0	0	0	0	0	0	0	0	
Lines of Credit		12/31/2020	06/05/2019		2	2,500	0	0	0	0	0	0	0	0	
Lines of Credit		08/12/2016	08/19/2015			1,000	0	0	0	0	0	0	0	0	
Credit Cards		05/31/2022	12/01/2014		4	3,000	0	36,460	0	0	0	0	0	0	
Credit Cards		06/05/2022	03/31/2006			0	0	36,460	0	0	0	0	0	0	
Lease Agreement		09/25/2001	02/15/1995			16,315	0	385,779	0	0	0	0	0		
Lease Agreement		07/31/2014	07/02/2010			48,218	934	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2003	08/01/2000		18	5,121	0	385,779	0	0	0	0	0	0	
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		18,915	0	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2013	09/25/2009			39,988	1,978	385,779	989	989	0	0	0	0	
Lease Agreement		10/05/2001	10/01/1998		1	23,270	0	385,779	0	0	0	0	0		
Credit Cards		05/31/2022	12/01/1998	02/03/2008		30,000	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		18,915	0	385,779	0	0	0	0	0	0	

Type	Lender	Date Reported	Open Date	Closed Date	Total Payments	Original Amount/Current Credit Line	Current Balance	Total Current Balance	Total Past Due	Past Due Cycle 1	Past Due Cycle 2	Past Due Cycle 3	Past Due Cycle 4	Past Due Cycle 5	Charge-Off Amount
Lease Agreement		03/31/2022	10/04/2018		24	4,197	1,329	385,779	0	0	0	0	0		
Lease Agreement		10/05/2001	08/15/1998		3	5,060	0	385,779	0	0	0	0	0		
Credit Cards		05/31/2022	09/01/1998	01/21/2008		2,000	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		20,743	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2019	03/30/2014		1	66	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/06/2002	02/15/1999			17,352	0	385,779	0	0	0	0	0		
Credit Cards		05/31/2022	09/01/1998	12/02/2008		15,000	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		25,832	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/30/2019	10/10/2014		2	55	132	385,779	132	132	0	0	0	0	
Lease Agreement		08/01/2008	06/15/2001			26,570	0	385,779	0	0	0	0	0		
Credit Cards		05/31/2022	06/01/1998	01/21/2008		1,000	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	02/01/2000	04/04/2001		18,915	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/31/2020	06/30/2015		4	300	300	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2003	12/15/2000		17	1,870	0	385,779	0	0	0	0	0		
Credit Cards		05/31/2022	04/01/1998			16,900	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	07/07/1998	04/04/2001		16,308	0	385,779	0	0	0	0	0	0	
Lease Agreement		08/31/2021	12/20/2016		7	173	173	385,779	0	0	0	0	0	0	
Lease Agreement		04/02/2003	03/15/2000			9,439	0	385,779	0	0	0	0	0		
Credit Cards		05/31/2022	05/01/1997			2,500	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	10/14/1998	04/04/2001		17,587	0	385,779	0	0	0	0	0	0	
Lease Agreement		04/30/2020	07/20/2017		5	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		03/31/2005	05/01/2000			2,668	0	385,779	0	0	0	0	0		
Credit Cards		05/31/2022	04/01/1997	01/21/2008		8,500	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	10/14/1998	04/04/2001		126,370	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	12/30/2016		8	2,899	2,899	385,779	0	0	0	0	0	0	
Lease Agreement		08/06/2002	07/01/1999			1,853	0	385,779	0	0	0	0	0		
Credit Cards		05/31/2022	04/01/1996	07/02/2010		11,250	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	06/27/1996	03/31/2000		54,111	0	385,779	0	0	0	0	0	0	
Lease Agreement		09/30/2020	07/10/2017		9	126	126	385,779	90	0	0	90	0	0	
Credit Cards		05/31/2022	11/01/1995	01/21/2008		16,900	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2007	11/01/1993	05/24/1995		23,296	0	385,779	0	0	0	0	0	0	
Credit Cards		08/31/2008	11/01/1997	01/29/2009			2,300	36,460	1,048	367	619	20	42		
Credit Cards		12/31/2017	01/19/2010	09/20/2017	12	11,000	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	08/19/2005		24	17,800	250	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	12/18/2006	07/30/2009	0	500	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	09/28/2001	06/24/2006	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	06/24/2006	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		10/31/2013	01/18/2008	11/02/2009	0	25,000	0	36,460	0	0	0	0	0	0	
Credit Cards		09/30/2019	09/29/1999				2,293	36,460	0	0	0	0	0	0	
Credit Cards		03/31/2008	11/13/2001		24	300	254	36,460	0	0	0	0	0	0	
Credit Cards		10/31/2016	02/07/2008	08/22/2014	0	1,000	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	01/01/1997	06/27/2008	0	3,500	0	36,460	0	0	0	0	0	0	
Lease Agreement		10/05/2001	09/15/1998		3	2,777	0	385,779	0	0	0	0	0		
Lease Agreement		02/28/2022	06/20/2018		7	212	212	385,779	0	0	0	0	0	0	
Lease Agreement		06/30/2004	06/17/2001		17	1,392	0	385,779							
Lease Agreement		07/31/2007	01/29/1992	05/01/1996		70,288	0	385,779	0	0	0	0	0	0	
Lease Agreement		09/30/2020	10/10/2016		7	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/13/2012	06/10/2006	11/24/2010	18	0	535	385,779	273	91	91	91	0	0	
Credit Cards		05/31/2022	03/01/1994	01/21/2008		5,000	0	36,460	0	0	0	0	0		
Lease Agreement		08/31/2007	03/03/2004	07/20/2007		6,148		385,779	0	0	0	0			
Lease Agreement		08/31/2021	06/20/2018		9	297	297	385,779	0	0	0	0	0	0	
Lease Agreement		08/11/2014	02/28/2010		18	0	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/01/1992			3,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		04/30/2018	10/01/2014			67,982	0	385,779	0	0	0	0	0		
Lease Agreement		01/31/2021	02/20/2018		9	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/16/2012	10/01/2009	03/07/2012	4	3,307	0	385,779	0	0	0	0	0		
Credit Cards		05/31/2022	04/01/1992	01/21/2008		3,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		07/31/2013	02/15/2013		2	17,531	1,205	385,779	0	0	0	0	0		

Type	Lender	Date Reported	Open Date	Closed Date	Total Payments	Original Amount/Current Credit Line	Current Balance	Total Current Balance	Total Past Due	Past Due Cycle 1	Past Due Cycle 2	Past Due Cycle 3	Past Due Cycle 4	Past Due Cycle 5	Charge-Off Amount
Lease Agreement		10/31/2021	10/10/2017		12	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		09/16/2012	10/01/2009	07/09/2012	8	635	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	04/01/1992	01/21/2008		3,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		09/01/2008	05/31/2007			11,377	0	385,779	0	0	0	0	0	0	
Lease Agreement		09/30/2020	01/20/2018		6	78	78	385,779	0	0	0	0	0	0	
Lease Agreement		02/28/2010	07/10/2008		18	876	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	02/01/1990	08/01/2003		6,750	0	36,460	0	0	0	0	0	0	
Lease Agreement		02/12/2009	01/30/2009			27,056	27,056	385,779	0	0	0	0	0	0	
Lease Agreement		09/30/2021	12/30/2017		12	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/03/2014	06/30/2008		18	0	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	05/01/1989	10/02/2008		20,250	0	36,460	0	0	0	0	0	0	
Lease Agreement		01/08/2016	07/10/2009		18	0	2	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	09/10/2018		6	520	520	385,779	0	0	0	0	0	0	
Lease Agreement		01/04/2014	06/30/2008		18	366	10	385,779	0	0	0	0	0	0	
Credit Cards		02/28/2015	02/26/2006	07/11/2008	24	1,000	0	36,460	0	0	0	0	0	0	1,306
Lease Agreement		01/04/2014	12/10/2006		18	137	33	385,779	0	0	0	0	0	0	
Lease Agreement		02/28/2022	06/18/2018		11	306	306	385,779	0	0	0	0	0	0	
Lease Agreement		04/14/2016	09/30/2007		18	0	0	385,779	0	0	0	0	0	0	
Credit Cards		02/28/2011	12/15/1998	09/17/2002		1	0	36,460	0	0	0	0	0	0	
Lease Agreement		01/08/2016	04/20/2009		18	624	0	385,779	0	0	0	0	0	0	
Lease Agreement		09/30/2019	10/20/2016		2	1,184	1,184	385,779	0	0	0	0	0	0	
Credit Cards		06/01/2022	12/21/1995			15,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		12/31/2010	10/20/2005	04/21/2009	18	804	0	385,779	0	0	0	0	0	0	
Credit Cards		02/28/2009	07/12/2003				0	36,460	0	0	0	0	0	0	
Credit Cards		12/31/2012	06/26/2007	10/16/2007	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		01/03/2022	09/11/2019		24	20,000	0	36,460	0	0	0	0	0	0	
Credit Cards		11/30/2005	11/01/1990	08/07/2006		9,354	5,638	36,460	0	0	0	0	0	0	
Credit Cards		09/04/2014	07/21/1994			3,450	0	36,460	0	0	0	0	0	0	
Credit Cards		07/31/2004	10/29/2003		2	10,000	0	36,460	0	0	0	0	0	0	
Credit Cards		11/30/2016	07/09/2003	09/19/2005	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2004	09/06/2003		0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		10/31/2009	02/29/2000	12/05/2008	0	15,000	0	36,460	0	0	0	0	0	0	
Credit Cards		03/31/2004	04/21/2000	11/26/2008	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	07/26/2001	06/08/2010	0	5,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		03/31/2022	01/10/2018		5	121	121	385,779	0	0	0	0	0	0	
Lease Agreement		12/03/2014	01/30/2005		18	0	1,272	385,779	1,272	636	636	0	0	0	
Lease Agreement		02/28/2022	06/12/2018		16	78	78	385,779	0	0	0	0	0	0	
Credit Cards		02/28/2009	07/12/2003				0	36,460	0	0	0	0	0	0	
Lease Agreement		07/16/2013	03/20/2008		18	435	0	385,779	0	0	0	0	0	0	
Lease Agreement		02/29/2020	09/10/2018		4	1,131	1,131	385,779	0	0	0	0	0	0	
Credit Cards		02/28/2011	10/31/1991	10/14/1994		7,200	0	36,460	0	0	0	0	0	0	
Lease Agreement		02/28/2010	03/20/2004	03/21/2008	18	1,755	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	04/20/2018		6	430	430	385,779	0	0	0	0	0	0	
Credit Cards		02/28/2011	11/25/1991	12/10/1993		1	0	36,460	0	0	0	0	0	0	
Lease Agreement		10/11/2010	05/29/2009		13	7,348	0	385,779	0	0	0	0	0	0	
Lease Agreement		05/31/2022	03/30/2019		8	2,186	2,186	385,779	0	0	0	0	0	0	
Credit Cards		02/28/2009	07/12/2003				0	36,460	0	0	0	0	0	0	
Lease Agreement		01/31/2010	03/30/2007	04/01/2010	18	2,070	1,054	385,779	414	414	0	0	0	0	
Lease Agreement		09/30/2021	03/10/2018		21	1,910	1,910	385,779	516	259	0	0	257	0	
Credit Cards		02/28/2011	01/10/1990	04/08/1994		5,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		12/03/2014	07/10/2009		18	0	0	385,779	0	0	0	0	0	0	
Lease Agreement		03/31/2022	03/20/2019		9	1,734	1,734	385,779	0	0	0	0	0	0	
Credit Cards		02/28/2011	05/22/1996	01/18/2002		1	0	36,460	0	0	0	0	0	0	
Lease Agreement		04/13/2016	02/28/2003	01/01/2006	18	243	0	385,779	0	0	0	0	0	0	
Lease Agreement		09/02/2021	05/25/2018		23	31,425	12,775	385,779	0	0	0	0	0	0	
Credit Cards		02/28/2011	09/01/1994	01/30/1995		1	0	36,460	0	0	0	0	0	0	
Lease Agreement		01/08/2016	07/20/2007	07/21/2009	18	0	31	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2021	12/29/2017			120,177	28,762	385,779	28,761	10,014	10,014	8,732	0	0	

Type	Lender	Date Reported	Open Date	Closed Date	Total Payments	Original Amount/Current Credit Line	Current Balance	Total Current Balance	Total Past Due	Past Due Cycle 1	Past Due Cycle 2	Past Due Cycle 3	Past Due Cycle 4	Past Due Cycle 5	Charge-Off Amount
Credit Cards		02/28/2009	07/12/2003				0	36,460	0	0	0	0	0		
Lease Agreement		02/28/2011	01/19/2009		24	1,623	0	385,779	0	0	0	0	0		
Lease Agreement		12/31/2021	12/29/2017			202,638	0	385,779	0	0	0	0	0		
Credit Cards		02/28/2009	04/12/1996				0	36,460	0	0	0	0	0		
Lease Agreement		11/30/2013	11/17/2008	11/21/2013	60	3,720	0	385,779	0	0	0	0	0		
Credit Cards		02/28/2009	07/12/2003				0	36,460	0	0	0	0	0		
Credit Cards		09/30/2013	06/19/2001	12/07/2004	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	11/29/1999	10/07/2009	0	500	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	03/20/1999	06/29/2007	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	01/21/1999	04/03/2009	0	500	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	09/03/1998	06/09/2009	0	500	0	36,460	0	0	0	0	0	0	
Credit Cards		10/31/2009	11/01/1997	12/03/2008	0	1,400	0	36,460	0	0	0	0	0	0	
Credit Cards		03/31/2017	01/01/1997	10/10/2007	0	3,500	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	05/18/2021		2	9,000	0	36,460	0	0	0	0	0	0	
Credit Cards		12/31/2019	11/29/2019		0	12,000	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	01/20/2021	04/18/2022	15	55,000	1,841	36,460	1,841	0	0	0	0	1,841	
Lease Agreement		12/31/2021	12/29/2017			37,711	1,590	385,779	1,590	1,590	0	0	0		
Lease Agreement		11/30/2013	02/01/2001	07/17/2007	0	8,460	0	385,779	0	0	0	0	0		
Lease Agreement		12/31/2021	12/29/2017			110,519	2,763	385,779	2,762	2,762	0	0	0		
Credit Cards		02/28/2011	03/04/1997	07/15/1999		1	0	36,460	0	0	0	0	0		
Lease Agreement		11/30/2013	04/13/2000	06/13/2007		4,864	0	385,779	0	0	0	0	0		
Lease Agreement		01/15/2021	09/09/2016	12/01/2020	8	13,957	2,313	385,779	0	0	0	0	0		
Credit Cards		03/31/2011	01/04/1995	05/30/1999		1	0	36,460	0	0	0	0	0		
Lease Agreement		11/30/2009	01/15/2006	11/30/2009	1	40,000	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2021	12/29/2017			33,645	0	385,779	0	0	0	0	0		
Credit Cards		02/28/2011	07/27/1994	03/31/1995		1	0	36,460	0	0	0	0	0		
Lease Agreement		05/31/2012	05/23/2008	05/31/2012	6	34,332	0	385,779	0	0	0	0	0	0	
Lease Agreement		12/31/2021	12/29/2017			30,545	0	385,779	0	0	0	0	0		
Credit Cards		03/31/2011	07/21/1994	12/16/1997		15,000	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2008	07/29/2005	08/19/2008	2	25,280	1,404	385,779	0	0	0	0	0		
Lease Agreement		12/31/2021	12/29/2017			626,214	0	385,779	0	0	0	0	0		
Credit Cards		02/28/2011	05/07/1996	03/22/1998		3,500	0	36,460	0	0	0	0	0		
Lease Agreement		07/31/2011	01/31/2008		24	22,458	0	385,779	0	0	0	0	0		
Lease Agreement		12/31/2021	11/21/2017	07/29/2021		4,718	0	385,779	0	0	0	0	0		
Credit Cards		02/28/2011	11/13/1996	08/09/2001		1	0	36,460	0	0	0	0	0		
Lease Agreement		06/30/2012	01/11/2007	06/14/2012	60	48,697	0	385,779	0	0	0	0	0		
Lease Agreement		06/01/2022	10/17/2017			8,536	1,727	385,779	0	0	0	0	0	0	
Credit Cards		03/31/2011	02/15/1994	02/07/1998		15,000	0	36,460	0	0	0	0	0		
Lease Agreement		06/30/2003	07/06/1998	02/08/2002		2,131	0	385,779	0	0	0	0	0		
Lease Agreement		05/31/2019	10/31/2017		20	62,750	50,600	385,779	0	0	0	0	0		
Credit Cards		07/31/2010	02/03/2003	10/07/2009	0	500	0	36,460	0	0	0	0	0	0	
Lease Agreement		01/02/2015	02/01/2007	02/01/2012		3,857		385,779	0	0	0	0	0		
Lease Agreement		04/14/2016	01/30/2016		18	7,027	1,591	385,779	439	439	0	0	0	0	
Credit Cards		10/31/2016	11/11/2004	06/22/2007	0	0	0	36,460	0	0	0	0	0	0	
Lease Agreement		06/30/2003	07/24/1998	03/07/2000	0	16,965	0	385,779	0	0	0	0	0		
Credit Cards		11/30/2016	10/20/2004	12/15/2009	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	11/29/2019		4	12,000	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/28/2018		8	6,000	0	36,460	0	0	0	0	0	0	
Credit Cards		06/05/2022	11/23/2016		1	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	12/10/2014		23	2,219	729	36,460	0	0	0	0	0	0	
Credit Cards		06/30/2017	06/20/2016			9,406	0	36,460	0	0	0	0	0	0	
Credit Cards		10/31/2009	11/01/1999	12/05/2008	0	750	0	36,460	0	0	0	0	0	0	
Credit Cards		10/31/2004	12/26/2000	11/14/2003	6	0	0	36,460	0	0	0	0	0	0	
Credit Cards		07/31/2004	04/19/2002		5	25,000	0	36,460	0	0	0	0	0	0	
Credit Cards		12/31/2013	03/20/2003	12/27/2006	0	0	0	36,460	0	0	0	0	0	0	290
Credit Cards		11/30/2016	03/07/2003	11/06/2008	0	0	0	36,460	0	0	0	0	0	0	
Lease Agreement		11/30/2013	09/30/2004	09/10/2009	0	29,727	0	385,779	0	0	0	0	0		
Credit Cards		10/31/2004	10/29/2003		2	10,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		11/30/2013	05/16/2002	06/29/2007	0	1,375	0	385,779	0	0	0	0	0		
Credit Cards		12/31/2005	08/26/2003	01/10/2005	13	20,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		11/30/2013	11/17/2003	03/18/2009	0	2,397	0	385,779	0	0	0	0	0		

Type	Lender	Date Reported	Open Date	Closed Date	Total Payments	Original Amount/Current Credit Line	Current Balance	Total Current Balance	Total Past Due	Past Due Cycle 1	Past Due Cycle 2	Past Due Cycle 3	Past Due Cycle 4	Past Due Cycle 5	Charge-Off Amount
Credit Cards		10/31/2004	04/19/2002		5	25,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		06/30/2003	02/20/1998	07/31/2001		5,729	0	385,779	0	0	0	0	0	0	
Credit Cards		09/04/2014	03/19/2002			1,523	0	36,460	0	0	0	0	0	0	
Lease Agreement		06/30/2003	06/20/1997	07/10/2001		22,801	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	12/07/2005	12/08/2005	0	0	0	36,460	0	0	0	0	0	0	
Lease Agreement		06/30/2003	07/06/1998	11/28/2001		9,527	0	385,779	0	0	0	0	0	0	
Credit Cards		11/30/2016	06/06/2005	11/06/2008	0	0	0	36,460	0	0	0	0	0	0	
Lease Agreement		06/30/2003	10/06/1998	10/24/2002		21,340	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	11/02/2005	01/05/2006	0	0	0	36,460	0	0	0	0	0	0	
Lease Agreement		06/30/2003	04/06/1998	07/31/2001		4,643	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	09/29/2004	01/28/2011	0	15,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		06/30/2003	04/05/1999	07/24/2002		11,764	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	04/24/2005	09/24/2012	0	15,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		06/30/2003	06/16/1999	07/15/2002	0	5,330	0	385,779	0	0	0	0	0	0	
Credit Cards		10/31/2016	01/05/2005	10/31/2005	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	03/06/2003	10/01/2007	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		04/30/2004	06/01/1991	06/30/1998	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		09/30/2008	10/01/1993	10/29/2001	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		07/31/2009	11/01/1993	08/09/2004	0	5,000	0	36,460	0	0	0	0	0	0	
Credit Cards		09/30/2008	10/01/1993	02/03/2000	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		04/30/2004	11/01/1995	12/03/2008	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		09/30/2008	08/01/1995	07/28/2000	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		04/30/2004	02/03/2003	01/16/2006	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	07/13/1998	07/14/2009	0	500	0	36,460	0	0	0	0	0	0	
Credit Cards		07/31/2009	02/20/1998	01/28/2003	0	0	0	36,460	0	0	0	0	0	0	
Lease Agreement		06/30/2003	06/20/1997	06/29/2001		3,911	0	385,779	0	0	0	0	0	0	
Credit Cards		03/31/2007	03/09/1988	10/23/2004	0	3,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		11/30/2007	01/10/2007	02/12/2010	0	16,282	12,212	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	10/01/1992	09/25/2009	0	500	0	36,460	0	0	0	0	0	0	
Lease Agreement		06/30/2003	05/10/1999	06/26/2001		11,322	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	11/27/2011	03/05/2014		10,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		06/30/2003	02/20/1997	07/01/2002	0	52,920	0	385,779	0	0	0	0	0	0	
Credit Cards		08/31/2015	04/13/2012	09/03/2017	18	10,000	393	36,460	0	0	0	0	0	0	
Lease Agreement		11/30/2013	02/28/2005	05/27/2010	0	2,397	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	08/05/2011	07/16/2021	24	5,700	4,039	36,460	0	0	0	0	0	0	
Lease Agreement		02/12/2009	03/29/2007		22	6,840	2,850	385,779	0	0	0	0	0	0	
Credit Cards		09/30/2017	10/27/2010	07/01/2017		0	0	36,460	0	0	0	0	0	0	
Lease Agreement		11/30/2010	11/20/2003	01/26/2009	0	2,097	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2014	01/19/2010		12	11,000	0	36,460	0	0	0	0	0	0	
Lease Agreement		06/30/2003	10/20/1997	05/07/2001		12,026	0	385,779	0	0	0	0	0	0	
Credit Cards		10/31/2013	06/09/1999	07/06/2010	0	6,250	0	36,460	0	0	0	0	0	0	
Lease Agreement		11/30/2007	01/10/2007	02/12/2010	0	16,282	11,282	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	06/24/2006	0	0	0	36,460	0	0	0	0	0	0	
Lease Agreement		06/30/2003	12/06/1998	06/20/2002		2,648	0	385,779	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	08/06/2010	0	6,250	0	36,460	0	0	0	0	0	0	
Credit Cards		04/30/2004	05/01/1994	12/02/2008	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		04/30/2004	03/01/1994	02/09/2000	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		04/30/2004	01/01/1993	11/10/2008	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		10/31/2009	11/01/1991	11/26/2008	0	6,700	0	36,460	0	0	0	0	0	0	
Credit Cards		09/30/2008	03/01/1991	06/30/1998	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	04/01/1990	06/30/1998	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	09/01/1990	05/26/2005	0	8,000	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	10/01/1989	11/26/2008	0	7,900	0	36,460	0	0	0	0	0	0	
Credit Cards		12/31/2013	08/01/1989	03/31/1999	24	0	0	36,460	0	0	0	0	0	0	2,375
Credit Cards		10/31/2009	07/01/1996	12/05/2008	0	8,500	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	06/24/2006	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	09/09/2004	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	12/06/1999	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	08/06/2010	0	6,250	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	06/24/2006	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	08/06/2010	0	6,250	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	01/21/2005	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	08/06/2010	0	6,250	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	08/06/2010	0	6,250	0	36,460	0	0	0	0	0	0	

