



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-0872

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: Generac Industrial Energy

Manufacturer's Technical Representative: Richard Ansley

Mailing Address: S45W29290 Highway 59, Waukesha, WI 53189

Telephone: (262) 544-4811 Email: Richard.Ansley@generac.com

Product Information

Product Name: Generac Diesel Generator Units (35kW - 350kW)

Product Model Number(s): SD35 through SD350

Product Category: Emergency and Standby Power Systems

Product Sub-Category: Generators

General Description: This is a product line of generator set that range 35kW to 350 kw output, with or without enclosures or fuel tanks (ranging from 54 gal to 2756 gal. It is rigidly mounted to the base and this particular certification will include aluminum radiator systems.

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: Buehler Engineering, Inc.

Contact Person: Brandon Horton

Mailing Address: 1230 West Washington Street, Suite 114, Tempe, AZ 85288

Telephone: (602) 225-1575 Email: bhorton@buehlerengineering.com

Title: Senior Associate Engineer



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

Company Name: BUEHLER ENGINEERING, INC.

Name: Gillian Montgomery

California License Number: S6852

Mailing Address: 600 Q Street, Suite 200, Sacramento, CA 95811

Telephone: (916) 443-0303

Email: gmontgomery@buehlerengineering.com

Certification Method

☐ GR-63-Core

☒ ICC-ES AC156

☐ IEEE 344

☐ IEEE 693

☐ NEBS 3

☐ Other (Please Specify): _____

Testing Laboratory

Company Name: UNIVERSITY OF BUFFALO (SEESL)

Contact Person: Yushan Fu

Mailing Address: 212 Ketter Hall, Buffalo NY 14260

Telephone: (716) 645-4377

Email: yushanfu@buffalo.edu

BY: Mohammad Karim

DATE: 01/02/2026



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Seismic Parameters

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal (A Flx-H), g= 2.5 (A Rig-H), g= 1.0

Vertical (A Flx-V), g= 1.67 (A Rig-V), g= 0.67

S_{DS} (Design spectral response acceleration at short period, g) = 2.5

H_f (Force amplification height factor) = 1

R_u (Structure ductility reduction factor) = 1

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 0

HCAI Approval (For Office Use Only) - Approval Expires on 01/02/2032

Date: 1/2/2026

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Condition of Approval (if applicable): _____

