



THE CITY OF LAKE FOREST
COMMUNITY DEVELOPMENT DEPARTMENT
800 N. FIELD DRIVE, LAKE FOREST, IL 60045
P: (847)810-3502 OR (847)810-3503/3521, F: (847)615-4383
WWW.CITYOFLAKEFOREST.COM

GENERATOR PERMIT REQUIREMENTS

The following is required for a complete permit submittal.

ELECTRIC PERMIT APPLICATION.

Provide **two copies** of all the of the following:

LEGAL SURVEY. The survey shall include zoning setbacks, proposed generator location, proposed gas lines, existing utility meters, air conditioning units, and mechanical intakes/exhausts.

MANUFACTURER'S SPECIFICATION SHEETS.

ONE LINE DIAGRAM OF THE EXISTING AND PROPOSED EQUIPMENT. Provide complete information on the line drawing showing pipe size, wire size, number of conductors, and other pertinent information to the application.

LOAD CALCULATION WORKSHEET.

FUEL GAS LINE SIZE, LENGTH AND TAP LOCATION. Provide fuel gas line sizing, lengths, and CFM or BTU of each connected appliance.

PLAN VIEW OF THE ELECTRICAL EQUIPMENT ROOM. The plan shall include the required working clearances about the electrical equipment. The City of Lake Forest requires 3' to each side and 4' in front of the main electrical panel(s) to remain clear of walls and other equipment for access to the panels.

Prior to issuance of the permit, the following information shall be up to date or submitted to the Community Development Department:

ELECTRICIAN'S LICENSE.



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ELECTRIC PERMIT APPLICATION
 #: _____
 DATE: _____

PROJECT ADDRESS:	
PROPERTY OWNER:	PHONE:
MAILING ADDRESS (IF DIFFERENT THAN ABOVE):	
PROPERTY OWNER'S EMAIL ADDRESS:	
ELECTRIC CONTRACTOR:	
MAILING ADDRESS:	
PHONE:	FAX:
LICENSE #:	ISSUED BY:

EXISTING ELECTRIC SERVICE:	_____ AMPS	___ OVERHEAD
	_____/_____/_____ VOLTAGE	___ UNDERGROUND
PROPOSED ELECTRIC SERVICE:	_____ AMPS	___ OVERHEAD ___ UNDERGROUND
	_____/_____/_____ VOLTAGE	___ TEMPORARY
QUANTITIES OF GENERAL WIRING:	_____ OUTLETS	_____ FIXTURES (INC. EXHAUST FANS)
		_____ SWITCHES
LOW VOLTAGE WIRING:	_____ CONTROL/SIGNAL	_____ VOICE/DATA/VIDEO _____ ALARM/SAFETY DEVICE
ELECTRIC HEATING: (600 V.A. AND LARGER)	_____ TOTAL K.V.A.	_____ TYPE OF HEATING UNIT
ELECTRIC MOTORS:	_____ MOTORS	_____ TOTAL COMBINED H.P.
		_____ H.P. OF LARGEST MOTOR
AIR CONDITIONING UNITS:	_____ NUMBER OF UNITS	_____ TOTAL K.V.A.
STANDBY GENERATOR:	_____ H. P. OF MOTOR	_____ OUTPUT IN K.V.A.
LANDSCAPE LIGHTING:	_____ OUTLETS	_____ FIXTURES

OTHER WORK: _____

As Property Owner, I hereby agree and acknowledge that all work must be done in accordance with Codes adopted by The City of Lake Forest Code and must be consistent with the approved plans. As Owner, I declare that all information submitted in support of the requested permit is accurate. Falsification of any information will result in penalties as provided for in the Code. By signing this form, owner assumes responsibility for the accuracy of the information provided by the contractor.

