



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

APPLICATION FOR HCAI SPECIAL SEISMIC  
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0874

HCAI Special Seismic Certification Preapproval (OSP)

Type:  New  Renewal

Manufacturer Information

Manufacturer: Rehiko

Manufacturer's Technical Representative: Brady Eifrid

Mailing Address: 200 Twin Oaks Road, Kohler, WI 53044

Telephone: (920) 226-8729

Email: brady.eifrid@rehiko.com

Product Information

Product Name: Rehiko KD Series Diesel Generators

Product Model Number(s): KD80 to KD300

Product Category: Emergency and Standby Power Systems

Product Sub-Category: Generators

General Description: Rehiko diesel generators 80kW to 300kW nominal capacity with fuel tank and aluminum or steel enclosure options.

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: PRE COMPLIANCE

Contact Person: Andrew Coughlin

Mailing Address: 324 NW Hill St, Bend, OR 97703

Telephone: (541) 241-2310

Email: Andy@go-pre.com

Title: Principal Engineer



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
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**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: 324 NW Hill St, Bend, OR 97703

Telephone: (415) 635-8461 Email: Andy@go-pre.com

**Certification Method**

- GR-63-Core
- ICC-ES AC156
- IEEE 344
- IEEE 693
- NEBS 3
- Other (Please Specify): \_\_\_\_\_

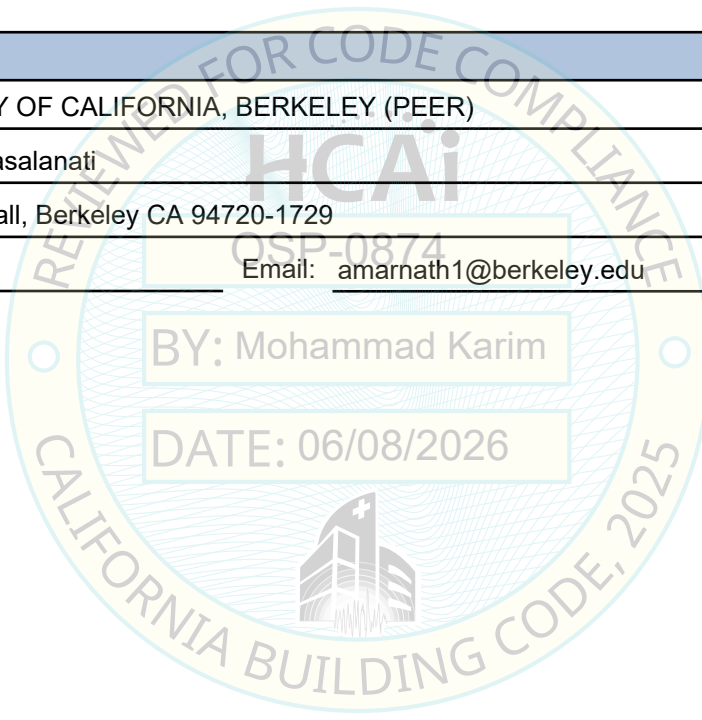
**Testing Laboratory**

Company Name: UNIVERSITY OF CALIFORNIA, BERKELEY (PEER)

Contact Person: Amarnath Kasalanati

Mailing Address: 325 Davis Hall, Berkeley CA 94720-1729

Telephone: (510) 642-3437 Email: amarnath1@berkeley.edu





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**Seismic Parameters**

Certified Response Spectral Acceleration Factors:(Fp/Wp)

Horizontal (A Flx-H), g= 3.20 (A Rig-H), g= 2.15  
 Vertical (A Flx-V), g= 1.34 (A Rig-V), g= 0.54

SDS (Design spectral response acceleration at short period, g) = 2.0 @ z/h = 0; 2.0 @ z/h = 1