OSP-0872

BY: Mohammad Karim

DATE: 01/02/2026

Table 1. Certified Product List

Model Number	Capacity (kW)	Fuel Tank (gal)	Dimensions (mm)						Max Operating Weight (lbs)	Tested/ Interpolated
			Max Width	Overall Length (open)	Overall Length (STD)	Overall Length (L1)	Overall Length (L2)	Max Height		
SD035*	35	n/a	965	1942	2409	2857	2409	1574	2749	Interpolated
SD0035KG174.5D18DBYY3	35	54	965	n/a	2409	n/a	n/a	1588	3068	UUT-1
SD035*	35	54	965	1942	2409	2857	2409	1904	3590	Interpolated
SD035*	35	54 extended	965	2702	2702	3150	2702	1904	3952	Interpolated
SD035*	35	109	965	1942	2409	2857	2409	2209	4272	Interpolated
SD035*	35	119 extended	965	3011	3011	3459	3011	2209	4511	Interpolated
SD035*	35	132	965	1942	2409	2857	2409	2209	4443	Interpolated
SD035*	35	190 extended	965	2692	2692	3140	2692	2310	5089	Interpolated
SD035*	35	211	965	1942	2409	2857	2409	2514	5241	Interpolated
SD035*	35	219 extended	965	3011	3011	3459	3011	2209	5332	Interpolated
SD035*	35	300 extended wide	965	2360	2409	2857	2409	2603	6068	Interpolated
SD035*	35	326 extended wide	1226	3011	3011	3459	3011	2379	6459	Interpolated
SD035*	35	438 extended wide	1226	3011	3011	3459	3011	2684	7394	Interpolated
SD035*	35	510 extended wide	1205	2960	2960	3408	2960	2650	8196	Interpolated
SD040*	40	n/a	965	1942	2409	2857	2409	1574	2749	Interpolated
SD040*	40	54	965	1942	2409	2857	2409	1904	3590	Interpolated
SD040*	40	54 extended	965	2702	2702	3150	2702	1904	3952	Interpolated
SD040*	40	109	965	1942	2409	2857	2409	2209	4272	Interpolated
SD040*	40	119 extended	965	3011	3011	3459	3011	2209	4511	Interpolated
SD040*	40	132	965	1942	2409	2857	2409	2209	4443	Interpolated
SD040*	40	190 extended	965	2692	2692	3140	2692	2310	5089	Interpolated
SD040*	40	219 extended	965	3011	3011	3459	3011	2209	5332	Interpolated
SD040*	40	211	965	1942	2409	2857	2409	2514	5241	Interpolated
SD040*	40	300 extended wide	965	2360	2409	2857	2409	2603	6068	Interpolated
SD040*	40	326 extended wide	1226	3011	3011	3459	3011	2379	6459	Interpolated
SD040*	40	438 extended wide	1226	3011	3011	3459	3011	2684	7394	Interpolated
SD040*	40	510 extended wide	1205	2960	2960	3408	2960	2650	8196	Interpolated
SD050*	50	n/a	965	1942	2409	2857	2409	1574	2749	Interpolated
SD050*	50	54	965	1942	2409	2857	2409	1904	3590	Interpolated
SD050*	50	54 extended	965	2702	2702	3150	2702	1904	3952	Interpolated
SD050*	50	109	965	1942	2409	2857	2409	2209	4272	Interpolated
SD050*	50	119 extended	965	3011	3011	3459	3011	2209	4511	Interpolated
SD050*	50	132	965	1942	2409	2857	2409	2209	4443	Interpolated
SD050*	50	190 extended	950	2692	2692	3140	2692	2310	5089	Interpolated
SD050*	50	219 extended	965	3011	3011	3459	3011	2209	5332	Interpolated
SD050*	50	211	965	1942	2409	2857	2409	2514	5241	Interpolated
SD050*	50	300 extended wide	965	2360	2409	2857	2409	2603	6068	Interpolated
SD050*	50	326 extended wide	1226	3011	3011	3459	3011	2379	6459	Interpolated
SD050*	50	438 extended wide	1226	3011	3011	3459	3011	2684	7394	Interpolated
SD050*	50	510 extended wide	1205	2960	2960	3408	2960	2650	8196	Interpolated
SD060*	60	n/a	1028	2360	2840	3287	2840	1743	3818	Interpolated
SD060*	60	79	1028	2360	2840	3287	2840	2073	4929	Interpolated
SD060*	60	152	1028	2360	2840	3287	2840	2378	5701	Interpolated
SD060*	60	189	1028	2360	2840	3287	2840	2378	5985	Interpolated
SD060*	60	153 extended wide	1316	3810	3810	4257	3810	2243	6509	Interpolated
SD060*	60	285 extended	1028	3438	3438	3885	3438	2454	7418	Interpolated
SD060*	60	300	1028	2360	2840	3287	2840	2683	7037	Interpolated
SD060*	60	306 extended	1028	3810	3810	4257	3810	2378	7649	Interpolated
SD060*	60	350 extended	1028	2794	2840	3287	2840	2683	7811	Interpolated
SD060*	60	459 extended	1028	3810	3810	4257	3810	2683	8920	Interpolated
SD060*	60	510 extended wide	1205	2960	2960	3407	2960	2826	9215	Interpolated
SD060*	60	589 extended wide	1238	3250	3250	3697	3250	2772	10253	Interpolated
SD060*	60	608 extended wide	1316	3810	3810	4257	3810	2853	10421	Interpolated
SD080*	80	n/a	1028	2360	2840	3287	2840	1743	3933	Interpolated
SD080*	80	79	1028	2360	2840	3287	2840	2073	5044	Interpolated
SD080*	80	152	1028	2360	2840	3287	2840	2378	5816	Interpolated
SD080*	80	189	1028	2360	2840	3287	2840	2378	6100	Interpolated
SD080*	80	153 extended wide	1316	3810	3810	4257	3810	2243	6624	Interpolated
SD080*	80	285 extended	1028	3438	3438	3885	3438	2454	7533	Interpolated
SD080*	80	300	1028	2360	2840	3287	2840	2683	7152	Interpolated
SD080*	80	306 extended	1028	3810	3810	4257	3810	2378	7764	Interpolated
SD080*	80	350 extended	1028	2794	2840	3287	2840	2683	7926	Interpolated
SD080*	80	459 extended	1028	3810	3810	4257	3810	2683	9035	Interpolated
SD080*	80	510 extended wide	1205	2960	2960	3407	2960	2826	9330	Interpolated
SD080*	80	589 extended wide	1238	3250	3250	3697	3250	2772	10368	Interpolated
SD080*	80	608 extended wide	1316	3810	3810	4257	3810	2853	10536	Interpolated
SD100*	100	n/a	1028	2795	3371	3915	3671	2054	4449	Interpolated
SD100*	100	90	1028	2795	3371	3915	3671	2384	5829	Interpolated
SD100*	100	220	1028	2795	3371	3915	3671	2689	7131	Interpolated
SD100*	100	234 extended wide	1316	4191	4191	4735	4491	2554	7543	Interpolated
SD100*	100	278	1028	2795	3371	3915	3671	2994	7271	Interpolated
SD100*	100	350	1028	2795	3371	3915	3671	2994	7686	Interpolated
SD100*	100	375	1280	3777	3826	n/a	3826	3270	9205	Interpolated
SD100*	100	375 extended	1280	4267	4267	n/a	4267	3270	9565	Interpolated
SD100*	100	510 extended wide	1203	2960	3371	3915	3671	3083	9806	Interpolated
SD100*	100	563 extended	1028	4191	4191	4735	4491	2994	10096	Interpolated
SD100*	100	589 extended wide	1238	3250	3371	3915	3671	3137	10984	Interpolated

