APPLICATION FOR PREAPPROVAL

SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

	For Office Use Only	
	APPLICATION NO.	Check whether application is: NEW RENEWAL X
	OSP - 0175 - 10	
1.0	KONE	Tony Shelton
	Manufacturer	Manufacturer's Technical Representative
	700 Centr	ral Expressway South, Suite 400, Allen TX 75013
		Mailing Address
	469-854-8800 Ext. 7763	Tony.shelton@kone.com
	Telephone	E-mail Address
2.0	SEE ATTACHMENT 1	ELEVATOR EQUIPMENT
	Product Name	Product Type
		SEE ATTACHEMENT 1
	Product model No (List all	unique product identification numbers and/or serial numbers)
	shall be mounted in a free-standing con	ents for control of traction elevator. Rigid base mounted units dition. The LCE Controller and MLB Drive Modules are d in contract with one another and bolted together in ctions.
3.0	EQUIPMENTANCHORAGE.COI	JONATHAN ROBERSON, S.E.
	Applicant Company Name	Contact Person
	5877 Pin	e Ave, Suite 210, Chino Hills, CA. 91709
		Mailing Address
	(406) 541-EASE (3273)	jon@easeco.com
-	Telephone	E-mail Address
osts	eby agree to reimburse the Office is incurred by the department for re	of Statewide Health Planning and Development for the actual view.
	XX Aug	
	\$ignature of Applicant	March 31, 2011 Date
	1 1	The second secon
	SENIOR ENGINEER	Company Name
	, mo	Company Name

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State of California – Health and Human Services Agency Edmund G. Brown Jr., Governor



"Equitable Healthcare Accessibility for California"

Office of Statewide Health Planning and Development

4.0	Reg	istered Design Professional Preparin EQUIPI	g the Report MENTANCHOR	AGE.COM						
		Company Name								
		Jonathan Roberson, S.E.		S4197						
		Contact Name	California License No	umber						
		5077 Pine Ave,		no Hills, CA. 91709						
		909-606-7622	Mailing Address	jon@easeco.c	om					
		Telephone	<u> </u>	E-mail Address						
5.0		fornia Licensed Structural Engineer R EQUIPI	Review and Acce	ptance of the Report						
		Jonathan Roberson, S.E.	Company Name	S4197						
	587	Contact Name 7 Pine Ave, Suite 210, Chino Hills, C	A. 91709	California License N	lumber					
		909-606-7622	Mailing Address	jon@easeco.c	om_					
		Telephone horage Pre-Approval		E-mail Address						
	\boxtimes	(Separate application for anchorage p Anchorage is not Pre-approved	re-approval is red	quired)						
3	Cert	ification Method								
70.		Testing in accordance with:	⊠ ICC-ES A	C-156	(Please Specify):					
		- 0								
	Ш	Analysis								
		Experience data								
		Combination of Testing, Analysis, and	l/or Experience D	ata (Please Specify):						
	Test	ing Laboratory (if applicable)								
8.0		Environmental Testing Laboratory, I	Inc	Brady Richard						
		Company Name		Contact Name	-KI-100					
			Trail, Dallas, TX							
			Mailing Address							
		972-247-9657		hradv@etIdallas	com					

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) = SEE ATTACHMENT 1 TABLE 3	
	S _{DS} (Spectral response acceleration at short period) = SEE ATTACHMENT 1 TABLE 3	
	a_p (In-structure equipment or component amplification factor) = SEE ATTACHMENT 1 TABLE 3	
	R_p (Equipment or component response modification factor) = SEE ATTACHMENT 1 TABLE 3	
	I_p (Importance factor) = 1.5	
	z/h (Height factor ratio)=1.0	
	Equipment or Component fundamental period(s) = SEE ATTACHMENT 1	
	Building period limits (if any) = NO LIMIT	
	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) =1.5	
	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:	
	☐ Calculations ☐ Others (Please Specify): ATTACHMENTS 1 & 2	
11.0	OSHPD Approval (For Office Use Only)	
-	Signature & Date 10/27/2011 December 31, 2016 Approval Expiration Date	
	Signature & Date Approval Expiration Date M. R. Karim, SHFR S _{DS} (g) = See Section 9.0 z/h =	1.0
-	Name & Title Special Seismic Certification Valid Up to Condition of Approval (if any):	



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APPLICATION FOR PREAPPROVAL

SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1: KONE ELEVATOR DRIVES & CONTROLLERS

