Facilities Development Division www.oshpd.ca.gov/fdd
400 R Street. Suite 200, Sacramento, California 95811-6213 Phone (916) 440-8300 Fax (916) 654-2973

APPLICATION FOR PREAPPROVAL

SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

For Office Use Only

APPLICATION NO.

OSP -0203-10

Check whether application is: NEW [X] RENEWAL [ ]

1.0

The Trane Company — *Manufacturer*

Steve Lotspaih — *Manufacturer's Technical Representative*

3600 Pammel Creek Road, La Crosse, WI 54601 — *Mailing Address*

608-787-4100 — *Telephone*

slotspaih@trane.com — *E-mail Address*

2.0

Performance Climate Changer — *Product Name*

Air Handling Unit — *Product Type*

PCC Size 6; Model # CSAA006VAC00

Product model No (List all unique product identification numbers and/or serial numbers)

General Description: This unit is a cataloged Air Handling Unit. This certification is for this model number only, in the installed configuration as tested. Unit was tested suspended from above using vibration isolation hangers and seismic cable bracing.

3.0

The VMC Group — *Applicant Company Name*

John Wilson, Jr. — *Contact Person*

113 Main St, Bloomingdale NJ, 07403 — *Mailing Address*

973-838-1780 — *Telephone*

jwilson@thevmcgroup.com — *E-mail Address*

I hereby agree to reimburse the Office of Statewide Health Planning and Development for the actual costs incurred by the department for review.

Signature of Applicant

7/29/2011 — *Date*

CEO — *Title*

The VMC Group — *Company Name*

Registered Design Professional Preparing the Report

4.0

The VMC Group
Company Name

Mr. Ken Tarlow | SE2851
Contact Name | *California License Number*

113 Main Street, Bloomingdale NJ, 07403
Mailing Address

973-838-1780 | ken.tarlow@thevmcgroup.com
Telephone | *E-mail Address*

California Licensed Structural Engineer Review and Acceptance of the Report

5.0

The VMC Group
Company Name

Mr. Ken Tarlow | SE2851
Contact Name | *California License Number*

113 Main Street, Bloomingdale NJ, 07403
Mailing Address

973-838-1780 | ken.tarlow@thevmcgroup.com
Telephone | *E-mail Address*

Anchorage Pre-Approval

6.0

☐ *Anchorage is pre-approved under OPA-*
(Separate application for anchorage pre-approval is required)

☒ Anchorage is not Pre-approved

Certification Method

70. ☒ *Testing in accordance with:* ☒ *ICC-ES AC-156* ☐ *Other (Please Specify):*

☐ *Analysis*

☐ *Experience data*

☐ *Combination of Testing, Analysis, and/or Experience Data (Please Specify):*

Testing Laboratory (if applicable)

8.0

Clark Dynamics | JR Antenucci
Company Name | *Contact Name*

1801 Rt 51, Jefferson Hills PA, 15025
Mailing Address

417-387-1001 | jrantenucci@clarktesting.com
Telephone | E-mail:

2/4

Approval Parameters

9.0

Design in accordance with ASCE 7-05 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components (F_p/W_p) = 0.62 g

S_{DS} (Spectral response acceleration at short period) =1.04 g

a_p (In-structure equipment or component amplification factor) =2.5

R_p (Equipment or component response modification factor) =2.5

I_p (Importance factor) = 1.5

z/h (Height factor ratio)= 0.0

Equipment or Component fundamental period(s) =See Attachment

Building period limits (if any) =N/A

Overall dimensions and weight (or range thereof) = See Attachment

Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: ☐ Yes ☒ No

Design Basis of Equipment or Components (V/W) =

S_{DS} (Spectral response acceleration at short period) =

S_1 (Spectral response acceleration at 1 second period) =

R (Response modification coefficient)=1.0

Ω_0 (System overstrength factor) =1.0

C_d (Deflection amplification factor) =1.0

I_p (Importance factor) =1.5

Height to Center of Gravity above base =

Equipment or Component fundamental period(s) = Sec

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2007: ☐ Yes ☒ No

10.0 *List of attachments supporting the special seismic certification of equipment or components:*

☒ *Test Report* ☒ *Drawings* ☒ *Manufacturer's Catalog*

☐ *Calculations* ☐ *Others (Please Specify):*

11.0 *OSHPD Approval* *(For Office Use Only)*

7/29/2011	**December 31, 2016**
Signature & Date	*Approval Expiration Date*
M. R. Karim, SHFR	S_{DS} (g) = **1.04** z/h = **0.0**
Name & Title	*Special Seismic Certification Valid Up to*

Condition of Approval (if any):

Product Matrix for OSHPD Compliance
Unit Under Test Model and Configuration
Trane Performance Climate Changers

Model Number	Airflow (CFM)	Module Size	Installation Description	External Isolation	External Seismic Restraint
CSIA006	2500	6	Suspended from building structure	Spring hangers	Cable restraints

Unit Construction (All Modules, except as shown)				
22 Gauge Stainless Steel Inner Liner	22 Gauge Galvanized Steel Outer Liner	2" Double Wall foam insulation	2.5" high x 2" wide perimeter base rail, steel sheet, rectangular tube shape	22 Gauge Stainless Steel Perf Lining (Module #4 Only)

Internal Layout					
Module # and Type	#1, Fliter Section	#2 Coil Section		#3 Access Section	#4 Fan Section
Length	24.5"	14"		14"	41"
Weight	196#	140#		89#	656#
Internal Components	Airguard XM-211 Pleated 24x20x2 Prefilter	Trane UA-2 Hot Water Heating Coil 26x34; 2 rows 1/2" dia Copper Tubes, 0.016" wall thickness Aluminum Fins, 122 Fins per Foot		No active or passive internal components	14" Belt Drive Plenum Fan, Class 1 Comefri Model 14T2AF
	Airguard Legacy LG-915-MC Merv 15 Cartridge Filter				Premium ODP Motor, 3hp, 208/60/3, 1800 RPM Baldor Model EHM3211T-8
					VFD with Bypass & Inverter Balance Danfoss Model 174F7601

All Modules are 44" Wide and 35.25" High

Height (in)	35.25
Width (in)	44
Length (in)	93.5
Weight (lbs)	1081

Figure 1. Trane BF-1 PCC Size 6 AHU mounted on Tri-axial Table

THE VMC GROUP
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