Table 1. Certified Product List

Model Number	Capacity (kW)	Fuel Tank (gal)	Dimensions (mm)						Max Operating Weight (lbs)	Tested/ Interpolated
			Max Width	Overall Length (open)	Overall Length (STD)	Overall Length (L1)	Overall Length (L2)	Max Height		
SD100*	100	693 extended wide	1346	3455	3455	3999	3671	3137	11523	Interpolated
SD100*	100	750 extended	1280	5500	5500	n/a	5500	3270	13110	Interpolated
SD100*	100	777 extended wide	1316	4191	4191	4735	4491	3164	12192	Interpolated
SD100*	100	927 extended wide	1316	4498	4498	5042	4798	3164	13510	Interpolated
SD130*	130	n/a	1028	2795	3371	3915	3671	2054	4449	Interpolated
SD130*	130	90	1028	2795	3371	3915	3671	2384	5829	Interpolated
SD130*	130	220	1028	2795	3371	3915	3671	2689	7131	Interpolated
SD130*	130	234 extended wide	1316	4191	4191	4735	4491	2554	7543	Interpolated
SD130*	130	278	1028	2795	3371	3915	3671	2994	7271	Interpolated
SD130*	130	350	1028	2795	3371	3915	3671	2994	7686	Interpolated
SD130*	130	375	1280	3777	3826	n/a	3826	3270	9205	Interpolated
SD130*	130	375 extended	1280	4267	4267	n/a	4267	3270	9565	Interpolated
SD130*	130	510 extended wide	1203	2960	3371	3915	3671	3083	9806	Interpolated
SD130*	130	563 extended	1028	4191	4191	4735	4191	2994	10096	Interpolated
SD130*	130	589 extended wide	1238	3250	3371	3915	3671	3137	10984	Interpolated
SD130*	130	693 extended wide	1346	3455	3455	3999	3671	3137	11523	Interpolated
SD130*	130	750 extended	1280	5500	5500	n/a	5500	3270	13110	Interpolated
SD130*	130	777 extended wide	1316	4191	4191	4735	4491	3164	12192	Interpolated
SD130*	130	927 extended wide	1316	4498	4498	5042	4798	3164	13510	Interpolated
SD150*	150	n/a	1280	2996	3633	4279	3633	2330	5262	Interpolated
SD150*	150	134	1280	2996	3633	4279	3633	2660	7045	Interpolated
SD150*	150	322	1280	2996	3633	4279	3633	2965	8735	Interpolated
SD150*	150	375	1280	3777	3826	n/a	3826	3270	9205	Interpolated
SD150*	150	375 extended	1280	4267	4267	n/a	4267	3270	9565	Interpolated
SD150*	150	376	1280	2960	3633	4279	3633	3270	9335	Interpolated
SD150*	150	386 extended	1280	3996	3996	4642	3996	2965	9790	Interpolated
SD150*	150	510	1280	2996	3633	4279	3633	3270	10429	Interpolated
SD150*	150	693 extended wide	1346	3455	3633	4279	3633	3359	12188	Interpolated
SD150*	150	695 extended	1280	3996	3996	4642	3996	3270	12218	Interpolated
SD150*	150	750 extended	1280	5500	5500	n/a	5500	3244	13110	Interpolated
SD150*	150	946 extended wide	1346	5292	5292	5938	5292	3370	15339	Interpolated
SD150*	150	1031 extended wide	1687	3996	3996	4642	3996	3440	15253	Interpolated
SD150*	150	1325 extended wide	1346	7055	7055	7701	7055	3330	19180	Interpolated
SD150*	150	1404 extended wide	1687	3996	3996	4642	3996	3745	18634	Interpolated
SD175*	175	n/a	1280	2996	3633	4279	3633	2330	5262	Interpolated
SD175*	175	134	1280	2996	3633	4279	3633	2660	7045	Interpolated
SD175*	175	322	1280	2996	3633	4279	3633	2965	8735	Interpolated
SD175*	175	375	1280	3777	3826	n/a	3826	3270	9205	Interpolated
SD175*	175	375 extended	1280	4267	4267	n/a	4267	3270	9565	Interpolated
SD175*	175	376	1280	2960	3633	4279	3633	3270	9335	Interpolated
SD175*	175	386 extended	1280	3996	3996	4642	3996	2965	9790	Interpolated
SD175*	175	510	1280	2996	3633	4279	3633	3270	10429	Interpolated
SD175*	175	693 extended wide	1346	3455	3633	4279	3633	3359	12188	Interpolated
SD175*	175	695 extended	1280	3996	3996	4642	3996	3270	12218	Interpolated
SD175*	175	750 extended	1280	5500	5500	n/a	5500	3270	13110	Interpolated
SD175*	175	946 extended wide	1346	5292	5292	5938	5292	3370	15339	Interpolated
SD175*	175	1031 extended wide	1687	3996	3996	4642	3996	3440	15253	Interpolated
SD175*	175	1325 extended wide	1346	7055	7055	7701	7055	3330	19180	Interpolated
SD175*	175	1404 extended wide	1687	3996	3996	4642	3996	3745	18634	Interpolated
SD200*	200	n/a	1371	3250	3923	4569	3923	2370	6627	Interpolated
SD200*	200	153	1371	3250	3923	4569	3923	2700	8773	Interpolated
SD200*	200	372	1371	3250	3923	4569	3923	3005	10827	Interpolated
SD200*	200	477	1371	3250	3923	4569	3923	3310	11783	Interpolated
SD200*	200	524 extended	1371	4908	4908	5554	4908	3005	12253	Interpolated
SD200*	200	589	1371	3250	3923	4569	3923	3310	12862	Interpolated
SD200*	200	693 extended wide	1371	3455	3923	4569	3923	3310	13358	Interpolated
SD200*	200	903 extended	1371	4908	4908	5554	4908	3310	15499	Interpolated
SD200*	200	946 extended wide	1371	5292	5292	5938	5292	3410	16704	Interpolated
SD200*	200	1325 extended wide	1371	7055	7055	7701	7055	3370	20545	Interpolated
SD200*	200	1336 extended wide	1733	4908	4908	5554	4908	3480	19902	Interpolated
SD200*	200	1821 extended wide	1733	4908	4908	5554	4908	3785	23868	Interpolated
SD230*	230	n/a	1371	3250	3923	4569	3923	2370	6627	Interpolated
SD230*	230	153	1371	3250	3923	4569	3923	2700	8773	Interpolated
SD230*	230	372	1371	3250	3923	4569	3923	3005	10827	Interpolated
SD230*	230	477	1371	3250	3923	4569	3923	3310	11783	Interpolated
SD230*	230	524 extended	1371	4908	4908	5554	4908	3005	12253	Interpolated
SD230*	230	589	1371	3250	3923	4569	3923	3310	12862	Interpolated
SD230*	230	693 extended wide	1371	3455	3923	4569	3923	3310	13358	Interpolated
SD230*	230	903 extended	1371	4908	4908	5554	4908	3310	15499	Interpolated
SD230*	230	946 extended wide	1371	5292	5292	5938	5292	3410	16704	Interpolated
SD230*	230	1325 extended wide	1371	7055	7055	7701	7055	3370	20545	Interpolated
SD230*	230	1336 extended wide	1733	4908	4908	5554	4908	3480	19902	Interpolated
SD230*	230	1821 extended wide	1733	4908	4908	5554	4908	3785	23868	Interpolated
SD250*	250	n/a	1371	3250	3923	4569	3923	2370	6627	Interpolated
SD250*	250	153	1371	3250	3923	4569	3923	2700	8773	Interpolated
SD250*	250	372	1371	3250	3923	4569	3923	3005	10827	Interpolated
SD250*	250	477	1371	3250	3923	4569	3923	3310	11783	Interpolated

