



CITY OF SANIBEL
Planning Department
APPLICATION FOR DEVELOPMENT PERMIT

EMERGENCY ELECTRICAL POWER GENERATOR

STAFF USE ONLY

APPLICATION No: _____ FILING DATE: _____ ACCEPTED BY: _____ FEE: _____

- A Development Permit is **NOT** required for the operation of a **portable** electrical power generator.
- A Development Permit and a Building Permit **ARE** required for the installation of a **permanently** installed electrical power generator.

PART I. PARCEL IDENTIFICATION

TAX STRAP NUMBER: _____ - 46 - _____ - T _____ - _____ . _____

STREET ADDRESS OF PROPERTY: _____

PART II. OWNER & APPLICANT INFORMATION

NAME OF OWNER: _____

Owner's Mailing Address: _____

Owner's Phone No: _____ Business _____ Fax _____

Owner's Email Address: _____

NAME OF APPLICANT: _____

Applicant's Address: _____

Applicant's Phone No: _____ Business _____ Fax _____

Applicant's Email Address: _____

Applicant's Interest in Property: _____

PART III. PROVIDE A BRIEF DESCRIPTION OF THE PROPOSED DEVELOPMENT

As an option to submitting a CERTIFIED SOUND ATTENUATION PLAN, complete the following equation for calculating the Generator's Sound Pressure Level [dB (A)] at the Property Line:

Generator's corrected dB (A) = Gen + A + B + C

The calculation should be based on the generator manufacturer's sound pressure level data ("Gen"), the distance the generator unit is placed from the closest point of the nearest property line ("A"), its' proximity to applicant's existing structures, such as a wall of the applicant's home, ("B"), and whether a sound wall, located adjacent to the generator unit, is used for noise abatement ("C").

Generator's corrected dB (A) _____ = _____ + _____ + _____ + _____ .

The input for the terms "A", "B", and "C" in the Generator Sound Pressure Level [dB (A)] at the Property Line Equation are provided in the procedures provided in the attachment "Guide for Calculating Sound Pressure Levels for Emergency Electrical Power Generators and in Section 126-1305 of the Land Development Code.

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PART IV. ATTACHMENTS CHECKLIST

The information and attachments requested as part of this application are the minimum necessary to determine compliance with the requirements of the Sanibel Plan and the Land Development Code (LDC). The City may require additional information, at any time during the application process, to determine compliance with the requirements of the Sanibel Plan and the LDC. Provide three (3) copies of all surveys and plans. For a complete explanation of each item, refer to the Planning Department handout entitled "Instructions for Permits and Other Applications of the Sanibel Land Development code".

- _____ DEED (COPY) OR LEE COUNTY OWNER OF RECORD
- _____ OWNER'S AUTHORIZATION (Certified Form - Available in the Planning Department)
- _____ SURVEY (Scale 1" = 20', showing ALL current site improvements)
- _____ SITE DEVELOPMENT PLAN (1" = 20')
- _____ Site development plan shall include the sound barrier wall, if needed to meet the allowable maximum permissible sound pressure levels established in Section 126- 1306, and is to demonstrate compliance with all required setbacks from property lines and indicate the relationship of the generator's location to any dwelling unit or structure within 20 FT of the generator)
- _____ IDENTIFICATION OF THE GENERATOR'S MANUFACTURER, MODEL NAME AND NUMBER, AND LOAD CAPACITY OR RUNNING WATTS.
- _____ MANUFACTURER'S CERTIFICATION OF SOUND PRESSURE (NOISE) LEVEL EXPRESSED IN DB (A) AT 7 METERS (23 FT), WITH THE GENERATOR OPERATING UNDER NORMAL OR AVERAGE LOAD.
- _____ PLAN FOR SCREENING GENERATOR FROM VIEW FROM OFF THE SUBJECT PROPERTY.
- _____ CERTIFIED SOUND ATTENUATION PLAN Certification shall be by (1) a board certified member of the Institution of Noise Control Engineering; or (2) by an individual who has been qualified as an expert witness in the field of acoustics or noise control engineering by a court of competent jurisdiction; or (3) by an individual who has demonstrated competence in the field of acoustics or noise control engineering through a combination of education, training, and experience.
- _____ CERTIFICATION OF SOUND PRESSURE (NOISE) LEVEL ANTICIPATED AT THE SUBJECT'S PROPERTY LINE expressed in dB(A). Certification shall be by (1) a board certified member of the Institution of Noise Control Engineering; or (2) by an individual who has been qualified as an expert witness in the field of acoustics or noise control engineering by a court of competent jurisdiction; or (3) by an individual who has demonstrated competence in the field of acoustics or noise control engineering through a combination of education, training, and experience.
- _____ RESULTS OF USING THE EQUATION FOR CALCULATION OF SOUND PRESSURE LEVELS FOR THE EMERGENCY ELECTRICAL POWER GENERATOR (Refer to attachment for equation and examples)
- _____ VEGETATION PLAN
- _____ PROVISION FOR TIME DELAY ENGINE START SWITCH PROGRAMMABLE UP TO 30-MINUTES either integrated into the transfer switch or other generator control circuit or installed as an add-on.
- _____ OTHER INFORMATION REQUIRED FOR COMPLIANCE WITH THE LAND DEVELOPMENT CODE:

** The applicant can elect to forgo requirements for the certified sound attenuation plan and certification of sound pressure (noise) levels anticipated at the subject's property lines provided that the calculated sound pressure level at the applicant's property line is 78 dB(A) or less, **according to the equation provided on page 1 (Part III) of this application form.** The applicant needs to note that the completion certificate for the electrical power generator will not be issued until the City has measured the actual sound pressure level of the installed generator and determined that it complies with the standards found in the Land Development Code Section 126-1306, regardless of the results of the equation for calculating the GENERATOR'S SOUND PRESSURE LEVEL [dB(A)] AT THE PROPERTY LINE.

***** **CERTIFICATION** *****

I hereby certify that the information contained in this application and the attachments hereto are true and correct to the best of my knowledge and belief. Furthermore, I acknowledge that the City has the right to inspect the subject property in conjunction with this development permit application. (Please advise the City of any restrictions or limitations on the inspections.)

SIGNATURE OF OWNER / OWNER'S AUTHORIZED REPRESENTATIVE **DATE**

NOTE TO OWNER/APPLICANT: The proposed development may be subject to private deed restrictions or covenants. It is the applicant's responsibility to verify with the appropriate property owners association whether the proposed development complies with the applicable deed restrictions or covenants. **The City does not enforce deed restrictions or act as an arbitrator between the applicant and the association.**

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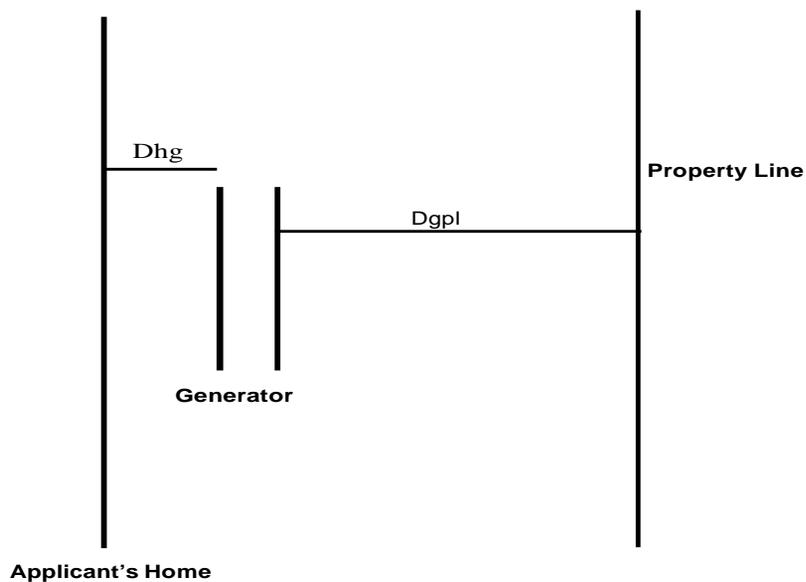
**GUIDE FOR CALCULATING SOUND PRESSURE LEVELS FOR
EMERGENCY ELECTRICAL POWER GENERATORS**

