

Office of Statewide Health Planning and Development

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

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APPLICATION FOR PREAPPROVAL

SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

	For Office Use Only	<u></u>
	APPLICATION NO.	Check whether application is: NEW X RENEWAL
	OSP -0205-10	
1.0	The Trane Company	Steve Lotspaih
1.0	Manufacturer	Manufacturer's Technical Representative
	3600 Par	nmel Creek Road, La Crosse, WI 54601
		Mailing Address
	608-787-4100	slotspaih@trane.com
	Telephone	E-mail Address
2.0	Air –Cooled Chiller	Helical Rotary Water Chiller
	Product Name	Product Type
		RTAC Series, Size 250
	Product model No	(List all unique product identification numbers and/or serial numbers)
		ed cataloged Air-Cooled Chiller. Certification is limited to Size 250 unit clude supports and attachments. Unit was tested mounted onto a fixture.
3.0	The VMC Group	John Wilson, Jr.
0.0	Applicant Company Name	Contact Person
	11	3 Main St, Bloomingdale NJ, 07403
		Mailing Address
	973-838-1780	jwilson@thevmcgroup.com
	Telephone	E-mail Address
	eby agree to reimburse the Office s incurred by the department for re	of Statewide Health Planning and Development for the actual eview.
	Joe wed	8/5/2011
	Signature of Applicant	Date
	CEO	The VMC Group
	Title	Company Name

Office of Statewide Health Planning and Development



4.0	Reg	istered Design Professional Prepari	211-1011-2-101-2	
4.0			The VMC Group	
			Company Name	
9.		Mr. Ken Tarlow	<u> </u>	SE2851
		Contact Name	Street, Bloomingdale NJ, 0740	California License Number
		TTO WAIT	Mailing Address	
		973-838-1780		arlow@thevmcgroup.com
		Telephone		E-mail Address
		fornia Licensed Structural Engineer	Review and Acceptance of th	ne Report
5.0			The VMC Group	
		Mr. Kan Tarlau	Company Name	050054
		Mr. Ken Tarlow		SE2851
		Contact Name		California License Number
5.4		113 Main	Street, Bloomingdale NJ, 0740	3
			Mailing Address	
69		973-838-1780	ken.t	arlow@thevmcgroup.com
		Telephone		E-mail Address
6.0	Anci	horage Pre-Approval		
		Anchorage is pre-approved under O (Separate application for anchorage		
	\boxtimes	Anchorage is not Pre-approved		
	Cert	ification Method		
70.	\boxtimes	Testing in accordance with:	☑ ICC-ES AC-156	Other (Please Specify):
	Ш	Analysis		
		Experience data		
22		Combination of Testing, Analysis, ar	nd/or Experience Data (Please	Specify):
	Test	ing Laboratory (if applicable)		
8.0	000000	UC Berkeley PEER	v	Vesley Neighboour
8		Company Name		Contact Name
		1301 S. 46 th Stre	eet, Building 240, Richmond, C	A 94804
8			Mailing Address	
		510-665-3409	Maining Addisos	wdn@berkeley.edu
		Telephone		E-mail:

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	Approval Parameters
9.0	Design in accordance with ASCE 7-05 Chapter 13: Yes No
	Design Basis of Equipment or Components $(F_p/W_p) = 0.60 g$
	S_{DS} (Spectral response acceleration at short period) = 1.0 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 Attached UUT Description
	Building period limits (if any) =N/A
	Overall dimensions and weight (or range thereof) = 268"Lx89"Wx96"H; 14937#
	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
0.0	List of attachments supporting the special seismic certification of equipment or components:
-	□ Test Report
	☐ Calculations ☐ Others (Please Specify):
4.0	OSHPD Approval (For Office Use Only)
1.0	8/9/2011 December 31, 2016
-	Signature & Date Approval Expiration Date
-	M. R. Karim, SHFR $S_{DS}(g) = 1.0$ $z/h = 0.0$
	Name & Title Special Seismic Certification Valid Up to Condition of Approval (if any):

Trane RTAC 250 Air-Cooled Chillers Unit Under Test (UUT) Description

		Г	1		Г	Г	1
	Height (in)	96			Z	8.1	200
nvelope	(in)			iencies (Hz)		1	
Product Envelope	Width	88		Natural Frequencies (Hz)	٨	7.	
	Length (in)	268			×	9.9	
	Length						
	Operating Weight (Ibs)	14937					
	Freq (Hz)	09		Base Rail Channel	C6 X 8.2		Fan Quantity
	Туре	Standard		Refrigerant Circuits	2	*	Fan Blade Manufacturer
	Nominal Capacity (tons)	250		Anchor Points	10		Fan Motor Manufacurer

Evaporator Manufacturer	Evaporator Quantity	Compressor Manufacturer	Compressor Type	Compressor Quantity	Expansion Valve Manufacturer	Expansion Valve Quantity
Trane: P/N EVP-Assy-019	1	Trane: P/N 570301880100	N2+N2	2	Sporlan Valve: P/N X15111210200	2
Coil Manufacturer	Base Coil Fin Material	Coil Quantity	Operator Interface Manufacturer	Operator Interface Type	Motor Starter & Control Panel Manufacturer	Motor Starter & Control Panel Quantity
Trane: P/N CLS-SLAB-123	Aluminum	4	Atmel: P/N 570954130100	DynaView	Curtiss Wright: P/N 572245181900	Ţ

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Revcor: P/N X38011052010

A O Smith: P/N X70370512070



Bolted connection and elastomeric pad between the UUT1 skid and adapter frame

Attachment of RTAC 250 to fixture with 5/8" Bolts & VMC Shear-Flex Pads

Trane RTAC 250 on Shake Table