Table 1. Certified Product List

Model Number	Capacity (kW)	Fuel Tank (gal)	Dimensions (mm)						Max Operating Weight (lbs)	Tested/ Interpolated
			Max Width	Overall Length (open)	Overall Length (STD)	Overall Length (L1)	Overall Length (L2)	Max Height		
SD250*	250	524 extended	1371	4908	4908	5554	4908	3005	12253	Interpolated
SD250*	250	589	1371	3250	3923	4569	3923	3310	12862	Interpolated
SD250*	250	693 extended wide	1371	3455	3923	4569	3923	3310	13358	Interpolated
SD250*	250	903 extended	1371	4908	4908	5554	4908	3310	15499	Interpolated
SD250*	250	946 extended wide	1371	5292	5292	5938	5292	3410	16704	Interpolated
SD250*	250	1325 extended wide	1371	7055	7055	7701	7055	3370	20545	Interpolated
SD250*	250	1336 extended wide	1733	4908	4908	5554	4908	3480	19902	Interpolated
SD250*	250	1821 extended wide	1733	4908	4908	5554	4908	3785	23868	Interpolated
SD275*	275	n/a	1460	3493	4437	5084	4588	2725	9041	Interpolated
SD275*	275	183	1460	3493	4437	5084	4588	3055	11353	Interpolated
SD275*	275	438	1460	3493	4437	5084	4588	3360	13566	Interpolated
SD275*	275	680	1460	3493	4437	5084	4588	3665	15690	Interpolated
SD275*	275	693	1460	3493	4437	5084	4588	3665	15803	Interpolated
SD275*	275	708 extended	1460	5355	5355	6002	5355	3360	16519	Interpolated
SD275*	275	946 extended wide	1460	5292	5292	5939	5292	3765	19118	Interpolated
SD275*	275	1111 extended	1460	5355	5355	6002	5355	3665	20524	Interpolated
SD275*	275	1325 extended wide	1460	7055	7055	7702	7055	3725	22959	Interpolated
SD275*	275	1636 extended wide	1885	5355	5355	6002	5355	3835	26789	Interpolated
SD275*	275	2229 extended wide	1885	5355	5355	6002	5355	4140	32210	Interpolated
SD300*	300	n/a	1460	3493	4437	5084	4588	2725	9041	Interpolated
SD300*	300	183	1460	3493	4437	5084	4588	3055	11353	Interpolated
SD300*	300	438	1460	3493	4437	5084	4588	3360	13566	Interpolated
SD300*	300	680	1460	3493	4437	5084	4588	3665	15690	Interpolated
SD300*	300	693	1460	3493	4437	5084	4588	3665	15803	Interpolated
SD300*	300	708 extended	1460	5355	5355	6002	5355	3360	16519	Interpolated
SD300*	300	946 extended wide	1460	5292	5292	5939	5292	3765	19118	Interpolated
SD300*	300	1111 extended	1460	5355	5355	6002	5355	3665	20524	Interpolated
SD300*	300	1325 extended wide	1460	7055	7055	7702	7055	3725	22959	Interpolated
SD300*	300	1636 extended wide	1885	5355	5355	6002	5355	3835	26789	Interpolated
SD300*	300	2229 extended wide	1885	5355	5355	6002	5355	4140	32210	Interpolated
SD350*	350	n/a	1460	3493	4437	5084	4588	2725	9268	Interpolated
SD350*	350	183	1460	3493	4437	5084	4588	3055	11580	Interpolated
SD350*	350	438	1460	3493	4437	5084	4588	3360	13793	Interpolated
SD350*	350	680	1460	3493	4437	5084	4588	3665	15917	Interpolated
SD350*	350	693	1460	3493	4437	5084	4588	3665	16030	Interpolated
SD350*	350	708 extended	1460	5355	5355	6002	5355	3360	16746	Interpolated
SD350*	350	946 extended wide	1460	5292	5292	5939	5292	3765	19345	Interpolated
SD350*	350	1325 extended wide	1460	7055	7055	7702	7055	3725	23186	Interpolated
SD350*	350	1514 extended	1460	5355	5355	6002	5355	3970	25555	Interpolated
SD350*	350	2229 extended wide	1885	5355	5355	6002	5355	4140	32437	Interpolated
SD350*	350	2756 extended wide	1885	6392	6392	7039	6392	4140	37516	Interpolated
SD0350KG17129D18HPLY3	350	2756 extended wide	1885	n/a	n/a	n/a	6392	4140	37516	UUT-2