Signature of Property Owner: _____

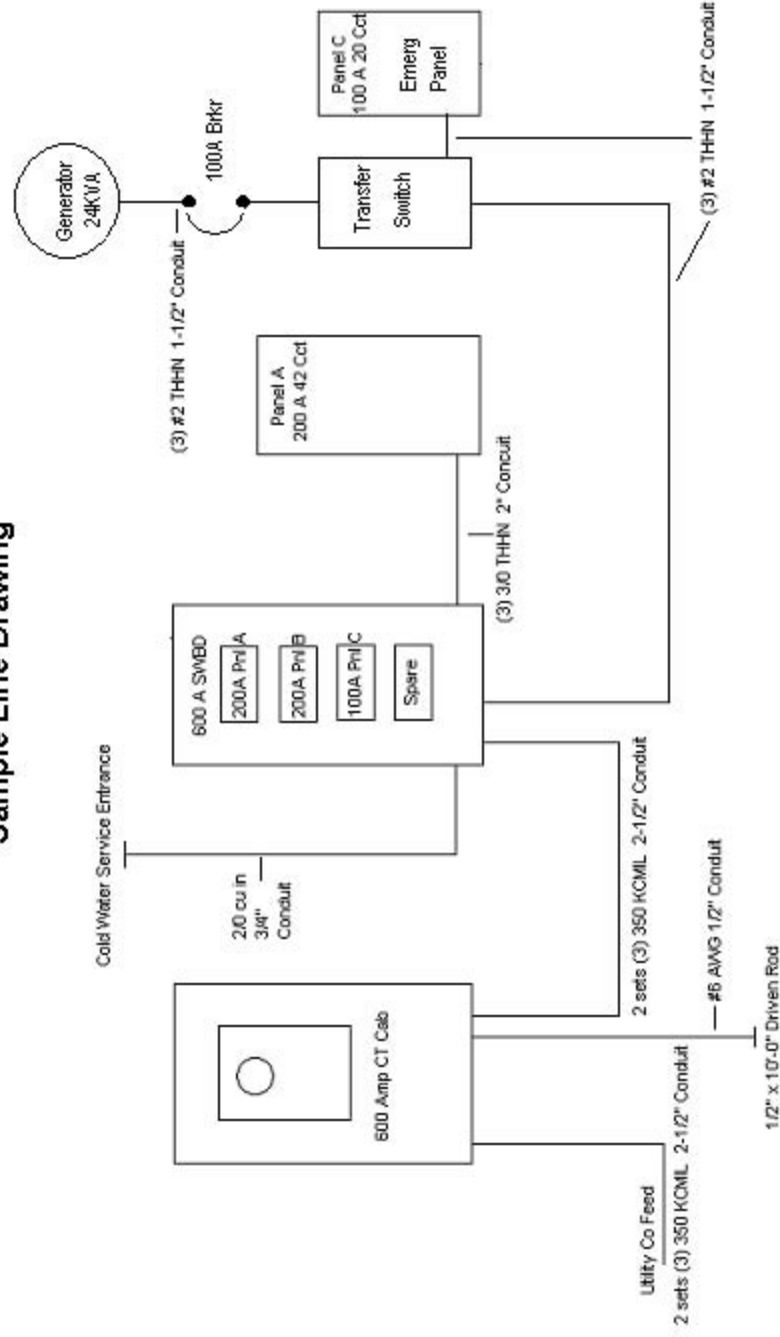
Signature of Owner's Authorized Designee (must have Designee Form attached): _____

Printed Name: _____ Contact Phone Number: _____

FOR OFFICE USE ONLY:

ELECTRIC PERMIT BASE FEE:	\$ _____	PER UNIT CHARGE:	\$ _____
ELECTRIC SERVICE FEE:	\$ _____	MOTORS:	\$ _____
TOTAL FEES: \$ _____			

Sample Line Drawing





The City of Lake Forest

Residential Generator Sizing Calculator

Do not use this sheet for houses with heat pumps, geo-thermal heating or total electric heating.