Type	Lender	Date Reported	Open Date	Closed Date	Total Payments	Original Amount/Current Credit Line	Current Balance	Total Current Balance	Total Past Due	Past Due Cycle 1	Past Due Cycle 2	Past Due Cycle 3	Past Due Cycle 4	Past Due Cycle 5	Charge-Off Amount
Credit Cards		05/31/2022	06/09/1999	06/24/2006	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		09/30/2008	06/01/1996	06/30/1998	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		09/30/2008	03/01/1996	06/30/1998	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	09/01/1995	06/16/2009	0	500	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	07/01/1995	07/18/2010	0	5,700	0	36,460	0	0	0	0	0	0	
Credit Cards		09/30/2008	03/01/1992	02/03/2000	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	02/28/2003	11/25/2014		7,500	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	04/12/2002	04/30/2002		2,000	0	36,460	0	0	0	0	0	0	
Credit Cards		10/31/2013	11/24/1998	03/24/2006	0	10,000	0	36,460	0	0	0	0	0	0	
Credit Cards		11/30/2016	04/07/2000	04/02/2014	0	5,000	0	36,460	0	0	0	0	0	0	
Credit Cards		10/31/2016	10/13/1997	06/08/2006	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	06/24/2006	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	03/19/2003	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	06/24/2006	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	06/24/2006	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	06/24/2006	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	08/06/2010	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	06/24/2006	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	06/09/1999	06/24/2006	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		01/31/2018	10/31/2009	09/20/2017	12		0	36,460	0	0	0	0	0	0	
Credit Cards		04/30/2010	03/25/1997	01/14/2005	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		11/30/2016	04/10/1997	10/02/2001	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		11/30/2016	12/28/1995	01/31/2005	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		01/31/2004	11/10/1998	12/17/2007	0		413	36,460	0	0	0	0	0	0	
Credit Cards		11/30/2016	11/16/1998	07/01/2005	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		09/30/2008	06/03/1998	08/28/2001	0	0	0	36,460	0	0	0	0	0	0	
Credit Cards		06/30/2003	11/17/1998	08/26/2008	0		0	36,460	0	0	0	0	0	0	
Credit Cards		01/31/2014	11/12/2001	09/30/2005	0	6,750	0	36,460	0	0	0	0	0	0	1,396
Credit Cards		06/30/2003	10/18/2000	08/21/2008	0		0	36,460	0	0	0	0	0	0	
Credit Cards		05/31/2022	10/16/2000	06/09/2008	0	0	0	36,460	0	0	0	0	0	0	

## Risk Assessment

### D&B RISK ASSESSMENT

#### OVERALL BUSINESS RISK



#### Dun & Bradstreet thinks...

- Overall assessment of this organization over the next 12 months: **SOME-FINANCIAL-STRESS-CONCERNS**
- Based on the predicted risk of business discontinuation: **MODERATELY-HIGHER-THAN-AVERAGE-RISK-OF-FINANCIAL-STRESS**
- Based on the predicted risk of severely delinquent payments: **MODERATE POTENTIAL FOR SEVERELY DELINQUENT PAYMENTS**

#### MAXIMUM CREDIT RECOMMENDATION

**US\$ 2,000,000**

The recommended limit is based on a moderately high probability of severe delinquency or business failure.

### D&B VIABILITY RATING SUMMARY

The D&B Viability Rating uses D&B's proprietary analytics to compare the most predictive business risk indicators and deliver a highly reliable assessment of the probability that a company will go out of business, become dormant/inactive, or file for bankruptcy/insolvency within the next 12 months. The D&B Viability Rating is made up of 4 components:

### Viability Score

Compared to All US Businesses within the D&B Database:

- Level of Risk:**Low Risk**
- Businesses ranked **4** have a probability of becoming no longer viable: **5 %**
- Percentage of businesses ranked **4**: **14 %**
- Across all US businesses, the average probability of becoming no longer viable:**14 %**

### Portfolio Comparison

Compared to All US Businesses within the same MODEL SEGMENT:

- Model Segment :**Established Trade Payments**
- Level of Risk:**Moderate Risk**
- Businesses ranked **5** within this model segment have a probability of becoming no longer viable: **5 %**
- Percentage of businesses ranked **5** with this model segment: **11 %**
- Within this model segment, the average probability of becoming no longer viable:**5 %**

### Data Depth Indicator

Data Depth Indicator:

- ✓ Rich Firmographics
- ✓ Extensive Commercial Trading Activity
- ✓ Basic Financial Attributes

Greater data depth can increase the precision of the D&B Viability Rating assessment.

To help improve the current data depth of this company, you can ask D&B to make a personalized request to this company on your behalf to obtain its latest financial information. To make the request, click the link below. Note, the company must be saved to a folder before the request can be made.

### Request Financial Statements

Reference the FINANCIALS tab for this company to monitor the status of your request.

### Company Profile:

Company Profile Details:

- Financial Data: **False**
- Trade Payments:
- Company Size:
- Years in Business:

Z

Subsidiary

### FAILURE SCORE FORMERLY FINANCIAL STRESS SCORE



- Low proportion of satisfactory payment experiences to total payment experiences
- High proportion of slow payment experiences to total number of payment experiences
- UCC Filings reported
- High number of enquiries to D&B over last 12 months
- Evidence of open liens and judgments
- High proportion of past due balances to total amount owing

<b>Level of Risk</b> <b>Moderate-High</b>	<b>Raw Score</b> <b>1343</b>	<b>Probability of Failure</b> <b>2.29 %</b>	<b>Average Probability of Failure for Businesses in D&amp;B Database</b> <b>0.48</b>	<b>Class</b> <b>4</b>
----------------------------------------------	---------------------------------	------------------------------------------------	-----------------------------------------------------------------------------------------	--------------------------

### Business and Industry Trends

△ FAILURE SCORE □ Industry Median Quartile

### BUSINESS AND INDUSTRY COMPARISON

#### Selected Segments of Business Attributes

Norms	National %
This Business	2
Region:(SOUTH ATLANTIC)	33
Industry:MANUFACTURING	56
Employee range:(500-2300000)	53
Years in Business:(26+)	81

**DELINQUENCY SCORE** FORMERLY COMMERCIAL CREDIT SCORE



- Proportion of past due balances to total amount owing
- Proportion of slow payments in recent months
- Evidence of open suits, liens, and judgments
- Higher risk industry based on delinquency rates for this industry

<b>Level of Risk</b> <b>Moderate</b>	<b>Raw Score</b> <b>513</b>	<b>Probability of Delinquency</b> <b>4.75 %</b>	<b>Compared to Businesses in D&amp;B Database</b> <b>10.2 %</b>	<b>Class</b> <b>3</b>
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**Business and Industry Trends**

DELINQUENCY SCORE Industry Median Quartile

**BUSINESS AND INDUSTRY COMPARISON**

**Selected Segments of Business Attributes**

Norms	National %
This Business	60
Region:(SOUTH ATLANTIC)	34
Industry:MANUFACTURING	37
Employee range:(500-2768886)	76
Years in Business:(26+)	69

**D&B PAYDEX**



When weighted by amount, Payments to suppliers average 14 days beyond terms

- High risk of late payment (Average 30 to 120 days beyond terms)
- Medium risk of late payment (Average 30 days or less beyond terms)
- Low risk of late payment (Average prompt to 30+ days sooner)

**Industry Median 72**  
Equals 12 Days Beyond Terms

**D&B 3 MONTH PAYDEX**



Based on payments collected 3 months ago.  
When weighted by amount, Payments to suppliers average 19 days beyond terms

- High risk of late payment (Average 30 to 120 days beyond terms)
- Medium risk of late payment (Average 30 days or less beyond terms)
- Low risk of late payment (Average prompt to 30+ days sooner)

**Industry Median 72**  
Equals 12 Days Beyond Terms

**Business and Industry Trends**

3585 - Mfg refrigeration/heating equipment

PAYDEX Industry Lower Quartile Industry Median Quartile Industry Upper Quartile

Equals

**D&B RATING**

Current Rating as of 11/05/2009

**Special Rating**

-- : Undetermined

**Trade Payments**

**TRADE PAYMENTS SUMMARY (Based on 24 months of data)**

Overall Payment Behaviour  
**14**  
Days Beyond Terms

% of Trade Within Terms  
**56%**

Highest Past Due  
**US\$ 700,000**

**Highest Now Owing:**

US\$ 4,000,000

**Total Trade Experiences:**

715

Largest High Credit:  
US\$ 8,000,000Average High Credit:  
US\$ 109,748**Total Unfavorable Comments :**

1

Largest High Credit:  
US\$ 2,500**Total Placed in Collections:**

5

Largest High Credit:  
US\$ 0**D&B PAYDEX**

When weighted by amount, Payments to suppliers average 14 days beyond terms

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- Medium risk of late payment (Average 30 days or less beyond terms)
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**D&B 3 MONTH PAYDEX**

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**Industry Median 72**

Equals 12 Days Beyond Terms

**BUSINESS AND INDUSTRY TRENDS**

Based on 24 months of data

3585 - Mfg refrigeration/heating equipment

▲ PAYDEX 
 ■ Industry Lower Quartile 
 ○ Industry Median Quartile 
 ✱ Industry Upper Quartile

	7/20	8/20	9/20	10/20	11/20	12/20	1/21	2/21	3/21	4/21	5/21	6/21	7/21	8/21	9/21	10/21	11/21	12/21	1/22	2/22	3/22	4/22	5/22	2022	Current
This Business	73	73	73	72	72	72	72	72	72	72	72	72	72	74	74	71	73	73	74	72	73	73	71	71	
Industry Quartile																									
Upper	-	-	76	-	-	76	-	-	76	-	-	77	-	-	77	-	-	76	-	-	77	-	-	-	
Median	-	-	72	-	-	72	-	-	72	-	-	72	-	-	72	-	-	72	-	-	72	-	-	-	
Lower	-	-	67	-	-	67	-	-	67	-	-	67	-	-	67	-	-	67	-	-	67	-	-	-	

**TRADE PAYMENTS BY CREDIT EXTENDED (Based on 12 months of data)**

Range of Credit Extended (US\$)	Number of Payment Experiences	Total Value	% Within Terms
100,000 & over	88	US\$ 57,750,000	76
50,000 - 99,999	41	US\$ 2,950,000	50
15,000 - 49,999	90	US\$ 2,460,000	60
5,000 - 14,999	109	US\$ 772,500	52
1,000 - 4,999	123	US\$ 229,500	59
Less than 1,000	134	US\$ 40,600	57

**TRADE PAYMENTS BY INDUSTRY (BASED ON 24 MONTHS OF DATA)**

Collapse All | Expand All

Industry Category-	Number of Payment Experiences	Largest High Credit (US\$)	% Within Terms (Expand to View)	1 - 30 Days Late (%)	31 - 60 Days Late (%)	61 - 90 Days Late (%)	91 + Days Late (%)
15 - Building Construction - General Contractors and Operative Builders	1	2,500	50	0	0	0	50
1531 - Operative	1	2,500	50	0	0	0	50

<b>builders</b>								
▼17 - Construction - Special Trade Contractors	6	400,000	95	1	4	0	0	
1731 - Electrical contractor	3	400,000	90	2	8	0	0	
1711 - Mechanical contractor	3	100,000	100	0	0	0	0	
▼26 - Paper and Allied Products	5	500,000	33	33	0	0	0	
2653 - Mfg corrugated boxes	2	500,000	50	50	0	0	0	
2631 - Paperboard mill	2	400,000	49	50	0	0	1	
2679 - Mfg converted paper	1	0	0	0	0	0	0	
▼27 - Printing, Publishing and Allied Industries	12	1,000,000	54	9	29	0	9	
2759 - Misc coml printing	5	1,000,000	50	0	17	0	33	
2761 - Mfg manifold forms	5	100,000	64	34	0	0	2	
2711 - Newspaper-print/publ	1	5,000	0	0	100	0	0	
2741 - Misc publishing	1	100	100	0	0	0	0	
▼28 - Chemicals and Allied Products	4	750,000	84	16	0	0	0	
2851 - Mfg paint/allied prdt	2	250,000	51	49	0	0	0	
2821 - Mfg plastics/resins	1	750,000	100	0	0	0	0	
2891 - Mfg adhesives/sealant	1	200,000	100	0	0	0	0	
▼29 - Petroleum Refining and Related Industries	1	1,000	0	0	0	0	100	
2999 - Mfg misc petro prdts	1	1,000	0	0	0	0	100	
▼30 - Rubber and Miscellaneous Plastics Products	2	40,000	25	25	0	0	50	
3089 - Mfg misc plastic prdt	1	40,000	50	50	0	0	0	
3053 - Mfg sealing devices	1	500	0	0	0	0	100	
▼31 - Leather and Leather Products	1	75,000	50	50	0	0	0	
3143 - Mfg men's footwear	1	75,000	50	50	0	0	0	
▼33 - Primary Metal Industries	1	200,000	50	50	0	0	0	
3351 - Copper roll/drawing	1	200,000	50	50	0	0	0	

▼34 - Fabricated Metal Products except Machinery and Transportation Equipment	11	100,000	28	45	3	3	21
3491 - Mfg industrial valves	5	100,000	16	20	19	19	26
3494 - Mfg valve/pipe fittng	2	25,000	50	50	0	0	0
3433 - Mfg non-elect heaters	1	100,000	50	50	0	0	0
3443 - Mfg plate work	1	10,000	50	50	0	0	0
3444 - Mfg sheet metalwork	1	2,500	0	0	0	0	100
3452 - Mfg bolt/screw/rivets	1	1,000	0	100	0	0	0
▼35 - Industrial and Commercial Machinery and Computer Equipment	64	4,000,000	51	13	9	9	18
3585 - Mfg refrig/heat equip	30	4,000,000	96	2	1	0	1
3564 - Mfg blowers/fans	6	200,000	98	1	0	0	1
3593 - Mfg cylinder/actuator	5	500,000	48	49	0	0	3
3531 - Mfg construction mach	5	200,000	54	46	0	0	0
3572 - Mfg computer storage	5	30,000	47	40	8	0	5
3579 - Mfg misc office eqpt	5	750	80	15	0	0	5
3569 - Mfg general machinery	2	1,000,000	50	0	38	12	0
3563 - Mfg air/gas compress	2	2,500	36	0	64	0	0
3534 - Mfg elevator/escaltrs	1	55,000	0	0	0	0	100
3548 - Mfg welding apparatus	1	10,000	0	0	0	0	100
3599 - Mfg industrial mach	1	5,000	100	0	0	0	0
3553 - Mfg woodworking mach.	1	2,500	0	0	0	100	0
▼36 - Electronic and other electrical equipment and components except computer equipment	31	8,000,000	49	24	3	20	4
3625 - Mfg relays/controls	8	8,000,000	51	48	1	0	0

3621 - Mfg motors/generators	8	250,000	50	0	26	0	24
3672 - Mfg print circuit brd	5	1,000,000	50	0	0	47	3
3678 - Mfg elect. connectors	4	20,000	36	43	7	0	14
3694 - Mfg elect engine eqpt	1	20,000	50	50	0	0	0
3639 - Mfg home appliances	1	20,000	100	0	0	0	0
3643 - Mfg electric wire dev	1	7,500	100	0	0	0	0
3613 - Mfg switchgear-boards	1	5,000	0	0	0	100	0
3645 - Mfg home light fixt	1	2,500	50	0	0	50	0
3648 - Mfg misc light equip	1	750	0	100	0	0	0
▼37 - Transportation Equipment	3	600,000	50	27	0	0	24
3724 - Mfg plane engine/part	2	35,000	0	53	0	0	47
3714 - Mfg car parts	1	600,000	100	0	0	0	0
▼38 - Measuring Analyzing and Controlling Instruments; Photographic Medical and Optical Goods; Watches and Clocks	26	400,000	31	11	37	6	15
3823 - Mfg process controls	10	250,000	60	6	0	34	0
3861 - Mfg photograph equip	5	400,000	0	0	86	0	14
3842 - Mfg surgical supplies	4	80,000	52	0	45	3	0
3824 - Mfg fluid meters	3	80,000	0	62	38	0	0
3851 - Mfg ophthalmic goods	3	10,000	22	0	0	0	78
3825 - Mfg electric test prd	1	1,000	50	0	50	0	0
▼42 - Motor Freight Transportation and Warehousing	19	200,000	53	32	0	0	15
4213 - Trucking non-local	19	200,000	53	32	0	0	15
▼45 - Transportation by Air	1	1,000	100	0	0	0	0
4513 - Air courier service	1	1,000	100	0	0	0	0
▼47 - Transportation Services	10	250,000	30	35	1	33	1
4731 - Arrange	10	250,000	30	35	1	33	1

cargo transpt							
▼48 - Communications	20	45,000	64	0	0	36	0
4813 - Telephone communictns	15	45,000	92	0	0	7	1
4812 - Radiotelephone commun	4	7,500	100	0	0	0	0
4833 - Television station	1	7,500	0	0	0	100	0
▼49 - Electric, Gas and Sanitary Services	18	200,000	88	13	0	0	0
4911 - Electric services	17	200,000	75	25	0	0	0
4924 - Natural gas distrib	1	1,000	100	0	0	0	0
▼50 - Wholesale Trade - Durable Goods	174	900,000	59	14	14	3	11
5063 - Whol electrical equip	42	900,000	54	39	1	1	5
5074 - Whol plumb/hydraulics	39	75,000	18	42	24	16	0
5084 - Whol industrial equip	25	250,000	64	4	16	0	16
5085 - Whol industrial suppl	24	750,000	92	4	2	0	2
5065 - Whol electronic parts	13	400,000	60	36	0	4	0
5075 - Whol heating/ac equip	11	20,000	41	9	28	3	19
5051 - Whol metal	7	95,000	28	34	38	0	0
5072 - Whol hardware	2	25,000	50	22	0	28	0
5031 - Whol lumber/millwork	2	10,000	97	3	0	0	0
5023 - Whol homefurnishings	1	750,000	50	50	0	0	0
5082 - Whol const/mine equip	1	50,000	50	0	50	0	0
5083 - Whol farm/garden mach	1	35,000	50	0	0	0	50
5064 - Whol appliances	1	20,000	100	0	0	0	0
5044 - Whol office equipment	1	10,000	100	0	0	0	0
5078 - Whol refrig equip	1	2,500	100	0	0	0	0
5045 - Whol computers/softwr	1	2,500	100	0	0	0	0
5013 - Whol auto parts	1	1,000	0	0	0	0	100

