



Vermont Office
64 Main St. Montpelier, VT 05602 USA
Tel: 802-223-7804 Fax: 802-223-8980
www.alterisinc.com

Wednesday, January 20, 2010

Pam Allen
Green Mountain Power
163 Acorn Lane
Colchester, VT 05446-6611

Dear Pam,

Enclosed please find our interconnection application and supporting documentation for the Addison Solar Farm project in Ferrisburg, VT.

Documents include:

- 5,500 application and \$300 deposit
- Proof of site control
- Site Plan
- 1-line diagram stamped by Dan Crocket, PE
- Suntech solar panel data sheet
- PV Powered PVP260kW inverter data sheet
- PV Powered PowerVault data sheet
- Cooper transformer, load break switch, and fusing cut sheets

I will be principal contact for GMP's interconnection review. Dan Crocket, PE, will be our engineer of record. Since I will be out of the office until Feb 1, should you need additional information please contact Adam Smith, our senior electrical engineer, at 802-223-7804 x304 or asmith@alterisinc.com

Sincerely,

A handwritten signature in cursive script, appearing to read "LWS".

Leigh Seddon, V.P Engineering
cc: Ernest Pomerleau, Addison Solar Farm
Dan Crocket, Crockett Engineering
Adam Smith, Alteris Renewables
John Spencer, VEPP, Inc.

This correspondence contains confidential information intended for the named recipients only

STANDARD APPLICATION FOR INTERCONNECTION OF GENERATION RESOURCES IN PARALLEL TO THE ELECTRIC SYSTEM OF:

Green Mountain Power
(Interconnecting Utility)

Preamble and Instructions:

An owner of a generation resource who requests interconnection to a State- regulated distribution or transmission facility, must submit an application by hand delivery, mail, e-mail or fax to the Interconnecting Utility, as applicable as follows:

Interconnecting Utility: Green Mountain Power

Interconnecting Utility's Designated Contact Person: Pam Allen

Interconnecting Utility's Address: 163 Acorn Lane, Colchester, VT 05446-6611

Interconnecting Utility's Fax Number: 802-655-8410

Interconnecting Utility's E-Mail Address: allen@greenmountainpower.biz

An application is a Complete Application when it provides all applicable and correct information required below. (Additional information to evaluate a request for Interconnection may be required pursuant to the application process after the application is deemed complete).

Processing Fee:

There is a \$300 Application fee that must be submitted to the Interconnection Utility along with this Application.

Section 1. Applicant Information

A. Legal Name of Interconnecting Applicant (or, if an Individual, Individual's Name)

Name: Addison Solar Farm, LLC

Mailing Address: 69 College St.

City: Burlington State: VT Zip Code: 05401

Facility Location (if different from above): Monkton Road, Ferrisburg, VT

Telephone (Daytime): (802) 863 - 8210 (Evening): () -

Facsimile Number: 802/863-8219

E-Mail Address: epomerleau@vtrealstate.com

B. Alternative Contact Information (if different from Applicant)

Contact Name: Leigh Seddon
 Contact Title: V.P. Engineering
 Address: Alteris Renewables, Inc
64 Main St.
Montpelier, VT 05602
 Phone Number: 802-223-7804 x301
 Facsimile Number: 802-223-8980
 E-mail address: lseddon@alterisinc.com

C. Will the Generation Resource be used for any of the following:

To supply power to the Interconnection Requester? Yes No
 To supply power to others? Yes No

D. For generators installed at locations with existing electric service to which the proposed generator will interconnect, provide:

 (Local Electric Service Provider*) (Existing Account Number*)

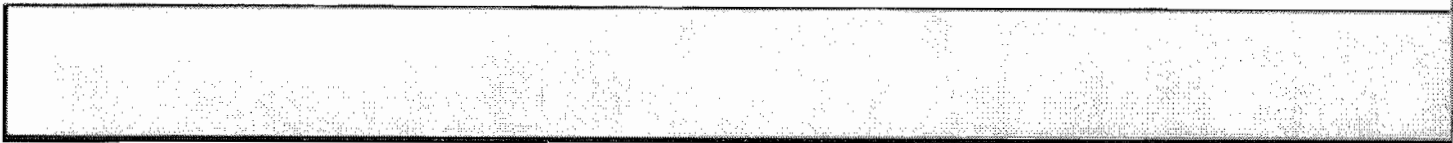
[*To be provided by Applicant if Local Electric Service Provider is different from Interconnecting Utility]

