

City of DuBois – PERMIT APPLICATION

P.O. Box 408, 16 West Scribner Ave – DuBois, PA 15801

Phone: 814-375-2000

Fax: 814-375-2307

Permit No. _____

LOCATION OF PROPOSED WORK OR IMPROVEMENT

Municipality: _____ Tax Parcel # _____

Site Address: _____

Lot# _____ Subdivision/Land Development: _____ Phase: _____ Section: _____

Owner: _____ Phone# _____ Fax# _____

Mailing Address: _____ Email: _____

Principal

Contractor: _____ Phone# _____ Fax# _____

Mailing Address: _____ Email: _____

Architect: _____ Phone# _____ Fax# _____

Mailing Address: _____ Email: _____

TYPE OF WORK OR IMPROVEMENT (Circle all that apply)

New Building Addition Alteration Repair Demolition Relocation

Change of Use Plumbing Electrical Mechanical Other _____

Describe the Proposed work: _____

ESTIMATED COST OF CONSTRUCTION (Reasonable fair market value) _____

DESCRIPTION OF BUILDING USE (Check one then complete applicable info)

☐ **RESIDENTIAL**

Single Family Dwelling

Duplex

Townhouse

Total Sq. ft. of finished living space _____

☐ **NON-RESIDENTIAL (Commercial)**

Building Code Used for Design: _____

Specific Use: _____

Use Group: _____ Construction Type: _____

Change of Use (indicate former and proposed): _____

Maximum Occupant Load: _____

Maximum Live Load: _____

Sprinkler system to be installed: (Check one) Yes_____ No_____

BUILDING DIMENSIONS

Existing Building Area: _____ sq. ft. Number of Stories: _____
Proposed Building Area: _____ sq. ft. Height Above Grade: _____ ft.
Total Building Area: _____ sq. ft. Area of Largest Floor: _____ sq. ft.

FLOODPLAIN INFORMATION

Is the site located within an identified flood plan area? (Check one) Yes_____ No_____

Note: All proposed development shall be in accordance with the requirements of the National Flood Insurance Program and the Pennsylvania Flood Plain Management Act.

HISTORIC DISTRICT INFORMATION

Is the site located within a Historical District? (Check one) Yes_____ No_____

Note: If yes, you must provide proper Historical District certification per the UCC Law.

The applicant certifies that all information on this application is correct and the work will be completed in accordance with the “approved” construction documents and PA Act 45 – Uniform Construction Code and any additional approved building code requirements adopted by the Municipality. The property owner and applicant assumes the responsibility of locating all property lines, setback lines, easements, right of ways, flood areas, etc. Issuance of a permit and approval of construction documents shall not be construed as authority to violate, cancel or set aside any provisions of the codes or ordinances of the Municipality or any other governing body. The applicant hereby certifies he/she understands all applicable codes, ordinances and regulations.

Application for a permit shall be made by the **owner or lessee of the building or structure, or authorized agent of either, or by the authorized registered Design Professional** employed in connection with the proposed work.

I certify that the Code Administrator or the Code Administrator’s authorized representative shall have the authority to enter areas covered by such permit at any reasonable hour to enforce the provisions of the applicable codes to such permit.

Signature of Owner or Authorized Agent

Print Name of Owner or Authorized Agent

Address: _____ Date: _____

Directions to Worksite: _____

OFFICE USE ONLY below

Permit Fee: \$ _____ Plan Submittal Checklist Attached: yes_____ no _____

Plan Review Approval Date: _____

MUNICIPAL PRIOR APPROVAL CHECKLIST

Name of Municipality_____

Name of Applicant_____

Parcel#_____ Lot#_____

This Section below to be completed by the Authorized Municipal Representative

CHECKLIST ITEMS

Is the project site located in a Flood Area? (Check one) yes_____ no_____

(Circle one)-----Residential Project or Commercial Project

Description of Work: _____

Zoning or Land Use Permit	Approved_____	Not applicable_____
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Stormwater Management	Approved_____	Not applicable_____
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Street cut/ Driveway	Approved_____	Not applicable_____
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Sewage/Onlot Permit	Approved_____	Not applicable_____
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Water Permit	Approved_____	Not applicable_____
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PennDot Highway Occupancy	Approved_____	Not applicable_____
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Floodplain Permit	Approved_____	Not applicable_____
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Other_____	Approved_____	Not applicable_____
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I certify that all required Municipal Codes, Ordinances and Regulations have been met and approval thereby is granted to issue the requested Permit.

