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STANDARD FAST TRACK AND STUDY PROCESS GENERATOR INTERCONNECTION AGREEMENT

This Interconnection Agreement (this "***Agreement***"), dated as of February 5, 2024, (the "***Effective Date***"), is entered into by and between The Connecticut Light and Power Company d/b/a Eversource Energy, a specially chartered Connecticut corporation with a principal place of business at 107 Selden St, Berlin, CT, 06037 (the "***Electric Distribution Company***" or "***EDC***"), **1050 Day Hill Rd Project, LLC,** (the "***Operator***") with a principal place of business at **921 E Fort Avenue, Suite 120, Baltimore, Maryland 21230** and **Aero Gear, Inc.,** with a principal place of business at **1050 Day Hill Rd, Windsor, CT 06095** (the "Customer"). The EDC, the Operator and the Customer are collectively referred to herein as the "***Parties***" and individually as a "***Party***." Any capitalized term used but not defined in this Agreement shall have the meaning ascribed to such term in the Guidelines for Generator Interconnection attached hereto as Appendix A, as may be amended from time to time (the "***Guidelines***").

1. Basic Understandings.

1.1. The Generator owns and/or operates or plans to construct a Generating Facility at **1050 Day Hill Rd, Windsor, CT 06095, Site ID 249194004,** as depicted in Appendix H (the "***Facility***"). A description of the Facility as studied, and incorporating any design changes approved in accordance with Section 1.4, is attached hereto as Appendix B (the "***Facility Description***").

1.2. The subject matter of this Agreement pertains to the Interconnection of the Facility to the EPS. This Agreement does not relate to any other obligation of the Operator or the Customer unrelated to the Interconnection of the Facility. Apart from this Agreement, (a) the Operator is responsible for all arrangements to effect any deliveries of electric energy from the Facility in accordance with the appropriate retail or FERC-jurisdictional tariffs and (b) the Operator or the Customer is responsible for arranging for its purchase of retail power (such as back-up or stand-by power).

1.3. This Agreement does not cover sales of power, capacity, energy or market products generated from the Facility. If the Operator intends to sell energy or ancillary services from the Facility, to a party other than the Customer or the Customer's successor or assign, it must provide written notice to the EDC of such intention at least sixty (60) days prior to the effectuation of such sale. Furthermore, the EDC may require the Operator and the Customer to enter into a new Interconnection agreement prior to such sale which may or may not require approval from FERC.

1.4. Any changes to the design of the Facility as it is described and specified in the application submitted by the Operator to the EDC with respect to such Facility (the "***Application***") must be approved by the EDC in writing prior to the implementation of such design changes. Only design changes approved in accordance with this Section 1.4 shall be implemented.

1.5. The Operator may not operate the Facility in parallel with the EPS until: (a) the conditions for initial parallel operation of the Facility set forth in Appendix C have been met; (b) commissioning and testing of the Facility has been completed in accordance with the Guidelines and to the satisfaction of the EDC; (c) the Operator has paid the EDC all funds due pursuant to paragraphs 5.3.1 and 5.3.2 of this Agreement; and (d) the EDC has provided formal written authorization in accordance with the Guidelines stating that operation of the Facility in parallel with the EPS is authorized by the EDC (the "***Authorization Date***"). Such written authorization

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will not be effective unless accompanied by a description of the Facility that incorporates all design changes to the Facility since the Application was submitted to the EDC (and not specified therein), including all design changes made during construction.

1.6. The Operator shall obtain each consent, approval, authorization, order or acceptance from FERC necessary for the Operator or any entity that, directly or indirectly, through one or more intermediaries, controls, or is controlled by, or is under common control with the Operator (each, an "***Affiliate***") to sell any power, capacity, energy or market products from the Facility into the wholesale power market (collectively, "***Wholesale Sales***") prior to making any such sales. If the Operator intends to make Wholesale Sales, then the Operator shall provide written notice to the EDC at least sixty (60) days prior to making any Wholesale Sales. The Operator shall indemnify, defend and hold harmless the EDC, its trustees, directors, officers, employees, agents and affiliates from any costs, damages, fines or penalties, including reasonable attorneys' fees, directly resulting from Operator 's or its Affiliate's non-compliance with any provision of this Section 1.6; provided, however, that the indemnification obligation shall be subject to the limitation of liability set forth in Section 14.

1.7. All parties expressly agree and acknowledge, for purposes of this Interconnection Agreement, that Customer does not and will not own, manage or operate the Facility and undertakes no duty attendant to ownership, management or operation of the Facility. In the event the Operator fails to manage or operate the Facility in accordance with this Agreement or permanently abandons the Facility, this Agreement may be terminated pursuant to Section 4.

2. Entire Agreement.

2.1. This Agreement, including any attachments or appendices, is entered into pursuant to the Guidelines.

2.2. This Agreement, the Guidelines, and the relevant EDC Tariffs, Terms and Conditions represent the entire understanding between the Parties as to the subject matter of this Agreement.

2.3. Each Party hereby represents that in entering into this Agreement, it has not relied on any promise, inducement, representation, warranty, agreement or other statement not set forth in this Agreement, the Tariffs, Terms and Conditions, or the Guidelines.

2.4. In the event of a conflict between this Agreement, the Guidelines and/or the Tariffs, Terms and Conditions, the Tariffs, shall take first precedent, followed by the Terms and Conditions, followed by the Guidelines, and lastly this Agreement.

3. Term.

3.1. This Agreement is effective as of the Effective Date. The Agreement shall continue in full force and effect until terminated pursuant to Section 4.

4. Termination.

4.1. This Agreement may be terminated under the following conditions:

4.1.1. The Parties may mutually terminate this Agreement at any time upon the execution of an agreement to terminate this Agreement.

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4.1.2. The Operator or the Customer may terminate this Agreement at any time by providing sixty (60) days written notice to all other Parties.

4.1.3. Each Party may terminate this Agreement immediately upon the occurrence of an Event of Default (as such term is defined in Section 20.1) by one of the other Parties, subject to the notice requirement set forth in Section 20.2(c).

4.1.4. The EDC may terminate this Agreement if the Operator: (a) operates the Facility in parallel with the EPS prior to the Authorization Date; (b) fails within six months of testing to receive authorization from the EDC to operate in parallel with the EPS; (c) does not construct the Facility in accordance with the Facility Description; (d) modifies the Facility without the written approval of the EDC; (e) fails to energize the Facility within twelve months of the Authorization Date; or (f) permanently abandons the Facility. For the purposes of this Agreement, the Operator's failure to operate the Facility for any consecutive twelve month period after the Authorization Date shall be deemed a permanent abandonment.

4.1.5. The EDC may terminate this Agreement if the Operator fails to correct an Emergency Condition (as such term is defined in Section 7.1.1) or a Non-Emergency Adverse Operating Effect (as such term is defined in Section 7.1.4) within ninety (90) days from the date on which the EDC disconnected the Facility due to such event.

4.2. Survival of Obligations. The termination of this Agreement shall not relieve any Party of its liabilities and obligations, owed or continuing at the time of termination

4.3. Related Agreements. Any agreement attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.

5. General Payment Terms.

5.1. Interconnection Costs. The Operator is responsible for paying all costs associated with Interconnection of the Facility, including (a) testing costs, (b) costs associated with installing, testing and maintaining the communications infrastructure necessary to provide protection and/or monitoring of the Generating Facility (collectively, the "***Communications Costs***"), (c) construction, modification or upgrade costs necessary to accommodate the Interconnection (collectively, the "***Construction Costs***"), and (d) any ongoing maintenance costs and other charges deemed necessary by the EDC to maintain the Interconnection (all such costs described in this sentence, the "***Interconnection Costs***"). The EDC shall notify the Operator in the event the Construction Costs exceed 110% of the estimate of such costs provided by the EDC to the Operator in the Construction Agreement (as such term is defined below), facility study report or other written understanding of the Parties.