The sound pressure should be computer using the following equation for calculating the "Generator's Sound Pressure Level [dB(A)] at the Property Line":

$$\text{Generator's Corrected dB(A)} = \text{Gen} + \text{A} + \text{B} + \text{C}$$

The calculations shall be based on the generator manufacturer's sound pressure level data ("Gen"), the distance the generator unit is placed from the closest point of the nearest property line ("A"), its proximity to the applicant's home ("B"), and whether a sound wall, located adjacent to the generator unit, is used for noise abatement ("C"). The distances from the applicant's home (or other structure) to the generator ("B" or Dgh) and the distance from the generator to the closest point of the nearest property line ("A" or Dgpl) are defined in Figure 1 below:

Figure 1. Reference Distances Necessary for Generator Noise Calculation



Four major components are necessary for estimating the generator's sound level at the applicant's property line:

"Gen" = the generator Manufacturer's sound level data. These data must be in the form of A-weighted sound level, or dB(A), at 7 meters (23 feet) from the generator in a free-field environment.

"A" = a correction for the closest actual distance from the generator's surface to the applicant's property line

"B" = a correction for reflective sound based on the distance the generator is located relative to the wall of a structure or the applicant's home

"C" = a correction for a sound barrier constructed such that it fully blocks the line of sight to the generator when viewed from the applicant's property line (if applicable).

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The input for the terms "A", "B", and "C" in the Generator Sound Pressure Level [dB(A)] at the Property Line Equation are provided in Tables 1 through 3, respectively.

Table 1. Correction ("A") for Distance from Generator to Property Line

<u>Actual Distance from Generator to closest point of nearest Property Line in feet (dgpl)*</u>	<u>Distance Correction (A)</u>
5**	+11 dB(A)
6**	+10 dB(A)
7**	+9 dB(A)
8**	+8 dB(A)
9**	+7 dB(A)
10	+6 dB(A)
12	+5 dB(A)
14	+4 dB(A)
16	+3 dB(A)
17	+2 dB(A)
20	+1 dB(A)
23	0 dB(A)
27	-1 dB(A)
30	-2 dB(A)
33	-3 dB(A)
37	-4 dB(A)
43	-5 dB(A)
46	-6 dB(A)
53	-7 dB(A)
60	-8 dB(A)
66	-9 dB(A)
73	-10 dB(A)
83	-11 dB(A)
92	-12 dB(A)

*Select distance equal to or just less than the actual distance the generator is located from the closest point to the nearest property line. For example, if the generator's closest surface is located at an actual distance of 45 feet from the property line. A value corresponding to the 43 feet correction [minus -5dB(A)] from **Table 1** must be used.

**The minimum setback from a property line is 10 feet.

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Table 2. Correction ("B") for Reflected Sound from Applicant's Home

<u>Distance from Generator to Home or closest structure in feet (dhg)*</u>	<u>Reflection Correction (B)</u>
Closer than or equal to 5 feet	+3 dB(A)
Further than 5 feet and closer than or equal to 10 feet	+2 dB(A)
Further than 10 feet and closer than or equal to 20 feet	+1 dB(A)
Further than 20 feet	+0 dB(A)

Table 3 Correction ("C") for Presence of a Sound Barrier Wall

<u>Will a Sound Barrier Wall be Used?</u>	<u>Sound Barrier Correction (C)**</u>
Yes	-5 dB(A)
No	0 dB(A)

•• A sound barrier wall can only be used for input in the calculation of the "Generator's Sound Pressure Level [dB(A)] at the Property Line Equation" for an emergency electrical power generator that is located so that the bottom of the generator is no higher than four feet above the finished grade of the ground. The sound barrier wall must extend from the ground to a minimum of two feet higher than the top of the generator and extend a minimum of two feet past the sides of the generator. A sound barrier wall must have no gaps, holes, or penetrations. Walls made of masonry, concrete block, or wood construction meeting the above requirements are considered adequate. Foliage is not an adequate sound barrier.