Authorized Municipal Representative signature:_____

Date:_____

****NOTE THAT THIS PERMIT APPLICATION PACKAGE MUST BE COMPLETED AND THEN SUBMITTED WITH THE PROJECT CONSTRUCTION PLANS AND THE CORRESPONDING SUBMITTAL CHECKLIST****

City of DuBois

PLAN SUBMITTAL HANDOUT for SOLAR PANELS

The Project Submittal package is required to include all information on this handout. Check each applicable item. If not applicable, then mark item n/a. This form must be submitted with attached project drawings.

- ☐ Permit Application
- ☐ Municipal Prior Approval
- ☐ Two full sets of Building Plans drawn to scale
- ☐ Existing Certificate of Occupancy (if available)

****The following items are required to be included on the Building Plans****

(Check every item that will be included in the project or marked n/a as not applicable)

- ☐ System Description
 - ☐ Type of PV and Inverter
 - ☐ How is it wired
 - ☐ How is it mounted
- ☐ Specification sheets for all equipment
 - ☐ PV module
 - ☐ Inverter
 - ☐ PV mounting system
 - ☐ AC & DC disconnect
 - ☐ Combiner box
 - ☐ Battery
 - ☐ Charge controller
- ☐ Mechanical drawings
- ☐ Electrical drawings
- ☐ Wind loading calculations
- ☐ Weight of array
- ☐ Structural information about roof
- ☐ PV layout on roof
- ☐ Rack drawing from manufacturer
- ☐ Attachment plan
- ☐ Attachment detail (if attaching to a truss it requires approval of a registered design professional)
- ☐ Electrical 3-line diagram

Is the array to be mounted on a defined, permitted roof structure? ☐ Yes ☐ No

If No due to non-compliant roof or a ground mount, submit completed worksheet for structure.

Roof Information:

1. Is the roofing type lightweight (Yes = composition, lightweight, masonry, metal, etc.) ☐ Yes ☐ No

If No, submit completed worksheet for roof structure (No = heavy masonry, slate, etc.)

2. Does the roof have a single roof covering? ☐ Yes ☐ No

If No, submit completed worksheet for roof structure

3. Provide method and type of weatherproofing roof penetrations (flashing, caulk) _____

Mounting System Information:

1. Is the mounting structure an engineered product designed to mount PV modules? ☐ Yes ☐ No
If No, provide details of structural attachment certified by a design professional.

2. For manufactured mounting systems, fill out information on the mounting system below:

- a. Mounting System Manufacturer _____ Product Name and Model # _____
- b. Total Weight of PV Modules and Rails _____ lbs
- c. Total Number of Attachment Points _____
- d. Weight per Attachment Point (b / c) _____ lbs (if greater than 45 lbs, see worksheet)
- e. Maximum Spacing Between Attachment Points on a Rail _____ inches (see product manual for maximum spacing allowed based on maximum design wind speed)
- f. Total Surface Area of PV Modules (square feet) _____ ft²
- g. Distributed Weight of PV Module on Roof (b / c) _____ lbs/ft²
If distributed weight of the PV system is greater than 5 lbs/ft², see worksheet.

Ground Mounts:

- ☐ PA One Call
- ☐ Find customer-owned underground utilities (septic, phone, electric wiring (yard lights, pool, etc.), pool plumbing
- ☐ Rack manufacturer can supply footer designs based on your soil conditions and wind zone.
- ☐ For multiple ground-mounts, space them far enough apart to avoid shading each other.