Hf (Force amplification height factor) = 1.0 @ z/h = 0; 3.5 @ z/h = 1

Ru (Structure ductility reduction factor) = 1.0 @ z/h = 0; 1.3 @ z/h = 1

Ip (Importance factor) = 1.5

z/h (Height ratio factor) = 0 and 1

**HCAI Approval (For Office Use Only) - Approval Expires on 06/08/2032**

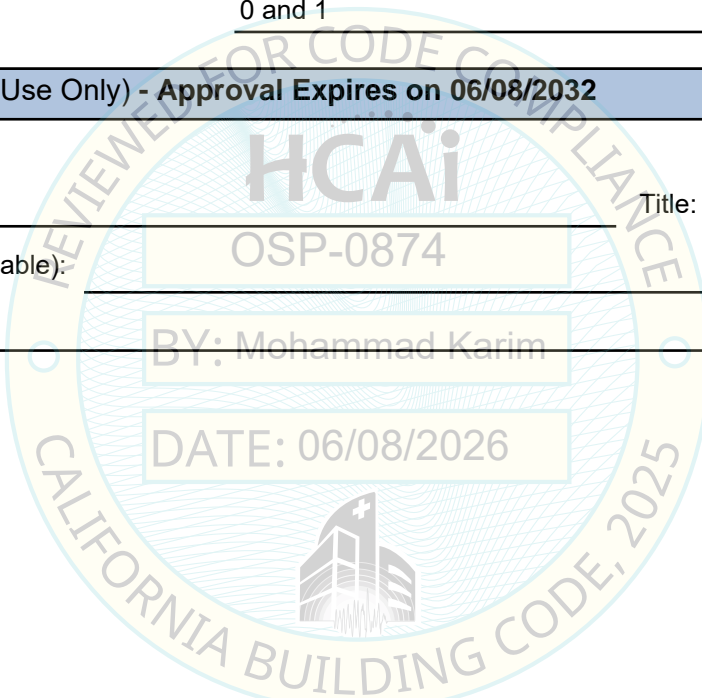
Date: 6/8/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

Condition of Approval (if applicable): OSP-0874

BY: Mohammad Karim

DATE: 06/08/2026





# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Pre No. CC241590-01-R3

**Manufacturer:** Rehlko  
**Product Type:** Generators  
**Model Line:** KD80-KD300 Diesel Generators

Seismic Parameters	Building Codes
$S_{DS} = 2.00g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$ $S_{DS} = 2.00g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$	$I_p=1.5$ <b>CBC 2025</b>

## TABLE 1 Mounting Configuration: Base Mounted - Rigid

**Construction Summary**  
 Carbon Steel Tank and Base with Carbon Steel Frame and Carbon Steel or Aluminum Enclosures

**Options Summary**  
 Open or enclosed; option to mount to fuel tank

Model Line	Model	Max. Dimensions (in) <sup>1</sup>			Wt. (lb) <sup>2</sup>	Notes	UUT
		D	W	H			
KD Series Diesel Generators	KD80	245.3	68.5	105.6	14550		Extrap.
	KD100	245.3	68.5	105.6	14661		Extrap.
	KD130	245.3	68.5	105.6	14881	UUT: 79.5" height w/o enclosure	1
	KD150	196.9	71.3	115.1	19842		Interp.
	KD180	196.9	71.3	115.1	19952		Interp.
	KD200	196.9	71.3	115.1	19952		Interp.
	KD230	287	74.8	120.3	27337		Interp.
	KD250	287	74.8	120.3	27337		Interp.
	KD275	287	74.8	120.3	27668		Interp.
	KD300	287	74.8	120.3	27310	UUT: Alum. enclosure	2b
287		74.8	120.3	27750	UUT: Steel enclosure	2a	

Notes:  
<sup>1</sup>Dimensions include largest tank.  
<sup>2</sup>Weight is maximum operating weight and includes open genset, heaviest enclosure, heaviest tank, and tank filled to 100% full diesel. Diesel is assumed to have 0.85 specific gravity. UUT test weights are listed.



**Manufacturer:** Rehlko  
**Product Type:** Generators  
**Model Line:** KD80-KD300 Diesel Generators

Seismic Parameters	Building Codes
$S_{DS} = 2.00g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$ $S_{DS} = 2.00g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$	$I_p=1.5$ <b>CBC 2025</b>

