

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0129
HCAI Special Seismic Certification Preapproval (OSP)	
Type: New X Renewal	
Manufacturer Information	
Manufacturer: YoungTouchstone	
Manufacturer's Technical Representative: Vicki Piazza	
Mailing Address: 200 Smith Lane, Jackson, TN 38308	
Telephone: (414) 768-7429 Email: vpiazza@wabted	c.com
Product Information	
Product Name: HB Radiators (Horizontal Core)	
Product Model Number(s): HB-24 and HB-84	E.
Product Category: Emergency and Standby Power Systems	1 G
Product Sub-Category: Remote Radiators	
General Description: Stand alone external radiators for diesel powered g	gensets.
Mounting Description: Base Mounted Rigid -	
Tested Seismic Enhancements: Seismic enhancements made to the test anomalies during the tests shall be income	t units and/or modifications required to address reporated into the production units.
Applicant Information	
Applicant Company Name: Pre Compliance	02
Contact Person: Katie Braman	
Mailing Address: 36 SW Wall St, Bend, OR 97702	
Telephone: (541) 241-2310 Email: katie@go-pre.co	om
Title: Principal & Program Manager	



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

OSP-0129



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

California Licensed Structural Engineer Responsible	for the Engineering and Test Report(s)
Company Name: PRE COMPLIANCE	
Name: Andrew Coughlin	California License Number: S6082
Mailing Address: 36 SW Wall Street, Bend, OR 97702	
Telephone: (415) 635-8461 Email: An	dy@go-pre.com
Certification Method	
GR-63-Core X ICC-ES AC156	IEEE 344
Other (Please Specify):	
FORC	DDECO
Testing Laboratory	
Company Name: UNIVERSITY OF CALIFORNIA, BERKELEY	(PEER)
Contact Person: Amarnath Kasalanati	2
Mailing Address: 325 Davis Hall, Berkeley CA 94720-1729	-0129
Telephone: (510) 642-3437	narnath1@berkeley.edu
DATE: 12 DATE: 12 DATE: 12 DATE: 12 DATE: 12	2/6/2024 DING CODE: 1



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OSP-0129



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Seismic Parameters

Design Basis of Equipment or Components	(Fp/Wp) = 1.53		
SDS (Design spectral response accele	eration at short period, g) = 2.13 at z/h	= 1	
ap (Amplification factor) =	1.0		
Rp (Response modification factor) =	2.5		
Ω_0 (System overstrength factor) =	2.0		
Ip (Importance factor) =	1.5		
z/h (Height ratio factor) =	1		
Natural frequencies (Hz) =	See Attachment		
Overall dimensions and weight =	See Attachment	~	
HCAI Approval (For Office Use Only) -	Approval Expires on 12/11/2030		
Date: 12/6/2024	OSP-0129	G	
Name: Mohammad Karim		Title:	Supervisor, Health Facilities
Special Seismic Certification Valid Up to: St	ps (g) = 2.13	z/h =	1
Condition of Approval (if applicable):	DATE: 12/6/2024		
	PRIVIA BLULDING CODY	120	



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OSP-0129



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Manufacturer:WabteProduct Type:RemoModel Line:HB Se

Wabtec Corporation, LLC Remote Radiators HB Series Radiators

Seismic Parameters

Building Codes

 $S_{\text{DS}} = \begin{array}{c} 2.13 \text{g for z/h=1} \\ 2.13 \text{g for z/h=0} \end{array} \qquad I_{\text{p}} = 1.5$

CBC 2022

TABLE 1

Mounting Configuration: Base Mounted - Rigid

Construction Summary

Carbon Steel

Options Summary

Seismic Braces/Enhancements on HB-84

Model Line	Model	hp	Max. D	imensi	ons (in)	Wt.	Notes	UUT
Model Lille			D	W	н	(lb)	Notes	
Horizontal Core	HB-24	3	78	68	106	4,524		1
Radiators	HB-84	100	133	120	125	12,400	Seismic Enhancements	2
		P'/r					2	
			(PSP-	Q129			
		E	<u>8Y: M</u>	bhamn	had Ka	rim		
				. 10/	\$/2024			
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				UIL	DING			



SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Manufacturer: **Product Type:** Model Line:

Wabtec Corporation, LLC **Remote Radiators HB** Series Radiators

Seismic Parameters

Building Codes

S_{DS} = 2.13g for z/h=1 I_p = 1.5 S_{DS} = 2.13g for z/h=0

CBC 2022

TABLE 2

Fans and Motors

Component (Manufacturer)	Model	Description	υυτ
Fan (Multi-Wing)	54/8-8/32/PAG/9W2R		1
Fan (WACO)	17P 10-108-WHISPR RP22	ONIS	2
	YT50869-33	3 Hp Motor - Frame 182T	1
Motor (GE)	YTXXXXX-XX OSP-0129		Interp.
	YT50869-14 BY Mohammad K	100HP Motor - Frame 405T	2
	P DATE: 12/6/202		
	TOPNIA BUILDING	Ster.	
	A BUILDING	COL	