****THIS COMPLETED FORM MUST BE SUBMITTED WITH PROJECT PLANS****

PV ARRAY INFORMATION (Guide Sec. 6)

NUMBER OF MODULES IN SERIES _____

NUMBER OF PARALLEL CIRCUITS _____

LOWEST EXPECTED AMBIENT TEMP _____ °C

HIGHEST CONTINUOUS TEMPERATURE _____ °C

_____MODULES IN SERIES
SOURCE-CIRCUIT

_____MODULES IN SERIES
SOURCE-CIRCUIT

_____MODULES IN SERIES
SOURCE-CIRCUIT

_____MODULES IN SERIES
SOURCE-CIRCUIT

FOR UNUSED SERIES STRINGS
PUT "N/A" In BLANK ABOVE

SEE GUIDE SECTION 10 FOR
INFORMATION ON MODULE
AND ARRAY GROUNDING

OCPD = OVERCURRENT PROTECTION DEVICE
(IF NO OCPD-PUT "N/A" IN RELEVANT BLANKS)

NATIONAL ELECTRICAL CODE® REFERENCES
SHOWN AS (NEC XXX.XX)

SOURCE-CIRCUIT COMBINER
RATINGS (IF USED)
MAX OCPD RATING = ____A
OCPD AMP RATING = ____A
OCPD VOLT RATING = ____V

DC DISCONNECT RATINGS
(See Guide Appendix B)
DISCO AMP RATING = ____A
DISCO VOLT RATING = ____V

INVERTER RATINGS (Guide Sec. 4)
INVERTER MAKE _____
INVERTER MODEL # _____
MAX DC VOLT RATING = ____V
MAX POWER @ 40°C = ____W
NOMINAL AC VOLTAGE = ____V
MAX AC CURRENT = ____A
MAX OCPD RATING = ____A

UTILITY SERVICE

M

MAIN OCPD

INVERTER OCPD

GROUNDING ELECTRODE

MAIN SERVICE PANEL

AC DISCONNECT RATINGS (IF USED)
(See Guide Appendix B)
DISCO AMP RATING = ____A
DISCO VOLT RATING = ____V

SEE NOTE 1 FOR INVERTER
CIRCUITS

AC DISCONNECT

SEE NOTE 2 FOR
INVERTER CIRCUITS

M

DC DISCONNECT

INVERTER

COMBINER

ROOFTOP J-BOX
(IF USED)

SEE NOTES FOR ARRAY CIRCUIT
WIRING (Guide Sec. 8)

CONDUIT TYPE _____
CONDUIT SIZE _____
CONDUCTOR TYPE (SEE BELOW)
CONDUCTOR SIZE ____AWG
NUMBER OF CONDUCTORS _____
(____Red, ____White, 1 Green) EGC
SIZE_AWG (NEC 250.122)

SEE NOTE 3 FOR INVERTER
CIRCUITS (Guide Sec. 8--disregard
if integral with inverter)
CONDUIT TYPE _____
CONDUIT SIZE _____
CONDUCTOR TYPE _____
CONDUCTOR SIZE ____AWG
NUMBER OF CONDUCTORS _____
(____Red, ____White, 1 Green)
EGC SIZE ____AWG (NEC 250.122)

DC GROUNDING
ELECTRODE
CONDUCTOR
SIZE ____AWG
(NEC 250.166,
Guide Sec. 10)

DC DISCONNECT

INVERTER

AC DISCONNECT

SEE NOTE 4 FOR INVERTER
CIRCUITS (Guide Sec. 8)
CONDUIT TYPE _____
CONDUIT SIZE _____
CONDUCTOR TYPE _____
CONDUCTOR SIZE ____AWG
NUMBER OF CONDUCTORS _____
(____Black, ____Red, ____White,
____Green)
EGC SIZE ____AWG (NEC 250.122)

SEE NOTE 5 FOR INVERTER OCPDs
BELOW, ALSO SEE GUIDE SECTION 9)

Service Panel Ratings
BUS AMP RATING = ____A
SERVICE VOLTAGE = ____V
MAIN OCPD RATING = ____A
INVERTER OCPD
AMPERE RATING = ____A

NOTES FOR INVERTER CIRCUITS (Guide Sec. 8):

1) IF UTILITY REQUIRES A VISIBLE-BREAK SWITCH, DOES THIS
SWITCH MEET THE REQUIREMENT? YES/NO (CIRCLE ONE)

2) IF GENERATION METER REQUIRED, DOES THIS METER
SOCKET MEET THE REQUIREMENT? YES/NO (CIRCLE ONE)

3) SIZE PHOTOVOLTAIC POWER SOURCE (DC) CONDUCTORS
BASED ON MAX CURRENT ON 690.53 SIGN OR OCPD RATING AT
DISCONNECT (IF SUPPLIED)

4) SIZE INVERTER OUTPUT CIRCUIT (AC) CONDUCTORS
ACCORDING TO INVERTER OCPD AMPERE RATING.

