

**VILLAGE OF NORTHBROOK  
Development & Planning Services**

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

**A12 – Single Family Residential Back-up Generator**

**Address:** \_\_\_\_\_

**Date Stamp**

For the installation of a generator, see below for permit submittal requirements.

**Application Requirements:**

- Permit Application Deposit of \$60
- Form 1.2 - Electrical Application
- Form 1.2a – Back-up Generator Worksheet
- One-line Diagram

**Drawing Requirements:** (to be submitted with permit application)

- Generator Specifications from the Manufacturer 2 copies
- Plat of Survey 2 copies (Must indicate location of generator with dimensions to the property lines; Survey must be sealed and be “to scale”)



**FORM 1.2**

Permit #: \_\_\_\_\_  
Fee: \_\_\_\_\_

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**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

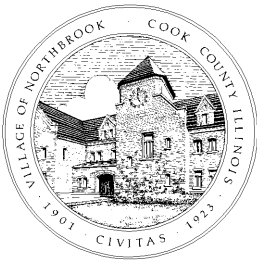
**Scheduling of Inspections:**

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:

**ELECTRICAL**

Generator Size KW	Size of Main Breaker on Generator	Size of Breaker for Feeder to ATS	Feeder Wire Size: Panel to ATS	Feeder Wire Size: ATS to Generator	Equipment Grounding Conductor Size

**GAS PIPING** (steel pipe not permitted to be buried, plastic not permitted above grade or in the house)

Total Gas Pipe Distance	Gas Pipe Size	Gas Pipe Type (sched. 40 black or PE plastic)	Generator Cu Ft or BTU	Gas Pipe Cu Ft. or Btu Max.

**GENERATOR**

Brand	db Levels Run / Test	Clearance to: Building / Intakes / Openings

**INSPECTION REQUIREMENTS**

- Underground plastic piping must have appropriate tracer wire and anode less risers at both ends.
- All applicable codes to be followed including: NEC 2011, IFGC 2006, IRC 2006, IBC 2006, NFPA 54
- Required Inspections:
  1. Underground (trench) gas and electrical piping require inspection when longer than 5 feet in the ground.
    - EGC are required to be green (cannot be re-identified with tape) for #14,12,10,8,6.
    - Neutral conductors are require to be white (cannot be re-identified with tape) for #14,12,10,8,6.
  2. Final Inspection – **The Electrician is to be present at Final Inspection.**

