

**ZONING BOARD OF ADJUSTMENT
PLANNING BOARD
PLAINFIELD, NEW HAMPSHIRE**

NOTICE IS HEREBY GIVEN that the Board of Adjustment will hold a public hearing on the following application on **Monday July 10th 2017 at 7:00pm at the Meriden Town Hall:**

Case 2017-05: Claudine Spencer request for special exception #24 Approved Solar Energy System. A single tracker style 4kw solar array unit is proposed for the #40 Hayward Road property consisting of a residence and outbuildings on 3.7 acres.

The full project file is available for public inspection at the town office. An electronic version of the application plans is available online at www.plainfieldnh.org/zba.htm

While not required to attend, abutters and interested parties are encouraged to attend either in person or by counsel and state reasons why the application should or should not be granted.

Notice prepared by Stephen Halleran on behalf of the
ZONING BOARD OF ADJUSTMENT/PLANNING BOARD
June 26th 2017

PLAINFIELD ZONING BOARD OF ADJUSTMENT
APPLICATION FOR APPEAL

PLEASE READ: This form should be completed after discussions with the town's zoning administrator about the proposal. If you have not already done so, please contact the zoning administrator (469-3201).

Applicant's name: Claudine M Spencer
Mailing address: PO Box 358 Plainfield, NH 03781

Property Street address: Map Lot
Tax Map / Lot Number: 108/20
Zoning district:
Property owner of record:

Type of appeal (check one):
 variance
 special exception # 24
 administrative decision

Applicants signature: Claudine M Spencer

Required Attachments: a) applicant signed description of the proposal.
b) site map(s) exterior/interior.
c) abutter list with mailing addresses.

Fee: application 55.00
notification ~~\$75~~
\$35 Total \$ 165

Hearing Date: 7/10/17

In order to be on the meeting agenda for the above date, your paid application must be received at the town office no later than Monday 6/26 (ZBA rule 9.3).

Office Use

date filed: 6/22
case number: 2017-05
attachments: n
fee paid: n



c. Proposal to install one Solar Tracker consisting of 16 panels. This unit is installed on a pedestal (see dimensions) with an overall height of 16' when it stands straight up which only happens at night. The average height of the vegetation is 25' to the north and west of its proposed location. There isn't any views from any abutter which would be obstructed in any way. The closest distance to an abutter is 58' to the north which would be the Tabers and there is a wall of vegetation 25' on that property line. (see pictures).

g. if and when the unit becomes unusable it would be removed from this site.

h. There will be a 4' high fence around the unit to keep animals and people away from it.

a. owner of property Claudia M. Spencer -
property in trust

b. Abutters: Breck + Mandy Tabor, The Guarants,
Patty Spencer + Todd Melo of 40.5 Hayward Rd.

