



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT  
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR OSHPD SPECIAL SEISMIC  
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: **OSP – 0402 – 10**

**OSHPD Special Seismic Certification Preapproval (OSP)**

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: **KONE**

Manufacturer's Technical Representative: Jorge Torres

Mailing Address: 450 Century Parkway, Allen, Texas 75013

Telephone: ON FILE

Email: ON FILE

**Product Information**

Product Name: **LCE Traction Elevator Transformers**

Product Type: Elevator Controls

Product Model Number: See Attachment 1

(List all unique product identification numbers and/or part numbers)

General Description: Electronic motion control system for the operation of people-moving elevators.

Mounting Description: Rigid Base mount.

**Applicant Information**

Applicant Company Name: **EASE LLC**


Contact Person: Jonathan Roberson, S.E.

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

Telephone: (909) 606-7622

Email: [j.roberson@easeco.com](mailto:j.roberson@easeco.com)

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

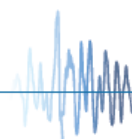
Signature of Applicant: 

Date: 5/29/2019

Title: Principal Structural Engineer

Company Name: **EASE LLC**

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





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**California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)**

Company Name: EASE LLC

Name: Jonathan Roberson, S.E. California License Number: S4197

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

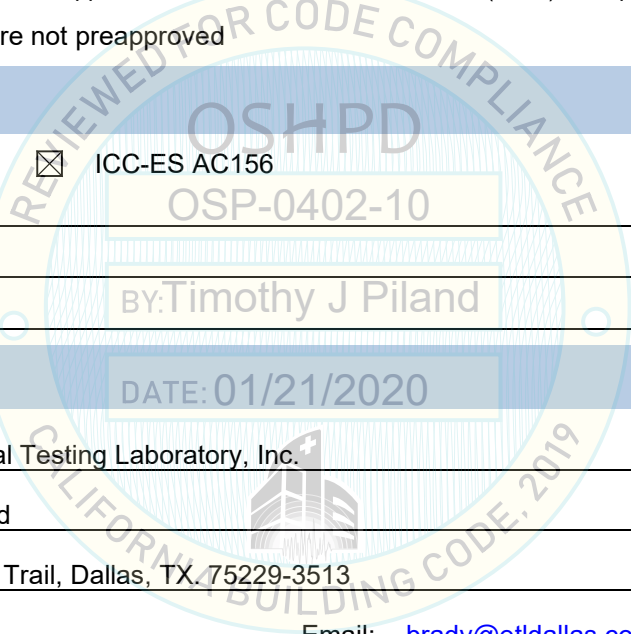
Telephone: (909) 606-7622 Email: [j.roberson@easeco.com](mailto:j.roberson@easeco.com)

**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): \_\_\_\_\_



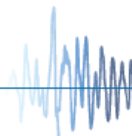
**Testing Laboratory**

Company Name: Environmental Testing Laboratory, Inc.

Contact Name: Brady Richard

Mailing Address: 11034 Indian Trail, Dallas, TX. 75229-3513

Telephone: (972) 247-9657 Email: [brady@etldallas.com](mailto:brady@etldallas.com)





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**Seismic Parameters**

Design in accordance with ASCE 7-10 Chapter 13:  Yes  No

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.44

$S_{DS}$  (Design spectral response acceleration at short period, g) = 2.00

$a_p$  (In-structure equipment or component amplification factor) = 1

$R_p$  (Equipment or component response modification factor) = 2½

$\Omega_0$  (System overstrength factor) = 2

$I_p$  (Importance factor) = 1.5

$z/h$  (Height factor ratio) = 1

Equipment or Component Natural Frequencies (Hz) = See Attachment 2

Overall dimensions and weight (or range thereof) = See Attachment 1, Table 1

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) = \_\_\_\_\_

$\Omega_0$  (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): Attachments 1 & 2

**OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025**

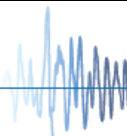
Signature:  Date: February 21, 2020

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to:  $S_{DS}$  (g) = 2.00  $z/h$  = 1

Condition of Approval (if applicable): \_\_\_\_\_

\_\_\_\_\_



**ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**

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**TABLE 1: SEISMIC CERTIFIED COMPONENTS**