5.2. Initial Cost Estimate. Attached hereto as Appendix D is a good-faith estimate of the initial Interconnection Costs (the "***Initial Cost Estimate***").

5.3. Billing and Payment Procedures for Initial Interconnection Costs.

5.3.1. The Operator shall pay the EDC the amount set forth in the Initial Cost Estimate (the "***Initial Payment***") within thirty (30) days of the Effective Date.

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5.3.2. Within thirty (30) days following the date on which the Facility is first connected to the EPS (the "***Initial Interconnection***"), the EDC shall provide the Operator with a final accounting report detailing any Underpayment (as such term is defined below) or Overpayment (as such term is defined below) made by the Operator with respect to the Initial Payment. To the extent that the actual Interconnection Costs accrued up to the date of the Initial Interconnection exceed the Initial Payment (an "***Underpayment***"), the EDC shall invoice the Operator for an amount equal to the Underpayment and the Operator shall pay such amount to the EDC within thirty (30) days of such invoice. To the extent that the Initial Payment exceeds the actual Interconnection Costs accrued up to the date of the Initial Interconnection (an "***Overpayment***"), the EDC shall refund to the Operator an amount equal to the Overpayment within thirty (30) days of the provision of such final accounting report.

5.4. Billing and Payment Procedures for Ongoing Interconnection Costs. All Interconnection Costs incurred following the Initial Interconnection shall hereinafter be referred to as the "***Ongoing Costs***," and shall include maintenance, testing and Communications Costs, as well as any Construction Costs not included in either (a) the Construction Agreement by and between the Operator and the Company, dated as of [N/A], a copy of which is attached hereto as Appendix E (the "***Construction Agreement***"), or (b) the Initial Cost Estimate. The EDC shall invoice the Operator for all Ongoing Costs as such costs are incurred, and the Operator shall pay each such invoice within thirty (30) days of receipt, or as otherwise agreed to by the Operator and the EDC.

5.5. Milestones. The Operator, the Customer and the EDC shall agree on milestones for which each is responsible and list them in Appendix F of this Agreement. The Operator and the EDC's obligations under this provision may be extended by written agreement. If either the Operator or the EDC anticipates that it will be unable to meet a milestone for any reason other than a Force Majeure Event (as such term is defined in Section 18.1), it shall immediately notify the other of the reason(s) for not meeting the milestone and (a) propose the earliest reasonable alternate date by which it can attain this and future milestones, and (b) requesting appropriate amendments to Appendix F. If either the Operator or the EDC is affected by the failure to meet a milestone, it shall not unreasonably withhold agreement to such an amendment unless (i) it will suffer significant uncompensated economic or operational harm from the delay, (ii) attainment of the same milestone has previously been delayed, or (iii) it has reason to believe that the delay in meeting the milestone is intentional or unwarranted notwithstanding the circumstances explained by the proponent of the amendment.

5.6. Distribution Upgrades. The EDC shall design, procure, construct, install, and own the upgrades described in Appendix G of this Agreement (the "***Upgrades***"). If the EDC and the Operator agree in writing, the Operator may construct Upgrades that are located on land owned by the Customer. The actual cost of the Upgrades, including overheads, shall be directly assigned to the Operator. The Operator shall be responsible for its share of all reasonable expenses, associated with operating, maintaining, repairing, and replacing such Upgrades, except to the extent that a retail tariff of, or an agreement with, the EDC provides otherwise.

5.7. Taxes. The Parties shall comply with all applicable federal and state tax laws.

6. Operating Requirements.

6.1. General Operating Requirements. The Operator shall construct, interconnect, operate, and maintain the Facility and all accompanying and necessary facilities in accordance with (a) all

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applicable laws and requirements, Good Utility Practice, the Guidelines, Tariffs, and the Terms and Conditions; (b) applicable specifications that meet or exceed those provided by the National Electrical Safety Code, the American National Standards Institute, IEEE, Underwriter's Laboratory and ISO-NE operating requirements[1] in effect at the time of construction and other applicable national and state codes and standards. Following the initial Interconnection of the Facility, the Operator shall comply with all special operating requirements set forth in Appendix C. In the event that the EDC believes that the cause of any problem to the EPS originates from the Facility, the EDC has the right to install monitoring equipment at a mutually agreed upon location to determine the exact cause of the problem. The cost of such monitoring equipment shall be borne by the EDC, unless such problem or problems are demonstrated to be caused by the Facility in which case the costs of the monitoring equipment shall be borne by the Operator, or if the test was performed at the request of the Operator or the Customer in which case the costs of the monitoring equipment shall be borne by the requesting Party. If the operation of the Facility interferes with the EDC's or its customers' operations (including that of the Customer), the Operator must immediately take corrective action to stop such interference and shall not operate the Facility until such time as such interference is stopped. If the Operator fails to take immediate corrective action pursuant to the preceding sentence, then the EDC may disconnect the Facility as set forth in the Guidelines.

6.2. No Adverse Effects; Non-interference.

6.2.1. The EDC shall notify the Operator and the Customer if the EDC has evidence that the operation of the Facility could cause disruption or deterioration of service to other customers served from the EPS or if operation of the Facility could cause damage to the EPS or other affected systems. (For example, deterioration of service could be caused by, among other things, harmonic injection in excess of IEEE STD 519, as well as voltage fluctuations caused by large step changes in loading at the Facility.) The Operator shall cease operation of the Facility until such time as the Facility can operate without causing disruption or deterioration of service to other customers served from the EPS or causing damage to the EPS or other affected systems. Each Party shall promptly notify the other Party in writing of any condition or occurrence relating to such Party's equipment or facilities which, in such Party's reasonable judgment, could adversely affect the operation of the other Party's equipment or facilities.

6.2.2. The EDC shall operate the EPS in such a manner so as to not unreasonably interfere with the operation of the Facility. The Operator shall protect itself from normal disturbances propagating through the EPS in accordance with Good Utility Practice. Examples of such disturbances include single-phasing events, voltage sags from remote faults on the EPS, and outages on the EPS. The Customer shall protect itself from normal disturbances propagating through the EPS in accordance with applicable law and tariff requirements.

6.3. Safe Operations and Maintenance.

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6.3.1. General. The Operator shall operate, maintain, repair, and inspect, and shall be fully responsible for, the Facility or facilities that it now or hereafter may own unless otherwise specified in this Agreement. Each Party shall be responsible for the maintenance, repair and condition of its respective lines and appurtenances on such Party's respective side of the Point of Interconnection. The EDC and the Operator shall each provide equipment on its respective side of the Point of Interconnection that adequately protects the EPS, personnel, and other persons from damage and injury.

6.3.2. Ongoing Maintenance; Testing of the Facility. The Parties hereby acknowledge and agree that maintenance testing of the Facility's protective relaying is imperative for safe, reliable operation of the Facility. The test cycle for such protective relaying shall not be less frequent than once every sixty (60) calendar months or the manufacturer's recommended test cycle, whichever is more frequent. The Operator shall provide copies of these test records to the EDC within thirty (30) days of the completion of such maintenance testing. The EDC may disconnect the Facility from the EPS if the Operator fails to adhere to this Section 6.3.2. The Operator is responsible for all ongoing maintenance reporting, compliance and costs associated with the Facility.

6.4. Access.

6.4.1. Emergency Contact Information. Each Party shall provide to the other Parties and shall update as necessary a telephone number that can be used at all times to allow the other Parties to report an emergency.

