



VILLAGE OF NORTHBROOK
Development & Planning Services
1225 Cedar Lane
Northbrook, Illinois 60062
847 664-4050
www.northbrook.il.us

Single-Family Residential Back-up Generator

Submit the application and drawing requirements listed below for the installation of a Single-Family Back-up Generator to permits@northbrook.il.us.

Application Requirements:

- Permit Application Deposit of \$60 (Payment will be requested after the application is accepted)
- Form 1.2 – Electrical Application
- Form 1.2a – Back-up Generator Worksheet
- One-line Diagram

Drawing Requirements: (Submit with permit application):

- Plat of Survey (Must indicate location of proposed generator with dimensions to the lot lines; Survey must be sealed and to scale)
- Generator Manufacturer Specifications

Please direct any questions regarding the permit process to permits@northbrook.il.us
or call the Development and Planning Services Department at 847-664-4050.
Office hours are Monday-Friday, 8:30am – 4:30pm.

**FORM 1.2****VILLAGE OF NORTHBROOK
Development & Planning Services**

1225 Cedar Lane
Northbrook, Illinois 60062
847 664-4050 FAX: 847 272-5068
www.northbrook.il.us

Permit #: _____
Fee: _____

Electrical Application

Property Address _____

Owner _____

E-Mail Address _____ **Phone** _____ **Fax** _____

IMPORTANT – ELECTRICIANS MUST HAVE A VALID VILLAGE CONTRACTOR'S LICENSE

Electrical Contractor _____

Address _____

E-Mail Address _____ **Phone** _____ **Fax** _____

Primary Contact * _____

E-Mail Address _____ **Phone** _____ **Fax** _____

* All plan review correspondence shall be sent to the Primary Contact via email. The Primary contact will also be notified once the permit has been approved and is ready for issuance (pick-up).

Description of Work (example: service panel upgrade, install new wiring, install new receptacles/outlets, etc.):

• **Circuits** ☐ Not Applicable

Number of circuits _____ Number of Panel Circuits _____

• **Electrical Service Information** ☐ Not Applicable

Existing:

Location: ☐ underground ☐ overhead

Size: ☐ 100 ☐ 200 ☐ 300 ☐ 400 ☐ other ____ amp

Proposed:

Location: ☐ underground ☐ overhead

Size: ☐ 100 ☐ 200 ☐ 300 ☐ 400 ☐ other ____ amp

Scheduling of Inspections:

Please contact the Permit Coordinators at **847-664-4050** in order to schedule necessary inspections.

If you have electrical related questions, please contact Electrical Inspector, Corey Friedman at **847-664-4061**.

Office Use:

Comments: _____

Reviewer: _____ Approval Date: _____



Back-up Generator Worksheet

Please provide the necessary information in the spaces below:

GAS

Gas Meter Capacity (BTU)	Generator Capacity (BTU)	Total Gas BTU Usage (generator & all other appliances)	Length of New Gas Pipe to Generator	Diameter of New Gas Pipe to Generator	New Gas Pipe Capacity (BTU)	Type of Gas Pipe: Steel or PE Plastic

ELECTRICAL

Size of Main Breaker on Generator	Size of Breaker for Feeder into ATS from Panel	Feeder Size: Panel to ATS	Feeder Size: Generator to ATS	Circuits Connected to Load Shed

GENERATOR

Brand	Size: KW	db Levels:	
		Run	Test

DISTANCE & CLEARANCES

Generator Distances from...	
Windows:	House Wall:
Doors:	Electric Meter:
Other Intakes:	Gas Meter:
Other:	