**TABLE 3** Table Description: Alternators

Component (Manufacturer)	Model	Dimensions (in)			Wt. (lb)	Notes	UUT
		D	W	H			
Alternators (Rehlko)	KH00685TO4D	32.5	18.2	29.4	768	Used in Genset Model: KD80	Extrap.
	KH00902TO4D	32.5	18.2	29.4	768	Used in Genset Model: KD80	Extrap.
	KH00902MO4D	32.5	18.2	29.4	768	Used in Genset Model: KD80	Extrap.
	KH01025TO4D	34.1	18.2	29.4	814	Used in Genset Model: KD100	Extrap.
	KH01025MO4D	34.1	18.2	29.4	814	Used in Genset Model: KD100	Extrap.
	KH01061TO4D	34.1	18.2	29.4	854	Used in Genset Model: KD130	Extrap.
	KH01201TO4D	36.3	18.2	29.4	931	Used in Genset Model: KD130	1
	KH01201MO4D	36.3	18.2	29.4	931	Used in Genset Model: KD130	Interp.
	KH01281TO4D	36.3	18.2	29.4	968	Used in Genset Models: KD80, KD100, KD130	Interp.
	KH00932TO4D	37.0	23.7	32.4	1155	Used in Genset Model: KD150	Interp.
	KH01183MO4D	39.8	23.7	23.6	1320	Used in Genset Model: KD150	Interp.
	KH01183TO4D	39.8	23.7	32.4	1320	Used in Genset Models: KD180, KD200	Interp.
	KH01382MO4D	39.8	23.7	32.4	1437	Used in Genset Models: KD180	Interp.
	KH01722TO4D	46.5	23.7	32.4	1696	Used in Genset Models: KD230, KD250	Interp.
	KH01722MO4D	46.5	23.7	32.4	1696	Used in Genset Models: KD230, KD250	Interp.
	KH02216MO4D	46.5	23.7	32.4	1969	Used in Genset Models: KD250	Interp.
	KH02216TO4D	46.5	23.7	32.4	1969	Used in Genset Models: KD275, KD300	2





















## UUT 1

Test Report# TR241590-01-R2

**Manufacturer:** Rehlko  
**Model Line:** KD80-KD300 Diesel Generators  
**Model Number:** KD130  
**Serial Number:** N/A

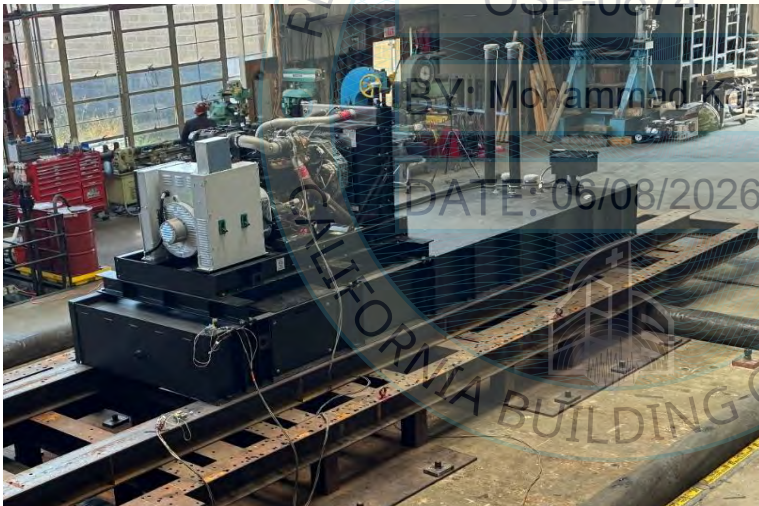
Highest Passed Test Level								
S <sub>DS</sub>	z/h	R <sub>μ</sub>	H <sub>f</sub>	I <sub>p</sub>	A <sub>flx-h</sub>	A <sub>rig-h</sub>	A <sub>flx-v</sub>	A <sub>rig-v</sub>
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
245	68.5	79.5	14881

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
4.1	5.5	10.6

Building Codes	Test Criteria	Construction/Option Summary
CBC 2025	ICC-ES AC156-24	Open construction mounted on 3218L fuel tank without enclosure, filled with 935 gallons of water.

### UUT Mounting Details:



This unit was mounted to an I-beam test fixture with (10) 7/8" Grade 8 hex head bolts with Rehlko GM78642 plate washers.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

### List of Included Subcomponents

Description (Manufacturer)	Model Number	Wt. (lbs.)
Engine (Rehlko)	KD05L04T	890.8
Alternator (Rehlko)	KH01201TO4D	932.7
UL 142 Rated Tank (Rehlko)	3218 Liter	4763
Engine Heater (Hotstart)	TPS 1500W	1.8
Air Filter (Donaldson)	10801008501	11

Also B15315 Radiator (Hongsheng), APM603 Controller (Rehlko), GM58956-KA# Shutoff Valve (Rehlko), 10504826400-TA# High Fuel Switch and Alarm Fuel Tank Panel (Rehlko), GM85356-KA# Normal Vent (Rehlko), 6100-09 Spill Containment (Clay & Bailey), GM87448 Battery Charger (Navico), 10201143901-KA1 PMG Exciter (Mecc Alte), L-Frame Breaker (Schneider), 11600006101 12V Battery (Crown), Emergency Vent (Clay & Bailey), 11301027108 Skid (Rehlko)