6.4.2. EDC Right to Access EDC-Owned Facilities and Equipment. The Operator and the Customer shall allow the EDC access to the EDC's equipment and the EDC's facilities located on the Facility's premises (the "***EDC Property***"). To the extent that the Operator or the Customer does not own all or part of the real property on which the EDC is required to locate EDC Property in order to serve the Facility, the Operator and the Customer shall procure and provide to the EDC all necessary rights, including easements, for access to the EDC Property.

6.4.3. Isolation Device. The EDC shall have access to the Isolation Device of the Facility at all times. Operator is responsible for obtaining any and all property rights, including easements, which will permit the EDC access to such Isolation Device.

6.4.4. Right to Review Information. The EDC shall have the right to review and obtain copies of the Operator's operations and maintenance records, logs, or other information such as unit availability, maintenance outages, circuit breaker operation requiring manual reset, relay targets and unusual events pertaining to the Facility or its Interconnection with the EPS. The EDC shall treat such information as confidential and shall use such information solely for the purposes of determining compliance with the operating requirements set forth in this Section 6.

7. Disconnection.

7.1 Temporary Disconnection.

7.1.1 Emergency Conditions. The EDC may immediately and temporarily disconnect the Facility from the EPS without prior notification in cases where, in the reasonable

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judgment of the EDC, the continued connection of the Facility is imminently likely to (a) endanger persons or damage property or (b) cause an adverse effect on the integrity or security of, or damage to, the EPS or to other electric power systems to which the EPS is directly connected (each, an "***Emergency Condition***"). Upon becoming aware of an Emergency Condition, the Operator is solely responsible to (i) immediately suspend operation of the Facility and (ii) promptly provide written notice to the EDC of such Emergency Condition and suspension (an "***Emergency Condition Notice***"). The Emergency Condition Notice shall describe (A) such Emergency Condition, (B) the extent of any damage or deficiency, (C) the expected effect on the operation of each Party's facilities and operations, (D) the anticipated duration of such Emergency Condition and (E) the necessary corrective action. After temporary disconnection or suspension pursuant to this Section 7.1.1, the Facility may not be reconnected or resume operation until the EDC and Operator are both satisfied that the cause of such Emergency Condition has been corrected. If the Operator fails to correct the Emergency Condition within ninety (90) days from the time that the EDC has temporarily disconnected the Facility due to such an event, the EDC may elect to terminate this Agreement in accordance with Section 4.1.5 and/or permanently disconnect the Facility in accordance with Section 7.2.2

7.1.2 Routine Maintenance, Construction and Repair. The EDC shall have the right to disconnect the Facility from the EPS when necessary for routine maintenance, construction and repairs to the EPS. The EDC shall provide the Operator and the Customer with a minimum of seven (7) days prior written notice of such disconnection, consistent with the EDC's planned outage notification protocols. If the Operator requests disconnection by the EDC at the Point of Common Interconnection, the Operator will provide a minimum of seven (7) days prior written notice to the EDC. The EDC shall make reasonable efforts to work with Operator and the Customer to schedule a mutually convenient time or times to temporarily disconnect the Facility pursuant to this Section 7.1.2.

7.1.3 Forced Outages. During any forced outage, the EDC shall have the right to temporarily disconnect the Facility from the EPS in order to effect immediate repairs to the EPS. The EDC shall use reasonable efforts to provide the Operator and the Customer with prior notice of such temporarily disconnection; provided, however, the EDC may temporarily disconnect the Facility from the EPS without such notice pursuant to this Section 7.1.2 in the event circumstances do not permit such prior notice to the Operator or the Customer.

7.1.4 Non-Emergency Adverse Operating Effects. The EDC may temporarily disconnect the Facility if it is having a non-emergency adverse operating effect on the EPS or on other customers (a "***Non-Emergency Adverse Operating Effect***") and the Operator fails to correct such Non-Emergency Adverse Operating Effect within forty-five (45) days of the EDC's written notice to the Operator requesting correction of such Non-Emergency Adverse Operating Effect. If the Operator fails to correct a Non-Emergency Adverse Operating Effect within ninety (90) days from the time that the EDC has temporarily disconnected the Facility due to such an event, the EDC may elect to terminate this Agreement in accordance with Section 4.1.5 and/or permanently disconnect the Facility in accordance with Section 7.2.2.

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7.1.5 Modification of the Facility. The EDC has the right to immediately suspend Interconnection service and temporarily disconnect the Facility in the event any material modification to the Facility or the Operator's Interconnection facilities has been implemented without prior written authorization from the EDC.

7.1.6 Re-connection. Any temporary disconnection pursuant this Section 7.1 shall continue only for so long as is reasonably necessary. The Operator, the EDC and the Customer shall cooperate with each other to restore the Facility and the EPS, respectively, to their normal operating states as soon as reasonably practicable following the correction of the event that led to the temporary disconnection.

7.2 Permanent Disconnection.

7.2.1 The Operator may permanently disconnect the Facility at any time upon thirty (30) days prior written notice to the EDC and the Customer.

7.2.2 The EDC may permanently disconnect the Facility upon termination of this Agreement in accordance with Section 4.

7.2.3 The EDC may permanently disconnect the Facility in the event the Operator is unable to correct an Emergency Condition or a Non-Emergency Adverse Operating Effect in accordance with Section 7.1.1 or Section 7.1.4, respectively.

8. Metering.

8.1. Metering of the output from the Facility shall be conducted pursuant to the terms of the Guidelines.

9. Assignments.

9.1 Except as provided herein, neither the Operator nor the Customer shall voluntarily assign its rights or obligations, in whole or in part, under this Agreement without the EDC's prior written consent, which consent shall not be unreasonably withheld or delayed. Any assignment the Operator or the Customer purports to make without the EDC's prior written consent shall not be valid. Notwithstanding the foregoing, the EDC's consent shall not be required for any assignment (i) made by the Operator or the Customer to an Affiliate with an equal or greater credit rating and with the legal authority and operational ability to satisfy the obligations of the Operator or the Customer under this Agreement; provided that the Operator promptly notifies the EDC of any such assignment, or (ii) made by the Operator in connection with financing the Facility In all events, neither the Operator nor the Customer shall be relieved of its obligations under this Agreement unless, and until, the permitted assignee assumes in writing all obligations of this Agreement and notifies the EDC of such assumption.

10. Confidentiality.

10.1 The EDC shall maintain the confidentiality of information provided from the Operator or the Customer to the EDC if such information is clearly marked and labeled "Confidential" (the "***Confidential Information***") or which, under the circumstances of disclosure, should reasonably be considered as confidential or proprietary. Confidential Information shall not include

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information that (a) is or hereafter becomes part of the public domain other than through a breach of this Agreement, (b) previously was in the possession of the EDC as demonstrated by written records, or (c) the EDC is required to disclose pursuant to a valid order of a court or other governmental body or any political subdivision thereof; provided, however, that to the extent that it may lawfully do so, the EDC shall first have given notice to the Operator or the Customer (as the case may be) and given the Operator or the Customer (as the case may be) a reasonable opportunity to interpose an objection or obtain a protective order requiring that the Confidential Information and/or documents so disclosed be used only for the purpose for which the order was issued; provided further that if such Confidential Information is requested or required by the Public Utilities Regulatory Authority ("PURA" formerly the "DPUC"), the EDC shall seek protective treatment of such Confidential Information.