Contact Name: _____
 Contact Title: _____
 Address: _____

 Phone Number: _____
 Facsimile Number (if known): _____
 E-mail address (if known): _____

E. Requested Point of Interconnection: Monkton Road, GMP Pole 4371

F. Interconnection Applicant's requested in-service date: August 30, 2010



Section 2. Generator Qualifications

All data collected in Sections 2, 3, and 4 are applicable only to the generator facility, NOT the necessary interconnection facilities

Energy source: Solar _____ Wind _____ Hydro _____ Type (e.g. Run-of-River)
_____ Diesel _____ Natural Gas _____ Fuel Oil Other (state type) _____

Type of Generator: _____ Synchronous _____ Induction DC Generator or Solar
with Inverter

Generator Nameplate Rating: 1040 kW (Typical)

Generator Nameplate kVAR: 1040

Applicant or Customer-Site Load: none except SS kW (if none, so state) (Typical);
_____ (Reactive Load, if known)

Maximum Physical Export Capability Requested: 1040 kW

List components of the Generating Facility that are currently certified by a U.S. Department of Energy-approved laboratory and/or listed by the Underwriters Laboratory:

Equipment Type (Identify)	UL Listing or U.S. Lab Certification
1. <u>STP-200 PV module</u>	<u>UL1741</u>
2. <u>MV-260 inverters</u>	<u>UL1741 IEEE1547</u>
3. <u>Cooper transformer</u>	<u>ANSI, FM</u>
4. <u>Cooper Load break switch</u>	<u>IEEE, IEC</u>
5. _____	_____

Section 3. Generator Technical Information

Generator (or solar collector) Manufacturer, Model Name & Number: Suntech, STP200-18/Ub-1
Version Number: 5,236 200-watt modules total

Nameplate Output Power Rating in kW: (Summer) 1047.2 (Winter) 1047.2

Nameplate Output Power Rating in kVA: (Summer) _____ (Winter) _____

Nameplate Output Power Rating: 1040 kW @ 25 °C temp. rise above ambient 25 °C

Nameplate Output Power Rating: _____ kVA @ _____ °C temp. rise above ambient _____ °C

Individual Generator Power Factor

Rated Power Factor Leading: >.99

Rated Power Factor Lagging: >.99

Total Number of Generators in Wind Farm to be interconnected pursuant to this application:
n/a

Elevation: 300' Single phase: _____ Three phase: 480/12.47kV

Inverter Manufacturer, Model Name & Number (if used): PV Powered, PVP260kW, Qty 4

List of Adjustable Set points for the protective equipment or software: n/a

Generator Characteristic Data (for rotating machines): n/a

[Note: For Wind Generators not reasonably expected to be eligible for Fast Track, a completed General Electric Company Power Systems Load Flow (PSLF) data sheet must be supplied with the application.]

For Synchronous and Induction Generators:

Direct Axis Transient Reactance, X'd: _____ P.U.
 Direct Axis Unsaturated Transient Reactance, X'di: _____ P.U.
 Direct Axis Subtransient Reactance, X''d: _____ P.U.
 Generator Saturation Constant (1.0): _____
 Generation Saturation Constant (1.2): _____
 Negative Sequence Reactance: _____ P.U.
 Zero Sequence Reactance: _____ P.U.
 kVA Base: _____
 RPM Frequency: _____

Additional information for Induction Generators:

*Field Volts _____
 *Field Amperes _____
 *Motoring Power (kW) _____
 *Neutral Grounding Resistor (If Applicable) _____
 *I22t or K (Heating Time Constant) _____
 *Rotor Resistance _____
 *Stator Resistance *Stator Reactance _____
 *Rotor Reactance *Magnetizing Reactance _____
 *Short Circuit Reactance _____
 *Exciting Current _____
 *Temperature Rise _____
 *Frame Size *Design Letter _____
 *Reactive Power Required In Vars (No Load) _____
 *Reactive Power Required In Vars (Full Load) _____
 *Total Rotating Inertia, H: _____ Per Unit on kVA Base

[*Note: Please contact Interconnecting Utility prior to submitting the Application, to determine if the specified information above is required.]

Excitation & Governor System Data for Synchronous Generators only

Provide either a copy of the manufacturer's block diagram or appropriate IEEE model block diagram of excitation system, governor system and power system stabilizer (PSS) in accordance with the regional reliability council criteria. A PSS may be determined to be required by applicable studies.