Max operating weight includes heaviest enclosure, and the tank and full tank contents.

*available in multiple generator types. See Table 2 for certified subcomponents and nomenclature sheet.

OPEN indicates an open generator set, "STD" indicates a unit with standard enclosure, "L1" indicates a unit with Level 1 enclosure, and "L2" indicates a unit with Level 2 enclosure.

Table 2. Certified Sub-Component List

Pursuant to section 4.5 of AC 156, below is a list and rationale of major subassemblies/components.

Engine					
Part Number	Weight (lb)	Nominal capacity (HP)	Manufacturer	Material	Tested / Interpolated
D4.5L: 79hp	922	79	FPT	Cast Iron	UUT-1
D4.5L: 90hp	992	90	FPT	Cast Iron	Interpolated
D4.5L: 128hp	1102	128	FPT	Cast Iron	Interpolated
D6.7L: 198hp	1441	198	FPT	Cast Iron	Interpolated
D6.7L: 279hp	1389	279	FPT	Cast Iron	Interpolated
D6.7L: 308hp	1034	308	FPT	Cast Iron	Interpolated
D8.7L: 389hp	2690	389	FPT	Cast Iron	Interpolated
D10.3L: 449hp	2447	449	FPT	Cast Iron	Interpolated
D12.9L: 530hp	2707	530	FPT	Cast Iron	UUT-2

Alternator			
Part Number	Manufacturer	Material	Tested / Interpolated
Generac Alt 35 kW	Generac	Steel Laminations & Copper Windings	UUT-1
Generac Alt 40 kW	Generac	Steel Laminations & Copper Windings	Interpolated
Generac Alt 45 kW	Generac	Steel Laminations & Copper Windings	Interpolated
Generac Alt 50 kW	Generac	Steel Laminations & Copper Windings	Interpolated
Generac Alt 60 kW	Generac	Steel Laminations & Copper Windings	Interpolated
Generac Alt 80 kW	Generac	Steel Laminations & Copper Windings	Interpolated
Generac Alt 130 kW	Generac	Steel Laminations & Copper Windings	Interpolated
Generac Alt 150 kW	Generac	Steel Laminations & Copper Windings	Interpolated
Generac Alt 175 kW	Generac	Steel Laminations & Copper Windings	Interpolated
Generac Alt 200 kW	Generac	Steel Laminations & Copper Windings	Interpolated
Generac Alt 230 kW	Generac	Steel Laminations & Copper Windings	Interpolated
Generac Alt 250 kW	Generac	Steel Laminations & Copper Windings	Interpolated
Generac Alt 275 kW	Generac	Steel Laminations & Copper Windings	Interpolated
Generac Alt 300 kW	Generac	Steel Laminations & Copper Windings	Interpolated
Generac Alt 350 kW	Generac	Steel Laminations & Copper Windings	UUT-2

Battery				
Part Number	Part	Manufacturer	Material	Tested / Interpolated
31	12V	Exide	Carbon Steel, Aluminum, Copper & Plastic	UUT-1
8D	24V	Exide	Carbon Steel, Aluminum, Copper & Plastic	UUT-2

Control Panel			
Part Number	Manufacturer	Material	Tested / Interpolated
D - Generac Powerzone	Generac	Carbon Steel Enclosure w/ Electrical Components	UUT-1
P - Generac Powerzone	Generac	Carbon Steel Enclosure w/ Electrical Components	Interpolated
C - Generac Powerzone G8	Generac	Carbon Steel Enclosure w/ Electrical Components	UUT-2

Enclosure				
Part Number	Manufacturer	Material	Tested / Interpolated	
Standard	Generac	Carbon Steel	UUT-1	
Level 1A Sound Attenuated	Generac	Carbon Steel	interpolated	
Level 2A Sound Attenuated	Generac	Carbon Steel	UUT-2	