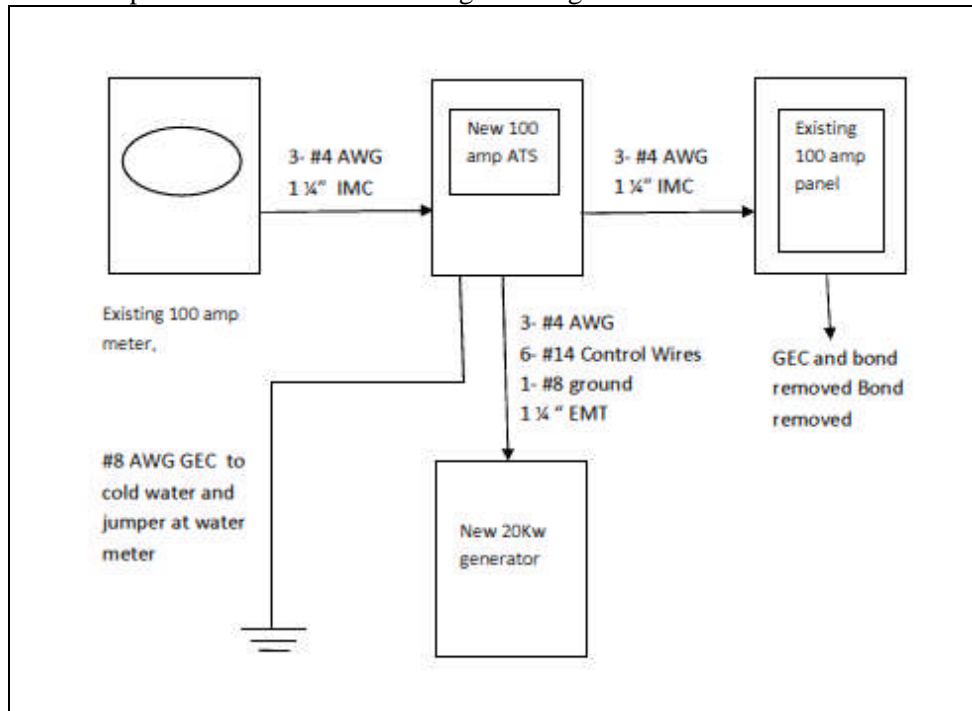


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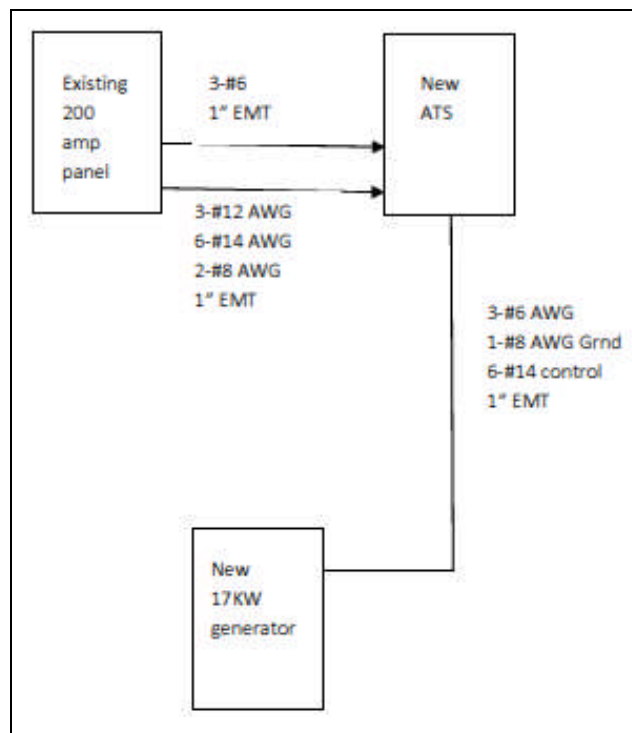
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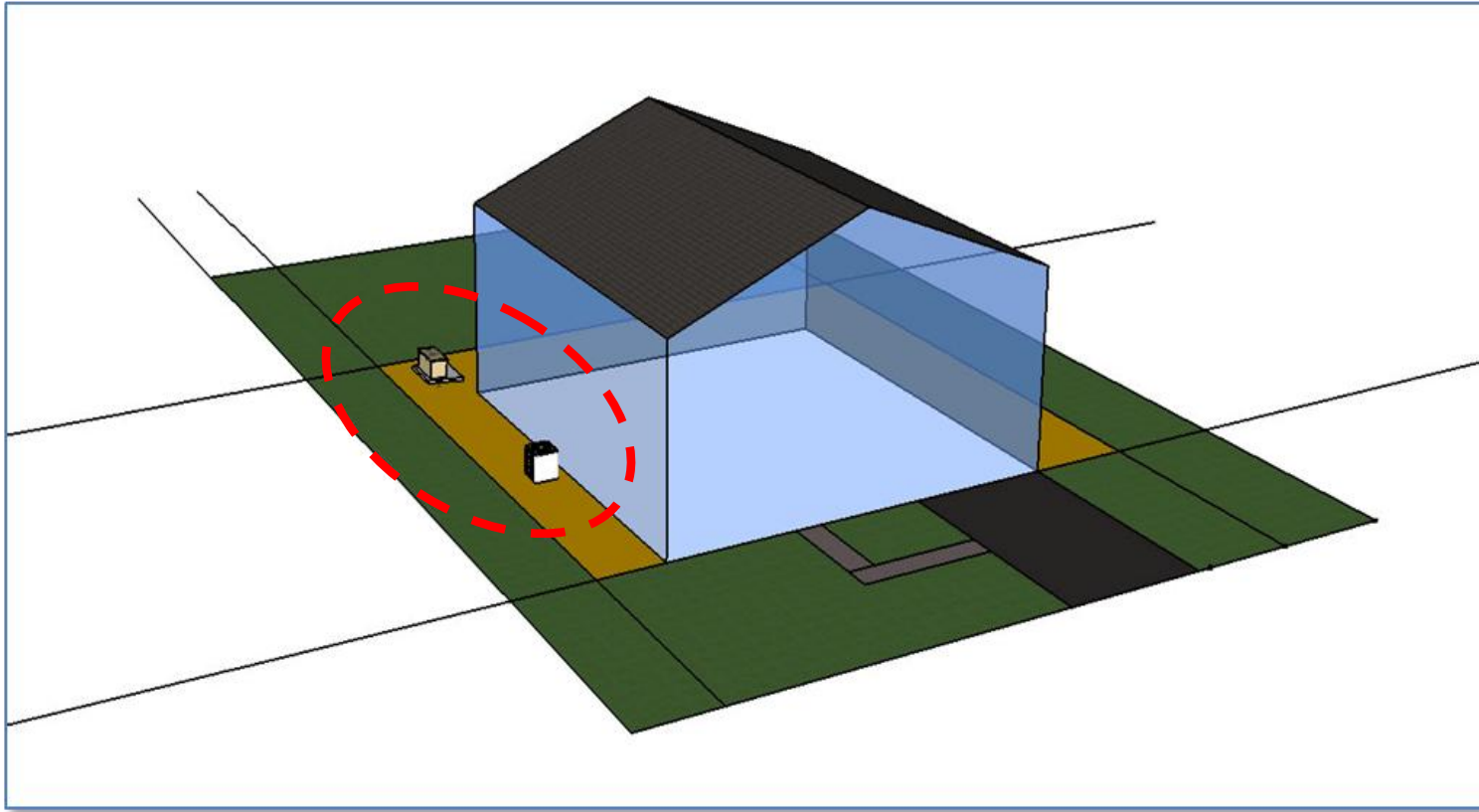
## Sample One-Line Diagram (Back-Up Generator)

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



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





**Plan ahead!**

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

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