11. Insurance Requirements.

11.1 General Liability. In connection with the Operator's and the Customer's performance of its duties and obligations under this Agreement, the Operator and the Customer shall maintain, during the term of this Agreement, general liability insurance with a combined single limit of not less than:

11.1.1 Three hundred thousand dollars ($300,000) per occurrence and in the aggregate for bodily injury and/or property damage claims where the gross nameplate rating of the Facility is less than or equal to an aggregate of 100 kW;

11.1.2 One million dollars ($1,000,000) per occurrence and in the aggregate for bodily injury and/or property damage claims where the gross nameplate rating of the Facility is greater than 100 kW and less than or equal to an aggregate of 1MW;

11.1.3 Two million dollars ($2,000,000) per occurrence and in the aggregate for bodily injury and/or property damage claims where the gross nameplate rating of the Facility is greater than 1MW and less than or equal to an aggregate of 5MW; or

11.1.4 Five million dollars ($5,000,000) per occurrence and in the aggregate for bodily injury and/or property damage claims where the gross nameplate rating of the Facility is greater than 5MW and less than or equal to an aggregate of 20MW.

11.2 Insurer Requirements and Endorsements. All insurance required pursuant to this Section 11 shall be carried by insurers qualified to underwrite insurance in Connecticut with an A.M. Best rating of A- or better. In addition, all insurance shall: (a) include the EDC and the Customer as an additional insured for all Generating facilities greater the 1MW; (b) contain a severability of interest clause or cross-liability clause unless the Operator is a residential customer; (c) provide that the EDC shall not be liable to the insurance carrier with respect to the payment of premium for such insurance; and (d) provide for written notice to the EDC thirty (30) days prior to cancellation, termination, or material change of such insurance.

11.3 Evidence of Insurance.

11.3.1 Evidence of the insurance required pursuant to this Section 11 shall state that the coverage provided is primary, and is not excess of or contributing with any insurance or self-insurance maintained by the EDC.

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11.3.2 The Operator and the Customer are responsible for providing the EDC with evidence of insurance on an annual basis as set forth in the Guidelines.

11.3.3 Prior to the EDC commencing any work on system modifications, the Operator shall have its insurer provide to the EDC certificates of insurance evidencing the insurance coverage required pursuant to this Section 11. Such certificates shall clearly indicate whether such insurance policy is written on a "claims-made" basis.

11.3.4 The EDC may, at its discretion, require the Operator and the Customer to maintain tail coverage with respect to any policy written on a "claims-made" basis for a period of three years after expiration or termination of such policy.

11.3.5 All insurance certificates, statements of self insurance, endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted to the appropriate EDC Facilitator.

12. Performance Assurance.

12.1 If the EDC reasonably expects that any Interconnection Costs necessary to accommodate the Facility will be in excess of fifty thousand dollars ($50,000) in the aggregate in any calendar year, the EDC may require that the Operator provide to the EDC a guarantee, a surety bond, letter of credit or other form of security that is reasonably acceptable to the EDC at least twenty (20) Business Days prior to the commencement of the related work. Such security for payment shall be in an amount sufficient to cover such Interconnection Costs. In addition:

12.1.1. Any guarantee provided by the Operator pursuant to this Section 12 shall be made by an entity that meets the creditworthiness requirements of the EDC, and contain terms and conditions that guarantee payment of any amount that may be due from the Operator, up to an agreed-to maximum amount; and

12.1.2. Any letter of credit or surety bond provided by the Operator pursuant to this Section 12.1.2 shall be issued by a financial institution or insurer reasonably acceptable to the EDC and must specify an expiration date reasonably acceptable to the EDC.

13. Indemnification

13.1 Indemnification of the EDC and the Customer by the Operator. Subject to the limitation of liability set forth in Section 14, the Operator shall indemnify, defend and hold harmless the EDC, the Customer and their trustees, directors, officers, employees and agents (including affiliates, contractors and their employees) from and against any liability, damage, loss, claim, demand, complaint, suit, proceeding, action, audit, investigation, obligation, cost, judgment, adjudication, arbitration decision, penalty (including fees and fines), or expense including court costs and attorneys' fees (collectively, "Losses") for personal injury (including death) or property damage to unaffiliated third parties relating to, arising from or connected to any failure the Operator's to perform its obligations under this Agreement.

13.2 Indemnification of the Operator and the Customer by the EDC. Subject to the limitation of liability set forth in Section 14, the EDC agrees to indemnify, defend and hold harmless the

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Operator, the Customer and their respective trustees, directors, officers, employees and agents (including Affiliates, contractors and their employees),from and against any and all Losses for personal injury (including death) or property damage to unaffiliated third parties relating to, arising from or connected to any failure by the EDC to perform its obligations under this Agreement.

13.3 Indemnification of the EDC and Operator by the Customer: Subject to the limitation of liability set forth in Section 14, the Customer shall indemnify, defend and hold harmless the EDC, the Operator and their trustees, directors, officers, employees and agents (including affiliates, contractors and their employees) from and against any and all Losses for personal injury (including death) or property damage to unaffiliated third parties relating to, arising from or connected to the Customer's failure to perform its obligations under this Agreement.

13.4 Survival of Indemnification. The indemnification obligations of the EDC, the Operator and the Customer set forth in this Section shall continue in full force and effect regardless of whether this Agreement has expired or been terminated, defaulted or cancelled and shall not be limited in any way by any limitation on insurance.

14. Limitation of Liability.

14.1 Except with respect to a Party's fraud or willful misconduct, and except with respect to damages sought by a third party in connection with a third party claim: (a) no Party shall be liable to the other Parties, for any damages other than direct damages; and (b) each Party agrees that it is not entitled to recover and agrees to waive any claim with respect to, and will not seek, consequential, punitive or any other special damages as to any matter under, relating to, arising from or connected to this Agreement.

15. Amendments and Modifications.

15.1 No amendment or modification of this Agreement shall be binding unless in writing and duly executed by each Party.

16. Permits and Approvals.

16.1 The Operator is responsible for obtaining all environmental and other permits required by governmental authorities for the construction and operation of the Facility (each, a "***Required Permit***"). The EDC assumes no responsibility for obtaining any Required Permit, advising the Operator with respect to Required Permits, or assuring that all Required Permits have been obtained by the Operator. Upon written request of the EDC, the Operator shall promptly provide to the EDC a copy of any Required Permit.

17. Environmental Releases.

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17.1 Each Party shall immediately notify the other Parties, first orally and then in writing, of any of the following events related to the Facility upon becoming aware of such event: (a) the release of any hazardous substances; (b) any asbestos or lead abatement activities; or (c) any type of remediation activities. The Party having the responsibility for reporting such an event to appropriate governmental authorities shall promptly furnish to the other Parties copies of any publicly available reports filed with such authorities.

18. Force Majeure.

18.1 For purposes of this Agreement, "***Force Majeure Event***" means any event or circumstance that (a) is beyond the reasonable control of the affected Party and (b) the affected Party is unable to prevent or provide against by exercising commercially reasonable efforts. Force Majeure Events include the following events or circumstances, but only to the extent they satisfy the foregoing requirements: (i) acts of war or terrorism, public disorder, insurrection, or rebellion; (ii) floods, hurricanes, earthquakes, lighting, storms, and other natural calamities; (iii) explosions or fire; (iv) strikes, work stoppages, or labor disputes; (v) embargoes; and (vi) sabotage. In no event shall the lack of funds or the inability to obtain funds constitute a Force Majeure Event.

18.2 Notwithstanding any other provision of this Agreement, a Party shall not be considered to be in Default with respect to any obligation hereunder, if prevented from fulfilling its obligation by a Force Majeure Event. If a Force Majeure Event prevents a Party from fulfilling any obligations under this Agreement, such Party will promptly notify the other Parties in writing, and will keep the other Parties informed on a continuing basis of the scope and duration of the Force Majeure Event. The affected Party shall specify in reasonable detail the circumstances of the Force Majeure Event, its expected duration, and the steps that the affected Party is taking to mitigate the effects of the event on its performance. The affected Party may suspend or modify its performance of obligations under this Agreement, other than the obligation to make payments then due or becoming due under this Agreement, but only to the extent that the effect of the Force Majeure Event cannot be mitigated by the use of commercially reasonable efforts. The affected Party shall use commercially reasonable efforts to resume its performance as soon as possible. Without limiting this section, the Operator and the Customer shall immediately notify the EDC verbally if the failure to fulfill the Operator's obligations under this Agreement may impact the safety or reliability of the EPS.