tion 40 Hayward Rd, Plainfield, NH
art

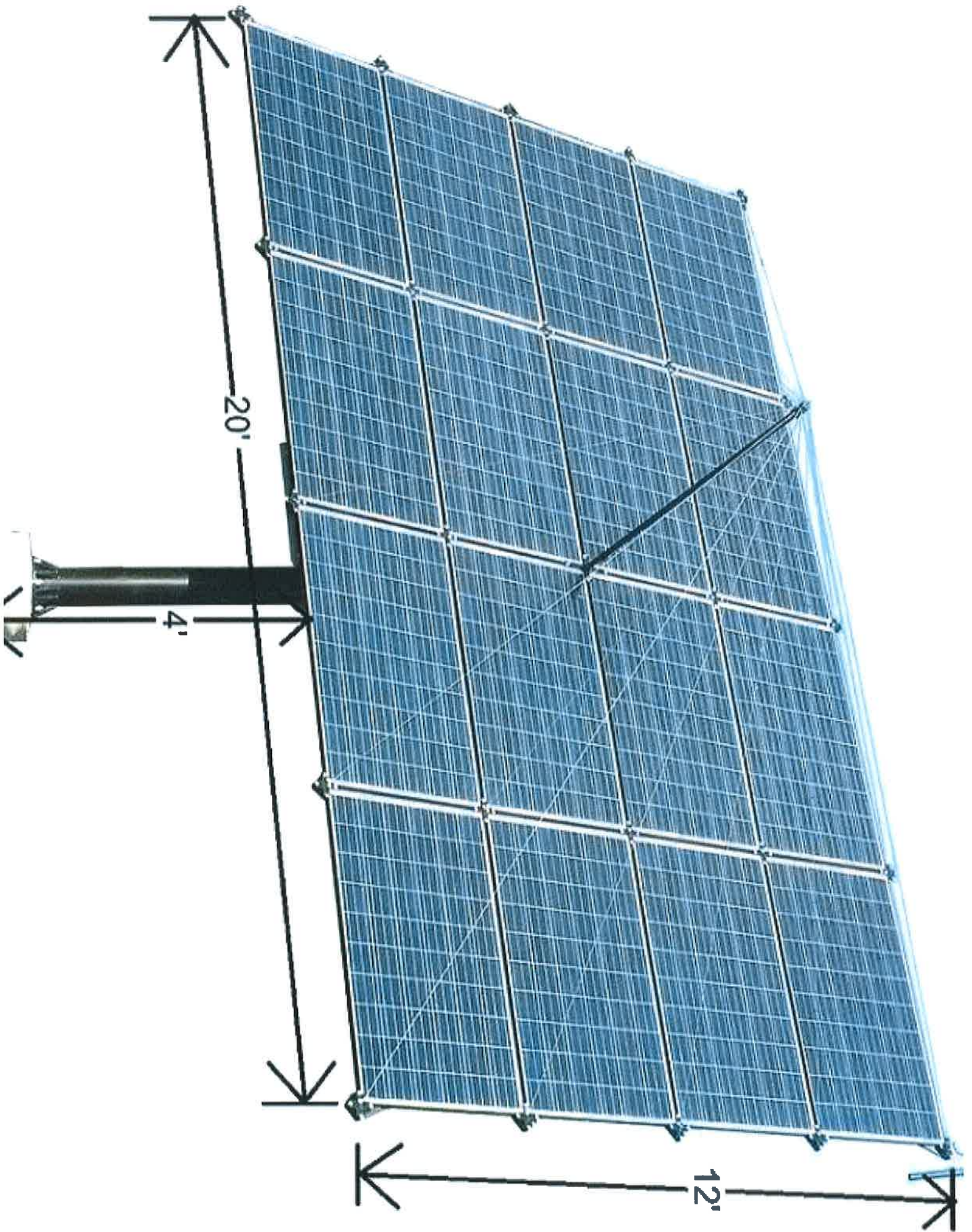
58'



PV Tracker location

Latitude: 43.529260°
Longitude: -72.357220°





TECHNICAL SPECIFICATION

Residential

Output	4.32 kW DC, 240 V AC single-phase	4.08 kW DC, 208/480 V AC three-phase
Inverter (single tracker)*	SolarEdge SE5000A-US (5 kW AC)	n/a
Inverter (multi-tracker)*	SolarEdge SE5000A-US (5 kW AC)	SolarEdge SE10KUS (10 kW AC) and SE20KUS (20 kW AC)
Modules*	16 Canadian Solar CS6K-270M-SD (270 W) with embedded SolarEdge OPJ300-LV optimizer (300 W)	16 CanadianSolar CS6P-255P (255 W) 8 SolarEdge P600 (600W)

SolarEdge Monitoring portal (website)

Tracking type Dual axis with automatic wind stow (>25 mph)

Drive system LINAK LA37 sealed electric linear actuator (IP66, maintenance free), Kinematics Manufacturing ZKE9C sealed electric slew drive zero-backlash (IP66, maintenance free)

Control system Solaflect Tracking Controller utilizing NREL Solar Position Algorithm, network enabled