Section 4. Interconnection Equipment Technical Data Information

Will a transformer be used between the generator and the point of interconnection? Yes
 No

Will the transformer be provided by Interconnection Applicant? Yes No

Transformer Data (if applicable. for Interconnection Applicant-Owned Transformer): Cooper

Is the transformer: _____ single phase three phase?

Size: 1000 kVA

Transformer Impedance: 5.75 % on 1000 kVA Base

If Three Phase:

Transformer Primary: 12.47kVVolts Delta _____ Wye _____ Wye Grounded

Transformer Secondary: 480 Volts _____ Delta _____ Wye Wye Grounded

Transformer Fuse Data (optional - Interconnection Requester may work with Interconnecting Utility to properly size any fuses at the Point of Interconnection): ECI Bayonet Fuse
spec to be provided

(Attach copy of fuse manufacturer's Minimum Melt & Total Clearing Time-Current Curves)

Manufacturer: _____ Type: _____ Size: _____
Speed: _____

Interconnecting Circuit Breaker (if applicable): n/a

Manufacturer: _____ Type: _____ Load Rating: _____ Interrupting Rating: _____
Trip Speed: _____
(Amps) (Amps)
(Cycles)

Current Transformer Data (if applicable): CT Cabinet provided by Owner
Metering to be specified by GMP
(Enclose copy of Manufacturer's Excitation & Ratio Correction Curves)

Manufacturer: _____ Type: _____ Accuracy Class: _____ Proposed Ratio
Connection: _____

Manufacturer: _____ Type: _____ Accuracy Class: _____ Proposed Ratio
Connection: _____

Potential Transformer Data (if applicable): n/a

Manufacturer: _____ Type: _____ Accuracy Class: _____
Proposed Ratio Connection: _____

Manufacturer: _____ Type: _____ Accuracy Class: _____
Proposed Ratio Connection: _____

Section 5. General Technical Information

Enclose copy of site electrical One-Line Diagram showing the configuration of all generating facility equipment, current and potential circuits, and protection and control schemes.

Is one-line diagram enclosed? Yes

[Note: This one-line diagram must be signed and stamped by a licensed Professional Engineer if the generating facility is larger than 150 kW.]

Enclose copy of any site documentation that indicates the precise physical location of the proposed generating facility (e.g., USGS topographic map or other diagram or documentation).

Proposed Location of Protective Interface Equipment on Property:
(include address if different from Application address) _____

Enclose copy of any site documentation that describes and details the operation of the protection and control schemes. Is any available documentation enclosed? Yes

Enclose copies of schematic drawings for all protection and control circuits, relay current circuits, relay potential circuits, and alarm/monitoring circuits (if applicable).

Are schematic drawings enclosed? Yes

Enclose documentation of site control, showing at least one of the following: (a) ownership of, a leasehold interest in, or a right to develop a site for the purpose of constructing a Generation Resource; (b) an option to purchase or acquire a leasehold site for such purpose; or (c) an exclusivity or other business relationship between the Generation Resource and the entity having the right to sell, lease or grant the Generation Resource the right to possess or occupy a site for such purpose.

