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"Equitable Healthcare Accessibility for California"

Office of Statewide Health Planning and Development



APPLICATION FOR PREAPPROVAL

SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

For Office Use Only

APPLICATION NO.

OSP - 0281-10

Check whether application is: NEW X

RENEWAL

TOSHIBA MEDICAL SYSTEMS 1.0 Manufacturer

Greg Patterson

Manufacturer's Technical Representative

2441 Michelle Drive, Tustin, CA 92681

Mailing Address

(714) 669-7842

Telephone

E-mail Address

R/F MEDICAL IMAGING

Product Type

KALARE Product Name

SEE ATTACHMENT 1

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

General Description: A multi-component radiography/fluoroscopy (R/F) medical diagnostic imaging system.

EQUIPMENTANCHORAGE.COM

Applicant Company Name

JONATHAN ROBERSON, S.E.

Contact Person

5877 Pine Ave, Suite 210, Chino Hills, CA. 91709 Mailing Address

(406) 541-EASE (3273)

ion@easeco.com

Telephone

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.

Signa cure of Applicant

Principal Engineer Title

July 5, 2012

Date

EQUIPMENTANCHORAGE.COM

Company Name

osDpd

"Equitable Healthcare Accessibility for California"

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4.0	Reg	istered Design Professional Prepari EQUI	PMENTANCHORAGE.COM	1						
		Company Name								
		Jonathan Roberson, S.E.		S4197						
		Contact Name		California License Number						
		5877 Pine Ave	e, Suite 210, Chino Hills, CA	A. 91709						
			Mailing Address							
		909-606-7622		jon@easeco.com E-mail Address						
	Call	Telephone	Deview and Accortance of t							
5 0		fornia Licensed Structural Engineer	•	-						
5.0		EQUI	PMENTANCHORAGE.COM Company Name	1						
			Company Name	0.4407						
		Jonathan Roberson, S.E. Contact Name		S4197 California License Number						
		5877 Pine Ave	e, Suite 210, Chino Hills, CA Mailing Address	A. 91709						
		000 000 7000	Maining Address							
		909-606-7622 Telephone		jon@easeco.com E-mail Address						
	Anc			E-mail Address						
6.0	AIIC	Anchorage Pre-Approval								
0.0		Anchorage is pre-approved under C)PA-							
		- · · · ·								
		(Separate application for anchorage pre-approval is required)								
	Anchorage is not Pre-approved									
	Cort	Certification Method								
70.										
70.	\boxtimes	Testing in accordance with:	🛛 ICC-ES AC-156	Other (Please Specify):						
		Analysis								
		Experience data								
		•	nd/or Experience Data (Please	Specify):						
		Combination of Testing, Analysis, and/or Experience Data (Please Specify):								
	Test	ing Laboratory (if applicable)								
8.0		Environmental Testing Laboratory	/, Inc.	Brady Richard						
		Company Name	<u> </u>	Contact Name						
		11034 India	in Trail, Dallas, TX 75229-35	513						
			Mailing Address							
		972-247-9657		brady@etIdallas.com						
		Telephone		E-mail:						

osDpd

"Equitable Healthcare Accessibility for California"

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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 $(F_p/W_p) = 0.6(S_{DS})(a_P/R_P)(1+2 z/h)$ S_{DS} (Spectral response acceleration at short period) = 2.0g @ z/h=1.0; 2.6g @ z/h=0 a_p (In-structure equipment or component amplification factor) = See Attachment 2 R_p (Equipment or component response modification factor) = See Attachment 2 I_p (Importance factor) = 1.5 z/h (Height factor ratio)= varies Equipment or Component fundamental period(s) = See Attachment 2 Building period limits (if any) = NONE
	Overall dimensions and weight (or range thereof) = See Attachment 1
	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) =1.5Height to Center of Gravity above base =Equipment or Component fundamental period(s) =SecOverall dimensions and weight (or range thereof) =Tank(s) designed in accordance with ASME BPVC, 2007:YesNo
10.0	List of attachments supporting the special seismic certification of equipment or components:
I	Test Report 🗌 Drawings 🗌 Manufacturer's Catalog
	Calculations Others (Please Specify): Attachments 1 & 2
11.0	OSHPD Approval (For Office Use Only)Signature & DateB/6/2012Signature & DateApproval Expiration DateM. R. Karim, SHFR $S_{DS}(g) = $ Z/h = See Section 9.0Z/h = See Section 9.0
	Name & Title Special Seismic Certification Valid Up to Condition of Approval (if any): Special Seismic Certification Valid Up to



TOSHIBA MEDICAL SYSTEMS

SPECIAL SEISMIC CERTIFICATION OF RADIOGRAPHIC IMAGING SYSTEMS

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1: SEISMIC CERTIFIED SYSTEMS:

DESCRIPTION	NOTES
Kalare	Special Seismic Certification is limited to the systems identified in Table 1 and the subsystem components identified in Table 2.