5046 - Whol misc coml equip	1	750	0	0	100	0	0
▼51 - Wholesale Trade - Nondurable Goods	22	80,000	67	13	13	5	2
5169 - Whol chemicals	10	80,000	50	24	3	20	3
5172 - Whol petroleum prdts	5	35,000	78	0	11	4	7
5113 - Whol service paper	5	20,000	57	41	0	0	2
5199 - Whol nondurable goods	1	25,000	100	0	0	0	0
5149 - Whol groceries	1	2,500	50	0	50	0	0
▼55 - Automotive Dealers and Gasoline Service Stations	3	40,000	100	0	0	0	0
5541 - Gas service station	2	5,000	100	0	0	0	0
5511 - Ret new/used autos	1	40,000	100	0	0	0	0
▼57 - Home Furniture Furnishings and Equipment Stores	2	6,000,000	100	0	0	0	0
5734 - Ret computer/software	1	6,000,000	100	0	0	0	0
5712 - Ret furniture	1	2,500	100	0	0	0	0
▼59 - Miscellaneous Retail	11	15,000	40	0	0	0	60
5999 - Ret misc merchandise	7	15,000	20	0	0	0	80
5943 - Ret stationery	3	7,500	100	0	0	0	0
5983 - Ret fuel oil dealer	1	5,000	0	0	0	0	100
▼60 - Depository Institutions	6	10,000	61	0	39	0	0
6021 - Natnl commercial bank	6	10,000	61	0	39	0	0
▼61 - Nondepository Credit Institutions	8	300,000	33	44	0	0	24
6153 - Short-trm busn credit	6	300,000	60	40	0	0	0
6159 - Misc business credit	2	1,000	5	47	0	0	48
▼73 - Business Services	41	5,000,000	54	31	12	2	2
7359 - Misc equipment rental	11	200,000	45	17	36	1	1
7361 - Employment agency	7	5,000,000	91	9	0	0	0

7389 - Misc business service	6	1,000	44	0	24	16	16
7381 - Detective/guard svcs	5	400,000	46	27	27	0	0
7363 - Help supply service	5	200,000	99	1	0	0	0
7372 - Prepackaged software	3	100,000	27	68	5	0	0
7353 - Hvy const eqpt rental	3	5,000	26	74	0	0	0
7373 - Computer system desgn	1	600,000	50	50	0	0	0
▼75 - Automotive Repair, Services and Parking	1	50	0	0	100	0	0
7513 - Truck rental/leasing	1	50	0	0	100	0	0
▼76 - Miscellaneous Repair Services	1	2,500	100	0	0	0	0
7694 - Armature rewinding	1	2,500	100	0	0	0	0
▼83 - Social Services	2	2,500	100	0	0	0	0
8322 - Family social service	2	2,500	100	0	0	0	0
▼87 - Engineering Accounting Research Management and Related Services	22	300,000	42	31	2	20	5
8744 - Facilities support	5	300,000	50	29	16	5	0
8734 - Testing laboratory	5	80,000	50	3	0	47	0
8742 - Management consulting	4	1,000	69	0	0	0	31
8748 - Business consulting	3	55,000	20	40	0	37	3
8711 - Engineering services	2	100,000	100	0	0	0	0
8741 - Management services	2	20,000	6	44	0	50	0
8721 - Accounting services	1	500	0	100	0	0	0
▼91 - Executive Legislative and General Government except Finance	1	2,500	100	0	0	0	0
9111 - Executive office	1	2,500	100	0	0	0	0
▼93 - Public Finance Taxation and Monetary Policy	24	100,000	100	0	0	0	0

9311 - Public finance	24	100,000	100	0	0	0	0
94 - Administration of Human Resource Programs	2	10,000	100	0	0	0	0
9431 - Admin public health	2	10,000	100	0	0	0	0
96 - Administration of Economic Programs	1	100	100	0	0	0	0
9611 - Admin economic prgm	1	100	100	0	0	0	0
99 - Nonclassifiable Establishments	35	750,000	89	4	4	2	1
9999 - Nonclassified	35	750,000	89	4	4	2	1

**TRADE LINES**

Date of Experience	Payment Status	Selling Terms	High Credit (US\$)	Now Owes (US\$)	Past Due (US\$)	Months Since Last Sale
06/22	Pays Promptly	N30	5,000	0	0	1
06/22	Pays Promptly	N30	2,500	0	0	1
06/22	Pays Promptly	N30	1,000	500	0	1
06/22	Pays Promptly	N30	750	750	0	1
06/22	Pays Promptly	-	250	250	0	1
06/22	Pays Slow 60+	N30	5,000	5,000	5,000	Between 2 and 3 Months
06/22	Pays Slow 30-90+	-	55,000	0	0	Between 2 and 3 Months
06/22	Pays Slow 90+	-	7,500	0	0	Between 6 and 12 Months
05/22	Pays Promptly	N90	5,000,000	3,000,000	0	1
05/22	Pays Promptly	-	750,000	600,000	0	1
05/22	Pays Promptly	-	250,000	100,000	0	1
05/22	Pays Promptly	-	100,000	100,000	0	1
05/22	Pays Promptly	-	80,000	55,000	0	1
05/22	Pays Promptly	-	40,000	25,000	1,000	1
05/22	Pays Promptly	-	30,000	0	0	Between 2 and 3 Months
05/22	Pays Promptly	-	20,000	15,000	0	1
05/22	Pays Promptly	-	10,000	5,000	0	1
05/22	Pays Promptly	-	10,000	10,000	0	1
05/22	Pays Promptly	-	7,500	2,500	0	1
05/22	Pays Promptly	-	5,000	5,000	0	1
05/22	Pays Promptly	-	5,000	0	0	Between 6 and 12 Months
05/22	Pays Promptly	-	2,500	2,500	750	1
05/22	Pays Promptly	-	2,500	2,500	0	1
05/22	Pays Promptly	-	2,500	2,500	0	1
05/22	Pays Promptly	-	2,500	0	0	1
05/22	Pays Promptly	-	2,500	1,000	0	1
05/22	Pays Promptly	-	2,500	2,500	0	1
05/22	Pays Promptly	-	2,500	750	0	1
05/22	Pays Promptly	-	1,000	0	0	Between 6 and 12 Months
05/22	Pays Promptly	-	1,000	500	0	1
05/22	Pays Promptly	-	1,000	0	0	Between 2 and 3 Months

Date of Experience	Payment Status	Selling Terms	High Credit (US\$)	Now Owes (US\$)	Past Due (US\$)	Months Since Last Sale
05/22	Pays Promptly	N30	1,000	0	0	Between 4 and 5 Months
05/22	Pays Promptly	-	750	250	0	1
05/22	Pays Promptly	-	500	0	0	1
05/22	Pays Promptly	-	250	0	0	1
05/22	Pays Promptly	-	250	0	0	Between 6 and 12 Months
05/22	Pays Promptly	-	250	250	0	1
05/22	Pays Promptly	-	100	0	0	1
05/22	Pays Promptly	-	100	50	0	1
05/22	Pays Promptly	-	50	0	0	1
05/22	Pays Promptly	-	50	0	0	Between 6 and 12 Months
05/22	Pays Promptly	-	50	50	0	1
05/22	Pays Promptly	-	50	0	0	Between 6 and 12 Months
05/22	Pays Prompt to Slow 15+	-	5,000	5,000	2,500	1
05/22	Pays Prompt to Slow 30+	-	500,000	500,000	60,000	1
05/22	Pays Prompt to Slow 30+	-	200,000	200,000	55,000	1
05/22	Pays Prompt to Slow 30+	-	200,000	200,000	55,000	1
05/22	Pays Prompt to Slow 30+	-	100,000	80,000	30,000	1
05/22	Pays Prompt to Slow 30+	-	85,000	25,000	25,000	1
05/22	Pays Prompt to Slow 30+	-	55,000	2,500	500	1
05/22	Pays Prompt to Slow 30+	-	20,000	7,500	1,000	1
05/22	Pays Prompt to Slow 30+	-	20,000	0	0	Between 6 and 12 Months
05/22	Pays Prompt to Slow 30+	-	2,500	750	250	1
05/22	Pays Prompt to Slow 60+	N30	10,000	0	0	Between 6 and 12 Months
05/22	Pays Prompt to Slow 60+	-	2,500	2,500	50	1
05/22	Pays Prompt to Slow 60+	-	1,000	1,000	1,000	Between 6 and 12 Months
05/22	Pays Prompt to Slow 60+	-	2,500	250	250	Between 2 and 3 Months
05/22	Pays Prompt to Slow 90+	-	750	0	0	Between 6 and 12 Months
05/22	Pays Prompt to Slow 90+	-	70,000	40,000	10,000	1
05/22	Pays Prompt to Slow 120+	-	5,000	2,500	1,000	1
05/22	Pays Prompt to Slow 150+	N30	40,000	20,000	15,000	1
05/22	Pays Prompt to Slow 180+	N30	250,000	0	0	Between 2 and 3 Months
05/22	Pays Slow 30+	-	30,000	0	0	Between 2 and 3 Months
05/22	Pays Slow 30+	-	10,000	0	0	Between 4 and 5 Months
05/22	Pays Slow 30+	-	2,500	500	50	1
05/22	Pays Slow 30+	-	50	0	0	Between 2 and 3 Months
05/22	Pays Slow 60+	-	75,000	50,000	10,000	-
05/22	Pays Slow 60+	-	1,000	0	0	Between 4 and 5 Months
05/22	Pays Slow 60+	-	250	0	0	Between 6 and 12 Months

Date of Experience	Payment Status	Selling Terms	High Credit (US\$)	Now Owes (US\$)	Past Due (US\$)	Months Since Last Sale
05/22	Pays Slow 60+	-	100	100	100	-
05/22	Pays Slow 30-60+	-	20,000	2,500	2,500	-
05/22	Pays Slow 90+	-	7,500	7,500	7,500	1
05/22	Pays Slow 90+	-	2,500	2,500	2,500	-
05/22	Pays Slow 90+	-	2,500	2,500	1,000	1
05/22	Pays Slow 90+	-	2,500	2,500	2,500	-
05/22	Pays Slow 30-120+	N30	10,000	2,500	1,000	1
05/22	Pays Slow 120+	-	50	50	50	-
05/22	Pays Slow 60-180+	-	1,000	1,000	1,000	-
05/22	Placed for collection	-	0	2,500	2,500	-
05/22	-	Sales COD	0	0	0	1

#### OTHER PAYMENT CATEGORIES

Other Payment Categories	Experience	Total Amount
Cash experiences	103	US\$ 222,300
Payment record unknown	14	US\$ 419,350
Unfavorable comments	1	US\$ 2,500
Placed for collections	5	US\$ 0
<b>Total in D&amp;B's file</b>	<b>715</b>	<b>US\$ 64,846,750</b>

Accounts are sometimes placed for collection even though the existence or amount of the debt is disputed. Payment experiences reflect how bills are met in relation to the terms granted. In some instances payment beyond terms can be the result of disputes over merchandise, skipped invoices etc. Each experience shown represents a separate account reported by a supplier. Updated trade experiences replace those previously reported.

#### Corporate Linkage

Increase your understanding of the links and risks between your customers and suppliers with D&B's Interactive Global Family Tree

#### GLOBAL ULTIMATE

Company	City , Country or Region	D-U-N-S® NUMBER
TRANE TECHNOLOGIES PUBLIC LIMITED COMPANY	SWORDS , IRELAND	98-503-3590

#### DOMESTIC ULTIMATE

Company	City , State	D-U-N-S® NUMBER
INGERSOLL-RAND US TRANE HOLDINGS CORPORATION	PISCATAWAY , New Jersey	96-330-6712

#### PARENT

Company	City , State	D-U-N-S® NUMBER
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<b>TRANE INC.</b>	<b>PISCATAWAY , New Jersey</b>	<b>19-144-4587</b>
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<b>SUBSIDIARIES (DOMESTIC)</b>		
<b>Company</b>	<b>City , State</b>	<b>D-U-N-S® NUMBER</b>
<b>AMERICAN STANDARD LEASING INC</b>	<b>NASHVILLE , Tennessee</b>	<b>03-059-3599</b>
<b>THE TRANE COMPANY</b>	<b>LA CROSSE , Wisconsin</b>	<b>07-027-2299</b>
<b>A-S ENERGY, INC</b>	<b>NEW YORK , New York</b>	<b>10-328-6373</b>
<b>TRANE PUERTO RICO INC.</b>	<b>SAN JUAN , Puerto Rico</b>	<b>78-434-8349</b>
<b>AMERICAN STANDARD INTERNATIONAL INC.</b>	<b>PISCATAWAY , New Jersey</b>	<b>79-434-2063</b>
<b>TRANE INDIA LTD.</b>	<b>DAVIDSON , North Carolina</b>	<b>84-836-8002</b>
<b>TWENTYTHREEC, LLC</b>	<b>DAVIDSON , North Carolina</b>	<b>11-751-8021</b>
<b>TRANE CO</b>	<b>COLUMBIA , South Carolina</b>	<b>04-484-4910</b>

<b>SUBSIDIARIES (INTERNATIONAL)</b>		
<b>Company</b>	<b>City , Country or Region</b>	<b>D-U-N-S® NUMBER</b>
<b>Arctic Cool Chillers Limited</b>	<b>BRAMPTON , CANADA</b>	<b>20-295-1331</b>
<b>TRANE DISTRIBUTION PTE. LTD.</b>	<b>SINGAPORE , SINGAPORE</b>	<b>59-533-2230</b>
<b>SERVICE FIRST (UNITARY) (PTY) LTD</b>	<b>RANDBURG , SOUTH AFRICA</b>	<b>53-917-1709</b>

<b>BRANCHES (DOMESTIC)</b>		
<b>Company</b>	<b>City , State</b>	<b>D-U-N-S® NUMBER</b>
<b>TRANE U.S. INC.</b>	<b>CHATTANOOGA , Tennessee</b>	<b>00-103-5257</b>
<b>TRANE U.S. INC.</b>	<b>SAINT PAUL , Minnesota</b>	<b>00-521-1326</b>
<b>TRANE U.S. INC.</b>	<b>SHELTON , Connecticut</b>	<b>00-771-5048</b>
<b>TRANE U.S. INC.</b>	<b>CUPERTINO , California</b>	<b>01-092-8398</b>
<b>TRANE U.S. INC.</b>	<b>BRIDGETON , Missouri</b>	<b>01-594-2030</b>
<b>TRANE U.S. INC.</b>	<b>WESTBROOK , Maine</b>	<b>01-702-4402</b>
<b>TRANE U.S. INC.</b>	<b>FISHERS , Indiana</b>	<b>01-797-6890</b>
<b>TRANE U.S. INC.</b>	<b>ROANOKE , Virginia</b>	<b>01-811-2347</b>
<b>TRANE U.S. INC.</b>	<b>OMAHA , Nebraska</b>	<b>01-840-0783</b>
<b>TRANE U.S. INC.</b>	<b>PEORIA , Illinois</b>	<b>01-840-1013</b>
<b>TRANE U.S. INC.</b>	<b>ASHLAND , Virginia</b>	<b>01-840-2201</b>
<b>TRANE U.S. INC.</b>	<b>SUNNYVALE , California</b>	<b>01-840-2789</b>

TRANE U.S. INC.	OAKLAND , California	01-840-3365
TRANE U.S. INC.	SANTA ROSA , California	01-840-3738
TRANE U.S. INC.	ANCHORAGE , Alaska	01-840-4264
TRANE U.S. INC.	SOUTH BEND , Indiana	01-840-4280
TRANE U.S. INC.	FORT WAYNE , Indiana	01-840-4603
TRANE U.S. INC.	SIOUX FALLS , South Dakota	01-840-4801
TRANE U.S. INC.	SPOKANE VALLEY , Washington	01-840-5337
TRANE U.S. INC.	PERRYSBURG , Ohio	01-840-6020
TRANE U.S. INC.	NEW CASTLE , Delaware	01-840-7234
TRANE U.S. INC.	SANTA CRUZ , California	01-834-8420
TRANE U.S. INC.	LEXINGTON , Kentucky	01-865-1237
TRANE U.S. INC.	FLINT , Michigan	01-817-0006
TRANE U.S. INC.	GREAT FALLS , Montana	01-817-0451

This list is limited to the first 25 branches.

AFFILIATES (DOMESTIC)		
Company	City , State	D-U-N-S® NUMBER
FELLON-MCCORD & ASSOCIATES, LLC	LOUISVILLE , Kentucky	79-602-2796
HOUSTON TRANE, INC.	LUBBOCK , Texas	78-304-5094
STANDARD TRANE INSURANCE COMPANY	BURLINGTON , Vermont	61-959-8308
AMERICAN SOCIETY OF HEATING	GREENVILLE , South Carolina	07-254-3171

AFFILIATES (INTERNATIONAL)		
Company	City , Country or Region	D-U-N-S® NUMBER
R&O Immobilien GmbH	OBERHAUSEN , GERMANY	31-250-4949
Trane S.A.	Romont FR , SWITZERLAND	48-785-9605
Trane Logística, S. A. de C. V.	NAUCALPAN , MEXICO	81-251-3562
Industria Cerámica del Centro, S.A. de C.V.	NAUCALPAN , MEXICO	81-251-3604

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#### Legal Events

The following Public Filing data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.

Bankruptcies	Judgements	Liens	Suits	UCCs
<b>No</b>	<b>1</b> Latest Filing: 10/27/2017	<b>10</b> Latest Filing: 10/24/2020	<b>7</b> Latest Filing: 03/16/2020	<b>421</b> Latest Filing: 02/07/2022

## EVENTS

### Judgement - Court Judgement

<b>Filing Date</b>	10/27/2017
<b>Filing Number</b>	SC 000879 17
<b>Status</b>	Unsatisfied
<b>Date Status Attained</b>	10/27/2017
<b>Received Date</b>	10/30/2017
<b>Award</b>	US\$ 336
<b>Debtors</b>	TRANE US INC, TYLER, TX
<b>Creditors</b>	GLOBAL CURRENCY SERVLLC, MORRISVILLE, PA
<b>Court</b>	SPECIAL CIVIL/SMALL CLAIMS COURT OF MERCER COUNTY, TRENTON, NJ

### Lien - Tax Lien

<b>Filing Date</b>	10/24/2020
<b>Filing Number</b>	30011846
<b>Status</b>	Open
<b>Date Status Attained</b>	10/24/2020
<b>Received Date</b>	12/02/2020
<b>Amount</b>	US\$ 15,097
<b>Debtors</b>	TRANE US INCORPORATED AND OTHERS
<b>Creditors</b>	STATE OF INDIANA
<b>Court</b>	MARION COUNTY CIRCUIT COURT, INDIANAPOLIS, IN

### Lien - Tax Lien

<b>Filing Date</b>	08/25/2020
<b>Filing Number</b>	12330328
<b>Status</b>	Open
<b>Date Status Attained</b>	08/25/2020
<b>Received Date</b>	09/30/2020
<b>Amount</b>	US\$ 12,716
<b>Debtors</b>	TRANE US INCORPORATED AND OTHERS
<b>Creditors</b>	STATE OF INDIANA
<b>Court</b>	MARION COUNTY CIRCUIT COURT, INDIANAPOLIS, IN

Lien - Tax Lien

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<b>Filing Date</b>	07/14/2020
<b>Filing Number</b>	1842539
<b>Status</b>	Open
<b>Date Status Attained</b>	07/14/2020
<b>Received Date</b>	10/26/2020
<b>Amount</b>	US\$ 25
<b>Debtors</b>	TRANE US INC AND OTHERS
<b>Creditors</b>	BALDWIN COUNTY SALES & USE TAX DEPARTMENT
<b>Court</b>	BALDWIN COUNTY RECORDER OF DEEDS, BAY MINETTE, AL

Lien - Tax Lien

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<b>Filing Date</b>	07/08/2020
<b>Filing Number</b>	12288701
<b>Status</b>	Open
<b>Date Status Attained</b>	07/08/2020
<b>Received Date</b>	08/01/2020
<b>Amount</b>	US\$ 6,051
<b>Debtors</b>	TRANE US INCORPORATED AND OTHERS
<b>Creditors</b>	STATE OF INDIANA
<b>Court</b>	MARION COUNTY CIRCUIT COURT, INDIANAPOLIS, IN

Lien - Tax Lien

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<b>Filing Date</b>	07/08/2020
<b>Filing Number</b>	12291891
<b>Status</b>	Release
<b>Date Status Attained</b>	09/25/2020
<b>Received Date</b>	12/02/2020
<b>Amount</b>	US\$ 9,965
<b>Debtors</b>	TRANE US INCORPORATED AND OTHERS
<b>Creditors</b>	STATE OF INDIANA
<b>Court</b>	MARION COUNTY CIRCUIT COURT, INDIANAPOLIS, IN

Lien - Tax Lien

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<b>Filing Date</b>	07/08/2020
<b>Filing Number</b>	12304243
<b>Status</b>	Release
<b>Date Status Attained</b>	09/25/2020
<b>Received Date</b>	12/02/2020

<b>Amount</b>	US\$ 9,991
<b>Debtors</b>	TRANE US INCORPORATED AND OTHERS
<b>Creditors</b>	STATE OF INDIANA
<b>Court</b>	MARION COUNTY CIRCUIT COURT, INDIANAPOLIS, IN

**Lien - Tax Lien**

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<b>Filing Date</b>	07/08/2020
<b>Filing Number</b>	12320496
<b>Status</b>	Release
<b>Date Status Attained</b>	10/16/2020
<b>Received Date</b>	12/02/2020
<b>Amount</b>	US\$ 270,728
<b>Debtors</b>	TRANE COMPANY THE, RUSHVILLE, IN
<b>Creditors</b>	STATE OF INDIANA
<b>Court</b>	MARION COUNTY CIRCUIT COURT, INDIANAPOLIS, IN