19. Notices.

19.1 All notices, demands and other communications to be given or delivered under or by reason of the provisions of this Agreement shall be in writing and shall be deemed to have been given: (a) immediately when personally delivered; (b) when received by first class mail, return receipt requested; (c) one day after being sent for overnight delivery by Federal Express or other overnight delivery service; or (d) when receipt is acknowledged, either electronically or otherwise, if sent by facsimile, telecopy or other electronic transmission device. Notices, demands and communications to the other Parties shall, unless another address is specified by such Parties in writing, be sent to the addresses indicated below:

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If to the EDC:

The Connecticut Light and Power Company d/b/a Eversource Energy,
107 Selden Street, Berlin, CT 06037
Attention: Manager, Distributed Energy Resources
Phone: 866-324-2437
Fax: 860-665-2796

If to the Operator:

1050 Day Hill Rd Project, LLC.
921 E. Fort Avenue, Suite 120,
Baltimore, Maryland 21230
Attention: Legal
Phone: 4155240429
Email: legal@bluepathfinance.com

If to the Customer:

Aero Gear
1050 Day Hill Rd,
Windsor, CT 06095
Attention: Craig Scott
Phone: 860-688-0888
Email: info@aerogear.com
with a copy to:

1050 Day Hill Rd Project, LLC.
921 E. Fort Avenue, Suite 120,
Baltimore, Maryland 21230
Attention: Legal
Phone: 4155240429
Email: legal@bluepathfinance.com

19.2 Each Party may designate operating representatives to conduct daily communications between the Parties, which may be necessary or convenient for the administration of this Agreement. The names, addresses, and phone numbers of each Party's representatives shall be provided in writing by such Party to the other Parties.

20. Default and Remedies.

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20.1 Defaults. Each of the following shall constitute an "***Event of Default***"

20.1.1. A Party fails to pay any bill or invoice for charges incurred pursuant to this Agreement or any other amount due from such Party to the other Parties as and when due, any such failure shall continue for a period of thirty (30) days after written notice of nonpayment from the affected Party to the defaulting Party; provided, however, if such Party disputes such bill, invoice or other amount due in good faith, then such failure to pay shall not constitute an Event of Default and the Parties shall resolve such dispute in accordance with Section 21;

20.1.2. A Party (a) fails to comply with any other provision of this Agreement or breaches any representation or warranty in any material respect and (b) fails to cure or remedy such failure or breach within sixty (60) days after notice and written demand by any other Party to cure the same or such longer period reasonably required to cure the same (not to exceed an additional ninety (90) days unless otherwise mutually agreed upon, provided that the failing or breaching Party diligently continues to cure until such failure or breach is fully cured). This provision pertains only to cure periods not specifically addressed elsewhere in this Agreement;

20.1.3. The Facility or any part of the Interconnection is modified without the prior written approval of the EDC; or

20.1.4. A Party fails to perform any obligation hereunder in accordance with (a) applicable laws and regulations, (b) the ISO-NE operating documents, procedures, and reliability standards to the extent applicable to that Party, and (c) as to Facility, EDC and Operator, Good Utility Practice.

20.2 Remedies. Upon the occurrence of an Event of Default, the non-defaulting Party may, at its option, in addition to any remedies available under any other provision herein, do any, or any combination, as appropriate, of the following: (a) continue to perform and enforce this Agreement; (b) recover damages from the defaulting Party except as limited by this Agreement; (c) by written notice to the defaulting Party terminate this Agreement; or (d) pursue any other remedies it may have under this Agreement or under applicable law or in equity.

21. Dispute Resolution Procedures.

21.1 Each Party shall agree to attempt to resolve all disputes promptly, equitably and in good faith. If the Parties are unable to informally resolve any dispute, the Parties shall follow the dispute resolution process set forth in the Guidelines.

22. Subcontractors.

22.1 Nothing in this Agreement shall prevent a Party from utilizing the services of any subcontractor as it deems appropriate to perform its obligations under this Agreement; provided, however, that the hiring Party shall require such subcontractor to comply with all applicable terms and conditions of this Agreement in providing such subcontracting services and the hiring Party shall remain primarily liable to the other Parties for the performance of such subcontractor.

22.2 The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under this Agreement. The hiring Party shall be fully responsible to the other Parties for the acts or omissions of any subcontractor hired by the hiring Party to perform its obligations

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under this Agreement. Any applicable obligation imposed by this Agreement upon the hiring Party shall be equally binding upon, and shall be construed as having application to, any subcontractor of such Party.

22.3 The obligations under this Section 22 will not be limited in any way by any limitation of subcontractor's insurance.

23. Miscellaneous.

23.1 Governing Law. This Agreement and the legal relations between the Parties will be governed by and construed in accordance with the laws of the State of Connecticut applicable to contracts made and performed in such State and without regard to conflicts of law doctrines.

23.2 Non-waiver. No failure on the part of any Party to exercise or delay in exercising any right hereunder shall be deemed a waiver thereof, nor shall any single or partial exercise of any right hereunder preclude any further or other exercise of such or any other right.

23.3 No Third Party Beneficiaries. This Agreement is made solely for the benefit of the Parties. Nothing in the Agreement shall be construed to create any rights in or duty to, or standard of care with respect to, or any liability to, any person not a party to or otherwise bound by this Agreement.

23.4 Severability. If any provision of this Agreement is held to be unenforceable for any reason, such provision shall be adjusted rather than voided, if possible, to achieve the intent of the Parties. If no such adjustment is possible, such provision shall be fully severable and severed, and all other provisions of this Agreement will be deemed valid and enforceable to the extent possible.

23.5 No Partnership. Nothing in this Agreement shall constitute or be construed to be or create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon any Party. No Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Parties.

23.6 Headings. All headings in this Agreement are included solely for convenient reference, are not intended to be full and accurate descriptions of the contents of this Agreement, will not be deemed a part of this Agreement, and will not affect the meaning or interpretation of this Agreement.

23.7 Changes in State Regulations or Law. Upon thirty (30) days prior written notice, EDC or Operator may terminate this Agreement if there are any changes in DPUC regulations or Connecticut law that affects the EDC's ability to perform its obligations under this Agreement.

23.8 General Rules of Construction. For all purposes of this Agreement: (a) all terms defined herein or in the Guidelines shall have the meanings assigned to them herein or in the Guidelines, as the case may be, and shall include the plural as well as the singular; (b) all references in this Agreement to designated "Sections" and other subdivisions are to the designated Sections and other subdivisions of the body of this Agreement; (c) pronouns of either gender or neuter will include, as appropriate, the other pronoun forms; (d) the words "herein," "hereof" and "hereunder" and other words of similar import refer to this Agreement as a whole and not to any particular Section or other subdivision; (e) "or" is not exclusive; (f) "including" and "includes" will be deemed to be followed by "but not limited to" and "but is not limited to," respectively; (g) any definition of or reference to any law, agreement, instrument or other document herein will be

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construed as referring to such law, agreement, instrument or other document as from time to time amended, supplemented or otherwise modified; (h) any definition of or reference to any law or statute will be construed as referring also to any rules and regulations promulgated thereunder; and (i) as used herein, "days" shall mean "calendar days."

23.9 Counterparts. This Agreement may be executed in counterparts, each of which shall be deemed an original, and all counterparts so executed shall constitute one agreement binding on all of the Parties hereto, notwithstanding that all of the Parties are not signatories to the same counterpart. Facsimile counterparts may be delivered by any Party, with the intention that they shall have the same effect as an original counterpart hereof.

