

# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0476
HCAI Special Seismic Certification Preapproval (OSP)	
Type: New X Renewal	
Manufacturer Information	
Manufacturer: Getinge Disinfection	
Manufacturer's Technical Representative: Richard Fransson	
Mailing Address: Ljungadalsgatan 11, Växjö, Småland 352 56	
Telephone: Email: richard.fransson	@getinge.com
Product Information	MD.
Product Name: Transformers	1 Contraction of the second se
Product Type: Transformers – Dry Type	
Product Model Number: 9100&GEW	- m
General Description: Powder coated carbon steel frame with Galvanized	Carbon Steel enclosure, transformer and switch.
Mounting Description: Rigid, Floor Mounted	
Tested Seismic Enhancements: None DATE: 05/11/2022	6
	0
Applicant Information	4
Applicant Company Name: Dynamic Certification Laboratories, LLC	
Contact Person: Kelly Laplace	
Mailing Address: 1315 Greg Street, Suite 109, Sparks, NV 89431	
Telephone: (775) 358-5085 Email: Kelly@shaketest	com
Title: Business Manager	





# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Respo	nsible for the Engineering and Test Report(s)
Company Name: THE VMC GROUP	
Name: Kenneth Tarlow	California License Number: S2851
Mailing Address: 980 9th Street, 16th Floor, Sacramer	nto, CA 95814
Telephone: (832) 627-2214 Em	ail: ken.tarlow@thevmcgroup.com
Certification Method	
GR-63-Core X ICC-ES AC156	☐ IEEE 344
Other (Please Specify):	
EC	RCODECO
Testing Laboratory	Mp.
Company Name: DYNAMIC CERTIFICATION LABOR	ATORY (DCL)
Contact Person: Kelly Laplace	2000 0476
Mailing Address: 1315 Greg St., Ste 109, Sparks NV 8	05P-0476
Telephone: (775) 358-5085	ail: Kelly@shaketest.com
DATI	: 05/11/2022
PILIA	
DATI	BUILDING

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

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### Seismic Parameters

Design Basis of Equipment or Components	s (Fp/Wp) = <u>1.80</u>		
SDS (Design spectral response accel	eration at short period, g) = $2.5$		
ap (Amplification factor) =	1.0		
Rp (Response modification factor) =	2.5		
$\Omega_0$ (System overstrength factor) =	2.0		
lp (Importance factor) =	1.5		
z/h (Height ratio factor) =	1		
Natural frequencies (Hz) =	See Attachment		
Overall dimensions and weight =	See Attachment		
	DE		
HCAI Approval (For Office Use Only)-	Approval Expires on 05/11/2028	TZ I	
Date: 5/11/2022	OSP-0476	G	
Name: Mohammad Karim		Title:	Supervisor, Health Facilities
Special Seismic Certification Valid Up to: Si	bs (g) = 2.5	z/h =	1
Condition of Approval (if applicable):	DATE: 05/11/2022	δ	
	PRIVIA BUILDING COD	102	

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

## Special Seismic Certification Table 1 - Certified Components - Transformer



DCL Project Number:	83236-2201 LABORATORIES,LLC						
Manufacturer:	Getinge						
Product Line:	Transformer						
Mounting Configuration:	Rigid Base Mount						
Test Levels:	S <sub>DS</sub> = 2.50g, z/h=1.0						
	OR CODE	Max.	Dimensio	ns (in)	Max.		
Model Number	Manufacturer	Depth	Width	Height	Weight (lb.)	Unit	
9100&GEW	Getinge	13.8	19.4	48.5	211	UUT-01	



Special Seismic Certification Table 2 - Certified Subcomponents - Frame									
DCL Project Number:	83236-2201				c	ERTIFI	CATION		
Certified seismic level :	S <sub>DS</sub> = 2.50g, z/h=1.0	Frame							
Model	Manufacturer	Description	Material		ension: Width	s (in) Height	Unit		
Custom Weld Assembly (501972500)	Tarmetec	Support Structure for Transformer	Powder Coated Carbon Steel (1312)	13.8	17.6	48.8	UUT-01		
Special Seismic Table 3 - Certifie	Certification ed Subcompone	OSP-0476 nts - Enclosure	ALCE:						
PCL Project Number:	83236-2201	O BY: Mohammad Kari							
Certified seismic level :	S <sub>DS</sub> = 2.50g, z/h=1.0	Enclosure							
Model	Manufacturer	Description	Material		ension Width		Unit		
TPK/6000	Transformator Teknik	V/Enclosure BUILDING	Galvanized Carbon Steel	9.4	12.9	20.5	UUT-01		

## Special Seismic Certification Table 4 - Certified Subcomponents - Transformer



DCL Project Number:	83236-2201		LABORA	ATORIES,LLC
Certified seismic level :	S <sub>DS</sub> = 2.50g, z/h=1.0			
		Transformer		
Model	Manufacturer	Description	Material	Unit
DT 15834-1 15/44	Dantrafo A/S	Transformer	Iron Core with Copper Winding	UUT-01
				-

BY: Mohammad Karim	0	
DATE: 05/14/2022		
Description	Material	Unit
Switch	Polyamide/ABS	UUT-01
	Description	Description Material

## Special Seismic Certification Table 6 - Tested Units



# UUT-01 UNIT UNDER TEST (UUT) Summary Sheet



### **DCL Project Number:**

83236-2201

Manufacturer: Getinge

Product Line: Transformer

Model Number: 9100&GEW

Product Construction Summary:

Powder coated carbon steel frame with galvanized carbon steel enclosure

#### *Options / Component Summary:*

Frame, enclosure, transformer, and switch

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

		EV	UU	T Propert	ies	), C			
Operating Weight Dimensions (inches)				Lowest	Natural Freque	ency (Hz)			
(lb)	Depth	Wic	lth		leight	Front-Back	Side-Side	Vertical	
211	13.844	19	40S	DSP-04785		11.5	14.5	22.0	
	Seismic Test Parameters								
Building Code	Test <mark>Criteria</mark>	Sds (g)	z/h	lp	Aflx-H (g)	Ari <mark>g-H (g)</mark>	Aflx-V (g)	Arig-V (g)	
CBC 2019	ICC-E <mark>S AC15</mark> 6	2.50	1.0	1.5	4.00	3.00	1.67	0.67	

### Unit Mounting Description:

The unit was rigidly attached to the shake table interface plate with (4) 1/2" diameter Grade 5 bolts, with (2) bolts on each side, spaced 10 1/4" apart. The transformer was bolted to the custom welded frame assembly using (4) 3/8" Grade 5 bolts spaced 16 3/4" inches apart vertically and 9 7/8" horizontally.



Overall view of UUT-01