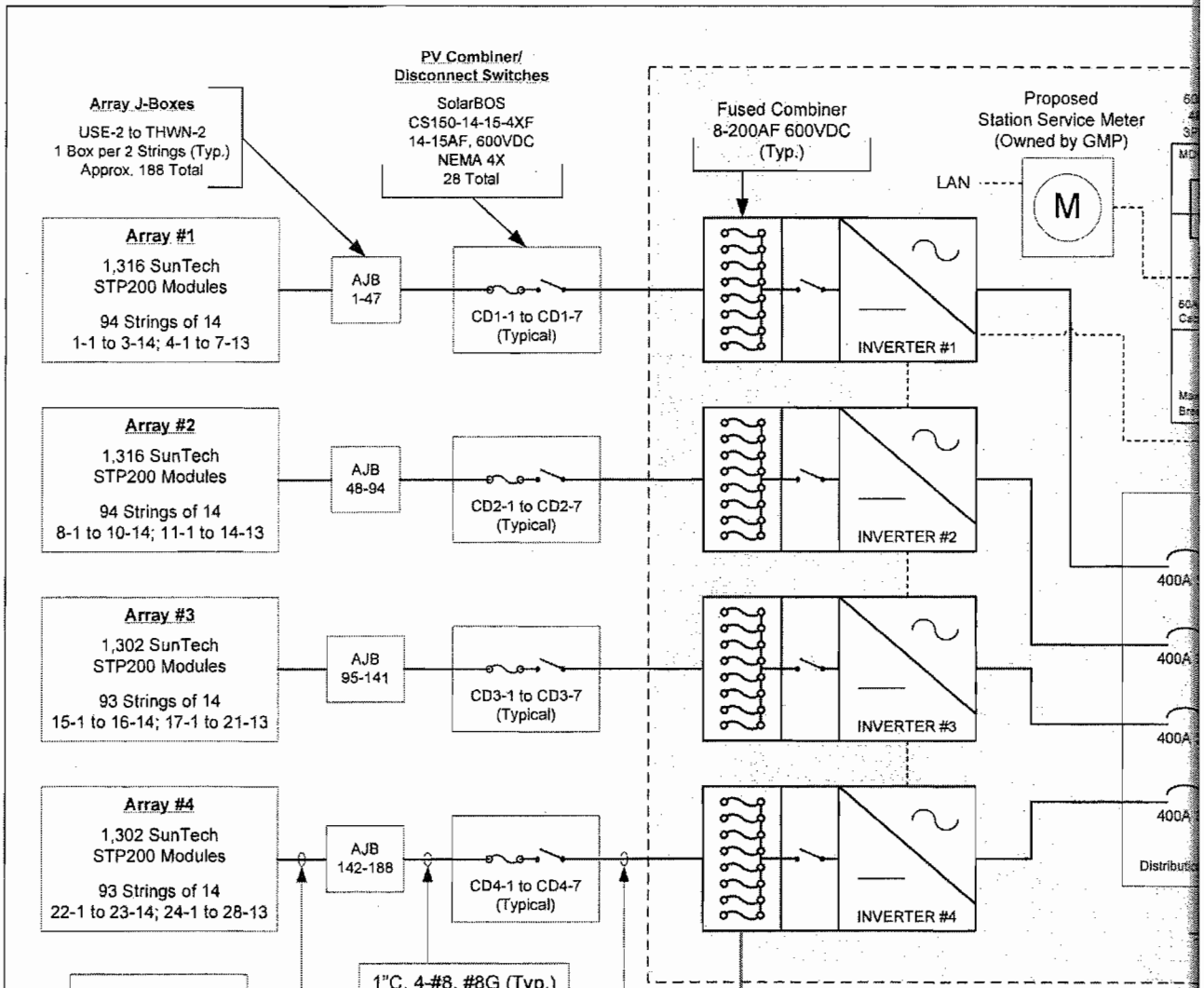
Section 6. Applicant Signature

I hereby certify that, to the best of my knowledge, all the information provided in the Interconnection Application is true and correct.