TABLE 2: SEISMIC CERTIFIED COMPONENTS:

SYSTEM MANUFACTURER		a Medical	-							
PRODUCT LINE	Kalare	Kalare System Components								
SYSTEM			MODEL	DI	MENSIONS (I	N.)	MAX. WT.			
COMPONENT	l	MANUF.	NO.	W	D	Н	(LB.)	MOUNTING	BASIS	
Main Processing Un (MPU)	nit	CMT	HDR-08A	7.8	18.9	24.8	43.0	Rigid Base	UUT2	
System Cabinet		TMSC	TA-450F	22.4	15.7	74.8	420	Rigid Base	UUT3	
Vertical Wall Stand		QMI	TW-420-T-D	34	40.75 / 42.625	84.19	415	Wall/Floor	UUT1	
Vertical Wall Stand		QMI	TW-420-T	34	40.75 / 42.625	84.19	415	Wall/Floor	OSP- 0133-10	
Vertical Wall Stand		QMI	TW-420-D	25.19	13.25	84	200	Wall/Floor	INT	
Vertical Wall Stand		QMI	TW-420	27.5	12.75	84	225	Wall/Floor	OSP- 0133-10	
MOUNTING Supp Wall/		ng structure or Mounted: anchoring tl	d (Floor Mounted) and no lateral sup a condition where he unit to an adjac	port above th the unit bear	e base s on, and is a	nchored direc	tly to the suppor	ting floor. In additi	ion, lateral	
NOTES	•	SAME: Mo number, o INT (Interp establisho ANUF (MAN TMSC = T CMT = CM	icates that a test s odel is physically, r color and/or softwa oolate): indicates a ed through evaluat (UFACTURER): Toshib Medical Sys AT Medical Techno antum Medical Ima	nechanically are. model that w ion of testing tems Corpora	& electrically vas not specifi of other, simi	the same as t cally tested, a	est specimen. D and by which seis			

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EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING ATTACHMENT PAGE | 1 OF 2

TOSHIBA MEDICAL SYSTEMS

SPECIAL SEISMIC CERTIFICATION OF RADIOGRAPHIC IMAGING SYSTEMS ATTACHMENT 2: TEST SPECIMEN

UUT-1 Wall Stand

MANUFACTURER:	Quantum Medical Imaging
MODEL:	TW-420-T-D
IDENTIFICATION:	S/N: QW420TD-12D-0401
DESCRIPTION:	Sub-component of Kalare System.
MOUNTING:	Wall/Floor
a _P	1
R _P	1.5



UUT PROPERTIES:

DIMENSIONS (in.)			WEIGHT	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT	(lb.)	X-Axis	Y-Axis	Z-Axis
34	40.75 / 42.625	83.125	383	6.2	8.0	11.8

JUT-2 Main Processing Unit					
MANUFACTURER:	CMT Medical Technologies.				
MODEL:	HDR-08A				
IDENTIFICATION:	P/N: 84MPU02000 S/N: HRM-0635	Le			
DESCRIPTION:	Sub-component of Kalare System.				
MOUNTING:	Floor				
a _P	1				
R _P	2.5				

UUT PROPERTIES:

DIMENSIONS (in.)			WEIGHT	LOWEST RESONANT FREQUENCY (Hz.)			
WIDTH	DEPTH	HEIGHT	(lb.)	X-Axis	Y-Axis	Z-Axis	
7.8	18.9	24.8	43	10.5	21.9	16.7	



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING ATTACHMENT PAGE | 2 OF 2

TOSHIBA MEDICAL SYSTEMS

SPECIAL SEISMIC CERTIFICATION OF RADIOGRAPHIC IMAGING SYSTEMS ATTACHMENT 2: TEST SPECIMEN

UUT-3 System Cabinet	
MANUFACTURER:	Toshiba
MODEL:	TA-450F
IDENTIFICATION:	SN: 1234567890
DESCRIPTION:	Sub-component of Kalare System.
MOUNTING:	Wall/Floor
a _P	2.5
R _P	6.0



UUT PROPERTIES:

I	DIMENSIONS (in.)		WEIGHT	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT	(lb.)	X-Axis	Y-Axis	Z-Axis
22.4	15.7	74.8	418	12.6	20.4	34.5