23.10 Signatures. Each Party hereby signifies its agreement to all of the terms of this Agreement by its signatures hereto. Each Party represents that it has carefully reviewed this Agreement individually and with counsel and that it has knowingly and willingly executed this Agreement.

IN WITNESS HEREOF, the Parties have caused this INTERCONNECTION AGREEMENT to be executed on the day and year first written above.

THE EDC

By: Winston D. Brown

Name: Winston D. Brown, MBA

Title: Project Manager, Distributed Energy Resources

Duly Authorized

THE OPERATOR

By: 1050 Day Hill Rd Project, LLC Signed by: 3B942DFF83B04E9...

Name: Warren C. Jones

Title: Chief Executive Officer

Duly Authorized

THE CUSTOMER

By: Craig Scott

Name: Aero Gear, Inc

Title: VP + CFO

Duly Authorized

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Appendix A

Guidelines for Generator Interconnection Fast Track and Study Processes April 5, 2019

(Intentionally omitted)

Disclaimer:
The following project study report is based on only PV side of DG which is 687.5 kW and docs not include any BESS system.

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Appendix B

Description of the Facility as studied, and incorporating any approved design changes

Project description & size: Photovoltaic generating facility consists of a 687.5-kW system.

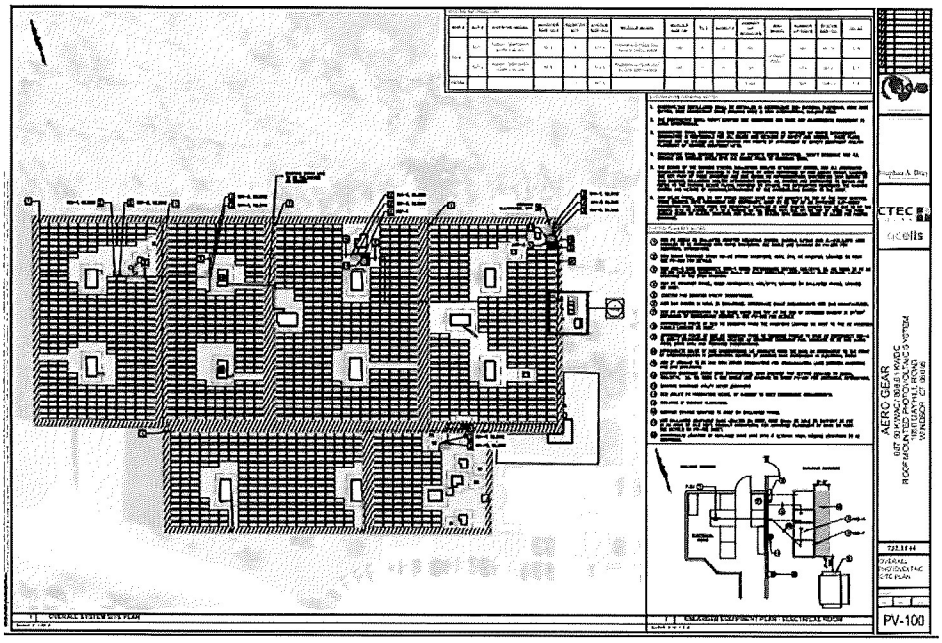
Street Address: Located at 1050 Day Hill Rd, Windsor CT 06095.

Point of interconnection: The Project will interconnect to the Eversource 23 kV Bloomfield 3B02 circuit distribution system via a primary service.

System Description: The Project consists of (11) SMA America 62.5kW STP 62-41/480 inverters.

Point of Change of Ownership (POCO): Approximate location is shown below.

Service type & description: The new service will consist of approximately three new poles, a recloser and overhead primary meter. Everything behind the primary meter will be owned and maintained by the customer.



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Appendix C

Conditions for Parallel Operation of Generating Facility, Special Operating Requirements

1) Enable the default ramp rate @ 500kW/minute.
2) The Project will be operating at unity power factor
3) Maximum export will be 687.5 kW AC for parcel 1 of 1.
4) Inverter setting per ISO-NE and Generator Interconnection Guidelines. Refer to Eversource Energy "The Eversource and United Illuminating Company Exhibit B- Generator Interconnection Technical Requirements" dated April 5th, 2019. The settings can be found in Appendix C
5) The visible break AC Disconnect switch is required as identified The Eversource and United Illuminating Company Exhibit B- Generator Interconnection Technical Requirements" dated April 5th, 2019, section 2.4 Visible break.

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Appendix D

Initial Cost Estimate

Witness test:
See Attachment F for total costs

Please refer to Section 5.3 – Billing and Payment Procedures for Initial Interconnection Costs. If someone other than the generator/customer is responsible for the payment please note and sign below.

Other responsible party: _____

Name: _____

Address: _____

City/State/Zip: _____

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Appendix E

Construction Agreement

None required.

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Appendix F

See attached Contingent Approval Letter dated February 5, 2024

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Appendix G
Attachment 1

EDC's Description of its Upgrades and Best Estimate of Upgrade Costs

The customer already has an active three phase services with a primary meter and fuse. This 687.5 kw PV only project did not see any violation on Eversource's distribution system. Hence, there are no upgrades required on Eversource's distribution system for this PV project.

Item	Description	Cost	Notes
1.	New Service and recloser		
2.	**Subtotal**	**$0**	
3.	CIAC - 9%, (Contribution in Aid of Construction)		
4.	Subtotal with CIAC		Existing service and no upgrades required
5.	Witness Test	**$2,500**	
6.	**Total Construction cost** Note: Additional escalation cost of 4% will apply per year for payment after 2022	**$2,500**	

TABLE 1

Agreed to by:

Generator Signed by: 3B942DFF83B04E9... **Date:** 10/22/2025

Eversource Energy Winston D. Brown **Date:** 12/03/2025

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Attachment II
Payment Schedule

Item	Due by Date	Payment Amount
•	N/A	N/A Existing service and no upgrades required
•	N/A	
•	N/A	
•	**Total Payments Amount**	$ 0.00

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Attachment III
Ongoing Costs