Table 2. Certified Sub-Component List

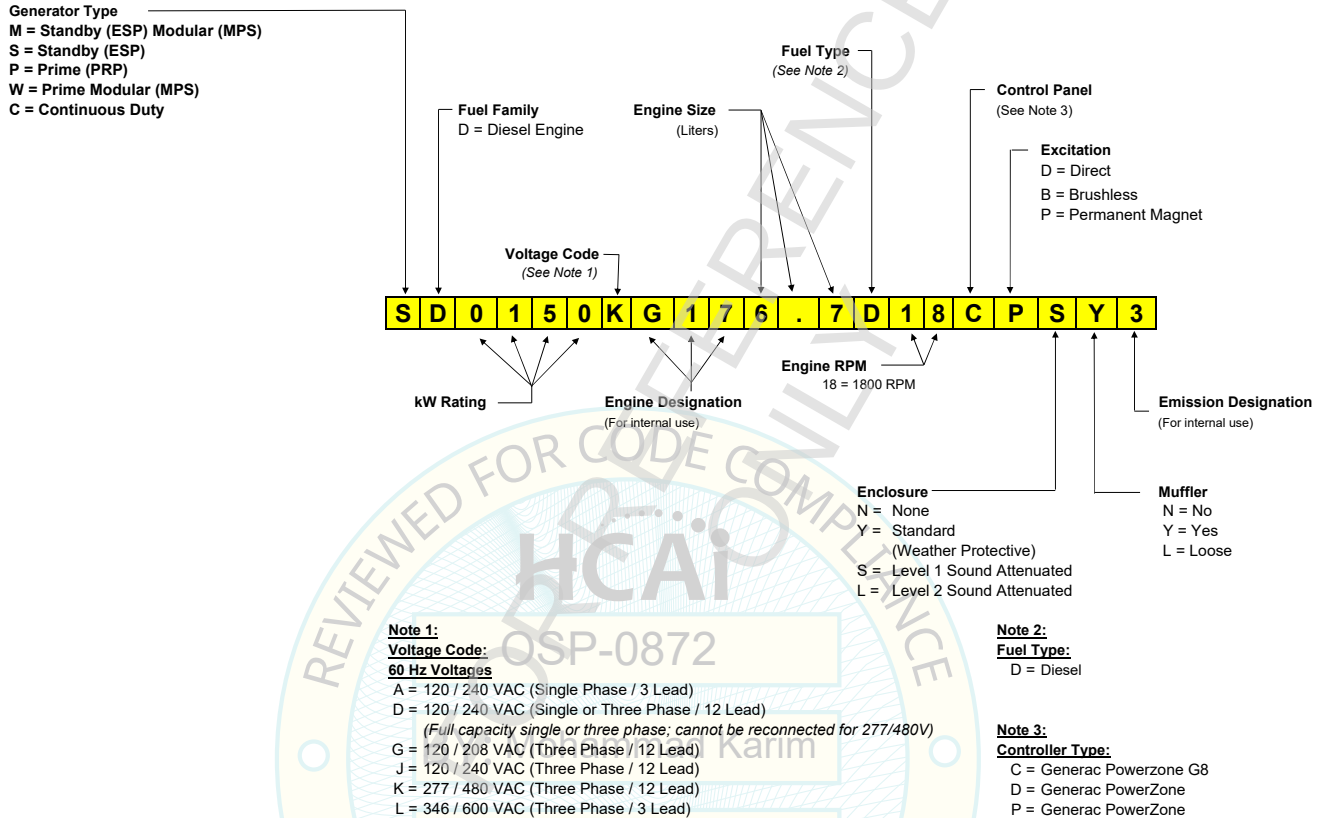
Muffler					
Part Number	Generator kW Range	Type	Manufacturer	Material	Tested / Interpolated
D4.5L Exhaust - 35kW	35	Diesel	Generac	Carbon Steel	UUT-1
D4.5L Exhaust - 40kW	40	Diesel	Generac	Carbon Steel	Interpolated
D4.5L Exhaust - 50kW	50	Diesel	Generac	Carbon Steel	Interpolated
D4.5L Exhaust - 60kW	60	Diesel	Generac	Carbon Steel	Interpolated
D4.5L Exhaust - 80kW	80	Diesel	Generac	Carbon Steel	Interpolated
D6.7L Exhaust - 100kW	100	Diesel	Generac	Carbon Steel	Interpolated
D6.7L Exhaust - 130kW	130	Diesel	Generac	Carbon Steel	Interpolated
D6.7L Exhaust - 150kW	150	Diesel	Generac	Carbon Steel	Interpolated
D6.7L Exhaust - 175kW	175	Diesel	Generac	Carbon Steel	Interpolated
D8.7L Exhaust - 200kW	200	Diesel	Generac	Carbon Steel	Interpolated
D8.7L Exhaust - 230kW	230	Diesel	Generac	Carbon Steel	Interpolated
D8.7L Exhaust - 250kW	250	Diesel	Generac	Carbon Steel	Interpolated
D10.3L Exhaust - 275kW	275	Diesel	Generac	Carbon Steel	Interpolated
D10.3L Exhaust - 300kW	300	Diesel	Generac	Carbon Steel	Interpolated
D12.9L Exhaust - 350kW	350	Diesel	Generac	Carbon Steel	UUT-2

Radiator System			
Part Number	Manufacturer	Material	Tested / Interpolated
D4.5L Radiator - 35 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	UUT-1
D4.5L Radiator - 40 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	Interpolated
D4.5L Radiator - 45 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	Interpolated
D4.5L Radiator - 50 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	Interpolated
D4.5L Radiator - 60 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	Interpolated
D4.5L Radiator - 80 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	Interpolated
D6.7L Radiator - 100 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	Interpolated
D6.7L Radiator - 130 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	Interpolated
D6.7L Radiator - 150 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	Interpolated
D6.7L Radiator - 175 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	Interpolated
D8.7L Radiator - 200 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	Interpolated
D8.7L Radiator - 230 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	Interpolated
D8.7L Radiator - 250 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	Interpolated
D10.3L Radiator - 275 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	Interpolated
D10.3L Radiator - 300 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	Interpolated
D12.9L Radiator - 350 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)	UUT-2