5) TOTAL OF _____ INVERTER OCPD(s), ONE FOR EACH
INVERTER, DOES TOTAL SUPPLY BREAKERS COMPLY WITH 120%
BUSBAR EXCEPTION IN 690.64(B)(2)(a)? YES/NO (CIRCLE ONE)

SIGNS—SEE GUIDE SECTION 7

SIGN FOR DC DISCONNECT

PHOTOVOLTAIC POWER SOURCE
RATED MPP CURRENT = ____A
RATED MPP VOLTAGE = ____V
MAX SYSTEM VOLTAGE = ____V
MAX CIRCUIT CURRENT= ____A

WARNING: ELECTRICAL SHOCK
HAZARD—LINE AND LOAD MAY BE
ENERGIZED IN OPEN POSITION

SIGN FOR AC DISCONNECT (if used)

SOLAR AC DISCONNECT
AC OUTPUT CURRENT = ____A
NOMINAL AC VOLTAGE = ____V

SIGN FOR INVERTER OCPD
AC POINT OF CONNECTION
AC OUTPUT CURRENT = ____A
NOMINAL AC VOLTAGE = ____V

NOTES FOR ARRAY CIRCUIT WIRING (Guide Sec. 8):

1.) THREE OPTIONS FOR SOURCE CIRCUIT CONDUCTOR TYPE (INSIDE CONDUIT—CIRCLE ONE)
THWN-2; XHHW-2; RHW-2

2.) 2005 ASHRAE FUNDAMENTALS 2% DESIGN TEMPERATURES DO NOT EXCEED 47°C IN THE
UNITED STATES (PALM SPRINGS, CA IS 44.1°C). FOR LESS THAN 9 CURRENT-CARRYING
CONDUCTORS IN ROOF-MOUNTED SUNLIT CONDUIT AT LEAST 0.5" ABOVE ROOF AND USING
THE OUTDOOR DESIGN TEMPERATURE OF 47°C OR LESS (ALL OF UNITED STATES),
a) 12 AWG, 90°C CONDUCTORS ARE GENERALLY ACCEPTABLE FOR MODULES WITH Isc OF 7.68
AMPS OR LESS WHEN PROTECTED BY A 12-AMP OR SMALLER FUSE.
b) 10 AWG, 90°C CONDUCTORS ARE GENERALLY ACCEPTABLE FOR MODULES WITH Isc OF 9.6
AMPS OR LESS WHEN PROTECTED BY A 15-AMP OR SMALLER FUSE.

ROOFTOP JUNCTION BOX
NEMA 3R MINIMUM REQUIRED
WITH WATERPROOF SPLICES
OR OTHER APPROVED
TERMINATION METHOD
(NEC 110.14; 300.6; 314)

SOURCE-CIRCUIT CONDUCTORS
OUTSIDE CONDUIT—MINIMUM 12 AWG
AND TWO TYPE OPTIONS—(CIRCLE ONE)
USE-2; PV WIRE/CABLE

PV MODULE RATINGS @ STC (Guide Sec. 5)

MODULE MANUFACTURER _____

MODULE MODEL # _____

MAX POWER-POINT CURRENT (Imp) = ____A

MAX POWER-POINT VOLTAGE (Vmp) = ____V

OPEN-CIRCUIT VOLTAGE (Voc) = ____V

SHORT-CIRCUIT CURRENT (Isc) = ____A

MAX SERIES FUSE (OCPD) = ____A

MAXIMUM POWER (Pmax) = ____W

MAX SYSTEM VOLTAGE (typ 600Vdc) = ____V

Voc TEMP COEFF = ____mV/°C or %/°C
(IF SUPPLIED, CIRCLE TYPE OF COEFF)

Contractor Name and Address:

Standard Electrical Diagram for
Small-Scale, Single-Phase PV Systems

Site
Name:
Address:_

System AC Size:

SIZE FSCM NO DWG NO REV
SCALE NTS Date: E1.1 0
Drawn By: Checked By: SHEET