Materials Powder coated steel, reinforced concrete

Dimensions Height 16 ft, swing radius 11 ft

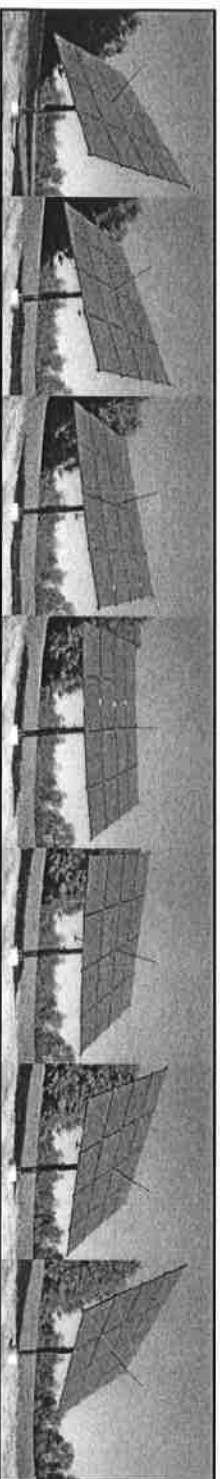
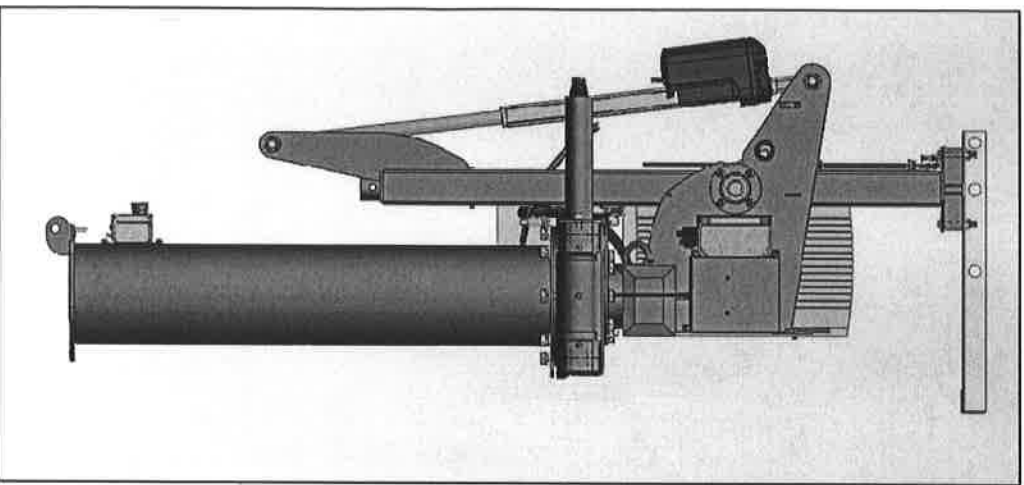
Maximum wind speed 115 MPH Ultimate Wind Speed

Codes and standards NEC, UL, NEMA, CE, FCC

Patents Patents and patents pending

*Flexibility in module and inverter choice, please inquire at info@solaflect.com

^Inquire about specifics at info@solaflect.com

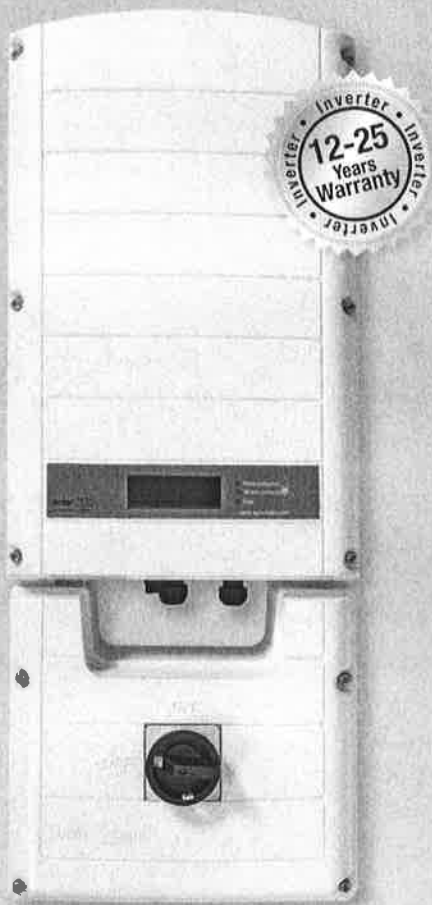




SolarEdge Single Phase Inverters

For North America

SE3000A-US / SE3800A-US / SE5000A-US / SE6000A-US /
SE7600A-US / SE10000A-US / SE11400A-US



INVERTERS

The best choice for SolarEdge enabled systems

- Integrated arc fault protection for NEC 2011 690.11 compliance
- Rapid shutdown for NEC 2014 690.12
- Superior efficiency (98%)
- Small, lightweight and easy to install on provided bracket
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless
- Outdoor and indoor installation
- Fixed voltage inverter, DC/AC conversion only
- Pre-assembled Safety Switch for faster installation
- Optional – revenue grade data, ANSI C12.1