Table 2. Certified Sub-Component List

Fuel Tank				
Generator kW Range	Part Number	Manufacturer	Material	Tested / Interpolated
35-50	54 gal - 1 ft tall	Generac	Carbon Steel	UUT-1
35-50	54 gal - 1 ft tall ext	Generac	Carbon Steel	Interpolated
35-50	109 gal - 2 ft tall	Generac	Carbon Steel	Interpolated
35-50	119 gal - 2 ft tall ext	Generac	Carbon Steel	Interpolated
35-50	132 gal - 2 ft tall	Generac	Carbon Steel	Interpolated
35-50	190 gal - 2 ft tall ext	Generac	Carbon Steel	Interpolated
35-50	219 gal - 2 ft tall ext	Generac	Carbon Steel	Interpolated
35-50	211 gal - 3 ft tall	Generac	Carbon Steel	Interpolated
35-50	300 gal - 3 ft tall ext wide	Generac	Carbon Steel	Interpolated
35-50	326 gal - 2 ft tall ext wide	Generac	Carbon Steel	Interpolated
35-50	438 gal - 3 ft tall ext wide	Generac	Carbon Steel	Interpolated
35-130	510 gal - 3 ft tall ext wide	Generac	Carbon Steel	Interpolated
60-80	79 gal - 1 ft tall	Generac	Carbon Steel	Interpolated
60-80	152 gal - 2 ft tall	Generac	Carbon Steel	Interpolated
60-80	153 gal - 1 ft tall ext wide	Generac	Carbon Steel	Interpolated
60-80	189 gal - 2 ft tall	Generac	Carbon Steel	Interpolated
60-80	306 gal - 2 ft tall ext	Generac	Carbon Steel	Interpolated
60-80	459 gal - 3 ft tall ext	Generac	Carbon Steel	Interpolated
60-80	285 gal - 2 ft tall ext	Generac	Carbon Steel	Interpolated
60-80	300 gal - 3 ft tall	Generac	Carbon Steel	Interpolated
60-80	350 gal - 3 ft tall ext	Generac	Carbon Steel	Interpolated
60-80	608 gal - 3 ft tall ext wide	Generac	Carbon Steel	Interpolated
60-130	589 gal - 3 ft tall ext wide	Generac	Carbon Steel	Interpolated
100-130	90 gal - 1 ft tall	Generac	Carbon Steel	Interpolated
100-130	220 gal - 1 ft tall	Generac	Carbon Steel	Interpolated
100-130	234 gal - 1 ft tall ext wide	Generac	Carbon Steel	Interpolated
100-130	278 gal - 3 ft tall	Generac	Carbon Steel	Interpolated
100-130	350 gal - 3 ft tall	Generac	Carbon Steel	Interpolated
100-175	375 gal - 3 ft tall	Generac	Carbon Steel	Interpolated
100-175	375 gal - 3 ft tall ext	Generac	Carbon Steel	Interpolated
100-130	563 gal - 3 ft tall ext	Generac	Carbon Steel	Interpolated
100-250	693 gal - 3 ft tall ext wide	Generac	Carbon Steel	Interpolated
100-175	750 gal - 3 ft tall ext	Generac	Carbon Steel	Interpolated
100-130	777 gal - 3 ft tall ext wide	Generac	Carbon Steel	Interpolated
100-130	927 gal - 3 ft tall ext wide	Generac	Carbon Steel	Interpolated
150-175	134 gal - 1 ft tall	Generac	Carbon Steel	Interpolated
150-175	322 gal - 2 ft tall	Generac	Carbon Steel	Interpolated
150-175	376 gal - 3 ft tall	Generac	Carbon Steel	Interpolated
150-175	386 gal - 2 ft tall ext	Generac	Carbon Steel	Interpolated
150-175	510 gal - 3 ft tall	Generac	Carbon Steel	Interpolated
150-175	695 gal - 3 ft tall ext	Generac	Carbon Steel	Interpolated
150-350	946 gal - 3 ft tall ext wide	Generac	Carbon Steel	Interpolated
150-175	1031 gal - 3 ft tall ext wide	Generac	Carbon Steel	Interpolated
150-350	1325 gal - 3 ft tall ext wide	Generac	Carbon Steel	Interpolated
150-175	1404 gal - 4 ft tall ext wide	Generac	Carbon Steel	Interpolated
200-250	153 gal - 1 ft tall	Generac	Carbon Steel	Interpolated
200-250	372 gal - 2 ft tall	Generac	Carbon Steel	Interpolated
200-250	477 gal - 3 ft tall	Generac	Carbon Steel	Interpolated
200-250	524 gal - 2 ft tall ext	Generac	Carbon Steel	Interpolated
200-250	589 gal - 3 ft tall	Generac	Carbon Steel	Interpolated
200-250	903 gal - 3 ft tall ext	Generac	Carbon Steel	Interpolated
200-250	1336 gal - 3 ft tall ext wide	Generac	Carbon Steel	Interpolated
200-250	1821 gal - 4 ft tall ext wide	Generac	Carbon Steel	Interpolated
275-350	183 gal - 1 ft tall	Generac	Carbon Steel	Interpolated
275-350	438 gal - 2 ft tall	Generac	Carbon Steel	Interpolated
275-350	680 gal - 3 ft tall	Generac	Carbon Steel	Interpolated
275-350	693 gal - 3 ft tall	Generac	Carbon Steel	Interpolated
275-350	708 gal - 2 ft tall ext	Generac	Carbon Steel	Interpolated
275-300	1111 gal - 3 ft tall ext	Generac	Carbon Steel	Interpolated
275-300	1636 gal - 3 ft tall ext wide	Generac	Carbon Steel	Interpolated
275-350	2229 gal - 4 ft tall ext wide	Generac	Carbon Steel	Interpolated
350	1514 gal - 4 ft tall ext	Generac	Carbon Steel	Interpolated
350	2756 gal - 4 ft tall ext wide	Generac	Carbon Steel	UUT-2