**Lien - Tax Lien**

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<b>Filing Date</b>	07/08/2020
<b>Filing Number</b>	12321979
<b>Status</b>	Release
<b>Date Status Attained</b>	09/25/2020
<b>Received Date</b>	12/02/2020
<b>Amount</b>	US\$ 6,674
<b>Debtors</b>	TRANE US INCORPORATED AND OTHERS
<b>Creditors</b>	STATE OF INDIANA
<b>Court</b>	MARION COUNTY CIRCUIT COURT, INDIANAPOLIS, IN

**Lien - Tax Lien**

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<b>Filing Date</b>	02/20/2020
<b>Filing Number</b>	2470/3411
<b>Status</b>	Open
<b>Date Status Attained</b>	02/20/2020
<b>Received Date</b>	03/19/2020
<b>Amount</b>	US\$ 3,410
<b>Debtors</b>	TRANE US INC, NASHVILLE, TN
<b>Creditors</b>	SOUTH CAROLINA DEPARTMENT OF EMPLOYMENT AND WORKFORCE
<b>Court</b>	RICHLAND COUNTY REGISTER OF DEEDS, COLUMBIA, SC

**Lien - Tax Lien**

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**Filing Date** 03/13/2017  
**Filing Number** 2193/2103  
**Status** Open  
**Date Status Attained** 03/13/2017  
**Received Date** 04/12/2017  
**Amount** US\$ 76,060  
**Debtors** TRANE U S INC  
**Creditors** SOUTH CAROLINA DEPARTMENT OF REVENUE  
**Court** RICHLAND COUNTY REGISTER OF DEEDS, COLUMBIA, SC

**Suit**

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**Filing Date** 03/16/2020  
**Filing Number** 202000301995  
**Status** Pending  
**Date Status Attained** 03/16/2020  
**Received Date** 03/20/2020  
**Cause** Breach Of Contract  
**Plaintiffs** A.A. DUCKETT, INC., GLASSBORO, NJ  
**Defendant** TRANE, PUEBLO, CO  
**Defendant** TRANE U.S. INC., KING OF PRUSSIA, PA  
**Defendant** AND OTHERS  
**Court** PHILADELPHIA COUNTY COMMON PLEAS COURT, PHILADELPHIA, PA

**Suit**

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**Filing Date** 03/16/2020  
**Filing Number** 202000301995  
**Status** Pending  
**Date Status Attained** 03/16/2020  
**Received Date** 03/20/2020  
**Cause** Breach Of Contract  
**Plaintiffs** A.A. DUCKETT, INC., GLASSBORO, NJ  
**Defendant** TRANE, PUEBLO, CO  
**Defendant** TRANE U.S. INC., KING OF PRUSSIA, PA  
**Defendant** AND OTHERS  
**Court** PHILADELPHIA COUNTY COMMON PLEAS COURT, PHILADELPHIA, PA

**Suit**

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**Filing Date** 05/28/2019  
**Filing Number** 2019-016336-CA-01

<b>Status</b>	Pending
<b>Date Status Attained</b>	05/28/2019
<b>Received Date</b>	06/01/2019
<b>Plaintiffs</b>	DEAUVILLE HOTEL PROPERTY LLC
<b>Defendant</b>	TRANE USA, INC., MIARAMAR, FL
<b>Defendant</b>	AND OTHERS
<b>Court</b>	DADE COUNTY CIRCUIT COURT, MIAMI, FL

**Suit**

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<b>Filing Date</b>	01/02/2019
<b>Filing Number</b>	201801203530
<b>Status</b>	Pending
<b>Date Status Attained</b>	01/02/2019
<b>Received Date</b>	01/04/2019
<b>Cause</b>	Breach Of Contract
<b>Plaintiffs</b>	HUNTER ROBERTS CONSTRUCTION GROUP, LLC, PHILADELPHIA, PA
<b>Defendant</b>	TRANE U.S., INC., KING OF PRUSSIA, PA
<b>Defendant</b>	AND OTHERS
<b>Court</b>	PHILADELPHIA COUNTY COMMON PLEAS COURT, PHILADELPHIA, PA

**Suit**

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<b>Filing Date</b>	07/29/2015
<b>Filing Number</b>	201500013014
<b>Status</b>	Pending
<b>Date Status Attained</b>	07/29/2015
<b>Received Date</b>	07/08/2016
<b>Plaintiffs</b>	JEWISH COMMUNITY CENTER OF GREATER PITTSBURGH, PITTSBURGH, PA
<b>Defendant</b>	TRANE, PITTSBURGH, PA
<b>Court</b>	ALLEGHENY COUNTY PROTHONOTARY, PITTSBURGH, PA

**Suit**

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<b>Filing Date</b>	10/02/2014
<b>Filing Number</b>	201400904451
<b>Status</b>	Pending
<b>Date Status Attained</b>	10/02/2014
<b>Received Date</b>	07/08/2016
<b>Plaintiffs</b>	SULLIVAN JR., GERALD G, CHICAGO, IL
<b>Defendant</b>	TRANE U.S. INC.
<b>Defendant</b>	AND OTHERS

**Court** PHILADELPHIA COUNTY COMMON PLEAS COURT, PHILADELPHIA, PA

**Suit**

**Filing Date** 03/19/2014  
**Filing Number** 2014CV000423  
**Status** Pending  
**Date Status Attained** 03/19/2014  
**Received Date** 07/08/2016  
**Plaintiffs** VILLAGE OF PLEASANT PRAIRIE, PLEASANT PRAIRIE, WI  
**Defendant** TRANE US INC, LA CROSSE, WI  
**Defendant** AND OTHERS  
**Court** KENOSHA COUNTY CIRCUIT COURT, KENOSHA, WI

**UCC Filing - Continuation**

**Filing Date** 08/17/2018  
**Filing Number** 1876644645  
**Received Date** 08/20/2018  
**Original Filing Date** 02/10/2014  
**Original Filing Number** 147398867164  
**Secured Party** WACHOVIA MORTGAGE, FSB FKA WORLD SAVINGS BANK, FSB FKA WORLD SAVINGS AND LOAN ASSOCIATION AND FANNIE MAE, CHARLOTTE, NC  
**Secured Party** WELLS FARGO BANK, N.A., CHARLOTTE, NC  
**Debtors** TODD J. ELMGREN AND BROOKE STROH ELMGREN, CO-TRUSTEES OF THE ELMGREN FAMILY TRUST DATED OCTOBER 16, 2000, OAKLAND, CA  
**Filing Office** SECRETARY OF STATE/UCC DIVISION, SACRAMENTO, CA

**UCC Filing - Original**

**Filing Date** 05/31/2018  
**Filing Number** 2018 3692833  
**Received Date** 07/10/2018  
**Collateral** Account(s) including proceeds and products - Assets including proceeds and products - Machinery including proceeds and products - Computer equipment including proceeds and products - and OTHERS  
**Secured Party** PUBLIC SERVICE ELECTRIC AND GAS COMPANY, NEWARK, NJ  
**Debtors** TRANE U.S. INC., HAMILTON, NJ  
**Filing Office** SECRETARY OF STATE/UCC DIVISION, DOVER, DE

**UCC Filing - Original**

**Filing Date** 05/31/2018  
**Filing Number** 52812503  
**Received Date** 07/03/2018

**Collateral** Assets including proceeds and products - General intangibles(s) including proceeds and products - Fixtures including proceeds and products - Equipment including proceeds and products

**Secured Party** PUBLIC SERVICE ELECTRIC AND GAS COMPANY, NEWARK, NJ

**Debtors** TRANE U.S. INC., HAMILTON, NJ

**Filing Office** SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ

**UCC Filing** - Original

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**Filing Date** 10/30/2017

**Filing Number** 2017 7164371

**Received Date** 12/01/2017

**Collateral** Account(s) and proceeds - Leased Equipment and proceeds

**Secured Party** MARLIN BUSINESS BANK, SALT LAKE CITY, UT

**Debtors** TRANE U.S. INC., GREENVILLE, SC

**Filing Office** SECRETARY OF STATE/UCC DIVISION, DOVER, DE

**UCC Filing** - Original

---

**Filing Date** 09/28/2017

**Filing Number** 2017 6463753

**Received Date** 11/03/2017

**Collateral** Account(s) and proceeds - General intangibles(s) and proceeds - Chattel paper and proceeds - Leased Equipment and proceeds

**Secured Party** BANC OF AMERICA LEASING & CAPITAL, LLC, HUNT VALLEY, MD

**Debtors** TRANE U.S. INC.

**Debtors** and OTHERS

**Filing Office** SECRETARY OF STATE/UCC DIVISION, DOVER, DE

**UCC Filing** - Original

---

**Filing Date** 09/05/2017

**Filing Number** 2017 5876401

**Received Date** 10/03/2017

**Collateral** Account(s) and proceeds - General intangibles(s) and proceeds - Chattel paper and proceeds - Leased Equipment and proceeds

**Secured Party** BANC OF AMERICA LEASING & CAPITAL, LLC, HUNT VALLEY, MD

**Debtors** TRANE U.S. INC.

**Debtors** and OTHERS

**Filing Office** SECRETARY OF STATE/UCC DIVISION, DOVER, DE

**UCC Filing** - Original

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**Filing Date** 09/05/2017

**Filing Number** 52394102

**Received Date** 09/26/2017

**Collateral** Account(s) and proceeds - General intangibles(s) and proceeds - Chattel paper and proceeds - Leased Equipment and proceeds

**Secured Party** BANC OF AMERICA LEASING & CAPITAL, LLC, HUNT VALLEY, MD

**Debtors** TRANE U.S. INC.

**Debtors** and OTHERS

**Filing Office** SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ

**UCC Filing** - Original

**Filing Date** 07/05/2017

**Filing Number** 170023207385

**Received Date** 07/18/2017

**Collateral** Negotiable instruments and proceeds - Inventory and proceeds - Account(s) and proceeds - Contract rights and proceeds - and OTHERS

**Secured Party** COMMERCE NATIONAL BANK., A BRANCH OF LUBBOCK NATIONAL BANK, LUBBOCK, TX

**Debtors** PEARL HOUSTON MEDICAL CENTER LLC, HOUSTON, TX

**Filing Office** SECRETARY OF STATE/UCC DIVISION, AUSTIN, TX

**UCC Filing** - Original

**Filing Date** 06/07/2017

**Filing Number** 2017 3744858

**Received Date** 07/25/2017

**Collateral** Account(s) and proceeds - General intangibles(s) and proceeds - Chattel paper and proceeds - Leased Computer equipment and proceeds - Leased Equipment and proceeds

**Secured Party** BANC OF AMERICA LEASING & CAPITAL, LLC, HUNT VALLEY, MD

**Debtors** TRANE U.S. INC.

**Debtors** and OTHERS

**Filing Office** SECRETARY OF STATE/UCC DIVISION, DOVER, DE

**UCC Filing** - Original

**Filing Date** 06/07/2017

**Filing Number** 2017 3744684

**Received Date** 07/25/2017

**Collateral** Account(s) and proceeds - General intangibles(s) and proceeds - Chattel paper and proceeds - Leased Computer equipment and proceeds - Leased Equipment and proceeds

**Secured Party** BANC OF AMERICA LEASING & CAPITAL, LLC, HUNT VALLEY, MD

**Debtors** TRANE U.S. INC.

**Debtors** and OTHERS

**Filing Office** SECRETARY OF STATE/UCC DIVISION, DOVER, DE

**UCC Filing** - Amendment

<b>Filing Date</b>	04/08/2014
<b>Filing Number</b>	1474064778
<b>Received Date</b>	04/25/2014
<b>Original Filing Date</b>	02/10/2014
<b>Original Filing Number</b>	147398867164
<b>Secured Party</b>	WACHOVIA MORTGAGE, FSB FKA WORLD SAVINGS BANK, FSB FKA WORLD SAVINGS AND LOAN ASSOCIATION AND FANNIE MAE, CHARLOTTE, NC
<b>Secured Party</b>	WELLS FARGO BANK, N.A., CHARLOTTE, NC
<b>Debtors</b>	TODD J. ELMGREN AND BROOKE STROH ELMGREN, CO-TRUSTEES OF THE ELMGREN FAMILY TRUST DATED OCTOBER 16, 2000, OAKLAND, CA
<b>Filing Office</b>	SECRETARY OF STATE/UCC DIVISION, SACRAMENTO, CA
<b>UCC Filing - Original</b>	
<b>Filing Date</b>	02/10/2014
<b>Filing Number</b>	147398867164
<b>Received Date</b>	02/28/2014
<b>Collateral</b>	Negotiable instruments and proceeds - Inventory and proceeds - Accounts receivable and proceeds - Account(s) and proceeds - and OTHERS
<b>Secured Party</b>	WACHOVIA MORTGAGE, FSB FKA WORLD SAVINGS BANK, FSB FKA WORLD SAVINGS AND LOAN ASSOCIATION AND FANNIE MAE, CHARLOTTE, NC
<b>Debtors</b>	TODD J. ELMGREN AND BROOKE STROH ELMGREN, CO-TRUSTEES OF THE ELMGREN FAMILY TRUST DATED OCTOBER 16, 2000, OAKLAND, CA
<b>Filing Office</b>	SECRETARY OF STATE/UCC DIVISION, SACRAMENTO, CA

The public record items contained in this report may have been paid, terminated, vacated or released prior to the date this report was printed. This information may not be reproduced in whole or in part by any means of reproduction.

There may be additional UCC Filings in D&Bs file on this company available by contacting 1-800-234-3867.

There may be additional suits, liens, or judgments in D&B's file on this company available in the U.S. Public Records Database, also covered under your contract. If you would like more information on this database, please contact the Customer Resource Center at 1-800-234-3867.

If it is indicated that there are defendants other than the report subject, the lawsuit may be an action to clear title to property and does not necessarily imply a claim for money against the subject.

A lien holder can file the same lien in more than one filing location. The appearance of multiple liens filed by the same lien holder against a debtor may be indicative of such an occurrence.

## Special Events

SPECIAL EVENTS	
Date	Event Description
02/24/2022	The Chief Executive Officer is now Dave Regnery, CEO.
02/17/2022	Business address has changed from 3600 Pammel Creek Rd, La Crosse, WI, 54601 to 800-e Beaty St, Davidson, NC, 28036.

## Financials - D&B

A detailed financial statement is not available from this company for publication.

A detailed financial statement is not available from this company for publication.

D&B currently has no financial information on file for this company

D&B currently has no financial information on file for this company.

D&B currently has no financial information on file for this company

D&B currently has no financial information on file for this company

## Company Profile

### COMPANY OVERVIEW

**D-U-N-S**

00-134-4621

**Legal Form**

Corporation (US)

**History Record**

Clear

**Date Incorporated**

03/26/1929

**Business Commenced On**

1929

**State of Incorporation**

DELAWARE

**Ownership**

Not publicly traded

**Mailing Address**

PO Box 6820  
PISCATAWAY, NJ, 08855, UNITED STATES

**Telephone**

+1 704 655 4000

**Website**

[www.trane.com](http://www.trane.com)

**Present Control Succeeded**

1929

**SIC**

35850101

**NAICS**

333415

**Employees**

6,500

**Age (Year Started)**

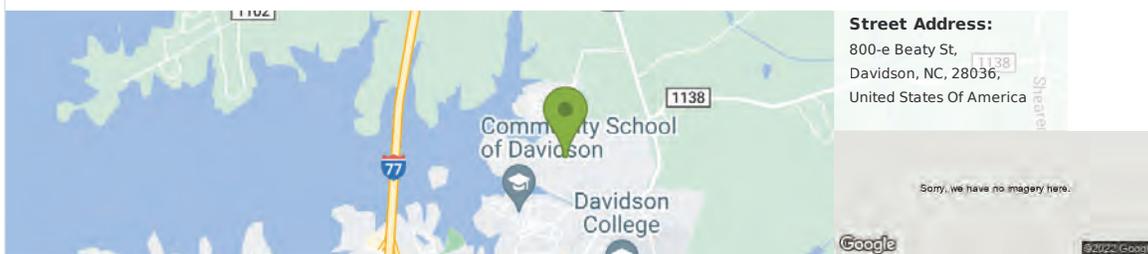
93 Years (1929)

**Named Principal**

Dave Regnery, CEO

**Line of Business**

Mfg refrigeration/heating equipment



### BUSINESS REGISTRATION

Corporate and business registrations reported by the secretary of state or other official source as of: 2019-08-02  
This data is for informational purposes only, certification can only be obtained through the Office of the Secretary of State.

<b>Registered Name</b>	TRANE U.S. INC.
<b>Corporation Type</b>	Corporation (US)
<b>State of Incorporation</b>	DELAWARE
<b>Date Incorporated</b>	03/26/1929
<b>Registration ID</b>	255803
<b>Registration Status</b>	GOOD STANDING

<b>Date Status Attained</b>	03/02/2017
<b>Filing Date</b>	03/26/1929
<b>Where Filed</b>	SECRETARY OF STATE/CORPORATIONS DIVISION
<b>Registered Agent</b>	
<b>Name</b>	CORPORATION SERVICE COMPANY
<b>Address</b>	251 LITTLE FALLS DRIVE, WILMINGTON, DE, 198080000

<b>PRINCIPALS</b>
<b>Officers</b>
DAVE REGNERY, CEO
<b>Directors</b>
DIRECTOR(S): THE OFFICER(S)

<b>COMPANY EVENTS</b>
<b>The following information was reported on: 02/24/2022</b>
The Delaware Secretary of State's business registrations file showed that Trane U.S. Inc. was registered as a Corporation on March 26, 1929, under the file registration number 255803. The name was changed from American Standard Inc. to Trane U.S. Inc. by charter amendment on November 8, 2007.
Business started 1929. 100% of capital stock is owned by the parent company.
All of its outstanding common stock is owned by Trane Inc (Formerly : American Standard Companies Inc, name changed in Nov 1994 from ASI Holding Corporation) that was formed in 1988 by Kelso & Company LP to effect the acquisition of American Standard Inc.
On June 5, 2008 Trane was acquired by Ingersoll-Rand for \$10.1 billion.
RECENT EVENTS:.
On July 5, 2012, Mary Beth Martin, Productivity Manager for Americas Accounting, stated that Trane Comfort Solutions, Inc., Piscataway, NJ, has merged with and into Trane U.S., Inc., Piscataway, NJ, last July 1, 2012. With the merger, Trane Comfort Solutions, Inc. has ceased to exist as a legal entity, and all its branches would now operate as Trane U.S., Inc. locations. No further details are available.
DAVE REGNERY: July 2021-present active here.
According to a published report dated May 29, 2009, the Massachusetts Attorney General Martha Coakley's Office has reached an agreement with Trane U.S. Inc, of Piscataway, New Jersey, and its treasurer, David S Kuhl, for violating the Massachusetts Wage and Hour Laws.
As part of the settlement agreement, Trane and Kuhl will pay \$38,000 in restitution to 15 employees who worked on numerous public projects in Massachusetts between Aug 2005 and May 2009. The company and Kuhl also agreed to pay a \$10,000 fine to the Commonwealth for failing to pay the prevailing wage and failing to submit certified payroll records in violation of the law.
Business address has changed from 3600 Pammel Creek Rd, La Crosse, WI, 54601 to 800-e Beaty St, Davidson, NC, 28036.

<b>BUSINESS ACTIVITIES AND EMPLOYEES</b>	
<b>The following information was reported on: 02/24/2022</b>	
<b>Business Information</b>	
<b>Trade Names</b>	(SUBSIDIARY OF TRANE INC., PISCATAWAY, NJ); TRANE

**Business Information****Description**

Subsidiary of TRANE INC., PISCATAWAY, NJ started 1988 which operates as a holding company. Parent company owns 100% of capital stock. Parent company has seven other subsidiary(ies). Intercompany relations: service transactions on a ongoing and continuing basis.

As noted this company is a subsidiary of Trane Inc., Piscataway, NJ. DUNS 19-144-4587 and reference is made to that report for background information on the parent company and its management.

Manufactures air conditioning, refrigeration or heating equipment, specializing in air conditioning units, complete air conditioning equipment, air conditioning condensers or condensing units and heating equipment. Manufactures fans, blowers and air purification equipment, specializing in commercial or industrial ventilating fans. Manufactures environmental controls, specializing in air conditioning or refrigeration controls. Manufactures electric housewares and fans, specializing in room dehumidifiers.

Terms are Net 30 and 60 days. Brands include Trane and American-Standard. Sells to building and construction industries. Territory : International.

**Employees**

6,500 which includes officer(s). Undetermined employed here.

**Financing Status**

Secured

**Facilities**

Leases premises in a multi story steel building.

**Location**

Central business section on main street.

