

ADDU ATION FOR ADURD ADEALAL ADIANA	OFFICE	USE ONLY
APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #:	OSP - 0478 - 10
OSHPD Special Seismic Certification Preapproval (OSP)		
Type: 🛛 New 🗌 Renewal		
Manufacturer Information		
Manufacturer: Russell Sigler Inc.		
Manufacturer's Technical Representative: Raul Mangiliman		
Mailing Address: 229 Littlefield Avenue, Suite 4, South San Francisco	o, CA 94080	
Telephone: 415.330.6624 Email: rmang	iliman@siglers.com	
Product Information		
Product Name: 16TJ Absorption Chiller		
Product Type: Chiller		
Product Model Number: TSA-16TJ-12E-SF (List all unique product identification numbers and/or part numbers) General Description: Single-effect steam-fired absorption chiller.		
Mounting Description: Base mounted – neoprene pads		
Applicant Information		
Applicant Company Name: _ TRU Compliance, LLC		
Contact Person: Derek J. Manwill, S.E.		
Mailing Address:960 SW Disk Dr., Suite 104, Bend, OR 97702		
Telephone: 844.878.0200 Email: dman	vill@trucompliance.com	
I hereby agree to reimburse the Office of Statewide Health accordance with the California Administrative Code, 2016.	Planning and Develo	pment review fees in
Signature of Applicant:	Date:	09/07/2016
Title: Vice President Company Name: TRU C	Compliance, LLC	
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15)	MAM	OSHPD Page 1 of 3

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15)



California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name:TRU Compliance, LLC
Name: Derek J. Manwill, S.E. California License Number: S6266
Mailing Address: _ 960 SW Disk Dr., Suite 104, Bend, OR 97702
Telephone: 844.878.0200 Email: dmanwill@trucompliance.com
Supports and Attachments Preapproval
 Supports and attachments are preapproved under OPM- (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required) Supports and attachments are not preapproved
Certification Method
 Testing in accordance with: ICC-ES AC156 Other (Please Specify):
Testing Laboratory
Company Name: UC Berkeley - Pacific Earthquake Engineering Research Center (PEER)
Contact Name: Clement B. Barthes
Mailing Address: _ 1301 South 46 th St., Bldg. 420, Richmond, CA 94804

Telephone: _510.642.3437

Email: Peer_center@berkeley.edu

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

OSHPD

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: 🖂 Yes 🔲 No
Design Basis of Equipment or Components (Fp/Wp) = 0.78
S_{DS} (Design spectral response acceleration at short period, g) = 1.3
a_p (In-structure equipment or component amplification factor) = 2.5
R_p (Equipment or component response modification factor) = <u>2.5</u>
Ω_0 (System overstrength factor) = _2
I_p (Importance factor) = 1.5
z/h (Height factor ratio) = _0
Equipment or Component Natural Frequencies (Hz) = <u>See UUT1 Summary Sheet in Attachment</u>
Overall dimensions and weight (or range thereof) = See Attachments
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: 🗌 Yes 🛛 No
Design Basis of Equipment or Components (V/W) =
S _{DS} (Design spectral response acceleration at short period, g) =
S _{D1} (Design spectral response acceleration at 1 second period, g) =
R (Response modification coefficient) =
Ω_0 (System overstrength factor) =
C _d (Deflection amplification factor) =
I_p (Importance factor) = 1.5
Height to Center of Gravity above base =
Equipment or Component Natural Frequencies (Hz) =
Overall dimensions and weight (or range thereof) =
Tank(s) designed in accordance with ASME BPVC, 2015: 🗌 Yes 🖾 No
List of Attachments Supporting Special Seismic Certification
Test Report(s) Drawings Calculations Manufacturer's Catalog
Other(s) (Please Specify): Attachment A
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022
Signature: Date: 9/14/2016
Print Name: M. R. Karim Title: SHFR
Special Seismic Certification Valid Up to : $S_{DS}(g) = 1.3$ $z/h = 0.0$
Condition of Approval (if applicable):
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15) Page 3 of 3

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



TRU PROJECT NO. 16030

Manufacturer: Model Line:	Russell Sigler Inc. 16TJ						ΤA	BLE	1
	<i>nstruction Summary:</i> tion.								
<i>Certified Options Sur</i> No certified options or	<i>mmary:</i> ⁻ accessories. Single cor	figuration	only.						
<i>Mounting Configurat</i> Base mounted - isolate Note: Installed mounting co		r configuratio	n and equiva	lent strength	and stiffness	to those test	ed.		
Building Code: CBC 2	016	Seismic C	ertificatio	on Limits:	S _{DS} =	1.3g z/i	h=0.0	/ _P =	1.5
Model Line	Model	Dir Depth	nensions Width	(in) Height	Weight (Ib)		Notes		UUT
16TJ	TSA-16TJ-12E-SF	102	51	86	8880				1

UNIT UNDER TEST (UUT) SUMMARY SHEFT

TRU PROJECT NO. 16030



Manufacturer:	Russell Sigle	r Inc.								1
Model Line:	16TJ								JUT	I
Model Number:	TSA-16TJ-12	E-SF			Serial N	umber:	8178779	7		
Product Construc	ction Summary:									
Carbon steel const	truction.									
Options/Subcom	ponent Summary	<i>!:</i>								
No certified optior	ns or accessories o	other than specific u	nit config	guration.						
			UUT Pr	operties						
Weight		Dimension (in)	UUT Pr	operties		Lowes	t Natural	Frequen	cy (Hz)	
Weight (Ib)	Depth	Dimension (in) Width		,	Front	Lowes -Back	t Natural Side	Frequen -Side		tical
° –	Depth 102		Не	<i>operties</i> ight 86			Side		Ver	tical .2
(lb)	· · · · ·	Width	He {	ight 86	5	-Back .8	Side	-Side	Ver	
(lb)	102	Width 51	He { Passed Se	ight 86 <i>eismic Rur</i>	5	-Back .8	Side 9	-Side .6	Ver 6	.2
(Ib) 8880 Building	102 g Code	Width 51 UUT Highest P Test Criteri	He { Passed Se a	ight 86 <i>eismic Rur</i> S _{DS} (g)	5 n <i>Informa</i> z/h	-Back .8 a <i>tion</i> I _P	Side 9 A _{FLX-H} (g)	-Side .6 A _{RIG-H} (g)	Vert 6 A _{FLX-V} (g)	.2 A _{RIG-V} (g)
(Ib) 8880	102 g Code	Width 51 UUT Highest P	He { Passed Se a	ight 86 <i>eismic Rur</i>	5 n Informa	-Back .8 a <i>tion</i>	Side 9	-Side .6	Ver 6	.2





Base mounted on (4) 12x16x3/8" A36 steel plates with 22" of 3/16" fillet weld each. Base plates and channel are fully supported by Vibrex ISOCUBE 3/4" thick neoprene pads. Base plates are anchored using (4) 3/4" Grade 8 bolts each. Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

> TRU Compliance, LLC - A Tobolski Watkins Affiliate 844.TRU.0200 | info@trucompliance.com