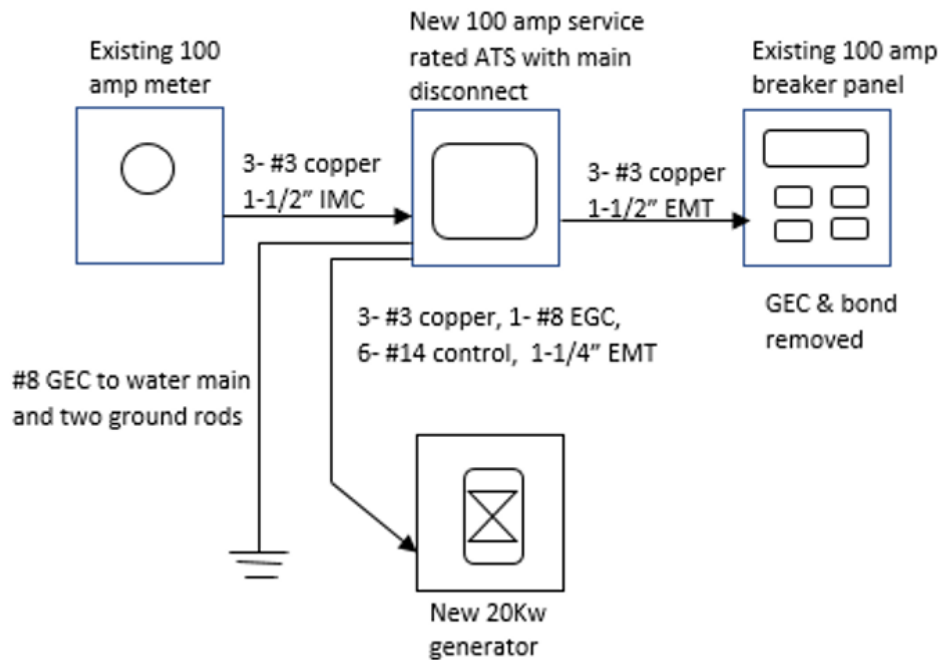
NOTES:

1. Primary codes are the 2017 NEC and 2018 IRC.
2. With application, submit an electrical & gas one-line diagram with load calculation.
3. With application, submit load calculation for generator sizing and sub-panels with transferred circuits (or ATS with built in sub-panel transferred circuits).
4. Steel gas pipe is not permitted below grade and PE plastic pipe is not permitted above grade.
5. Below grade PE plastic pipe is to be terminated above grade with appropriate risers.
6. If electrical and / or gas is installed in the ground for distances greater than 5 feet, call for an underground inspection prior to backfill.
7. When setting the generator, ATS or sub-panels, appropriate clearances and distances are needed to the new equipment / existing equipment and features of the house.
8. For final inspection, an electrician or other qualified technician must be on site.
9. If located within an HOA, provide HOA approval letter.