**Related Concerns****SIC/NAICS Information**

Industry Code	Description	Percentage of Business
3585	Mfg refrigeration/heating equipment	-
35850101	Air conditioning units, complete: domestic or industrial	-
35850100	Air conditioning equipment, complete	-
35850401	Air conditioning condensers and condensing units	-
35850300	Heating equipment, complete	-
35640205	Ventilating fans: industrial or commercial	-
38220100	Air conditioning and refrigeration controls	-
36340303	Dehumidifiers, electric: room	-
NAICS Codes	NAICS Description	
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	

NAICS Codes	NAICS Description
333413	Industrial and Commercial Fan and Blower and Air Purification Equipment Manufacturing
334512	Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use
335210	Small Electrical Appliance Manufacturing

GOVERNMENT ACTIVITY	
<b>Activity Summary</b>	
Borrower(Dir/Guar)	No
Administrative Debt	No
Contractor	No
Grantee	No
Party excluded from federal program(s)	No

### Associations

All Credit Files Created from this D&B Live Report

All Credit Files with Same D-U-N-S® Number as this D&B Live Report

ALL CREDIT FILES CREATED FROM THIS D&B LIVE REPORT			
Company Name	Type	Status	Date Created
No data found			

ALL CREDIT FILES WITH SAME D-U-N-S® NUMBER AS THIS D&B LIVE REPORT			
Company Name	Type	Status	Date Created
TRANE U.S. INC.	Application - #FCLQQNBK	Booked	10/09/2014
BRADY PARTS INC 9312227	ACCOUNT - #36032-0089	No Action Recommended	04/02/2015
TRANE PARTS CENTER OF ARKANSAS	ACCOUNT - #34065-0456	No Action Recommended	04/02/2015
DES MOINES TRANE	ACCOUNT - #72610-0456	No Action Recommended	04/02/2015
TRANE HVAC PARTS & SUPPLIES	ACCOUNT - #111753-0456	No Action Recommended	04/02/2015
BRADY PARTS INC 9312227	ACCOUNT - #36032-0457	No Action Recommended	04/02/2015
BRADY PARTS INC 9312227	ACCOUNT - #36032-0456	No Action Recommended	04/02/2015
TRANE COLUMBUS	Application - #FCH9AEC68	Declined	04/27/2015
Trane US Inc	Application - #FCPdff88K	Declined	09/21/2015
TRANE COMPANY - WACO PLANT	ACCOUNT - #124380-0456	No Action Recommended	06/27/2016
Trane us inc	Application - #FCNDD8HCGY	Declined	12/13/2016
TRANE COMPANY - DIVISION OF INGERSOLL RAND	Application - #FCN8ALKD4Y	Declined	10/19/2017

Company Name	Type	Status	Date Created
TRANE U.S. INC.	Snapshot D-U-N-S Number 00-134-4621	Saved	10/25/2017
MID MICHIGAN TRANE SERVICE CO	ACCOUNT - #106747-0456	No Action Recommended	08/18/2018
TAMPA BAY TRANE	Application - #FCN6H3XAEX	Declined	12/31/2018
TRANE - INGERSOLL RAND	Application - #FCNYWEL4PB	Approved	03/08/2019
trane technologies	Application - #FCCXAYDWTH	Approved	06/01/2021
TRANE U.S. INC.	Application - #FCC5QYV8NE	Approved	08/16/2021
Trane US Inc	Application - #FCCTPQVYPN	Approved	03/18/2022

### Your Information

Record additional information about this company to supplement the D&B information.

Note: Information entered in this section will not be added to D&B's central repository and will be kept private under your user ID. Only you will be able to view the information.

In Folders: View

**Account Number**

**Endorsement/Billing Reference \***

**Sales Representatives**

Kevin.Celestine@tranetechnologies.com

**Credit Limit**

**Total Outstanding**

0

0

Last Login : 05/02/2022 10:24:21 AM

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# Appendix 3

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**Exhibit B – Administration Agreement, Example**

**Exhibit B**  
**Administration Agreement, Example**

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**ADMINISTRATION AGREEMENT**

THIS ADMINISTRATION AGREEMENT (this "**Agreement**") is made this 8 day of July 2022 between National Intergovernmental Purchasing Alliance Company, a Delaware corporation d/b/a OMNIA Partners, Public Sector ("**OMNIA Partners**"), and Trane U.S. Inc. ("**Supplier**").

**RECITALS**

**WHEREAS**, the \_\_\_\_\_ (the "**Principal Procurement Agency**") has entered into a Master Agreement effective \_\_\_\_\_, Agreement No \_\_\_\_\_, by and between the Principal Procurement Agency and Supplier, (as may be amended from time to time in accordance with the terms thereof, the "**Master Agreement**"), as attached hereto as Exhibit A and incorporated herein by reference as though fully set forth herein, for the purchase of \_\_\_\_\_ (the "**Product**");

**WHEREAS**, said Master Agreement provides that any or all public agencies, including state and local governmental entities, public and private primary, secondary and higher education entities, non-profit entities, and agencies for the public benefit (collectively, "**Public Agencies**"), that register (either via registration on the OMNIA Partners website or execution of a Master Intergovernmental Cooperative Purchasing Agreement, attached hereto as Exhibit B) (each, hereinafter referred to as a "**Participating Public Agency**") may purchase Product at prices stated in the Master Agreement;

**WHEREAS**, Participating Public Agencies may access the Master Agreement which is offered through OMNIA Partners to Public Agencies;

**WHEREAS**, OMNIA Partners serves as the cooperative contract administrator of the Master Agreement on behalf of Principal Procurement Agency;

**WHEREAS**, Principal Procurement Agency desires OMNIA Partners to proceed with administration of the Master Agreement; and

**WHEREAS**, OMNIA Partners and Supplier desire to enter into this Agreement to make available the Master Agreement to Participating Public Agencies and to set forth certain terms and conditions governing the relationship between OMNIA Partners and Supplier.

**NOW, THEREFORE**, in consideration of the payments to be made hereunder and the mutual covenants contained in this Agreement, OMNIA Partners and Supplier hereby agree as follows:

**DEFINITIONS**

1. Capitalized terms used in this Agreement and not otherwise defined herein shall have the meanings given to them in the Master Agreement.

## TERMS AND CONDITIONS

2. The Master Agreement and the terms and conditions contained therein shall apply to this Agreement except as expressly changed or modified by this Agreement. Supplier acknowledges and agrees that the covenants and agreements of Supplier set forth in the solicitation and Supplier's response thereto resulting in the Master Agreement are incorporated herein and are an integral part hereof.

3. OMNIA Partners shall be afforded all of the rights, privileges and indemnifications afforded to Principal Procurement Agency by or from Supplier under the Master Agreement, and such rights, privileges and indemnifications shall accrue and apply with equal effect to OMNIA Partners, its agents, employees, directors, and representatives under this Agreement including, but not limited to, Supplier's obligation to obtain appropriate insurance.

4. OMNIA Partners shall perform all of its duties, responsibilities and obligations as the cooperative contract administrator of the Master Agreement on behalf of Principal Procurement Agency as set forth herein, and Supplier hereby acknowledges and agrees that all duties, responsibilities and obligations will be undertaken by OMNIA Partners solely in its capacity as the cooperative contract administrator under the Master Agreement.

5. With respect to any purchases by Principal Procurement Agency or any Participating Public Agency pursuant to the Master Agreement, OMNIA Partners shall not be: (i) construed as a dealer, re-marketer, representative, partner or agent of any type of the Supplier, Principal Procurement Agency or any Participating Public Agency; (ii) obligated, liable or responsible for any order for Product made by Principal Procurement Agency or any Participating Public Agency or any employee thereof under the Master Agreement or for any payment required to be made with respect to such order for Product; and (iii) obligated, liable or responsible for any failure by Principal Procurement Agency or any Participating Public Agency to comply with procedures or requirements of applicable law or the Master Agreement or to obtain the due authorization and approval necessary to purchase under the Master Agreement. OMNIA Partners makes no representation or guaranty with respect to any minimum purchases by Principal Procurement Agency or any Participating Public Agency or any employee thereof under this Agreement or the Master Agreement.

6. OMNIA Partners shall not be responsible for Supplier's performance under the Master Agreement, and Supplier shall hold OMNIA Partners harmless from any liability that may arise from the acts or omissions of Supplier in connection with the Master Agreement.

7. Supplier acknowledges that, in connection with its access to OMNIA Partners confidential information and/or supply of data to OMNIA Partners, it has complied with and shall continue to comply with all laws, regulations and standards that may apply to Supplier, including, without limitation: (a) United States federal and state information security and privacy statutes, regulations and/or best practices, including, without limitation, the Gramm-Leach-Bliley Act, the Massachusetts Data Security Regulations (201 C.M.R. 17.00 et. seq.), the Nevada encryption statute (N.R.S. § 603A), the California data security law (Cal. Civil Code § 1798.80 et. seq.) and California Consumer Privacy Act (Cal. Civil Code § 1798.100 et. seq.); and (b) applicable industry and regulatory standards and best practices (collectively, "**Data Regulations**").

With regard to Personal Information that Supplier collects, receives, or otherwise processes under the Agreement or otherwise in connection with performance of the Agreement, Supplier agrees that it will not: (i) sell, rent, release, disclose, disseminate, make available, transfer, or otherwise

communicate orally, in writing, or by electronic or other means, such Personal Information to another business or third party for monetary or other valuable consideration; or (ii) retain, use, or disclose such Personal Information outside of the direct business relationship between Supplier and OMNIA Partners or for any purpose other than for the specific purpose of performance of the Agreement, including retaining, using, or disclosing such Personal Information for a commercial purpose other than for performance of the Agreement. By entering into the Agreement, Supplier certifies that it understands the specific restrictions contained in this Section 7 and will comply with them. For purposes hereof, “**Personal Information**” means information that identifies, relates to, describes, is reasonably capable of being associated with, or could reasonably be linked, directly or indirectly, with a particular consumer or household, and includes the specific elements of “personal information” as defined under Data Regulations, as defined herein. Supplier will reasonably assist OMNIA Partners in timely responding to any third party “request to know” or “request to delete” (as defined pursuant to Data Regulations) and will promptly provide OMNIA Partners with information reasonably necessary for OMNIA Partners to respond to such requests. Where Supplier collects Personal Information directly from Public Agencies or others on OMNIA Partners’ behalf, Supplier will maintain records and the means necessary to enable OMNIA Partners to respond to such requests to know and requests to delete.

8. WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, OMNIA PARTNERS EXPRESSLY DISCLAIMS ALL EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES REGARDING OMNIA PARTNERS’ PERFORMANCE AS A CONTRACT ADMINISTRATOR OF THE MASTER AGREEMENT. OMNIA PARTNERS SHALL NOT BE LIABLE IN ANY WAY FOR ANY SPECIAL, INCIDENTAL, INDIRECT, CONSEQUENTIAL, EXEMPLARY, PUNITIVE, OR RELIANCE DAMAGES, EVEN IF OMNIA PARTNERS IS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### **TERM OF AGREEMENT; TERMINATION**

9. This Agreement shall be in effect so long as the Master Agreement remains in effect, provided, however, that the provisions of Sections 3 – 8 and 11 – 22, hereof and the indemnifications afforded by the Supplier to OMNIA Partners in the Master Agreement, to the extent such provisions survive any expiration or termination of the Master Agreement, shall survive the expiration or termination of this Agreement.

#### **NATIONAL PROMOTION**

10. OMNIA Partners and Supplier shall publicize and promote the availability of the Master Agreement’s products and services to Public Agencies and such agencies’ employees. Supplier shall require each Public Agency to register its participation in the OMNIA Partners program by either registering on the OMNIA Partners website ([www.omniapartners.com/publicsector](http://www.omniapartners.com/publicsector)) or executing a Master Intergovernmental Cooperative Purchasing Agreement prior to processing the Participating Public Agency’s first sales order. Upon request, Supplier shall make available to interested Public Agencies a copy of the Master Agreement and such price lists or quotes as may be necessary for such Public Agencies to evaluate potential purchases.

11. Supplier shall provide such marketing and administrative support as set forth in the solicitation resulting in the Master Agreement, including assisting in development of marketing materials as reasonably requested by Principal Procurement Agency and OMNIA Partners. Supplier shall be responsible for obtaining permission or license of use and payment of any license fees for all content and images Supplier provides to OMNIA Partners or posts on the OMNIA Partners website.

Supplier shall indemnify, defend and hold harmless OMNIA Partners for use of all such content and images including copyright infringement claims. Supplier and OMNIA Partners each hereby grant to the other party a limited, revocable, non-transferable, non-sublicensable right to use such party's logo (each, the "**Logo**") solely for use in marketing the Master Agreement. Each party shall provide the other party with the standard terms of use of such party's Logo, and such party shall comply with such terms in all material respects. Both parties shall obtain approval from the other party prior to use of such party's Logo. Notwithstanding the foregoing, the parties understand and agree that except as provided herein neither party shall have any right, title or interest in the other party's Logo. Upon termination of this Agreement, each party shall immediately cease use of the other party's Logo.

### **ADMINISTRATIVE FEE, REPORTING & PAYMENT**

12. An "Administrative Fee" shall be defined and due to OMNIA Partners from Supplier in the amount of 2 percent (2%) ("**Administrative Fee Percentage**") multiplied by the total purchase amount paid to Supplier, less refunds, credits on returns, rebates and discounts, for the sale of products and/or services to Principal Procurement Agency and Participating Public Agencies pursuant to the Master Agreement (as amended from time to time and including any renewal thereof) ("**Contract Sales**"). From time to time the parties may mutually agree in writing to a lower Administrative Fee Percentage for a specifically identified Participating Public Agency's Contract Sales.

13. Supplier shall provide OMNIA Partners with an electronic accounting report monthly, in the format prescribed by OMNIA Partners, summarizing all Contract Sales for each calendar month. The Contract Sales reporting format is provided as Exhibit C ("**Contract Sales Report**"), attached hereto and incorporated herein by reference. Contract Sales Reports for each calendar month shall be provided by Supplier to OMNIA Partners by the 10<sup>th</sup> day of the following month. Failure to provide a Contract Sales Report within the time and manner specified herein shall constitute a material breach of this Agreement and if not cured within thirty (30) days of written notice to Supplier shall be deemed a cause for termination of the Master Agreement, at Principal Procurement Agency's sole discretion, and/or this Agreement, at OMNIA Partners' sole discretion.

14. Administrative Fee payments are to be paid by Supplier to OMNIA Partners at the frequency and on the due date stated in Section 13, above, for Supplier's submission of corresponding Contract Sales Reports. Administrative Fee payments are to be made via Automated Clearing House (ACH) to the OMNIA Partners designated financial institution identified in Exhibit D. Failure to provide a payment of the Administrative Fee within the time and manner specified herein shall constitute a material breach of this Agreement and if not cured within thirty (30) days of written notice to Supplier shall be deemed a cause for termination of the Master Agreement, at Principal Procurement Agency's sole discretion, and/or this Agreement, at OMNIA Partners' sole discretion. All Administrative Fees not paid when due shall bear interest at a rate equal to the lesser of one and one-half percent (1 1/2%) per month or the maximum rate permitted by law until paid in full.

15. Supplier shall maintain an accounting of all purchases made by Participating Public Agencies under the Master Agreement. OMNIA Partners, or its designee, in OMNIA Partners' sole discretion, reserves the right to compare Participating Public Agency records with Contract Sales Reports submitted by Supplier for a period of four (4) years from the date OMNIA Partners receives such report. In addition, OMNIA Partners may engage a third party to conduct an independent audit of Supplier's monthly reports. In the event of such an audit, Supplier shall provide all materials reasonably requested relating to such audit by OMNIA Partners at the location designated by OMNIA Partners. In the event an underreporting of Contract Sales and a resulting underpayment of

Administrative Fees is revealed, OMNIA Partners will notify the Supplier in writing. Supplier will have thirty (30) days from the date of such notice to resolve the discrepancy to OMNIA Partners' reasonable satisfaction, including payment of any Administrative Fees due and owing, together with interest thereon in accordance with Section 13, and reimbursement of OMNIA Partners' costs and expenses related to such audit.

## GENERAL PROVISIONS

16. This Agreement, the Master Agreement and the exhibits referenced herein supersede any and all other agreements, either oral or in writing, between the parties hereto with respect to the subject matter hereto and no other agreement, statement, or promise relating to the subject matter of this Agreement which is not contained or incorporated herein shall be valid or binding. In the event of any conflict between the provisions of this Agreement and the Master Agreement, as between OMNIA Partners and Supplier, the provisions of this Agreement shall prevail.

17. If any action at law or in equity is brought to enforce or interpret the provisions of this Agreement or to recover any Administrative Fee and accrued interest, the prevailing party shall be entitled to reasonable attorney's fees and costs in addition to any other relief to which it may be entitled.

18. This Agreement and OMNIA Partners' rights and obligations hereunder may be assigned at OMNIA Partners' sole discretion to an affiliate of OMNIA Partners, any purchaser of any or all or substantially all of the assets of OMNIA Partners, or the successor entity as a result of a merger, reorganization, consolidation, conversion or change of control, whether by operation of law or otherwise. Supplier may not assign its obligations hereunder without the prior written consent of OMNIA Partners.

19. All written communications given hereunder shall be delivered by first-class mail, postage prepaid, or overnight delivery on receipt to the addresses as set forth below.

A. OMNIA Partners:

OMNIA Partners  
Attn: President  
840 Crescent Centre Drive  
Suite 600  
Franklin, TN 37067

B. Supplier:

**Trane U.S. Inc.**  
**800 Beaty Street**  
**Davidson, NC 28036-6924**

20. If any provision of this Agreement shall be deemed to be, or shall in fact be, illegal, inoperative or unenforceable, the same shall not affect any other provision or provisions herein contained or render the same invalid, inoperative or unenforceable to any extent whatever, and this Agreement will be construed by limiting or invalidating such provision to the minimum extent necessary to make such provision valid, legal and enforceable.

21. This Agreement may not be amended, changed, modified, or altered without the prior written consent of the parties hereto, and no provision of this Agreement may be discharged or waived, except by a writing signed by the parties. A waiver of any particular provision will not be deemed a waiver of any other provision, nor will a waiver given on one occasion be deemed to apply to any other occasion.

22. This Agreement shall inure to the benefit of and shall be binding upon OMNIA Partners, the Supplier and any respective successor and assign thereto; subject, however, to the limitations contained herein.

23. This Agreement will be construed under and governed by the laws of the State of Delaware, excluding its conflicts of law provisions and any action arising out of or related to this Agreement shall be commenced solely and exclusively in the state or federal courts in Williamson County Tennessee.

24. This Agreement may be executed in counterparts, each of which is an original but all of which, together, shall constitute but one and the same instrument. The exchange of copies of this Agreement and of signature pages by facsimile, or by .pdf or similar electronic transmission, will constitute effective execution and delivery of this Agreement as to the parties and may be used in lieu of the original Agreement for all purposes. Signatures of the parties transmitted by facsimile, or by .pdf or similar electronic transmission, will be deemed to be their original signatures for any purpose whatsoever.

**TRANE U.S. INC.**

**NATIONAL  
INTERGOVERNMENTAL  
PURCHASING ALLIANCE  
COMPANY, A DELAWARE  
CORPORATION D/B/A OMNIA  
PARTNERS, PUBLIC SECTOR**

  
\_\_\_\_\_  
Signature  
**Greg Spencer**  
\_\_\_\_\_  
Name  
**Strategic Cooperative Program Leader**  
\_\_\_\_\_  
Title  
**July 8, 2022**  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature  
Sarah Vavra  
\_\_\_\_\_  
Name  
Sr. Vice President, Public Sector  
Contracting  
\_\_\_\_\_  
Title  
\_\_\_\_\_  
Date



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# Appendix 4

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**Exhibit F – Federal Funds Certifications**



**Exhibit F**  
**Federal Funds Certifications**

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**FEDERAL CERTIFICATIONS**  
**ADDENDUM FOR AGREEMENT FUNDED BY U.S. FEDERAL GRANT**

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**TO WHOM IT MAY CONCERN:**

**Participating Agencies may elect to use federal funds to purchase under the Master Agreement. This form should be completed and returned.**

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**DEFINITIONS**

**Contract** means a legal instrument by which a non-Federal entity purchases property or services needed to carry out the project or program under a Federal award. The term as used in this part does not include a legal instrument, even if the non-Federal entity considers it a contract, when the substance of the transaction meets the definition of a Federal award or subaward

**Contractor** means an entity that receives a contract as defined in Contract.

**Cooperative agreement** means a legal instrument of financial assistance between a Federal awarding agency or pass-through entity and a non-Federal entity that, consistent with 31 U.S.C. 6302-6305:

(a) Is used to enter into a relationship the principal purpose of which is to transfer anything of value from the Federal awarding agency or pass-through entity to the non-Federal entity to carry out a public purpose authorized by a law of the United States (see 31 U.S.C. 6101(3)); and not to acquire property or services for the Federal government or pass-through entity's direct benefit or use;

(b) Is distinguished from a grant in that it provides for substantial involvement between the Federal awarding agency or pass-through entity and the non-Federal entity in carrying out the activity contemplated by the Federal award.

(c) The term does not include:

(1) A cooperative research and development agreement as defined in 15 U.S.C. 3710a; or

(2) An agreement that provides only:

(i) Direct United States Government cash assistance to an individual;

(ii) A subsidy;

(iii) A loan;

(iv) A loan guarantee; or

(v) Insurance.

**Federal awarding agency** means the Federal agency that provides a Federal award directly to a non-Federal entity

**Federal award** has the meaning, depending on the context, in either paragraph (a) or (b) of this section:

(a)(1) The Federal financial assistance that a non-Federal entity receives directly from a Federal awarding agency or indirectly from a pass-through entity, as described in § 200.101 Applicability; or

(2) The cost-reimbursement contract under the Federal Acquisition Regulations that a non-Federal entity receives directly from a Federal awarding agency or indirectly from a pass-through entity, as described in § 200.101 Applicability.