A General Lighting & Small Appliance Loads

1	Enter the square foot of livable space in your home: (Skip to line 2 if not using whole house method)	<input type="text"/>	
2	For whole house system multiply line 1 by 3 (For partial systems enter total wattage of all lighting circuits supplied by the generator. Enter 1500 for each circuit if the actual wattage is not known.)		x3 <input type="text"/>
3	Enter the number of kitchen appliance circuits. (Min. of 2) (For partial systems enter only the number of kitchen circuits being supplied by the generator.)	<input type="text"/>	
4	Multiply line 3 by 1500		x1500 <input type="text"/>
5	Enter the number of laundry circuits. (Min. of 1) (For partial systems enter only the number of laundry circuits being supplied by the generator.)	<input type="text"/>	
6	Multiply line 5 by 1500		x1500 <input type="text"/>
7	Add lines 2, 4, and 6		<input type="text"/>

B Fastened In Place Appliance Loads

Enter the number and va of each appliance listed.
If the appliance va is unknown then use the default shown in parenthesis.

	A Qty	B va(watts)	C Total
Electric Water Heater (4500va)			
Electric Dryer - 230 volt (5000va)			
Dishwasher (1200va)			
Central Furnace (1200va)			
Trash Compactor (1200va)			
Air Cleaners (600va)			
Central Vacuum (1500va)			
Refrigerator not included in section A (800va)			
Stand alone freezer (700va)			
Wine Cooler (600va)			
Portable Spa/Hot Tub (14,000va)			
Steamer (9000va)			
Warming Drawer (750va)			
Storm Water Sump Pump (1200va)			
Sanitary Sewer Ejector Pump (1500va)			
Garage Door Openers (1200va)			
Elevator Motor (7000va)			
Pool Pumps (1200va)			
Attic Fan(s) (650va)			
Electric Range (12000)			
Electric Cooktop (12000)			
Electric Oven (12000)			

	Whirlpool/Bubble Tub (1200va)	<input type="text"/>	<input type="text"/>	<input type="text"/>
8	Add the amounts in column C		<input type="text"/>	
9	If there are four or more appliances entered above then enter .75, otherwise enter 1.		<input type="text"/>	
10	Multiply the amount in line 8 by line 9			<input type="text"/>

C Heating & AC Equipment

Enter the rating from each Fixed electric heater. Include bathroom type heating fans.

	A		
	Watts (1000 watts equals 1 kW)		
11	Fixed electric space heating unit #1	<input type="text"/>	
12	Fixed electric space heating unit #2	<input type="text"/>	
13	Fixed electric space heating unit #3	<input type="text"/>	
14	Fixed electric space heating unit #4	<input type="text"/>	
15	Total heating load, add the amounts in column A		<input type="text"/>

Enter the Running Load Amp amounts from the nameplate on each unit.

	R.L.A.		
16	Air Conditioning unit #1	<input type="text"/>	
17	Air Conditioning unit #2	<input type="text"/>	
18	Air Conditioning unit #3	<input type="text"/>	
19	Air Conditioning unit #4	<input type="text"/>	
20	Add the amounts in column A		
21	Multiply line 20 by 230		<input type="text"/>
22	Enter the larger of the amounts in lines 15 and 21.		<input type="text"/>
23	Add the numbers from lines 7, 10, and 22.		<input type="text"/>