Manufacturer	<b>KONE</b>							
Product Line	<b>Main Line Transformers</b>							
COMPONENT	MANUF.	MODEL NO.	DIMENSIONS (IN.)			APPROX. WT. (LB.)	MOUNT	BASIS
			W	D	H			
<b>55 KVA Transformer 200V - 240V</b>	Nova Magnetics	<b>KM785076G05</b>	<b>17.3</b>	<b>16.0</b>	<b>27.4</b>	<b>281</b>	Floor	UUT5
55 KVA Transformer 440V - 500V	Nova Magnetics	KM785077G05	18.0	16.5	27.5	175	Floor	INT
55 KVA Transformer 575V - 600V	Nova Magnetics	KM785078G05	18.0	16.5	27.5	230	Floor	INT
45 KVA Transformer 200V - 240V	Nova Magnetics	KM785076G04	18.0	16.5	27.5	229	Floor	INT
45 KVA Transformer 440V - 500V	Nova Magnetics	KM785077G04	18.0	16.5	27.5	155	Floor	INT
45 KVA Transformer 575V - 600V	Nova Magnetics	KM785078G04	18.0	16.5	27.5	205	Floor	INT
35 KVA Transformer 200V - 240V	Nova Magnetics	KM785076G03	18.0	14.5	26.0	175	Floor	INT
35 KVA Transformer 440V - 500V	Nova Magnetics	KM785077G03	13.5	13.5	18.0	101	Floor	INT
35 KVA Transformer 575V - 600V	Nova Magnetics	KM785078G03	18.0	14.5	26.0	150	Floor	INT
25 KVA Transformer 200V - 240V	Nova Magnetics	KM785076G02	18.0	14.5	26.0	145	Floor	INT
25 KVA Transformer 440V - 500V	Nova Magnetics	KM785077G02	13.5	13.5	18.0	77	Floor	INT
25 KVA Transformer 575V - 600V	Nova Magnetics	KM785078G02	13.5	13.5	18.0	107	Floor	INT
15 KVA Transformer 200V - 240V	Nova Magnetics	KM785076G01	13.5	13.5	18.0	105	Floor	INT
15 KVA Transformer 440V - 500V	Nova Magnetics	KM785077G01	13.5	13.5	18.0	61	Floor	INT
15 KVA Transformer 575V - 600V	Nova Magnetics	KM785078G01	13.5	13.5	18.0	85	Floor	INT
10 KVA Transformer 200V - 240V	Nova Magnetics	KM785076G06	13.5	13.5	18.0	95	Floor	INT
<b>10 KVA Transformer 440V - 500V</b>	Nova Magnetics	<b>KM785077G06</b>	<b>12.8</b>	<b>13.0</b>	<b>18.0</b>	<b>66</b>	Floor	UUT6
10 KVA Transformer 575V - 600V	Nova Magnetics	KM785078G06	13.5	13.5	18.0	66	Floor	INT
Mount	Floor (Rigid Base): free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base.							
Notes	1. BASIS: <ul style="list-style-type: none"> <li>• UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program.</li> <li>• INT (Interpolate/Extrapolate): indicates a model that was not specifically tested, and by which seismic certification is established through evaluation of testing of other, similar models in the product line</li> </ul>							

**ATTACHMENT 2: TEST SPECIMEN SUMMARY**

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<b>UUT- 5      55kVa Transformer</b>									
<b>MANUFACTURER:</b>		Nova Magnetics							
<b>IDENTIFICATION:</b>		Model No.: KM785076G05							
<b>DESCRIPTION:</b>		Component of the LCE Elevator Control System							
<b>MOUNTING:</b>		Floor mounted using (4) – 1/2" dia GR 8 hex head bolts							
<b>PROPERTIES:</b>									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front-Axis	Side-Axis	Vertical-Axis		
17.25	16	27.375	281		12.2	17.6	46.9		
<b>SHAKE TABLE TEST PARAMETERS</b>									
CODE	TEST CRITERIA	S <sub>DS</sub>	z/h	I <sub>P</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>	
CBC 2016	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.34	0.54	
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test									



<b>UUT- 6      10kVa autotransformer</b>									
<b>MANUFACTURER:</b>		Nova Magnetics							
<b>IDENTIFICATION:</b>		Model No.: KM785077G06							
<b>DESCRIPTION:</b>		Component of the LCE Elevator Control System							
<b>MOUNTING:</b>		Floor mounted using (4) – 1/2" dia GR 8 hex head bolts							
<b>PROPERTIES:</b>									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Side -Axis	Front-Axis	Vertical-Axis		
12.75	13	18	66		26.6	19.3	38.8		
<b>SHAKE TABLE TEST PARAMETERS</b>									
CODE	TEST CRITERIA	S <sub>DS</sub>	z/h	I <sub>P</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>	
CBC 2016	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.34	0.54	
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test									