(b) The instrument setting forth the terms and conditions. The instrument is the grant agreement, cooperative agreement, other agreement for assistance covered in paragraph (b) of § 200.40 Federal financial assistance, or the cost-reimbursement contract awarded under the Federal Acquisition Regulations.

(c) Federal award does not include other contracts that a Federal agency uses to buy goods or services from a contractor or a contract to operate Federal government owned, contractor operated facilities (GOCO's).

(d) See also definitions of Federal financial assistance, grant agreement, and cooperative agreement.

**Non-Federal entity** means a state, local government, Indian tribe, institution of higher education (IHE), or nonprofit organization that carries out a Federal award as a recipient or subrecipient.

**Nonprofit organization** means any corporation, trust, association, cooperative, or other organization, not including IHEs, that:

- (a) Is operated primarily for scientific, educational, service, charitable, or similar purposes in the public interest;
- (b) Is not organized primarily for profit; and
- (c) Uses net proceeds to maintain, improve, or expand the operations of the organization.

**Obligations** means, when used in connection with a non-Federal entity's utilization of funds under a Federal award, orders placed for property and services, contracts and subawards made, and similar transactions during a given period that require payment by the non-Federal entity during the same or a future period.

**Pass-through entity** means a non-Federal entity that provides a subaward to a subrecipient to carry out part of a Federal program.

**Recipient** means a non-Federal entity that receives a Federal award directly from a Federal awarding agency to carry out an activity under a Federal program. The term recipient does not include subrecipients.

**Simplified acquisition threshold** means the dollar amount below which a non-Federal entity may purchase property or services using small purchase methods. Non-Federal entities adopt small purchase procedures in order to expedite the purchase of items costing less than the simplified acquisition threshold. The simplified acquisition threshold is set by the Federal Acquisition Regulation at 48 CFR Subpart 2.1 (Definitions) and in accordance with 41 U.S.C. 1908. As of the publication of this part, the simplified acquisition threshold is \$250,000, but this threshold is periodically adjusted for inflation. (Also see definition of § 200.67 Micro-purchase.)

**Subaward** means an award provided by a pass-through entity to a subrecipient for the subrecipient to carry out part of a Federal award received by the pass-through entity. It does not include payments to a contractor or payments to an individual that is a beneficiary of a Federal program. A subaward may be provided through any form of legal agreement, including an agreement that the pass-through entity considers a contract.

**Subrecipient** means a non-Federal entity that receives a subaward from a pass-through entity to carry out part of a Federal program; but does not include an individual that is a beneficiary of such program. A subrecipient may also be a recipient of other Federal awards directly from a Federal awarding agency.

**Termination** means the ending of a Federal award, in whole or in part at any time prior to the planned end of period of performance.

The following provisions may be required and apply when Participating Agency expends federal funds for any purchase resulting from this procurement process. Per FAR 52.204-24 and FAR 52.204-25, solicitations and resultant contracts shall contain the following provisions.

#### **52.204-24 Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment (Oct 2020)**

The Offeror shall not complete the representation at paragraph (d)(1) of this provision if the Offeror has represented that it "does not provide covered telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument" in paragraph (c)(1) in the provision at 52.204-26, Covered Telecommunications Equipment or Services—Representation, or in paragraph (v)(2)(i) of the provision at 52.212-3, Offeror Representations and Certifications—Commercial Items. The Offeror shall not complete the representation in paragraph (d)(2) of this provision if the Offeror has represented that it "does not use covered telecommunications equipment or services, or any equipment, system, or service that uses covered telecommunications equipment or services" in paragraph (c)(2) of the provision at 52.204-26, or in paragraph (v)(2)(ii) of the provision at 52.212-3.

(a) *Definitions.* As used in this provision—

*Backhaul, covered telecommunications equipment or services, critical technology, interconnection arrangements, reasonable inquiry, roaming, and substantial or essential component* have the meanings provided in the clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

*(b) Prohibition.*

(1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. Nothing in the prohibition shall be construed to—

(i) Prohibit the head of an executive agency from procuring with an entity to provide a service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(ii) Cover telecommunications equipment that cannot route or redirect user data traffic or cannot permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract or extending or renewing a contract with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract. Nothing in the prohibition shall be construed to—

(i) Prohibit the head of an executive agency from procuring with an entity to provide a service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(ii) Cover telecommunications equipment that cannot route or redirect user data traffic or cannot permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(c) *Procedures.* The Offeror shall review the list of excluded parties in the System for Award Management (SAM) (<https://www.sam.gov>) for entities excluded from receiving federal awards for "covered telecommunications equipment or services".

(d) *Representation.* The Offeror represents that—

(1) It  will,  will not provide covered telecommunications equipment or services to the Government in the performance of any contract, subcontract or other contractual instrument resulting from this solicitation. The Offeror shall provide the additional disclosure information required at paragraph (e)(1) of this section if the Offeror responds "will" in paragraph (d)(1) of this section; and

(2) After conducting a reasonable inquiry, for purposes of this representation, the Offeror represents that—

It  does,  does not use covered telecommunications equipment or services, or use any equipment, system, or service that uses covered telecommunications equipment or services. The Offeror shall provide the additional disclosure information required at paragraph (e)(2) of this section if the Offeror responds "does" in paragraph (d)(2) of this section.

(e) *Disclosures.*

(1) Disclosure for the representation in paragraph (d)(1) of this provision. If the Offeror has responded "will" in the representation in paragraph (d)(1) of this provision, the Offeror shall provide the following information as part of the offer.

(i) For covered equipment—

(A) The entity that produced the covered telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the original equipment manufacturer (OEM) or a distributor, if known);

(B) A description of all covered telecommunications equipment offered (include brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); and

(C) Explanation of the proposed use of covered telecommunications equipment and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(1) of this provision.

(ii) For covered services—

(A) If the service is related to item maintenance: A description of all covered telecommunications services offered (include on the item being maintained: Brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); or

(B) If not associated with maintenance, the Product Service Code (PSC) of the service being provided; and explanation of the proposed use of covered telecommunications services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(1) of this provision.

(2) Disclosure for the representation in paragraph (d)(2) of this provision. If the Offeror has responded "does" in the representation in paragraph (d)(2) of this provision, the Offeror shall provide the following information as part of the offer:

(i) For covered equipment—

(A) The entity that produced the covered telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the OEM or a distributor, if known);

(B) A description of all covered telecommunications equipment offered (include brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); and

(C) Explanation of the proposed use of covered telecommunications equipment and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(2) of this provision.

(ii) For covered services—

(A) If the service is related to item maintenance: A description of all covered telecommunications services offered (include on the item being maintained: Brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); or

(B) If not associated with maintenance, the PSC of the service being provided; and explanation of the proposed use of covered telecommunications services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(2) of this provision.

#### **52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020).**

(a) *Definitions.* As used in this clause—

*Backhaul* means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

*Covered foreign country* means The People's Republic of China.

*Covered telecommunications equipment or services* means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

*Critical technology* means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled—

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

*Interconnection arrangements* means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

*Reasonable inquiry* means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

*Roaming* means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

*Substantial or essential component* means any component necessary for the proper function or performance of a piece of equipment, system, or service.

**(b) Prohibition.**

(1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

**(c) Exceptions.** This clause does not prohibit contractors from providing—

- (1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements;
- or
- (2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

**(d) Reporting requirement.**

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

**(e) Subcontracts.** The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

The following certifications and provisions may be required and apply when Participating Agency expends federal funds for any purchase resulting from this procurement process. Pursuant to 2 C.F.R. § 200.326, all contracts, including small purchases, awarded by the Participating Agency and the Participating Agency's subcontractors shall contain the procurement provisions of

Appendix II to Part 200, as applicable.

**APPENDIX II TO 2 CFR PART 200**

**(A) Contracts for more than the simplified acquisition threshold currently set at \$250,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.**

Pursuant to Federal Rule (A) above, when a Participating Agency expends federal funds, the Participating Agency reserves all rights and privileges under the applicable laws and regulations with respect to this procurement in the event of breach of contract by either party.

Does offeror agree? **YES** ef Initials of Authorized Representative of offeror

**(B) Termination for cause and for convenience by the grantee or subgrantee including the manner by which it will be effected and the basis for settlement. (All contracts in excess of \$10,000)**

Pursuant to Federal Rule (B) above, when a Participating Agency expends federal funds, the Participating Agency reserves the right to immediately terminate any agreement in excess of \$10,000 resulting from this procurement process in the event of a breach or default of the agreement by Offeror as detailed in the terms of the contract.

Does offeror agree? **YES** ef Initials of Authorized Representative of offeror

**(C) Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 CFR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."**

Pursuant to Federal Rule (C) above, when a Participating Agency expends federal funds on any federally assisted construction contract, the equal opportunity clause is incorporated by reference herein.

Does offeror agree to abide by the above? **YES** ef Initials of Authorized Representative of offeror

**(D) Davis-Bacon Act, as amended (40 U.S.C. 3141-3148). When required by Federal program legislation, all prime construction contracts in excess of \$2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency. The contracts must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.**

Pursuant to Federal Rule (D) above, when a Participating Agency expends federal funds during the term of an award for all contracts and subgrants for construction or repair, offeror will be in compliance with all applicable Davis-Bacon Act provisions.

Does offeror agree? **YES** ef Initials of Authorized Representative of offeror



becomes debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation by any federal department or agency, the offeror will notify the Participating Agency.

Does offeror agree? **YES** ef Initials of Authorized Representative of offeror

**(l) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)—Contractors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.**

Pursuant to Federal Rule (l) above, when federal funds are expended by Participating Agency, the offeror certifies that during the term and after the awarded term of an award for all contracts by Participating Agency resulting from this procurement process, the offeror certifies that it is in compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352). The undersigned further certifies that:

- (1) No Federal appropriated funds have been paid or will be paid for on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, the making of a Federal grant, the making of a Federal loan, the entering into a cooperative agreement, and the extension, continuation, renewal, amendment, or modification of a Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all covered sub-awards exceeding \$100,000 in Federal funds at all appropriate tiers and that all subrecipients shall certify and disclose accordingly.

Does offeror agree? **YES** ef Initials of Authorized Representative of offeror

**RECORD RETENTION REQUIREMENTS FOR CONTRACTS INVOLVING FEDERAL FUNDS**

When federal funds are expended by Participating Agency for any contract resulting from this procurement process, offeror certifies that it will comply with the record retention requirements detailed in 2 CFR § 200.333. The offeror further certifies that offeror will retain all records as required by 2 CFR § 200.333 for a period of three years after grantees or subgrantees submit final expenditure reports or quarterly or annual financial reports, as applicable, and all other pending matters are closed.

Does offeror agree? **YES** ef Initials of Authorized Representative of offeror

**CERTIFICATION OF COMPLIANCE WITH THE ENERGY POLICY AND CONSERVATION ACT**

When Participating Agency expends federal funds for any contract resulting from this procurement process, offeror certifies that it will comply with the mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6321 et seq.; 49 C.F.R. Part 18).

Does offeror agree? **YES** ef Initials of Authorized Representative of offeror

**CERTIFICATION OF COMPLIANCE WITH BUY AMERICA PROVISIONS**

To the extent purchases are made with Federal Highway Administration, Federal Railroad Administration, or Federal Transit Administration funds, offeror certifies that its products comply with all applicable provisions of the Buy America Act and agrees to provide such certification or applicable waiver with respect to specific products to any Participating Agency upon request. Purchases made in accordance with the Buy America Act must still follow the applicable procurement rules calling for free and open competition.

Does offeror agree? **YES**  \_\_\_\_\_ Initials of Authorized Representative of offeror

**CERTIFICATION OF ACCESS TO RECORDS – 2 C.F.R. § 200.336**

Offeror agrees that the Inspector General of the Agency or any of their duly authorized representatives shall have access to any documents, papers, or other records of offeror that are pertinent to offeror's discharge of its obligations under the Contract for the purpose of making audits, examinations, excerpts, and transcriptions. The right also includes timely and reasonable access to offeror's personnel for the purpose of interview and discussion relating to such documents.

Does offeror agree? **YES**  \_\_\_\_\_ Initials of Authorized Representative of offeror

**CERTIFICATION OF APPLICABILITY TO SUBCONTRACTORS**

Offeror agrees that all contracts it awards pursuant to the Contract shall be bound by the foregoing terms and conditions.

Does offeror agree? **YES**  \_\_\_\_\_ Initials of Authorized Representative of offeror

**Offeror agrees to comply with all federal, state, and local laws, rules, regulations and ordinances, as applicable. It is further acknowledged that offeror certifies compliance with all provisions, laws, acts, regulations, etc. as specifically noted above.**

Offeror's Name: **Trane U.S. Inc.**

Address, City, State, and Zip Code: **800 Beaty Street, Davidson, NC, 28036-6924**

Phone Number: **469-442-6055** Fax Number:

Printed Name and Title of Authorized Representative:  
**Greg Spencer**

Email Address:  
**gsspencer@trane.com**

Signature of Authorized Representative:  \_\_\_\_\_ Date: **July 8, 2022**

## FEMA SPECIAL CONDITIONS

Awarded Supplier(s) may need to respond to events and losses where products and services are needed for the immediate and initial response to emergency situations such as, but not limited to, water damage, fire damage, vandalism cleanup, biohazard cleanup, sewage decontamination, deodorization, and/or wind damage during a disaster or emergency situation. By submitting a bid, the Supplier is accepted these FEMA Special Conditions required by the Federal Emergency Management Agency (FEMA).

“Contract” in the below pages under FEMA SPECIAL CONDITIONS is also referred to and defined as the “Master Agreement”.

“Contractor” in the below pages under FEMA SPECIAL CONDITIONS is also referred to and defined as “Supplier” or “Awarded Supplier”.

### **Conflicts of Interest**

No employee, officer, or agent may participate in the selection, award, or administration of a contract supported by a FEMA award if he or she has a real or apparent conflict of interest. Such a conflict would arise when the employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of these parties, has a financial or other interest in or a tangible personal benefit from a firm considered for award. 2 C.F.R. § 200.318(c)(1); See also Standard Form 424D, ¶ 7; Standard Form 424B, ¶ 3. i. FEMA considers a “financial interest” to be the potential for gain or loss to the employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of these parties as a result of the particular procurement. The prohibited financial interest may arise from ownership of certain financial instruments or investments such as stock, bonds, or real estate, or from a salary, indebtedness, job offer, or similar interest that might be affected by the particular procurement. ii. FEMA considers an “apparent” conflict of interest to exist where an actual conflict does not exist, but where a reasonable person with knowledge of the relevant facts would question the impartiality of the employee, officer, or agent participating in the procurement. c. Gifts. The officers, employees, and agents of the Participating Public Agency nor the Participating Public Agency (“NFE”) must neither solicit nor accept gratuities, favors, or anything of monetary value from contractors or parties to subcontracts. However, NFE’s may set standards for situations in which the financial interest is de minimus, not substantial, or the gift is an unsolicited item of nominal value. 2 C.F.R. § 200.318(c)(1). d. Violations. The NFE’s written standards of conduct must provide for disciplinary actions to be applied for violations of such standards by officers, employees, or agents of the NFE. 2 C.F.R. § 200.318(c)(1). For example, the penalty for a NFE’s employee may be dismissal, and the penalty for a contractor might be the termination of the contract.

### **Contractor Integrity**

A contractor must have a satisfactory record of integrity and business ethics. Contractors that are debarred or suspended, as described in and subject to the debarment and suspension regulations implementing Executive Order 12549, *Debarment and Suspension* (1986) and Executive Order 12689, *Debarment and Suspension* (1989) at 2 C.F.R. Part 180 and the Department of Homeland Security’s regulations at 2 C.F.R. Part 3000 (Non-procurement Debarment and Suspension), must be rejected and cannot receive contract awards at any level.

### **Public Policy**

A contractor must comply with the public policies of the Federal Government and state, local government, or tribal government. This includes, among other things, past and current compliance with the:

- a. Equal opportunity and nondiscrimination laws
- b. Five affirmative steps described at 2 C.F.R. § 200.321(b) for all subcontracting under contracts supported by FEMA financial assistance; and FEMA Procurement Guidance June 21, 2016 Page IV- 7
- c. Applicable prevailing wage laws, regulations, and executive orders

### **Affirmative Steps**

Version April 12, 2022

For any subcontracting opportunities, Contractor must take the following Affirmative steps:

1. Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
2. Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
3. Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
4. Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises; and
5. Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

#### **Prevailing Wage Requirements**

When applicable, the awarded Contractor (s) and any and all subcontractor(s) agree to comply with all laws regarding prevailing wage rates including the Davis-Bacon Act, applicable to this solicitation and/or Participating Public Agencies. The Participating Public Agency shall notify the Contractor of the applicable pricing/prevailing wage rates and must apply any local wage rates requested. The Contractor and any subcontractor(s) shall comply with the prevailing wage rates set by the Participating Public Agency.

#### **Federal Requirements**

If products and services are issued in response to an emergency or disaster recovery the items below, located in this FEMA Special Conditions section of the Federal Funds Certifications, are activated and required when federal funding may be utilized.

### **2 C.F.R. § 200.326 and 2 C.F.R. Part 200, Appendix II, Required Contract Clauses**

#### **1. REMEDIES**

- a. **Standard.** Contracts for more than the simplified acquisition threshold, currently set at \$250,000, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate. See 2 C.F.R. Part 200, Appendix II(A).
- b. **Applicability.** This requirement applies to all FEMA grant and cooperative agreement programs.

#### **2. TERMINATION FOR CAUSE AND CONVENIENCE**

- a. **Standard.** All contracts in excess of \$10,000 must address termination for cause and for convenience by the non-Federal entity, including the manner by which it will be effected and the basis for settlement. See 2 C.F.R. Part 200, Appendix II(B).
- b. **Applicability.** This requirement applies to all FEMA grant and cooperative agreement programs.

#### **3. EQUAL EMPLOYMENT OPPORTUNITY**

When applicable:

- a. **Standard.** Except as otherwise provided under 41 C.F.R. Part 60, all contracts that meet the definition of "federally assisted construction contract" in 41 C.F.R.

§ 60-1.3 must include the equal opportunity clause provided under 41 C.F.R. § 60- 1.4(b), in accordance with Executive Order 11246, *Equal Employment Opportunity* (30 Fed. Reg. 12319, 12935, 3 C.F.R. Part. 1964-1965 Comp., p. 339), as amended by Executive Order 11375, *Amending Executive Order 11246 Relating to Equal Employment Opportunity*, and implementing regulations at 41 C.F.R. Part 60 (Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor). See 2 C.F.R. Part 200, Appendix II(C).

**b. Key Definitions.**

- i. **Federally Assisted Construction Contract.** The regulation at 41 C.F.R. § 60-1.3 defines a “federally assisted construction contract” as any agreement or modification thereof between any applicant and a person for construction work which is paid for in whole or in part with funds obtained from the Government or borrowed on the credit of the Government pursuant to any Federal program involving a grant, contract, loan, insurance, or guarantee, or undertaken pursuant to any Federal program involving such grant, contract, loan, insurance, or guarantee, or any application or modification thereof approved by the Government for a grant, contract, loan, insurance, or guarantee under which the applicant itself participates in the construction work.
- ii. **Construction Work.** The regulation at 41 C.F.R. § 60-1.3 defines “construction work” as the construction, rehabilitation, alteration, conversion, extension, demolition or repair of buildings, highways, or other changes or improvements to real property, including facilities providing utility services. The term also includes the supervision, inspection, and other onsite functions incidental to the actual construction.

**c. Applicability.** This requirement applies to all FEMA grant and cooperative agreement programs.

**d. Required Language.** The regulation at 41 C.F.R. Part 60-1.4(b) requires the insertion of the following contract clause.

During the performance of this contract, the contractor agrees as follows:

**(1)** The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

**(2)** The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

**(3)** The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.

**(4)** The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

**(5)** The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

**(6)** The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

**(7)** In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

**(8)** The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: *Provided*, That if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

#### **4. DAVIS-BACON ACT**

- a. **Standard.** All prime construction contracts in excess of \$2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. §§ 3141-3144 and 3146-3148) as supplemented by Department of Labor regulations at 29 C.F.R. Part 5 (Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction). See 2 C.F.R. Part 200, Appendix II(D). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week.
- b. **Applicability.** The Davis-Bacon Act applies to the Emergency Management Preparedness Grant Program, Homeland Security Grant Program, Nonprofit Security Grant Program, Tribal Homeland Security Grant Program, Port Security Grant Program, and Transit Security Grant Program.
- c. **Requirements.** If applicable, the non-federal entity must do the following:
  - i. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.
  - ii. Additionally, pursuant 2 C.F.R. Part 200, Appendix II(D), contracts subject to the Davis-Bacon Act, must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. § 3145), as supplemented by Department of Labor regulations at 29 C.F.R. Part 3 (Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States). The Copeland Anti-Kickback Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person

employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to FEMA.

- iii. Include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction").

Suggested Language. The following provides a sample contract clause:

Compliance with the Davis-Bacon Act.

- a. All transactions regarding this contract shall be done in compliance with the Davis-Bacon Act (40 U.S.C. 3141- 3144, and 3146-3148) and the requirements of 29 C.F.R. pt. 5 as may be applicable. The contractor shall comply with 40 U.S.C. 3141-3144, and 3146-3148 and the requirements of 29 C.F.R. pt. 5 as applicable.
- b. Contractors are required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor.
- c. Additionally, contractors are required to pay wages not less than once a week.