Code Type Legend Industrial Configured Generac Diesel Generators



UUT-1 Test Summary

Testing Lab: SEESL SUNY at Buffalo
Testing Report: Report #2025-10; Date of Test September 15, 2025
Testing Unit Num: UUT-1

Model Number	Nominal Capacity	Measured Operating Weight (lbs)	Mounting	Excitation Direction		Frequency (Hz)	Length	Width	Height
SD0035KG174.5D18DBYY3	35 kW	3,068	Base - Rigid Mount	X	Side-Side	9.0	94.8 inch 2409 mm	38 inch 965 mm	62.5 inch 1588 mm
				Y	Front-Back	6.8			
				Z	Vertical	15.5			

Notes: Frequencies are for units prior to ICC ES AC-156 testing.
Refer to Nomenclature for model breakdown.

Attachment Method	Seismic Parameters									
Four (4) - 5/8"Ø SAE J429 Grade 8 bolts front and back of unit to fuel tank (8 total). Four (4) - 5/8"Ø SAE J429 Grade 8 bolts front and back of unit (8 total).	Building Code	Test Criteria	S _{DS} (g)	z/h	H _f	R _p	Horizontal (g)		Vertical (g)	
Seismic Modifications - none Test Anomaly - none	CBC 2025	AC 156	2.50	0	1.00	1.00	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
							2.50	1.00	1.67	0.67



Figure 1.1: Unit on the shake table



Figure 1.2: Mounting Detail

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table test

UUT-1 Summary Tested Sub-Component

Sub-Component	Weight	Part Number	Manufacturer	Material
Engine	922 lbs	D4.5L: 79hp	FPT	Cast Iron
Alternator	n/a	Generac Alt - 35 kW	Generac	Steel Laminations & Cooper Windings
Radiator System	n/a	D4.5L Radiator - 35 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)
Battery	n/a	31	Exide	Carbon Steel, Aluminum, Copper and Plastic
Control Panel	n/a	D - Generac Powerzone	Generac	Carbon Steel Enclosure and Electrical Components
Enclosure	n/a	Standard	Generac	Carbon Steel
Fuel Tank	n/a	54 gal; 1 ft Tall	Generac	Carbon Steel
Mufflers	n/a	D4.5L Exhaust	Generac	Carbon Steel

UUT-2 Test Summary

Testing Lab: SEESL SUNY at Buffalo
Testing Report: Report #2025-10; Date of Test September 16, 2025
Testing Unit Num: UUT-2

Model Number	Nominal Capacity	Measured Operating Weight (lbs)	Mounting	Excitation Direction		Frequency (Hz)	Length	Width	Height
SD0350KG17129D18HPLY3	350 kW	37,820	Base - Rigid Mount	X	Side-Side	6.8	251.7 inch 6392 mm	74.2 inch 1885 mm	163 inch 4140 mm
				Y	Front-Back	14.9			
				Z	Vertical	12.6			

Notes: Frequencies are for units prior to ICC ES AC-156 testing.
Refer to Nomenclature for model breakdown.

Attachment Method - Five (5) - 5/8"Ø SAE J429 Grade 8 bolts	Seismic Parameters									
front and back of unit to fuel tank adapter (10 total). Five (5) - 3/4"Ø SAE J429 Grade 8 bolts front and back to tank (10 total).	Building Code	Test Criteria	S _{DS} (g)	z/h	H _f	R _u	Horizontal (g)		Vertical (g)	
Eight (8) - 3/4"Ø SAE J429 Grade 8 bolts front and back of tank (16 total).							A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
Seismic Modifications - none Test Anomaly - none	CBC 2025	AC 156	2.50	0	1.00	1.00	2.50	1.00	1.67	0.67



Figure 2.1: Unit on the shake table



Figure 2.2: Mounting Detail

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table test

UUT-2 Summary Tested Sub-Component

Sub-Component	Weight	Part Number	Manufacturer	Material
Engine	2707 lbs	D12.9L: 530hp	FPT	Cast Iron
Alternator	n/a	Generac Alt 350 kW	Generac	Steel Laminations & Cooper Windings
Radiator System	n/a	D12.9L Radiator - 350 kW	Generac	Aluminum (Fins), Steel (Mounting Flanges) & Aluminum (Tanks, Support Plates & Tubes)
Battery	n/a	8D	Exide	Carbon Steel, Aluminum, Copper and Plastic
Control Panel	n/a	C - Generac Powerzone G8	Generac	Carbon Steel Enclosure and Electrical Components
Enclosure	n/a	Level 2A	Generac	Carbon Steel
Fuel Tank	n/a	2756 gal; 4 ft Tall Ext Wide	Generac	Carbon Steel
Mufflers	n/a	D12.9L Exhaust - 350kW	Generac	Carbon Steel