N/A

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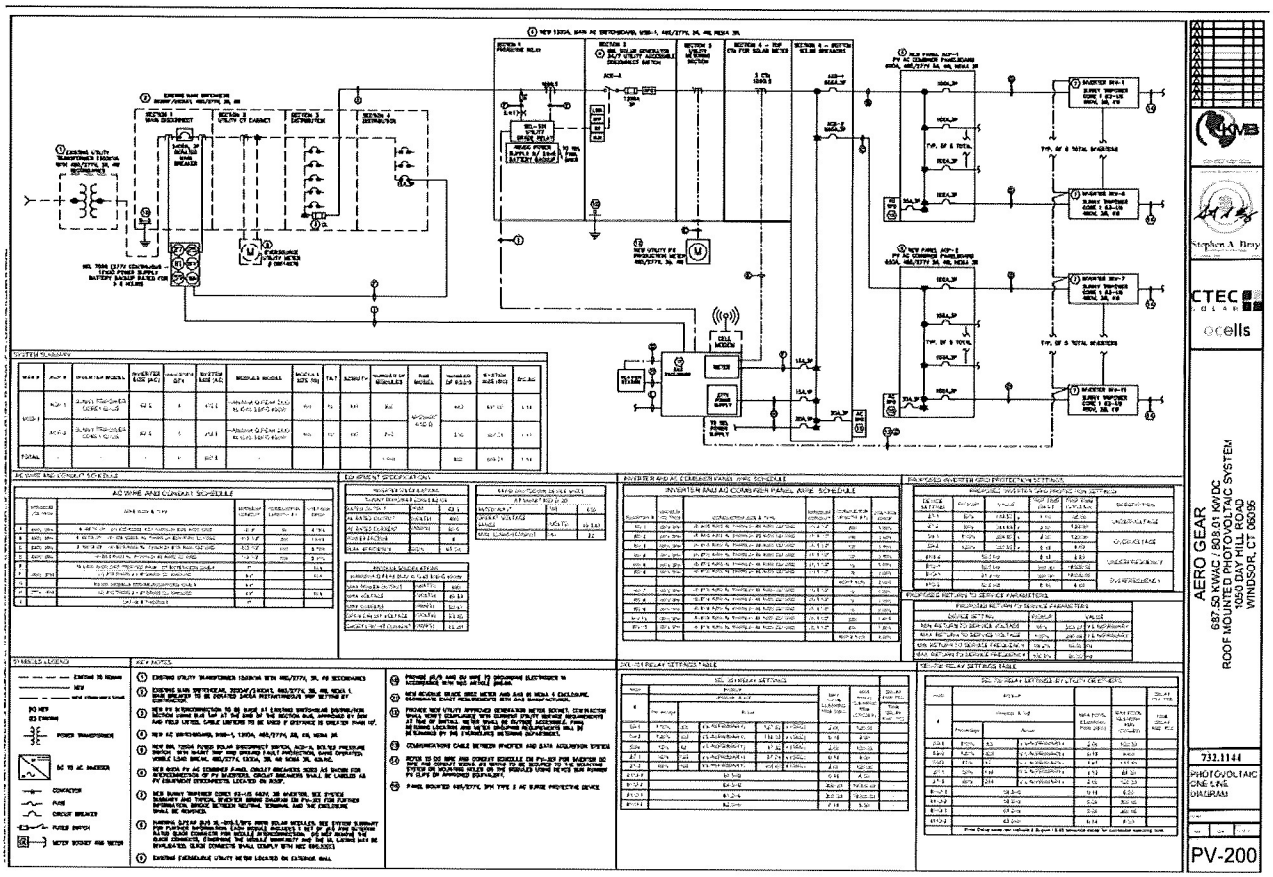
Appendix H

One line and layout diagrams



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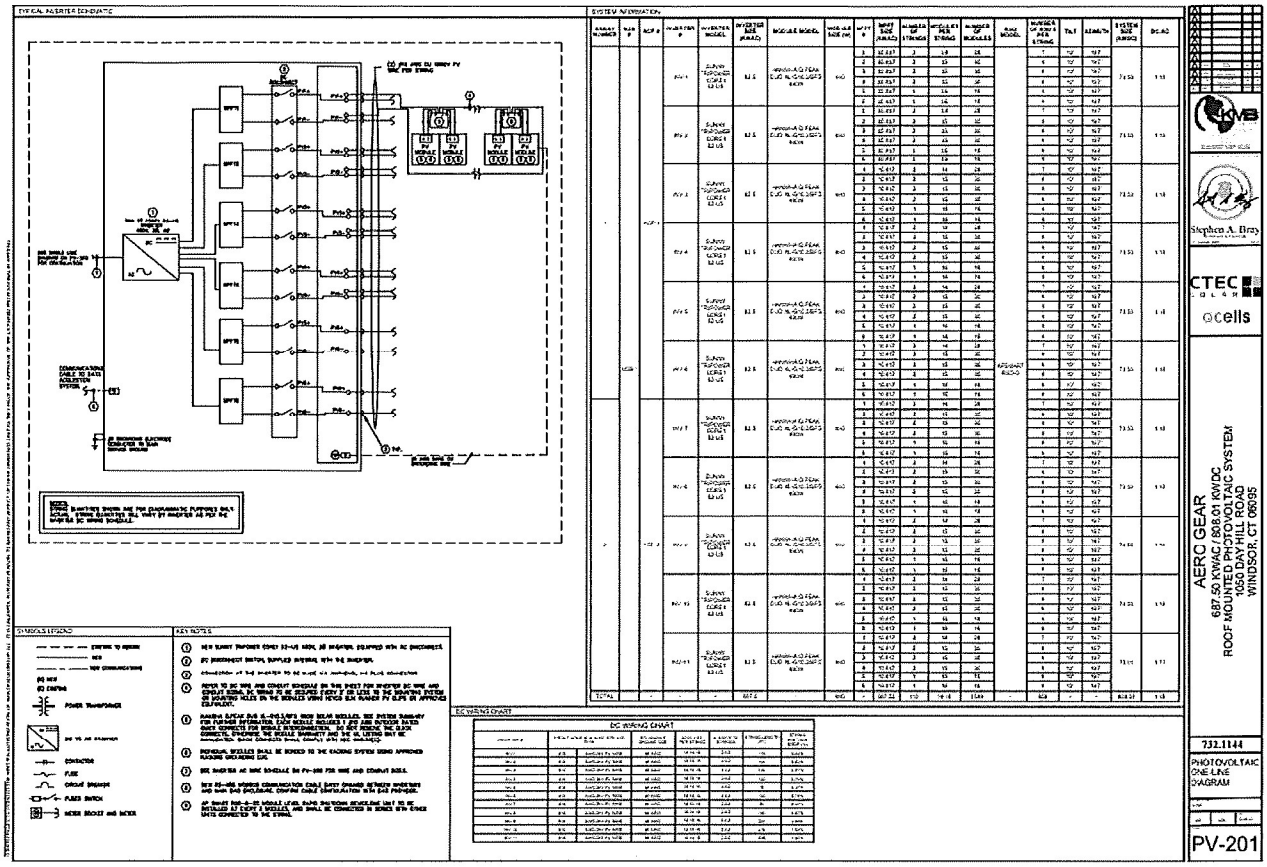
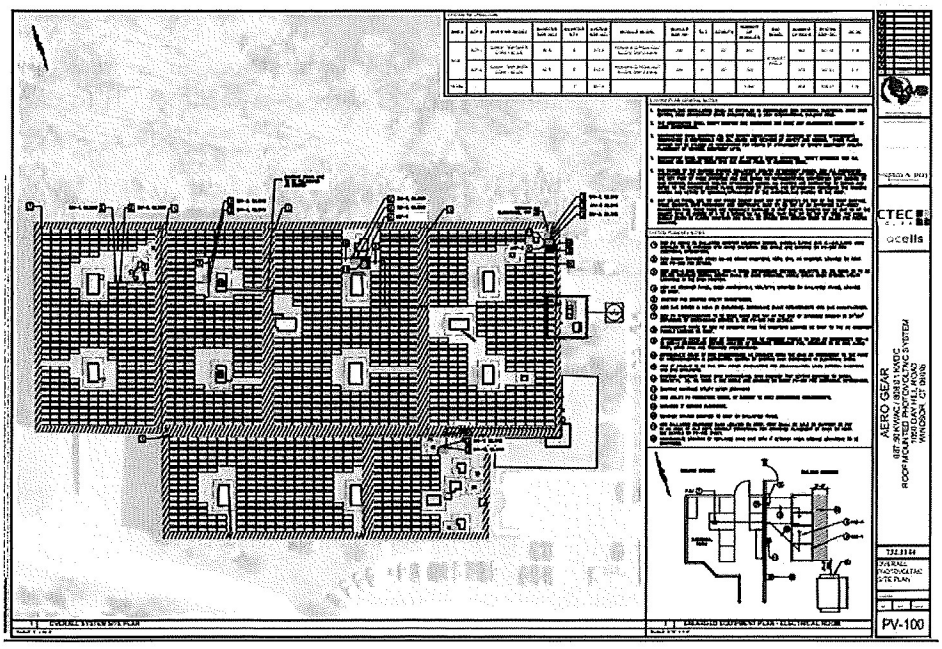
Aero Gear, Inc 3-Way Agreement Rev. 0, 02_05_24





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EVERSOURCE ENERGY

Distributed Energy Resources
107 Selden Street
Berlin, CT 06037

Contingent Approval

February 5, 2024

Attention: Craig Scott

RE: Aero Gear
Address 1050 Day Hill Rd, Windsor, CT 06095
Equipment: 687.5 kW inverter-based Photovoltaic Installation, with eleven (11) SMA America 62.5 kW ac (Model STP 62-41 (480V [SI1]) Inverters.