## 5. COPELAND ANTI-KICKBACK ACT

- a. Standard. Recipient and subrecipient contracts must include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States").
- b. Applicability. This requirement applies to all contracts for construction or repair work above \$2,000 in situations where the Davis-Bacon Act also applies. It DOES NOT apply to the FEMA Public Assistance Program.
- c. Requirements. If applicable, the non-federal entity must include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. § 3145), as supplemented by Department of Labor regulations at 29 C.F.R. Part 3 (Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States). Each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to FEMA. Additionally, in accordance with the regulation, each contractor and subcontractor must furnish each week a statement with respect to the wages paid each of its employees engaged in work covered by the Copeland Anti-Kickback Act and the Davis Bacon Act during the preceding weekly payroll period. The report shall be delivered by the contractor or subcontractor, within seven days after the regular payment date of the payroll period, to a representative of a Federal or State agency in charge at the site of the building or work.

Sample Language. The following provides a sample contract clause:

Compliance with the Copeland "Anti-Kickback" Act.

- a. Contractor. The contractor shall comply with 18 U.S.C. §874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into this contract.
- b. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as FEMA may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.
- c. Breach. A breach of the contract clauses above may be grounds for termination of the contract, and for debarment as a contractor and subcontractor as provided in 29 C.F.R. §5.12."

**6. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT**

- a. Standard. Where applicable (see 40 U.S.C. §§ 3701-3708), all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. §§ 3702 and 3704, as supplemented by Department of Labor regulations at 29 C.F.R. Part 5. See 2 C.F.R. Part 200, Appendix II(E). Under 40 U.S.C. § 3702, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. Further, no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous.
- b. Applicability. This requirement applies to all FEMA contracts awarded by the non-federal entity in excess of \$100,000 under grant and cooperative agreement programs that involve the employment of mechanics or laborers. It is applicable to construction work. These requirements do not apply to the purchase of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.
- c. Suggested Language. The regulation at 29 C.F.R. § 5.5(b) provides contract clause language concerning compliance with the Contract Work Hours and Safety Standards Act. FEMA suggests including the following contract clause:

Compliance with the Contract Work Hours and Safety Standards Act.

(1) *Overtime requirements*. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) *Violation; liability for unpaid wages; liquidated damages*. In the event of any violation

of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of

\$27 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.

(3) *Withholding for unpaid wages and liquidated damages.* The Federal agency or loan/grant recipient shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

(4) *Subcontracts.* The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this section.

## 7. RIGHTS TO INVENTIONS MADE UNDER A CONTRACT OR AGREEMENT

- a. **Standard.** If the FEMA award meets the definition of “funding agreement” under 37 C.F.R. § 401.2(a) and the non-Federal entity wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the non-Federal entity must comply with the requirements of 37 C.F.R. Part 401 (Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements), and any implementing regulations issued by FEMA. See 2 C.F.R. Part 200, Appendix II(F).
- b. **Applicability.** This requirement applies to “funding agreements,” but it DOES NOT apply to the Public Assistance, Hazard Mitigation Grant Program, Fire Management Assistance Grant Program, Crisis Counseling Assistance and Training Grant Program, Disaster Case Management Grant Program, and Federal Assistance to Individuals and Households – Other Needs Assistance Grant Program, as FEMA awards under these programs do not meet the definition of “funding agreement.”
- c. **Funding Agreements Definition.** The regulation at 37 C.F.R. § 401.2(a) defines “funding agreement” as any contract, grant, or cooperative agreement entered into between any Federal agency, other than the Tennessee Valley Authority, and any contractor for the performance of experimental, developmental, or research work funded in whole or in part by the Federal government. This term also includes any assignment, substitution of parties, or subcontract of any type entered into for the performance of experimental, developmental, or research work under a funding agreement as defined in the first sentence of this paragraph.

**8. CLEAN AIR ACT AND THE FEDERAL WATER POLLUTION CONTROL ACT**

- a. **Standard.** If applicable, contracts must contain a provision that requires the contractor to agree to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. §§ 7401-7671q.) and the Federal Water Pollution Control Act as amended (33 U.S.C. §§ 1251-1387). Violations must be reported to FEMA and the Regional Office of the Environmental Protection Agency. See 2 C.F.R. Part 200, Appendix II(G).
- b. **Applicability.** This requirement applies to contracts awarded by a non-federal entity of amounts in excess of \$150,000 under a federal grant.
- c. **Suggested Language.** The following provides a sample contract clause.

Clean Air Act

1. The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.
2. The contractor agrees to report each violation to the Participating Public Agency and understands and agrees that the Participating Public Agency will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.
3. The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

Federal Water Pollution Control Act

1. The contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.
2. The contractor agrees to report each violation to the Participating Public Agency and understands and agrees that the Participating Public Agency will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.
3. The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

**9. DEBARMENT AND SUSPENSION**

- a. **Standard.** Non-Federal entities and contractors are subject to the debarment and suspension regulations implementing Executive Order 12549, *Debarment and*

*Suspension (1986) and Executive Order 12689, Debarment and Suspension (1989) at 2 C.F.R. Part 180 and the Department of Homeland Security's regulations at 2 C.F.R. Part 3000 (Non-procurement Debarment and Suspension).*

- b. **Applicability.** This requirement applies to all FEMA grant and cooperative agreement programs.
- c. **Requirements.**
  - i. These regulations restrict awards, subawards, and contracts with certain parties that are debarred, suspended, or otherwise excluded from or ineligible for participation in Federal assistance programs and activities. See 2 C.F.R. Part 200, Appendix II(H); and 2 C.F.R. § 200.213. A contract award must not be made to parties listed in the SAM Exclusions. SAM Exclusions is the list maintained by the General Services Administration that contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. SAM exclusions can be accessed at [www.sam.gov](http://www.sam.gov). See 2 C.F.R. § 180.530.
  - ii. In general, an "excluded" party cannot receive a Federal grant award or a contract within the meaning of a "covered transaction," to include subawards and subcontracts. This includes parties that receive Federal funding indirectly, such as contractors to recipients and subrecipients. The key to the exclusion is whether there is a "covered transaction," which is any non-procurement transaction (unless excepted) at either a "primary" or "secondary" tier. Although "covered transactions" do not include contracts awarded by the Federal Government for purposes of the non-procurement common rule and DHS's implementing regulations, it does include some contracts awarded by recipients and subrecipients.
  - iii. Specifically, a covered transaction includes the following contracts for goods or services:
    - 1. The contract is awarded by a recipient or subrecipient in the amount of at least \$25,000.
    - 2. The contract requires the approval of FEMA, regardless of amount.
    - 3. The contract is for federally-required audit services.
    - 4. A subcontract is also a covered transaction if it is awarded by the contractor of a recipient or subrecipient and requires either the approval of FEMA or is in excess of \$25,000.
- d. **Suggested Language.** The following provides a debarment and suspension clause. It incorporates an optional method of verifying that contractors are not excluded or disqualified.

**Suspension and Debarment**

- (1) This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such, the contractor is required to verify that none of the contractor's principals (defined at 2 C.F.R. § 180.995) or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2

C.F.R. § 180.935).

- (2) The contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.
- (3) This certification is a material representation of fact relied upon by the Participating Public Agency. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the Participating Public Agency, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.
- (4) The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

## 10. BYRD ANTI-LOBBYING AMENDMENT

- a. **Standard.** Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, officer or employee of Congress, or an employee of a Member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. § 1352. FEMA's regulation at 44 C.F.R. Part 18 implements the requirements of 31 U.S.C. § 1352 and provides, in Appendix A to Part 18, a copy of the certification that is required to be completed by each entity as described in 31 U.S.C. § 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the Federal awarding agency.
- b. **Applicability.** This requirement applies to all FEMA grant and cooperative agreement programs. Contractors that apply or bid for a contract of \$100,000 or more under a federal grant must file the required certification. See 2 C.F.R. Part 200, Appendix II(I); 31 U.S.C. § 1352; and 44 C.F.R. Part 18.
- c. **Suggested Language.**

### Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352 (as amended)

Contractors who apply or bid for an award of \$100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, officer or employee of Congress, or an employee of a Member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the awarding agency.

- d. Required Certification. If applicable, contractors must sign and submit to the non-federal entity the following certification.

APPENDIX A, 44 C.F.R. PART 18 – CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, Trane U.S. Inc., certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chap. 38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.

  
\_\_\_\_\_  
Signature of Contractor's Authorized Official

**Greg Spencer**

\_\_\_\_\_  
Name and Title of Contractor's Authorized Official

**July 8, 2022**

\_\_\_\_\_  
Date

## 11. PROCUREMENT OF RECOVERED MATERIALS

- a. **Standard.** A non-Federal entity that is a state agency or agency of a political subdivision of a state and its contractors must comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. See 2 C.F.R. Part 200, Appendix II(J); and 2 C.F.R. §200.322.
- b. **Applicability.** This requirement applies to all contracts awarded by a non- federal entity under FEMA grant and cooperative agreement programs.
- c. **Requirements.** The requirements of Section 6002 include procuring only items designated in guidelines of the EPA at 40 C.F.R. Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired by the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.
- d. **Suggested Language.**
  - i. In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—
    1. Competitively within a timeframe providing for compliance with the contract performance schedule;
    2. Meeting contract performance requirements; or
    3. At a reasonable price.
  - ii. Information about this requirement, along with the list of EPA- designated items, is available at EPA’s Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.
  - iii. The Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act.”

## 12. ACCESS TO RECORDS

- a. **Standard.** All recipients, subrecipients, successors, transferees, and assignees must acknowledge and agree to comply with applicable provisions governing DHS access to records, accounts, documents, information, facilities, and staff. Recipients must give DHS/FEMA access to, and the right to examine and copy, records, accounts, and other documents and sources of information related to the federal financial assistance award and permit access to facilities, personnel, and other individuals and information as may be necessary, as required by DHS regulations and other applicable laws or program guidance. See DHS Standard Terms and Conditions: Version 8.1 (2018). Additionally, Section 1225 of the Disaster Recovery Reform Act of 2018 prohibits FEMA from providing reimbursement to any state, local, tribal, or territorial government, or private non-profit for activities made pursuant to a contract that purports to prohibit audits or internal reviews by the FEMA administrator or Comptroller General.

**Access to Records.** The following access to records requirements apply to this contract:

- i. The Contractor agrees to provide Participating Public Agency, the FEMA Administrator, the Comptroller General of the United States, or any of their authorized representatives access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts, and transcriptions.
- ii. The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.
- iii. The Contractor agrees to provide the FEMA Administrator or his authorized representatives access to construction or other work sites pertaining to the work being completed under the contract.
- iv. In compliance with the Disaster Recovery Act of 2018, the Participating Public Agency and the Contractor acknowledge and agree that no language in this contract is intended to prohibit audits or internal reviews by the FEMA Administrator or the Comptroller General of the United States.

### 13. CHANGES

- a. **Standard.** To be eligible for FEMA assistance under the non-Federal entity's FEMA grant or cooperative agreement, the cost of the change, modification, change order, or constructive change must be allowable, allocable, within the scope of its grant or cooperative agreement, and reasonable for the completion of project scope.
- b. **Applicability.** FEMA recommends, therefore, that a non-Federal entity include a changes clause in its contract that describes how, if at all, changes can be made by either party to alter the method, price, or schedule of the work without breaching the contract. The language of the clause may differ depending on the nature of the contract and the end-item procured.

### 14. DHS SEAL, LOGO, AND FLAGS

- a. **Standard.** Recipients must obtain permission prior to using the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials. See DHS Standard Terms and Conditions: Version 8.1 (2018).
- b. **Applicability.** FEMA recommends that all non-Federal entities place in their contracts a provision that a contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without specific FEMA pre-approval.
- c. "The contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without specific FEMA pre-approval.

## 15. COMPLIANCE WITH FEDERAL LAW, REGULATIONS, AND EXECUTIVE ORDERS

- a. **Standard.** The recipient and its contractors are required to comply with all Federal laws, regulations, and executive orders.
- b. **Applicability.** FEMA recommends that all non-Federal entities place into their contracts an acknowledgement that FEMA financial assistance will be used to fund the contract along with the requirement that the contractor will comply with all applicable Federal law, regulations, executive orders, and FEMA policies, procedures, and directives.
- c. "This is an acknowledgement that FEMA financial assistance will be used to fund all or a portion of the contract. The contractor will comply with all applicable Federal law, regulations, executive orders, FEMA policies, procedures, and directives."

## 16. NO OBLIGATION BY FEDERAL GOVERNMENT

- a. **Standard.** FEMA is not a party to any transaction between the recipient and its contractor. FEMA is not subject to any obligations or liable to any party for any matter relating to the contract.
- b. **Applicability.** FEMA recommends that the non-Federal entity include a provision in its contract that states that the Federal Government is not a party to the contract and is not subject to any obligations or liabilities to the non-Federal entity, contractor, or any other party pertaining to any matter resulting from the contract.
- c. "The Federal Government is not a party to this contract and is not subject to any obligations or liabilities to the non-Federal entity, contractor, or any other party pertaining to any matter resulting from the contract."

## 17. PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS OR RELATED ACTS

- a. **Standard.** Recipients must comply with the requirements of The False Claims Act (31 U.S.C. §§ 3729-3733) which prohibits the submission of false or fraudulent claims for payment to the federal government. See DHS Standard Terms and Conditions: Version 8.1 (2018); and 31 U.S.C. §§ 3801-3812, which details the administrative remedies for false claims and statements made. The non-Federal entity must include a provision in its contract that the contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to its actions pertaining to the contract.
- b. **Applicability.** FEMA recommends that the non-Federal entity include a provision in its contract that the contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to its actions pertaining to the contract.
- c. "The Contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the Contractor's actions pertaining to this contract."

**Offeror agrees to comply with all terms and conditions outlined in the FEMA Special Conditions section of this solicitation.**

Offeror's Name: Trane U.S. Inc.

Address, City, State, and Zip Code: 800 Beaty Street, Davidson, NC, 28036-6924

Phone Number: 469-442-6055 Fax Number: \_\_\_\_\_

Printed Name and Title of Authorized Representative:  
Greg Spencer

Email Address: gsspencer@trane.com

Signature of Authorized Representative:  \_\_\_\_\_

Date: July 8, 2022



**TRANE®**

TRANE  
TECHNOLOGIES

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# Appendix 5

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**Exhibit G, New Jersey Business Compliance**

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**Exhibit G**  
**New Jersey Business Compliance**

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**NEW JERSEY BUSINESS COMPLIANCE**

Suppliers intending to do business in the State of New Jersey must comply with policies and procedures required under New Jersey statutes. All offerors submitting proposals must complete the following forms specific to the State of New Jersey. Completed forms should be submitted with the offeror's response to the IFB. Failure to complete the New Jersey packet will impact OMNIA Partners' ability to promote the Master Agreement in the State of New Jersey.

DOC #1	Ownership Disclosure Form
DOC #2	Non-Collusion Affidavit
DOC #3	Affirmative Action Affidavit
DOC #4	Political Contribution Disclosure Form
DOC #5	Stockholder Disclosure Certification
DOC #6	Certification of Non-Involvement in Prohibited Activities in Iran
DOC #7	New Jersey Business Registration Certificate
DOC #8	EEOAA Evidence
DOC #9	MacBride Principals Form

New Jersey suppliers are required to comply with the following New Jersey statutes when applicable:

- all anti-discrimination laws, including those contained in N.J.S.A. 10:2-1 through N.J.S.A. 10:2-14, N.J.S.A. 10:5-1, and N.J.S.A. 10:5-31 through 10:5-38;
- Prevailing Wage Act, N.J.S.A. 34:11-56.26, for all contracts within the contemplation of the Act;
- Public Works Contractor Registration Act, N.J.S.A. 34:11-56.26; and
- Bid and Performance Security, as required by the applicable municipal or state statutes.

**STATEMENT OF OWNERSHIP DISCLOSURE**

N.J.S.A. 52:25-24.2 (P.L. 1977, c.33, as amended by P.L. 2016, c.43)

**This statement shall be completed, certified to, and included with all bid and proposal submissions. Failure to submit the required information is cause for automatic rejection of the bid or proposal.**

**Name of Organization:** Trane U.S. Inc. New Jersey Branch

**Organization Address:** 19 Chapin Road Building B Suite 200, Pine Brook NJ 07058

**Part I Check the box that represents the type of business organization:**

- Sole Proprietorship (skip Parts II and III, execute certification in Part IV)
- Non-Profit Corporation (skip Parts II and III, execute certification in Part IV)
- For-Profit Corporation (any type)  Limited Liability Company (LLC)
- Partnership  Limited Partnership  Limited Liability Partnership (LLP)
- Other (be specific): \_\_\_\_\_

**Part II**

- The list below contains the names and addresses of all stockholders in the corporation who own 10 percent or more of its stock, of any class, or of all individual partners in the partnership who own a 10 percent or greater interest therein, or of all members in the limited liability company who own a 10 percent or greater interest therein, as the case may be. **(COMPLETE THE LIST BELOW IN THIS SECTION)**

**OR**

- No one stockholder in the corporation owns 10 percent or more of its stock, of any class, or no individual partner in the partnership owns a 10 percent or greater interest therein, or no member in the limited liability company owns a 10 percent or greater interest therein, as the case may be. **(SKIP TO PART IV)**

(Please attach additional sheets if more space is needed):

Name of Individual or Business Entity	Home Address (for Individuals) or Business Address

**Part III DISCLOSURE OF 10% OR GREATER OWNERSHIP IN THE STOCKHOLDERS, PARTNERS OR LLC MEMBERS LISTED IN PART II**

If a bidder has a direct or indirect parent entity which is publicly traded, and any person holds a 10 percent or greater beneficial interest in the publicly traded parent entity as of the last annual federal Security and Exchange Commission (SEC) or foreign equivalent filing, ownership disclosure can be met by providing links to the website(s) containing the last annual filing(s) with the federal Securities and Exchange Commission (or foreign equivalent) that contain the name and address of each person holding a 10% or greater beneficial interest in the publicly traded parent entity, along with the relevant page numbers of the filing(s) that contain the information on each such person. **Attach additional sheets if more space is needed.**

Website (URL) containing the last annual SEC (or foreign equivalent) filing	Page #'s

**Please list** the names and addresses of each stockholder, partner or member owning a 10 percent or greater interest in any corresponding corporation, partnership and/or limited liability company (LLC) listed in Part II **other than for any publicly traded parent entities referenced above.** The disclosure shall be continued until names and addresses of every noncorporate stockholder, and individual partner, and member exceeding the 10 percent ownership criteria established pursuant to N.J.S.A. 52:25-24.2 has been listed. **Attach additional sheets if more space is needed.**

Stockholder/Partner/Member and Corresponding Entity Listed in Part II	Home Address (for Individuals) or Business Address

**Part IV Certification**

I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the bidder/proposer; that the **<name of contracting unit>** is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with **<type of contracting unit>** to notify the **<type of contracting unit>** in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the, permitting the **<type of contracting unit>** to declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print):	Christopher Baker	Title:	Area General Manager Trane New Jersey
Signature:		Date:	7/18/22

**NON-COLLUSION AFFIDAVIT**

<b>STANDARD BID DOCUMENT REFERENCE</b>	
	<b>Reference: VII-H</b>
Name of Form:	<b>NON-COLLUSION AFFIDAVIT</b>
Statutory Reference:	No specific statutory reference State Statutory Reference N.J.S.A. 52:34-15
Instructions Reference:	Statutory and Other Requirements VII-H
Description:	The Owner's use of this form is optional. It is used to ensure that the bidder has not participated in any collusion with any other bidder or Owner representative or otherwise taken any action in restraint of free and competitive bidding.

NON-COLLUSION AFFIDAVIT

State of New Jersey
County of Morris

ss:

I, Christopher Baker residing in Pine Brook
(name of affiant) (name of municipality)
in the County of Morris and State of New Jersey of full
age, being duly sworn according to law on my oath depose and say that:

I am Area General Manager New Jersey of the firm of Trane U.S. Inc. New Jersey Branch
(title or position) (name of firm)

the bidder making this Proposal for the bid

entitled Racine County, RFB-RC2022-1001-0-2022/DM, and that I executed the said proposal with
(title of bid proposal)

full authority to do so that said bidder has not, directly or indirectly entered into any agreement,
participated in any collusion, or otherwise taken any action in restraint of free, competitive bidding in
connection with the above named project; and that all statements contained in said proposal and in
this affidavit are true and correct, and made with full knowledge that

Racine County relies upon the truth of the statements contained in said Proposal
(name of contracting unit)

and in the statements contained in this affidavit in awarding the contract for the said project.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such
contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent
fee, except bona fide employees or bona fide established commercial or selling agencies maintained by
Trane U.S. Inc.

Subscribed and sworn to

before me this day

[Handwritten signature]

Signature

July 18th, 2022

Christopher Baker

(Type or print name of affiant under signature)

Morris County, NJ
Notary public of

My Commission expires 1/6/25

(Seal)



**AFFIRMATIVE ACTION AFFIDAVIT  
(P.L. 1975, C.127)**

**Company Name:** Trane U.S. Inc. New Jersey Branch

**Street:** 19 Chapin Road, Building B Suite 200

**City, State, Zip Code:** Pine Brook, New Jersey 07058

**Proposal Certification:**

Indicate below company's compliance with New Jersey Affirmative Action regulations. Company's proposal will be accepted even if company is not in compliance at this time. No contract and/or purchase order may be issued, however, until all Affirmative Action requirements are met.