			Din	nensions	(in)		HITTE	100
Component	Manuf.	Kone Model No.	Width	Depth	Height	Wt. (lb)	Mount A	UUT
KCM831 LCE Traction Elevator Logic Controller	Kone	KCM831	17	14	89	255.5	Floor	1
V3F25-100 MLB Drive Module	Kone	V3F25-100	31.8	17.7	72	516	Floor	2
LCE Elevator Logic and Drive Controller Cabinet w/ KDM40 Drive Module	Kone	KCM 831	24	14.25	79	320	Floor	B1
LCE Elevator Logic and Drive Controller Cabinet w/ KDM60 Drive Module	Kone	KCM 831	24	14.25	79	< 400	Floor	
LCE Elevator Logic and Drive Controller Cabinet w/ KDM90 Drive Module	Kone	KCM 831	24	14.25	79	400	Floor	B2

Table Notes:

- A) Mount: Establishes the general mounting type(s) under which the tabulated components are seismically certified
 - Floor: a free-standing, floor- mounted condition with the component rigidly attached to a supporting structure and no lateral support above the base.

TABLE 2: KONE ELEVATOR AUTOTRANSFORMERS

	Manuf.		Din	nensions	(in)		Mount ^A	UUT
Component		Kone Model No.	Width	Depth	Height	Wt. (lb)		
10 kVA AutoTransformer	GTi ^B	KM785077G06	13.5	13.5	18.0	56	Floor	
15 kVA AutoTransformer	GTi	KM785077G01	13.5	13.5	18.0	61	Floor	A1
25 kVA AutoTransformer	GTi	KM785077G02	13.5	13.5	18.0	77	Floor	
35 kVA AutoTransformer	GTi	KM785077G03	13.5	13.5	18.0	101	Floor	A2
45 kVA AutoTransformer	GTi	KM785077G04	18.0	16.5	27.5	155	Floor	3, A3

Table Notes:

- A) Mount: Establishes the general mounting type(s) under which the tabulated components are seismically certified
 - Floor: a free-standing, floor- mounted condition with the component rigidly attached to a supporting structure and no
 lateral support above the base.
- B) GTI: Grand Transformer, Inc.
- C) Component features and Subassembly Summary:
 - NEMA or NEC Type 1 or better; carbon steel enclosure
 - Copper winding
 - · Core encapsulation: Open Core and Coil with vacuum impregnated epoxy resin
 - · Ferraz Shawmut Fuseblock with fuses by Bussman or Littlefuse.



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APPLICATION FOR PREAPPROVAL

SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 3: DESIGN BASIS OF EQUIPMENT

UNIT	S _{DS}	z/h	l _P	a _P	R _P	EH	Ev
LCE Elevator Logic and Drive Controller Cabinet w/ KDM Drive Module	1.93	1.0	1.5	2.5	6.0	1.45Wp	0.39Wp
KCM831 LCE Traction Elevator Logic Controller w/ V3F25-100 MLB Drive Module	1.23	1.0	1.5	2.5	6.0	0.93Wp	0.25Wp
GTIi AutoTransformer	2.33	1.0	1.5	1.0	2.5	1.68Wp	0.93Wp



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SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

ATTACHMENT 2: SCHEDULE OF TEST SPECIMENS

UUT 1

Manufacturer:

Kone Elevator, Inc.

Model:

KCM831 LCE Traction Elevator Logic Controller

Identification:

Model KCM831

Serial No.: 20303984

UUT Function:

Traction elevator logic controller

Mounting:

Floor Mounted: a free-standing, base mounted condition with no lateral support above the base and a direct connection between unit base and supporting structure. Floor using (3)-3/8" Hex Cap Screw on an Aluminum Plate 60" x 48 1/2" x 3. Unit is fastened to the adjacent drive cabinet with machine screws spaced along the height of the unit at front and rear edges in accordance with Kone installation instructions.

UUT Properties:

DIMENSIONS (in.)			WEIGHT	LOWEST RESONANT FREQUENCY (Hz.)				
WIDTH	DEPTH	HEIGHT	WEIGHT (lb.) 255.6	F/B	S/S	VERT	OFF-AXIS	
17	14	89	255.6	7.0	23.8	16.0		

UUT 2

Manufacturer:

Kone Elevator, Inc.