SPECIAL SEISMIC CERTIFICATION TESTING SUMMARY

Pre No. CC231383-01-R1

				z/h	۱ _р
HB-24	UC Berkeley PEER-STI_2010-11 Young Touchstone HB Radiators	Pacific Earthquake Engineering Research Center	2.13	1.0	1.5
HB-84	UC Berkeley PEER-STI_2010-11 Young Touchstone HB Radiators	Pacific Earthquake Engineering Research Center	2.13	1.0	1.5
	ODE O				
	ED FOR CODE (Mp			
	HCAI				
	OSP-0129				
	RV: Mohammad Ka	rim			
	DATE: 12/6/2024				
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
	PULLE	CODY			
	BUILDING				
	HB-84	Young Touchstone HB Radiators	HB-64 Young Touchstone HB Radiators Research Center   Image: Second Secon	HB-64   Young Touchstone HB Radiators   Research Center   2.13     Image: Second Sec	HB-84   Young Touchstone HB Radiators   Research Center   2.13   1.0     Image: Amount of the second of the secon



# SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

		UU	T 1		Tes	t Repo	rt# ^{UC B}	ekeley PEE Istone HB R	R-STI_2010 adiators	)-11 Young
Manufacturer: W	abtec Corporatic	n, LLC			High	est Pa	ssed Te			
	3 Series Radiator	S		$S_{DS}$	z/h	l _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
	3-24 980016			2.13	1 0	1.5	3.41	2.56	1.43	0.58
			_							
Dimer Depth (in) Width (in)	nsions/Weights Height (in)	Weight (Ibs.)		Front-B			al Freq de-Side	uency (	Hz) Vertio	sal.
78 68	106	4,524		10.00		510	20.0		9.96	
Building Codes		st Criteria		CO/	Constr	uction	/Optior	i Summ	ary	
CBC 2022	ICO	C-ES AC156			Carbon	steel wi	th stand	lard brac	cing.	
	L.	UUT Mour								
					DE	with six Unit ma and rer manufa shake t	as moun (6) Gra aintained mained c acturer r table tes ed in the ons.	de 8 5/8 d structu operation equirem t. All con	" bolts. Iral integnal per ent follo	grity owing vere
	Descript	List of Includec	a Sub	compo	nents		Model	Numbe	r	
	Multi-Wing						/8-8/32/			

Description	Model Number
Multi-Wing Fan	54/8-8/32/PAG/9W2R
GE 3 Hp Motor - Frame 182T	YT50869-33



# SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

Manufacturer:   Wabtec Corporation, LLC     Model Line:   HB Series Radiators     Model Number:   HB-84     Serial Number:   2980089     Dimensions/Weights   Lowest Natural Frequency (Hz)     Depth (in) Width (in)   Height (in)   Weight (lbs.)     133   120   125   12,400     Building Codes   Test Criteria   Construction/Option Summary     CBC 2022   ICC-ES AC156   Carbon steel with enhanced seismic bracing.     UUT Mounting Details:   UUT was mounted to the shake tal with six (6) Grade 8 5/8" bolts. Unit maintained structural integrity and remained operational per manufacturer requirement followin shake table test. All contents were included in the unit per operating conditions.   See the following page for drawing seismic enchancement details.
Model Number:   HB-84 Serial Number:   2980089   2.13   1   1.5   3.41   2.56   1.43   0.4     Dimensions/Weights 133   Dimensions/Weight (in) 133   Height (in) 125   Weight (lbs.) 12,400   Lowest Natural Frequency (Hz)     Building Codes   Test Criteria   Construction/Option Summary     CBC 2022   ICC-ES AC156   Carbon steel with enhanced seismic bracing.     UUT Mounting Details:   UUT was mounted to the shake tal with six (6) Grade 8 5/8" bolts.   UUT was mounted to the shake tal with six (6) Grade 8 5/8" bolts.     Unit maintained structural integrity and remained operational per manufacturer requirement followin shake table test. All contents were included in the unit per operating conditions.   See the following page for drawing
Serial Number:   2980089   0     Dimensions/Weights   Lowest Natural Frequency (Hz)     Depth (in)   Width (in)   Height (in)   Weight (lbs.)   Front-Back   Side-Side   Vertical     133   120   125   12,400   4.0   7.7   14.6     Building Codes   Test Criteria   Construction/Option Summary     CBC 2022   ICC-ES AC156   Carbon steel with enhanced seismic bracing.     UUT Mounting Details:   UUT was mounted to the shake tal     With six (6) Grade 8 5/8" bolts.   Unit maintained structural integrity and remained operational per manufacturer requirement followin shake table test. All contents were included in the unit per operating conditions.     See the following page for drawing
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CBC 2022 ICC-ES AC156 Carbon steel with enhanced seismic bracing. UUT Mounting Details: UUT was mounted to the shake tall with six (6) Grade 8 5/8" bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions. See the following page for drawing
UDE Mounting Details     View
The following page for drawing
UUT was mounted to the shake tal with six (6) Grade 8 5/8" bolts. Unit maintained structural integrity and remained operational per manufacturer requirement followin shake table test. All contents were included in the unit per operating conditions.
with six (6) Grade 8 5/8" bolts. Unit maintained structural integrity and remained operational per manufacturer requirement followin shake table test. All contents were included in the unit per operating conditions. See the following page for drawing
List of Included Subcomponents
Description     Model Number       WACO Fan     17P 10-108-WHISPR RP22
GE 100HP Motor - Frame 405T YT50869-14

12/6/2024