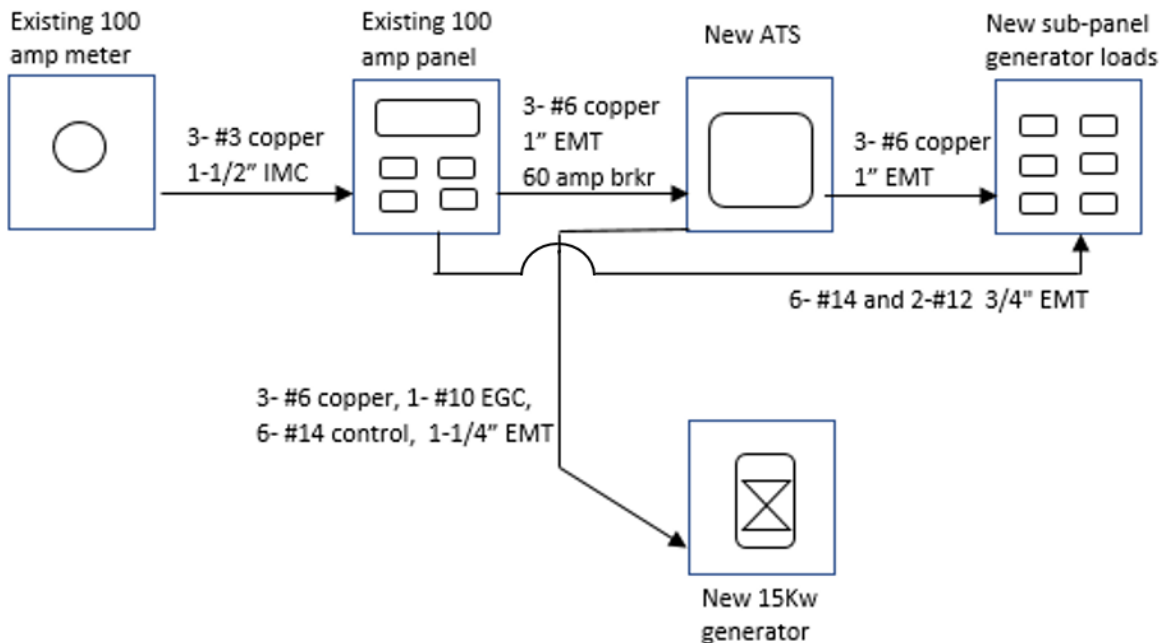


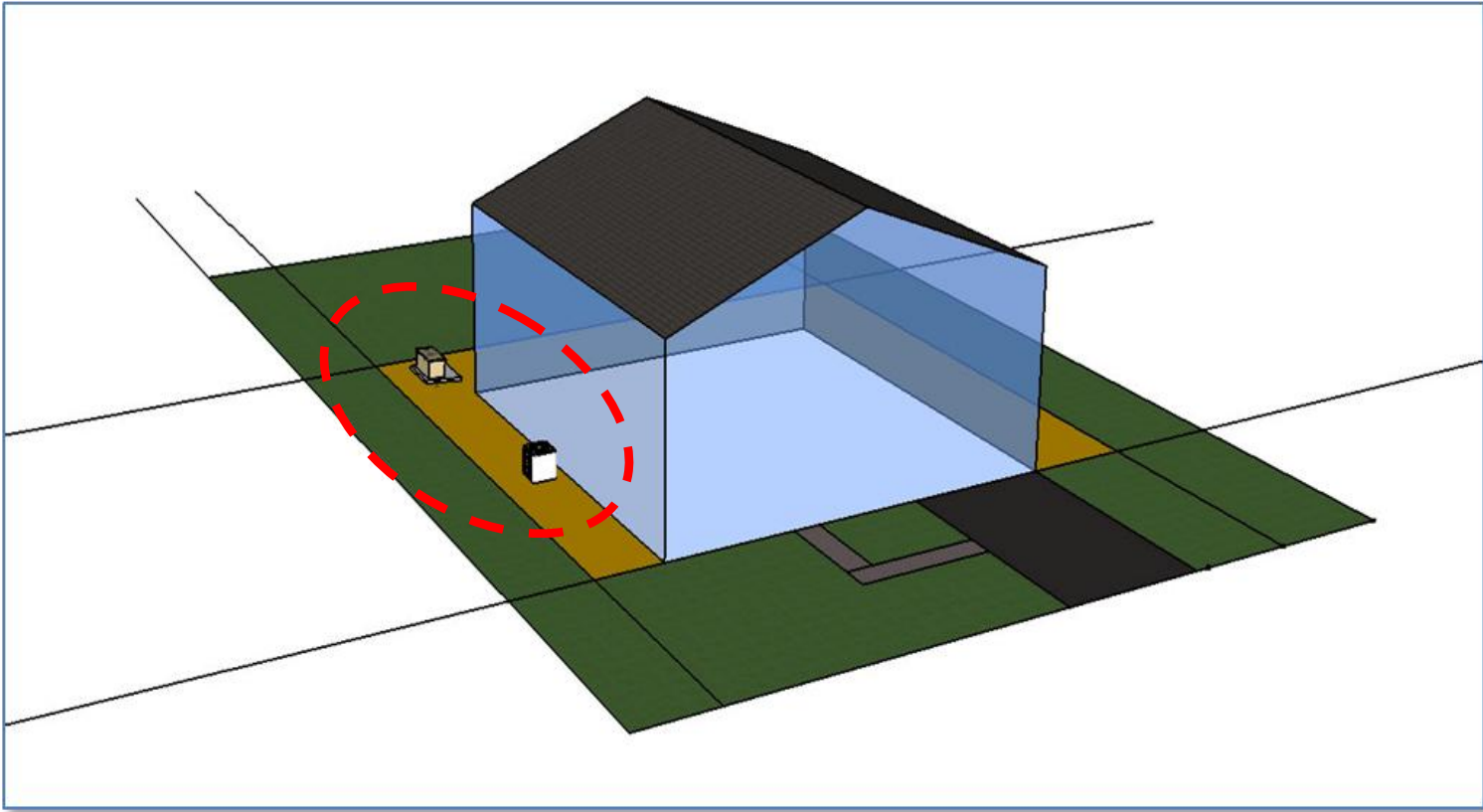
Sample One-line Diagram

Example of electrical one-line diagram for whole house generator system:



Example of electrical one-line diagram with limited branch circuits:





Plan ahead!

Air conditioning units and standby generators cannot be located in any required yard.

YARD REQUIREMENTS	R-1	R-2	R-3	R-4	R-5
1. <u>Front & Corner Side Yard</u> (feet)	60	40	35	30	25
2. <u>Interior Lots</u>	40	12	10	9	6
3. <u>Rear Yard</u> (feet)	40	40	40	40	40