**Required Affirmative Action Evidence:**

Procurement, Professional & Service Contracts (Exhibit A)

**Vendors must submit with proposal:**

1. A photocopy of a valid letter that the contractor is operating under an existing Federally approved or sanctioned affirmative action program (good for one year from the date of the letter);

OR

2. A photocopy of a Certificate of Employee Information Report approval, issued in accordance with N.J.A.C. 17:27-4; **Provided on the following page.**

OR

3. A photocopy of an Employee Information Report (Form AA302) provided by the Division of Contract Compliance and Equal Employment Opportunity in Public Contracts and distributed to the public agency to be completed by the contractor in accordance with N.J.A.C. 17:27-4.

**Public Work – Over \$50,000 Total Project Cost:**

- A. No approved Federal or New Jersey Affirmative Action Plan. We will complete Report Form AA201. A project contract ID number will be assigned to your firm upon receipt of the completed Initial Project Workforce Report (AA201) for this contract.
- B. Approved Federal or New Jersey Plan – certificate enclosed

*I further certify that the statements and information contained herein, are complete and correct to the best of my knowledge and belief.*

7/18/22  
***Date***

  
Christopher Baker, Area General Manager Trane New Jersey  
***Authorized Signature and Title***

Certification **8895**

**CERTIFICATE OF EMPLOYEE INFORMATION REPORT RENEWAL**

This is to certify that the contractor listed below has submitted an Employee Information Report pursuant to N.J.A.C. 17:27-1.1 et. seq. and the State Treasurer has approved said report. This approval will remain in effect for the period of **15-Jan-2022 to 15-Jan-2025**

**TRANE U.S. INC.**  
**19 CHAPIN ROAD, BLDG. B STE 200**  
**PINE BROOK NJ 07058**



*Elizabeth Maher Muoio*  
**ELIZABETH MAHER MUOIO**  
State Treasurer

**P.L. 1995, c. 127 (N.J.A.C. 17:27)**  
**MANDATORY AFFIRMATIVE ACTION LANGUAGE**

**PROCUREMENT, PROFESSIONAL AND SERVICE**  
**CONTRACTS**

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation. The contractor will take affirmative action to ensure that such applicants are recruited and employed, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this non-discrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisement for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation.

The contractor or subcontractor, where applicable, will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to P.L. 1975, c. 127, as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to attempt in good faith to employ minority and female workers trade consistent with the applicable county employment goal prescribed by N.J.A.C. 17:27-5.2 promulgated by the Treasurer pursuant to P.L. 1975, C.127, as amended and supplemented from time to time or in accordance with a binding determination of the applicable county employment goals determined by the Affirmative Action Office pursuant to N.J.A.C. 17:27-5.2 promulgated by the Treasurer pursuant to P.L. 1975, C.127, as amended and supplemented from time to time.

The contractor or subcontractor agrees to inform in writing appropriate recruitment agencies in the area, including employment agencies, placement bureaus, colleges, universities, labor unions, that it does not discriminate on the basis of age, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the state of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

The contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and lay-off to ensure that all such actions are taken without regard to age, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation, and conform with the applicable employment goals, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions.

The contractor and its subcontractors shall furnish such reports or other documents to the Affirmative Action Office as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Affirmative Action Office for conducting a compliance investigation pursuant to Subchapter 10 of the Administrative Code (NJAC 17:27).



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Signature of Procurement Agent

## C. 271 POLITICAL CONTRIBUTION DISCLOSURE FORM

### Public Agency Instructions

This page provides guidance to public agencies entering into contracts with business entities that are required to file Political Contribution Disclosure forms with the agency. **It is not intended to be provided to contractors.** What follows are instructions on the use of form local units can provide to contractors that are required to disclose political contributions pursuant to N.J.S.A. 19:44A-20.26 (P.L. 2005, c. 271, s.2). Additional information on the process is available in Local Finance Notice 2006-1 ([http://www.nj.gov/dca/divisions/dlgs/resources/lfns\\_2006.html](http://www.nj.gov/dca/divisions/dlgs/resources/lfns_2006.html)). Please refer back to these instructions for the appropriate links, as the Local Finance Notices include links that are no longer operational.

1. The disclosure is required for all contracts in excess of \$17,500 that are **not awarded** pursuant to a “fair and open” process (N.J.S.A. 19:44A-20.7).
2. Due to the potential length of some contractor submissions, the public agency should consider allowing data to be submitted in electronic form (i.e., spreadsheet, pdf file, etc.). Submissions must be kept with the contract documents or in an appropriate computer file and be available for public access. **The form is worded to accept this alternate submission.** The text should be amended if electronic submission will not be allowed.
3. The submission must be **received from the contractor and** on file at least 10 days prior to award of the contract. Resolutions of award should reflect that the disclosure has been received and is on file.
4. The contractor must disclose contributions made to candidate and party committees covering a wide range of public agencies, including all public agencies that have elected officials in the county of the public agency, state legislative positions, and various state entities. The Division of Local Government Services recommends that contractors be provided a list of the affected agencies. This will assist contractors in determining the campaign and political committees of the officials and candidates affected by the disclosure.
  - a. The Division has prepared model disclosure forms for each county. They can be downloaded from the “County PCD Forms” link on the Pay-to-Play web site at <http://www.nj.gov/dca/divisions/dlgs/programs/lpcl.html#12>. They will be updated from time-to-time as necessary.
  - b. A public agency using these forms **should edit them to properly reflect the correct legislative district(s)**. As the forms are county-based, **they list all legislative districts** in each county. **Districts that do not represent the public agency should be removed from the lists.**
  - c. Some contractors may find it easier to provide a single list that covers all contributions, regardless of the county. These submissions are appropriate and should be accepted.
  - d. The form may be used “as-is”, subject to edits as described herein.
  - e. The “Contractor Instructions” sheet is intended to be provided with the form. It is recommended that the Instructions and the form be printed on the same piece of paper. The form notes that the Instructions are printed on the back of the form; where that is not the case, the text should be edited accordingly.
  - f. The form is a Word document and can be edited to meet local needs, and posted for download on web sites, used as an e-mail attachment, or provided as a printed document.
5. It is recommended that the contractor also complete a “Stockholder Disclosure Certification.” This will assist the local unit in its obligation to ensure that contractor did not make any prohibited contributions to the committees listed on the Business Entity Disclosure Certification in the 12 months prior to the contract (See Local Finance Notice 2006-7 for additional information on this obligation at [http://www.nj.gov/dca/divisions/dlgs/resources/lfns\\_2006.html](http://www.nj.gov/dca/divisions/dlgs/resources/lfns_2006.html)). A sample Certification form is part of this package and the instruction to complete it is included in the Contractor Instructions. NOTE: This section is not applicable to Boards of Education.

## C. 271 POLITICAL CONTRIBUTION DISCLOSURE FORM

### Contractor Instructions

Business entities (contractors) receiving contracts from a public agency that are NOT awarded pursuant to a “fair and open” process (defined at N.J.S.A. 19:44A-20.7) are subject to the provisions of P.L. 2005, c. 271, s.2 (N.J.S.A. 19:44A-20.26). This law provides that 10 days prior to the award of such a contract, the contractor shall disclose contributions to:

- any State, county, or municipal committee of a political party
- any legislative leadership committee\*
- any continuing political committee (a.k.a., political action committee)
- any candidate committee of a candidate for, or holder of, an elective office:
  - of the public entity awarding the contract
  - of that county in which that public entity is located
  - of another public entity within that county
  - or of a legislative district in which that public entity is located or, when the public entity is a county, of any legislative district which includes all or part of the county

The disclosure must list reportable contributions to any of the committees that exceed \$300 per election cycle that were made during the 12 months prior to award of the contract. See N.J.S.A. 19:44A-8 and 19:44A-16 for more details on reportable contributions.

N.J.S.A. 19:44A-20.26 itemizes the parties from whom contributions must be disclosed when a business entity is not a natural person. This includes the following:

- individuals with an “interest” ownership or control of more than 10% of the profits or assets of a business entity or 10% of the stock in the case of a business entity that is a corporation for profit
- all principals, partners, officers, or directors of the business entity or their spouses
- any subsidiaries directly or indirectly controlled by the business entity
- IRS Code Section 527 New Jersey based organizations, directly or indirectly controlled by the business entity and filing as continuing political committees, (PACs).

When the business entity is a natural person, “a contribution by that person’s spouse or child, residing therewith, shall be deemed to be a contribution by the business entity.” [N.J.S.A. 19:44A-20.26(b)] The contributor must be listed on the disclosure.

Any business entity that fails to comply with the disclosure provisions shall be subject to a fine imposed by ELEC in an amount to be determined by the Commission which may be based upon the amount that the business entity failed to report.

The enclosed list of agencies is provided to assist the contractor in identifying those public agencies whose elected official and/or candidate campaign committees are affected by the disclosure requirement. It is the contractor’s responsibility to identify the specific committees to which contributions may have been made and need to be disclosed. The disclosed information may exceed the minimum requirement.

The enclosed form, a content-consistent facsimile, or an electronic data file containing the required details (along with a signed cover sheet) may be used as the contractor’s submission and is disclosable to the public under the Open Public Records Act.

The contractor must also complete the attached Stockholder Disclosure Certification. This will assist the agency in meeting its obligations under the law. **NOTE: This section does not apply to Board of Education contracts.**

\* N.J.S.A. 19:44A-3(s): “The term “legislative leadership committee” means a committee established, authorized to be established, or designated by the President of the Senate, the Minority Leader of the Senate, the Speaker of the General Assembly or the Minority Leader of the General Assembly pursuant to section 16 of P.L.1993, c.65 (C.19:44A-10.1) for the purpose of receiving contributions and making expenditures.”



**List of Agencies with Elected Officials Required for Political Contribution Disclosure**  
**N.J.S.A. 19:44A-20.26**

**County Name:**

State: Governor, and Legislative Leadership Committees

Legislative District #s:

State Senator and two members of the General Assembly per district.

County:

Freeholders

{County Executive}

County Clerk

Surrogate

Sheriff

Municipalities (Mayor and members of governing body, regardless of title):

**USERS SHOULD CREATE THEIR OWN FORM, OR DOWNLOAD  
FROM THE PAY TO PLAY SECTION OF THE DLGS WEBSITE A  
COUNTY-BASED, CUSTOMIZABLE FORM.**

\*It is the policy of Trane U.S. Inc. to comply with all laws of the U.S. and certain other countries that set strict limits on contributions by corporations to political parties and candidates. Trane U.S. Inc. chooses to focus corporate charitable contributions on non-political areas of interest. Trane U.S. Inc. and its subsidiaries do not support contributions to, nor does it sponsor employee involvement with, political organizations, candidates, public office holders, fraternal or labor organizations, or any cause that is inconsistent with the letter and spirit of the company's Code of Conduct and values. Employees may not make any direct or indirect political contribution or expenditure on behalf of Ingersoll Rand or any of its related companies, unless authorized in writing by Ingersoll Rand's Government and Public Affairs Office or the Ethics and Compliance Group.

STOCKHOLDER DISCLOSURE CERTIFICATION

Name of Business:

I certify that the list below contains the names and home addresses of all stockholders holding 10% or more of the issued and outstanding stock of the undersigned.

OR

I certify that no one stockholder owns 10% or more of the issued and outstanding stock of the undersigned.

Check the box that represents the type of business organization:

- Partnership, Corporation, Sole Proprietorship, Limited Partnership, Limited Liability Corporation, Limited Liability Partnership, Subchapter S Corporation

Sign and notarize the form below, and, if necessary, complete the stockholder list below.

Stockholders:

Table with 3 rows and 2 columns for Name and Home Address.

Notary section with text for date, notary name, and affiant signature and name.

**Certification of Non-Involvement in Prohibited Activities in Iran**

Pursuant to N.J.S.A. 52:32-58, Offerors must certify that neither the Offeror, nor any of its parents, subsidiaries, and/or affiliates (as defined in N.J.S.A. 52:32 – 56(e) (3)), is listed on the Department of the Treasury’s List of Persons or Entities Engaging in Prohibited Investment Activities in Iran and that neither is involved in any of the investment activities set forth in N.J.S.A. 52:32 – 56(f).

Offerors wishing to do business in New Jersey through this contract must fill out the Certification of Non-Involvement in Prohibited Activities in Iran here:

[http://www.state.nj.us/humanservices/dfd/info/standard/fdc/disclosure\\_investmentact.pdf](http://www.state.nj.us/humanservices/dfd/info/standard/fdc/disclosure_investmentact.pdf).

Offerors should submit the above form completed with their proposal.



DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN FORM

STATE OF NEW JERSEY
DEPARTMENT OF THE TREASURY - DIVISION OF PURCHASE AND PROPERTY
33 WEST STATE STREET, P.O. BOX 230 TRENTON, NEW JERSEY 08625-0230

BID SOLICITATION # AND TITLE: Racine County, RFB-RC2022-1001-0-2022/DM

VENDOR NAME: Trane U.S. Inc. New Jersey Branch

Pursuant to N.J.S.A. 52:32-57, et seq. (P.L. 2012, c.25 and P.L. 2021, c.4) any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must certify that neither the person nor entity, nor any of its parents, subsidiaries, or affiliates, is identified on the New Jersey Department of the Treasury's Chapter 25 List as a person or entity engaged in investment activities in Iran.

CHECK THE APPROPRIATE BOX

[X] I certify, pursuant to N.J.S.A. 52:32-57, et seq. (P.L. 2012, c.25 and P.L. 2021, c.4), that neither the Vendor/Bidder listed above nor any of its parents, subsidiaries, or affiliates is listed on the New Jersey Department of the Treasury's Chapter 25 List of entities determined to be engaged in prohibited activities in Iran.

OR

[ ] I am unable to certify as above because the Vendor/Bidder and/or one or more of its parents, subsidiaries, or affiliates is listed on the New Jersey Department of the Treasury's Chapter 25 List. I will provide a detailed, accurate and precise description of the activities of the Vendor/Bidder, or one of its parents, subsidiaries or affiliates, has engaged in regarding investment activities in Iran by completing the information requested below.

Entity Engaged in Investment Activities
Relationship to Vendor/ Bidder
Description of Activities
Duration of Engagement
Anticipated Cessation Date

\*Attach Additional Sheets If Necessary.

CERTIFICATION

I, the undersigned, certify that I am authorized to execute this certification on behalf of the Vendor, that the foregoing information and any attachments hereto, to the best of my knowledge are true and complete. I acknowledge that the State of New Jersey is relying on the information contained herein, and that the Vendor is under a continuing obligation from the date of this certification through the completion of any contract(s) with the State to notify the State in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification. If I do so, I may be subject to criminal prosecution under the law, and it will constitute a material breach of my contract(s) with the State, permitting the State to declare any contract(s) resulting from this certification void and unenforceable.

Signature
Christopher Baker
Print Name and Title

07/19/2022
Date

DOC #7

**NEW JERSEY BUSINESS REGISTRATION CERTIFICATE  
(N.J.S.A. 52:32-44)**

Offerors wishing to do business in New Jersey must submit their State Division of Revenue issued Business Registration Certificate with their proposal here. Failure to do so will disqualify the Offeror from offering products or services in New Jersey through any resulting contract.

<https://www.njportal.com/DOR/BusinessRegistration/>

**Provided on following page**



## STATE OF NEW JERSEY BUSINESS REGISTRATION CERTIFICATE

**Taxpayer Name:** TRANE U.S. INC.  
**Trade Name:**  
**Address:** 1 CENTENNIAL PLAZA PO BOX 6820  
PISCATAWAY, NJ 08855-6820  
**Certificate Number:** 0091327  
**Effective Date:** January 09, 1939  
**Date of Issuance:** July 14, 2015

**For Office Use Only:**  
20150714091648948

**EEOAA EVIDENCE**

Equal Employment Opportunity/Affirmative Action  
Goods, Professional Services & General Service Projects

**EEO/AA Evidence**

Vendors are required to submit evidence of compliance with N.J.S.A. 10:5-31 et seq. and N.J.A.C. 17:27 in order to be considered a responsible vendor.

**One** of the following must be included with submission:

- Copy of Letter of Federal Approval
- Certificate of Employee Information Report **Provided on following page**
- Fully Executed Form AA302
- Fully Executed EEO-1 Report

See the guidelines at:

[https://www.state.nj.us/treasury/contract\\_compliance/documents/pdf/guidelines/pa.pdf](https://www.state.nj.us/treasury/contract_compliance/documents/pdf/guidelines/pa.pdf)

for further information.

I certify that my bid package includes the required evidence per the above list and State website.

Name: Christopher Baker

Title: Area General Manager Trane New Jersey

Signature: 

Date: 7/18/22

Certification **8895**

**CERTIFICATE OF EMPLOYEE INFORMATION REPORT RENEWAL**

This is to certify that the contractor listed below has submitted an Employee Information Report pursuant to N.J.A.C. 17:27-1.1 et. seq. and the State Treasurer has approved said report. This approval will remain in effect for the period of **15-Jan-2022 to 15-Jan-2025**

**TRANE U.S. INC.**  
**19 CHAPIN ROAD, BLDG. B STE 200**  
**PINE BROOK NJ 07058**



*Elizabeth Maher Muoio*  
**ELIZABETH MAHER MUOIO**  
State Treasurer

DOC #9  
MACBRIDE-PRINCIPLES



STATE OF NEW JERSEY DEPARTMENT OF THE TREASURY  
DIVISION OF PURCHASE AND PROPERTY

33 WEST STATE STREET, P.O. BOX 230  
TRENTON, NEW JERSEY 08625-0230

MACBRIDE PRINCIPALS FORM

BID SOLICITATION #: RFB-RC2022-1001-0-2022/DM

VENDOR/BIDDER: Trane U.S. Inc.

**VENDOR'S/BIDDER'S REQUIREMENT  
TO PROVIDE A CERTIFICATION IN COMPLIANCE WITH THE MACBRIDE PRINCIPALS  
AND NORTHERN IRELAND ACT OF 1989**

Pursuant to Public Law 1995, c. 134, a responsible Vendor/Bidder selected, after public bidding, by the Director of the Division of Purchase and Property, pursuant to N.J.S.A. 52:34-12, must complete the certification below by checking one of the two options listed below and signing where indicated. If a Vendor/Bidder that would otherwise be awarded a purchase, contract or agreement does not complete the certification, then the Director may determine, in accordance with applicable law and rules, that it is in the best interest of the State to award the purchase, contract or agreement to another Vendor/Bidder that has completed the certification and has submitted a bid within five (5) percent of the most advantageous bid. If the Director finds contractors to be in violation of the principals that are the subject of this law, he/she shall take such action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

I, the undersigned, on behalf the Vendor/Bidder, certify pursuant to N.J.S.A. 52:34-12.2 that:

**CHECK THE APPROPRIATE BOX**

The Vendor/Bidder has no business operations in Northern Ireland; or

**OR**

The Vendor/Bidder will take lawful steps in good faith to conduct any business operations it has in Northern Ireland in accordance with the MacBride principals of nondiscrimination in employment as set forth in section 2 of P.L. 1987, c. 177 (N.J.S.A. 52:18A-89.5) and in conformance with the United Kingdom's Fair Employment (Northern Ireland) Act of 1989, and permit independent monitoring of its compliance with those principals.

**CERTIFICATION**

I, the undersigned, certify that I am authorized to execute this certification on behalf of the Vendor/Bidder, that the foregoing information and any attachments hereto, to the best of my knowledge are true and complete. I acknowledge that the State of New Jersey is relying on the information contained herein, and that the Vendor/Bidder is under a continuing obligation from the date of this certification through the completion of any contract(s) with the State to notify the State in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification. If I do so, I will be subject to criminal prosecution under the law, and it will constitute a material breach of **my** agreement(s) with the State, permitting the State to declare any contract(s) resulting from this certification to be void and unenforceable.

7/18/22

Signature

Date

Christopher Baker, Area General Manager Trane New Jersey

Print Name and Title

## Request for Taxpayer Identification Number and Certification

**Give Form to the  
 requester. Do not  
 send to the IRS.**

▶ Go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9) for instructions and the latest information.

See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. <b>TRANE U.S. INC.</b>	
2 Business name/disregarded entity name, if different from above	
3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only <b>one</b> of the following seven boxes. <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input checked="" type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____ <b>Note:</b> Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is <b>not</b> disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner. <input type="checkbox"/> Other (see instructions) ▶ _____	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) <u>5</u> Exemption from FATCA reporting code (if any) _____ <small>(Applies to accounts maintained outside the U.S.)</small>
5 Address (number, street, and apt. or suite no.) See instructions. <b>800-E BEATY STREET</b>	Requester's name and address (optional)
6 City, state, and ZIP code <b>DAVIDSON, NC 28036</b>	
7 List account number(s) here (optional)	

### Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

**Note:** If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

<b>Social security number</b>									
or									
<b>Employer identification number</b>									
2	5	-	0	9	0	0	4	6	5

### Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

<b>Sign Here</b>	Signature of U.S. person ▶	Date ▶ 1/4/2022
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### General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

**Future developments.** For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9).

### Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
  - Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
  - Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
  - Form 1099-S (proceeds from real estate transactions)
  - Form 1099-K (merchant card and third party network transactions)
  - Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
  - Form 1099-C (canceled debt)
  - Form 1099-A (acquisition or abandonment of secured property)
- Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.
- If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.*