Model:

V3F25-100 MLB Drive Module

Identification:

Model V3F25-100 MLB

Serial No.: 103873260

UT Function:

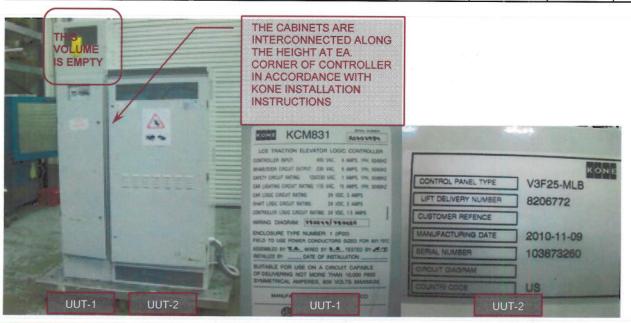
Traction elevator hoist machine drive module

Mounting:

Floor Mounted: a free-standing, base mounted condition with no lateral support above the base and a direct connection between unit base and supporting structure. Floor using (3)-3/8" Hex Cap Screw on an Aluminum Plate 60" x 48 1/2" x 3. Unit is fastened to the adjacent drive cabinet with machine screws spaced along the height of the unit at front and rear edges in accordance with Kone installation instructions.

UUT Properties:

DIMENSIONS (in.)		WEIGHT	LOWEST RESONANT FREQUENCY (Hz.)				
WIDTH	DEPTH	HEIGHT	(lb.)	F/B	S/S	VERT	OFF-AXIS
13.5	13.5	18.0	101	7.0	4.9	26.0	





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APPLICATION FOR PREAPPROVAL

SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

ATTACHMENT 2: SCHEDULE OF TEST SPECIMENS

UUT 3

Manufacturer:

Grand Transformers, Inc. (GTi)

Model:

45 kVA Three-phase Autotransformer

Identification:

Part No.: GT-F812E

Model No.: C3A-09000-10

Serial No.: KM785077G04 (Kone Model No.)

UUT Function:

Autotransformer for support of Kone Elevator's equipment

Description:

Enclosure: NEMA Type 1 Painted carbon steel

Copper windings

Core encapsulation: Open Core & Coil with vacuum impregnated Ripley 468-2 epoxy resin coating

Fuseblock mfg: Ferraz Shawmut

Fuses: Bussman

Mounting:

Floor Mounted: a free-standing, base mounted condition with no lateral support above the base and a direct connection

between unit base and supporting structure

UUT Properties:

DIMENSIONS (in.)			WEIGHT	LOWEST RESONANT FREQUENCY (Hz.)				
WIDTH	DEPTH	HEIGHT	(lb.)	F/B	ST RESONAN S/S 45.8	VERT	OFF-AXIS	
18.0	16.5	27.5	155	47.7	45.8	17.4	17.7	



THREE PHASE AUTOTRANSFORMER

SERIAL NO: KM785077G04 PN: GT-F812E

MODEL NO: C3A-09000-10 WEIGHT: 125#

KVA: 45 HZ: 60 PH: 3 %IZ: 0.7 SF: 1.0

TEMP RISE: 130°C @ 40°C AMB INS: CLASS N-1

PRI: 460480/500V WYE AT 59 AMPS

SEC: 400V WYE AT 65 AMPS

ROTE: SEE WIRPNO DIAGRAM ON INSIDE OF COVER

WARRINGO INSIDE NOUNTING ON OR OVER A COMBUSTINGE A BURNACE A GRANNINGE OF THE CONTROL OF THE CASE THE CONTROL OF THE CONTROL O



Serial No.: KM785077G03 (Kone Model No.)



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ATTACHMENT 2: SCHEDULE OF TEST SPECIMENS

UUT A1

Manufacturer: Grand Transformers, Inc. (GTi)

Model: 15 kVA Three-phase Autotransformer

Identification: Part No.: GT-F809E Serial No.: KM785077G01 (Kone Model No.)

Model No.: C3A-02500-10 **UUT Function:**

Autotransformer for support of Kone Elevator's equipment

Description: Enclosure: NEMA Type 1 Painted carbon steel Copper windings

Core encapsulation: Open Core & Coil with vacuum impregnated Ripley 468-2 epoxy resin coating

Fuseblock mfg: Ferraz Shawmut

Fuses: Bussman

Mounting: Floor Mounted: a free-standing, base mounted condition with no lateral support above the base and a direct

connection between unit base and supporting structure

UUT Properties:

DI	MENSIONS (in.)		WEIGHT	LOWE	ST RESONAN	ESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT	(lb.)	F/B	S/S	VERT	OFF-AXIS	
13.5	13.5	18.0	61	31	17.9	20.5	20.5	

UUT A2

Identification:

Manufacturer: Grand Transformers, Inc. (GTi)

Model: 35 kVA Three-phase Autotransformer

Part No.: GT-F811E

Model No.: C3A-05600-10

UUT Function: Autotransformer for support of Kone Elevator's equipment

Description: Enclosure: NEMA Type 1 Painted carbon steel

Copper windings

Core encapsulation: Open Core & Coil with vacuum impregnated Ripley 468-2 epoxy resin coating