Single Phase Inverters for North America

SE3000A-US / SE3800A-US / SE5000A-US / SE6000A-US /
SE7600A-US / SE10000A-US / SE11400A-US

	SE3000A-US	SE3800A-US	SE5000A-US	SE6000A-US	SE7600A-US	SE10000A-US	SE11400A-US	
OUTPUT								
Nominal AC Power Output	3000	3800	5000	6000	7600	9980 @ 208V 10000 @ 240V	11400	VA
Max. AC Power Output	3300	4150	5400 @ 208V 5450 @ 240V	6000	8350	10800 @ 208V 10950 @ 240V	12000	VA
AC Output Voltage Min.-Nom.-Max. ⁽¹⁾ 183 - 208 - 229 Vac	-	-	✓	-	-	✓	-	
AC Output Voltage Min.-Nom.-Max. ⁽²⁾ 211 - 240 - 264 Vac	✓	✓	✓	✓	✓	✓	✓	
AC Frequency Min.-Nom.-Max. ⁽³⁾	59.3 - 60 - 60.5							Hz
Max. Continuous Output Current	12.5	16	24 @ 208V 21 @ 240V	25	32	48 @ 208V 42 @ 240V	47.5	A
GFDI Threshold	1							A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes							Yes
INPUT								
Maximum DC Power (STC)	4050	5100	6750	8100	10250	13500	15350	W
Transformer-less, Ungrounded	Yes							
Max. Input Voltage	500							Vdc
Nom. DC Input Voltage	325 @ 208V / 350 @ 240V							Vdc
Max. Input Current ⁽²⁾	9.5	13	16.5 @ 208V 15.5 @ 240V	18	23	33 @ 208V 30.5 @ 240V	34.5	Adc
Max. Input Short Circuit Current	45							Adc
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600k Ω Sensitivity							
Maximum Inverter Efficiency	97.7	98.2	98.3	98.3	98	98	98	%
CEC Weighted Efficiency	97.5	98	97 @ 208V 98 @ 240V	97.5	97.5	97 @ 208V 97.5 @ 240V	97.5	%
Nighttime Power Consumption	< 2.5						< 4	W
ADDITIONAL FEATURES								
Supported Communication Interfaces	RS485, RS232, Ethernet, ZigBee (optional)							
Revenue Grade Data, ANSI C12.1	Optional ⁽³⁾							
Rapid Shutdown – NEC 2014 690.12	Yes							
STANDARD COMPLIANCE								
Safety	UL1741, UL1699B, UL1998, CSA 22.2							
Grid Connection Standards	IEEE1547							
Emissions	FCC part15 class B							
INSTALLATION SPECIFICATIONS								
AC output conduit size / AWG range	3/4" minimum / 16-6 AWG						3/4" minimum / 8-3 AWG	
DC input conduit size / # of strings / AWG range	3/4" minimum / 1-2 strings / 16-6 AWG						3/4" minimum / 1-3 strings / 14-6 AWG	
Dimensions with Safety Switch (HxWxD)	30.5 x 12.5 x 7.2 / 775 x 315 x 184						30.5 x 12.5 x 10.5 / 775 x 315 x 260	in / mm
Weight with Safety Switch	51.2 / 23.2		54.7 / 24.7				88.4 / 40.1	lb / kg
Cooling	Natural Convection				Natural convection and internal fan (user replaceable)	Fans (user replaceable)		
Noise	< 25						< 50	dB(A)
Min.-Max. Operating Temperature Range	-13 to +140 / -25 to +60 (-40 to +60 version available ⁽⁴⁾)							°F / °C
Protection Rating	NEMA 3R							

⁽¹⁾ For other regional settings please contact SolarEdge support.

⁽²⁾ A higher current source may be used; the inverter will limit its input current to the values stated.

⁽³⁾ Revenue grade inverter P/N: SExxxxA-US000NRR2 (for 7600W inverter:SE7600A-US002NRR2).

⁽⁴⁾ -40 version P/N: SExxxxA-US000NNU4 (for 7600W inverter:SE7600A-US002NNU4).



RoHS

BAKER, LANETTE M.
33 HAYWARD ROAD
PLAINFIELD, NH 03781

STEARNS, HEATHER
42 HAYWARD ROAD
PLAINFIELD, NH 03781

SPENCER, CLAUDINE M REV TR
SPENCER, CLAUDINE M TRUSTEE
PO BOX 358
PLAINFIELD, NH 03781

TABER, BRECKEN C
& MELINDA
PO BOX 155
PLAINFIELD, NH 03781

SPENCER, PATTY AND
MILO, TODD
PO BOX 357
PLAINFIELD, NH 03781

JOHNSON, DOUGLAS D
JOHNSON, ANDREW N
PO BOX # 29
PLAINFIELD, NH 03781