## UUT 2a

Test Report# TR241590-01-R2

**Manufacturer:** Rehlko  
**Model Line:** KD80-KD300 Diesel Generators  
**Model Number:** KD300 in Steel Sound Enclosure  
**Serial Number:** N/A

Highest Passed Test Level								
S <sub>DS</sub>	z/h	R <sub>μ</sub>	H <sub>f</sub>	I <sub>p</sub>	A <sub>flx-h</sub>	A <sub>rig-h</sub>	A <sub>flx-v</sub>	A <sub>rig-v</sub>
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
287	74.8	120.3	27750

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
4.5	6.9	9.1

**Building Codes**  
CBC 2025

**Test Criteria**  
ICC-ES AC156-24

**Construction/Option Summary**  
Mounted on 7117L fuel tank with steel sound enclosure, filled with 1672 gallons of water.

### UUT Mounting Details:



This unit was mounted to an I-beam test fixture with (20) 7/8" Grade 8 hex head bolts with Rehlko GM78642 plate washers.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

### List of Included Subcomponents

Description (Manufacturer)	Model Number	Wt. (lbs.)
Engine (Rehlko)	KD09L06T	1627
Alternator (Rehlko)	KH02216T04D	1973
UL 142 Rated Tank (Rehlko)	7117 Liter	7541
Steel Sound Enclosure (Rehlko)	11401135547-KA1	1367
Engine Heater (Hotstart)	CB 4000W	6.6
Engine Heater (PTI)	Zerostart Tank Heater 2250W	4.0
Filter (Donaldson)	10801009901	19.8

Also B15317 Radiator (Hongsheng), APM603 Controller (Rehlko), GM85356-KA# Normal Vent (Rehlko), 6100-09 Spill Containment (Clay & Bailey), GM87448 Battery Charger (Navico), 10201143901-KA2 PMG Exciter (Mecc Alte), APM603 Controller (Rehlko), GM58956-KA# Shutoff Valve (Rehlko), L-Frame Breaker (Schneider), 11600006101 12V Battery (Crown), 11600006201 24V Battery (Crown), Emergency Vent (Clay & Bailey), 11301027308 Skid (Rehlko), 10504826400-TA# Alarm Fuel Tank Panel and High Fuel Switch.

## UUT 2b

Test Report# TR241590-01-R2

**Manufacturer:** Rehlko  
**Model Line:** KD80-KD300 Diesel Generators  
**Model Number:** KD300 in Alum. Sound Enclosure  
**Serial Number:** N/A

Highest Passed Test Level								
S <sub>DS</sub>	z/h	R <sub>μ</sub>	H <sub>f</sub>	I <sub>p</sub>	A <sub>flx-h</sub>	A <sub>rig-h</sub>	A <sub>flx-v</sub>	A <sub>rig-v</sub>
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
287	74.8	120.3	27310

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
3.5	6.4	7.9

Building Codes	Test Criteria	Construction/Option Summary
CBC 2025	ICC-ES AC156-24	Mounted on 7117L fuel tank with aluminum sound enclosure, filled with 1672 gallons of water.

### UUT Mounting Details:



This unit was mounted to an I-beam test fixture with (20) 7/8" Grade 8 hex head bolts with Rehlko GM78642 plate washers.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

### List of Included Subcomponents

Description (Manufacturer)	Model Number	Wt. (lbs.)
Engine (Rehlko)	KD09L06T	1627
Alternator (Rehlko)	KH02216T04D	1973
UL 142 Rated Tank (Rehlko)	7117 Liter	7541
Aluminum Sound Enclosure (Rehlko)	11401141147-KA1	926
Engine Heater (Hotstart)	CB 4000W	6.6
Engine Heater (PTI)	Zerostart Tank Heater 2250W	4.0
Filter (Donaldson)	10801009901	19.8

Also B15317 Radiator (Hongsheng), APM603 Controller (Rehlko), GM85356-KA# Normal Vent (Rehlko), 6100-09 Spill Containment (Clay & Bailey), GM87448 Battery Charger (Navico), 10201143901-KA2 PMG Exciter (Mecc Alte), APM603 Controller (Rehlko), GM58956-KA# Shutoff Valve (Rehlko), L-Frame Breaker (Schneider), 11600006101 12V Battery (Crown), 11600006201 24V Battery (Crown), Emergency Vent (Clay & Bailey), 11301027308 Skid (Rehlko), 10504826400-TA# Alarm Fuel Tank Panel and High Fuel Switch.