Signature of Applicant: B. W. Welch Date: 1/18/2010

Attachment B
Documentation of Site Control

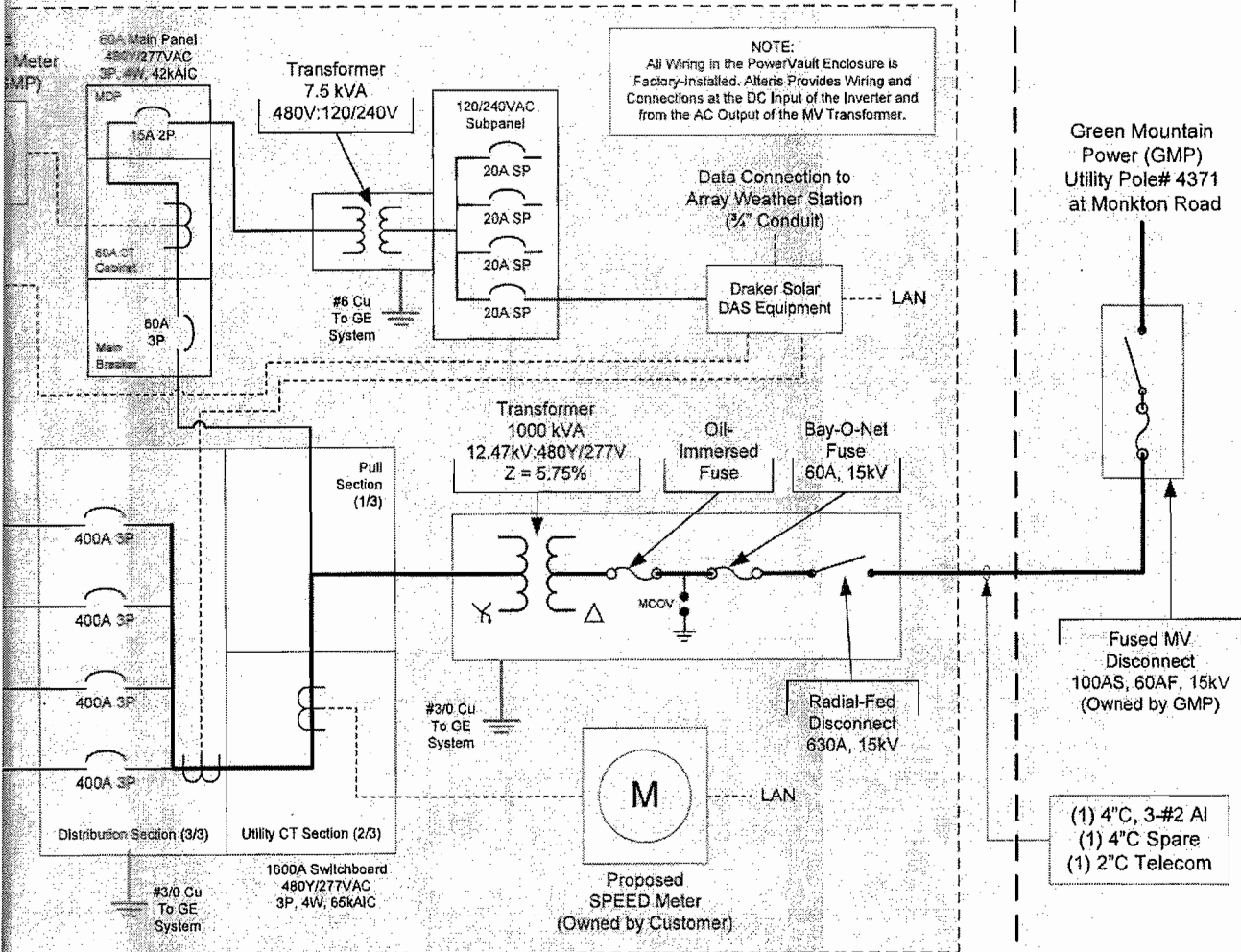
A Warranty Deed dated October 22, 1998 from Ernest A Pomerleau to F.I.C, LLC (F.I.C does business as Pomerleau Real Estate). The property is described as a 15.9 acre parcel, more or less, located on the westerly side of U.S. Route 7 and the southerly side of Monkton Road in the Town of Ferrisburgh, as depicted on a Plan entitled "A Survey of Land of Harland & Jeanne Bodette To Be Deeded to Ernest Pomerleau in the Town of Ferrisburgh, Vermont." The Warranty Deed is recorded at Volume 89 Page 529, and the Plan at Volume 5 Page 23, of the Ferrisburgh Town Land Records.



PV Powered PowerVault M
 (4) PVP260kW Inverters, 301A ea
 Power Factor >0.99, THD < 5%
 Internal DC GFFD
 Integral Fused DC Subcom
 UL 1741/IEEE 1547 Lists

Solar PV System Summary	
1,047.2 kW DC STC	
5,236 SunTech STP200-18/Ub-1 Modules	
374 Strings of 14	
Array Tilt = 30°, Azimuth = 180° True	





NOTE:
All Wiring in the PowerVault Enclosure is Factory-Installed. Alteris Provides Wiring and Connections at the DC Input of the Inverter and from the AC Output of the MV Transformer.

Green Mountain Power (GMP)
Utility Pole# 4371
at Monkton Road

PowerVault MV-1040kW
Inverters, 301A ea. 480VAC
PF 0.99, THD <3%
1000 DC GFPD
1000 DC Subcombiner
UL E 1547 Listed

Equipment Supplied
and Installed by
Solar Contractor

Primary
Service and
Protective
Equipment
(Owned by
GMP)

NOT FOR CONSTRUCTION



DRAWING	One-Line Electrical	ORIGINAL DRAWN BY	LWS
CUSTOMER	Addison Solar Farm Pomerleau Real Estate Ferrisburg, VT 05456	ORIGINAL DATE	1-4-10
SCALE	NONE	REVISED BY	AJS
REV. NO.	1	REVISION DATE	1-14-10



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