Fuseblock mfg: Ferraz Shawmut

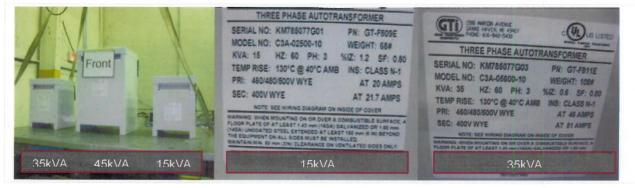
Fuses: Bussman

Mounting: Floor Mounted: a free-standing, base mounted condition with no lateral support above the base and a direct

connection between unit base and supporting structure

UUT Properties:

DI	MENSIONS (in.)		WEIGHT	LOWEST RESONANT FREQUENCY (Hz.)				
WIDTH	DEPTH	HEIGHT	(lb.)	F/B	S/S	VERT	OFF-AXIS	
13.5	13.5	18.0	101	47.1	N/A	39.6	30.0	





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ATTACHMENT 2: SCHEDULE OF TEST SPECIMENS

UUT A3

Manufacturer:

Grand Transformers, Inc. (GTi)

Model:

45 kVA Three-phase Autotransformer

Identification:

Part No.: GT-F812E

Model No.: C3A-09000-10

Serial No.: KM785077G04 (Kone Model No.)

UUT Function:

Autotransformer for support of Kone Elevator's equipment

Description:

Enclosure: NEMA Type 1 Painted carbon steel

Copper windings

Core encapsulation: Open Core & Coil with vacuum impregnated Ripley 468-2 epoxy resin coating

Fuseblock mfg: Ferraz Shawmut

Fuses: Bussman

Mounting:

Floor Mounted: a free-standing, base mounted condition with no lateral support above the base and a direct

connection between unit base and supporting structure

UUT Properties:

DIMENSIONS (in.)		WEIGHT	LOWEST RESONANT FREQUENCY (Hz.)				
WIDTH	DEPTH	HEIGHT	(lb.)	F/B	S/S	VERT	OFF-AXIS
18.0	16.5	27.5	155	47.7	45.8	17.4	17.7







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ATTACHMENT 2: SCHEDULE OF TEST SPECIMENS

UUT B1 LCE Elevator Logic Controller w/ KDM40 Drive Module

MANUFACTURER:

Kone

MODEL:

KCM831 w/ 40A Drive

FUNCTION:

The traction elevator logic controller is the combined elevator logic controller and hoisting machine drive

DESCRIPTION:

Intercom phone: EL V, Terraneo 603R; LCE option boards, including LCEEAQ earthquake board (seismic switch and cwt derail inputs); Electric Brake Release Switch Module; Switch Module: Controller Inspection/Bypass; LCECPU Module: Controller Main Processor; LCEADON Module: Hoistway Interface and Safety String Circuit; Grounding Kit/Earthing Rail; Terminal Assembly; KDA Module; LCE Power Module; Control Transfomer; Terminal Blocks; 40A Drive Module

MOUNTING:

Floor Mounted: a free-standing, base mounted condition with no lateral support above the base and a direct

connection between unit base and supporting structure

UUT PROPERTIES:

DIMENSIONS (in.)			WEIGHT	LOWEST RESONANT FREQUENCY (Hz.)			
WIDTH	DEPTH	HEIGHT	(lb.)	X-Axis	Y-Axis	Z-Axis	
24	14.25	79	320	5.1	5.1	13.7	



KDM90

UUT B2 LCE Elevator Logic Controller w/ KDM90 Drive Module

MANUFACTURER:

Kone

MODEL:

KCM831 w/ 90A Drive

FUNCTION:

The traction elevator logic controller is the combined elevator logic controller and hoisting machine drive

DESCRIPTION:

Intercom phone: EL V, Terraneo 603R; LCE option boards, including LCEEAQ earthquake board (seismic switch and cwt derail inputs); Electric Brake Release Switch Module; Switch Module: Controller Inspection/Bypass; LCECPU Module: Controller Main Processor; LCEADON Module: Hoistway Interface and Safety String Circuit; Grounding Kit/Earthing Rail; Terminal Assembly: KDA Module: LCE Boyer Module: Controller Transferrer: Terminal Blocks: 904 Drive Module

Terminal Assembly; KDA Module; LCE Power Module; Control Transfomer; Terminal Blocks; 90A Drive Module

MOUNTING:

Floor Mounted: a free-standing, base mounted condition with no lateral support above the base and a direct

connection between unit base and supporting structure

UUT PROPERTIES:

DIMENSIONS (in.)			WEIGHT	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT	(lb.)	X-Axis	Y-Axis	Z-Axis
24	14.25	79	400	4.7	5.3	36.3