D Calculated Load

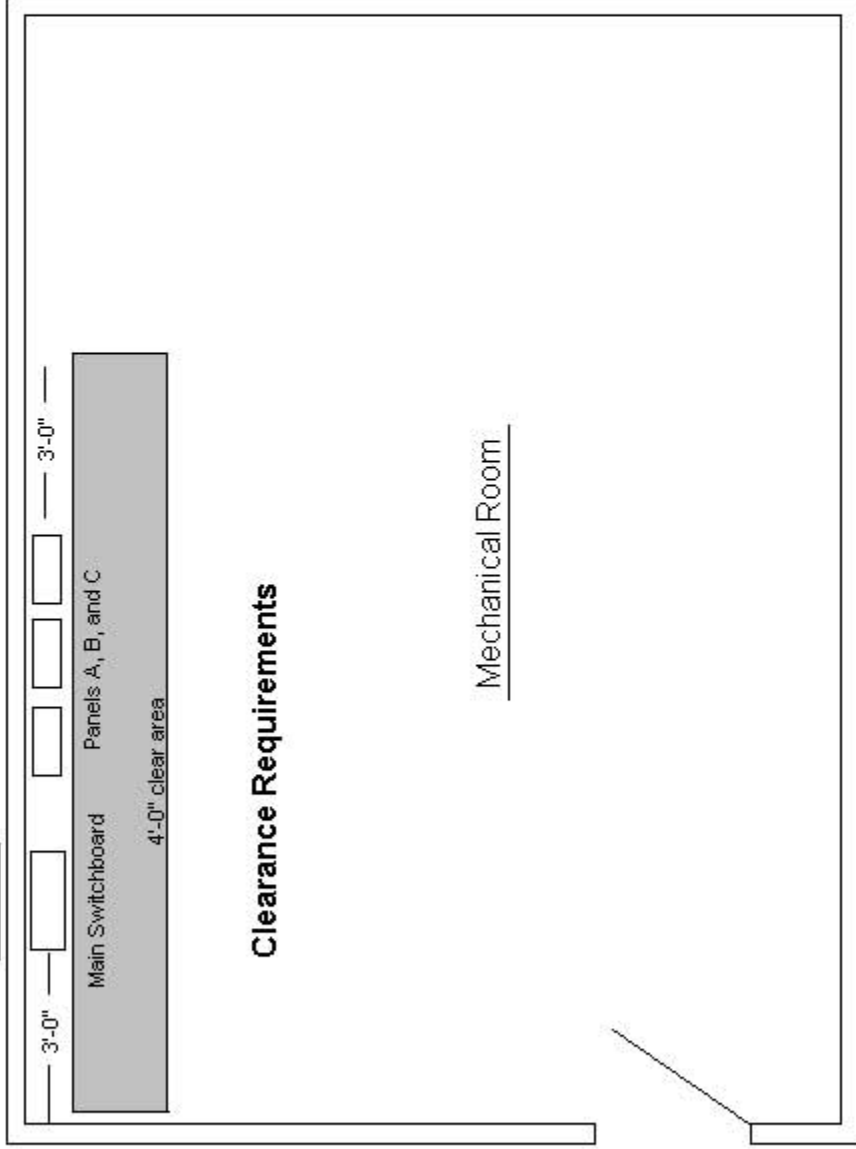
24	Enter the amount from line 23 here. If amount is less than 10,000 enter the amount from line 23 on line 29 and go to Section E.	<input type="text"/>
25		<input type="text" value="10000"/>
26	Deduct line 25 from line 24 but not less than 0	<input type="text"/>
27	Multiply line 26 by 40% (.40)	<input type="text"/>
28	Add 10000 to line 27	<input type="text"/>
29	Enter line 28. This is the size generator needed before any load management is applied.	<input type="text"/>

E Load Management Applied

Enter the va or kW for each appliance on a load management module(s).

	Appliance Name	kW
30	Appliance #1	<input type="text"/>
31	Appliance #2	<input type="text"/>
32	Appliance #3	<input type="text"/>
33	Total L.M. Add lines 30, 31, and 32	<input type="text"/>
34	Deduct line 33 from line 29. This is the total generator kW rating required	<input type="text"/>

CT Cabinet/Meter



Clearance Requirements

Mechanical Room

Electrical panels and equipment shall have working clearances of 3'-0" to each side and 4'-0" in front of the equipment. All measurements shall be to any adjacent walls or other obstructions.