Dear Craig Scott,

Eversource has completed the Application Review in compliance with the Fast Track and Study process for the above stated project and has determined that the proposed generators **will** have an impact on the distribution system. **Payment for the upgrades are as noted in the cost and schedule Attachments I of Appendix G. The customer or contractor must contact the Eversource Electric Service Support Center at 888-544-4826 to initiate a separate service work request in order to have determined the design, cost, and requirements for providing the new service and recloser to this site.** Attachment I and II with additional comments and a schedule of milestones are attached for your reference. The generator qualifies for Net Metering and Eversource will apply Rider N accordingly on this new service, unless advised otherwise.

Please review and sign three copies of Attachment I (Schedule of Milestones) and three copies of the Interconnection Agreement and return to the address below. Refer to Attachment II for assumptions and notes.

Refer to "Meter Procedures for PA 11-80 Renewable Energy Credits (MPREC)" for metering incentive requirements, which is a separate review & approval process.
Should you have any questions or concerns please feel free to contact me.

Sincerely
Winston D. Brown, MBA
Project Manager
Distributed Energy Resources
107 Selden Street, Berlin, CT 06037
Tel: 860-665-3717
E-mail : *winston.brown@eversource.com*
CC : Carl Nowiszewski, Distributed Energy Resources Manager
C-TEC Solar, LLC

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Appendix F
Attachment I
Schedule of Milestones

No	Milestones for Interconnection	Due by Date	Responsible Party	Comments
1.	Sign and Return Schedule of Milestones Appendix F attachment I	30 Business days from today's date **By Project Engineer**	Generator	
2.	Sign and return schedule of payment (Appendix G)	30 Business days from today's date **By Project Engineer**	Generator	N/A Existing service and no upgrades required.
3.	Sign and return Interconnection Agreement	30 Business days from today's date **By Project Engineer**	Generator	
4.	Sign and return On Going Costs Appendix G, Attachment III	30 Business days from today's date **By Project Engineer**	Generator	N/A Existing service and no upgrades required
5.	Provide initial payment in compliance with Appendix G, Attachment II	30 Business days from today's date **By Project Engineer**	Generator	N/A Existing service and no upgrades required
6.	File a new service request	15 business days after return of ISA	Generator	N/A, Existing service and no upgrades required
7.	Secure Easements	Prior to start of Eversource construction	Generator	Refer to Appendix F Attachment II note 6
8.	Construction kicks off call/meeting as needed.	15 business days after 100% payment	Eversource/ Generator	N/A Existing service and no upgrades required
9.	Start Eversource procurement	15 business days after 100% payment	Eversource	Refer to Appendix F Attachment II note 6
10.	Provide final design and three-line diagram	30 business days after 100% payment	Generator	See Note 5 & 6 Attachment II Schedule of Milestones. Eversource review and approval is required
11.	Submit Certificate of Insurance	Prior to start of Eversource construction	Generator	
12.	Complete Eversource Construction	6 months from 100 % payment, completion of easements and completion of detailed engineering	Eversource	N/A Existing service and no upgrades required
13.	Provide Witness Test plan with all associated documentation	Minimum 20 Business days before scheduling witness test	Generator	N/A Existing service and no upgrades required
14.	Submit proof of Municipal Approval (**WR#11198643** *by Eversource)*	Minimum 10 Business days before scheduling witness test	Generator	N/A Existing service and no upgrades required
15.	Conduct Witness Test	15 business days from Inspector approval and approved witness test	Eversource	N/A Existing service and no upgrades required

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		procedure		
16.	Send authorization to interconnect Letter / In-service date	10 business days from successful witness test and receipt of all documents	Eversource	N/A Existing service and no upgrades required

Generator Signed by: 3B942DFF83B04E9... **Date:** 10/22/2025

Eversource Energy Winston D. Brown **Date:** 12/03/2025

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Attachment II
Schedule of Milestones

1- In order to meet the ISD stated in the milestone in appendix F all stated milestones must be completed at least 3 weeks prior to the ISD including all easement requirements for this project.

2- A witness test is required to be performed per the Generator Interconnection Guidelines. Refer to Eversource Energy "The Eversource and The United Illuminating Company Exhibit B- Generator Interconnection Technical Requirements" dated April 5th, 2019, section 7.

3- A test plan must outline the steps necessary to demonstrate that when the AC disconnect switch is opened, the PV inverters stop conducting within two (2) seconds or less, and when the AC disconnect switch is closed, the PV inverters do not start to conduct for at least five (5) minutes. The test must also demonstrate that the inverter shuts down upon loss of each individual phase.

4- Inverter setting per ISO-NE and Generator Interconnection Guidelines. Refer to Eversource Energy "The Eversource and United Illuminating Company Exhibit B- Generator Interconnection Technical Requirements" dated April 5th, 2019. The settings can be found in Appendix C. The settings must be included in the test plan.

5- Provide the updated one-line diagram with appropriate effective grounding scheme for Eversource review and approval.

6- Provide the updated one-line diagram that shows redundant protective relay on each subpanel that will have inverters installed. (i.e., Subpanel 1A to 1E). Also, please make sure the settings of these relays match the settings of all inverters. Eversource review and approval is required.

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Meter Review

Metering Task Pass?: N

Metering Task Response:

Please clarify which incentive program this application/customer is participating in (i.e. rate 980, NRES Buy-all, NRES Netting). Meter engineering will provide detailed feedback once the incentive program is known as metering requirements differ for each program.

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EVERSOURCE

Aero Gear Inc. 1050 Day Hill Rd, Windsor CT 06095 02/01/2024 Rev 01

Distribution System Impact Study

INT-63184. CD02050

Docusign Envelope ID: BA05EFC1-A302-4D9A-B177-FD7056D09AC6

1.0

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- **Abstract**

This system impact study is to examine the 687.5-kW photovoltaic generator proposed on 1050 Day Hill Rd, Windsor CT. A full circuit impact study is needed for this installation due to it failing the fast-track screen. The study will cover impacts related to voltage, equipment, and protection.

The study found there to be no voltage issues during minimum and maximum loading at the full 687.5 kW output of the PV system operating at 100% power factor. The DG customer did not cause excess capacitor bank operations. The power quality was determined to be acceptable. The generator did not cause any of the LTC's at the Bloomfield substations to operate on either the primary or alternate configurations. Fluctuations between states of the generator will be controlled by implementing a standard ramp rate. This will reduce the frequency of large swings in operation and prevent excess operation of voltage regulating equipment on the circuit.

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- **Introduction**

The purpose of this study is to determine the electrical system impacts of a 687.5 kW PV proposed on the Bloomfield 3B02 feeder. The electrical system impacts considered in this study are voltage, equipment, and protection concerns. Recommendations will be based on assurance that all the customers fed from this circuit, and adjacent alternate circuits, are within the established ratings for voltage and that fault protection is enough. The Bloomfield3B02 was chosen for ease of interconnection at 1050 Day Hill Rd, Windsor CT.

- **Project Location**

Aero Gear Inc. is proposing the installation of a 687.5 kW PV generator at their site in Windsor CT. This project will be located on the low side of the Bloomfield 3B02 substation, on the 3B02 circuit at 1050 Day Hill Rd, Windsor CT. The PV project site is approximately 5.5 miles away from the Bloomfield 3B substation. The site plan for the project shown below in Figure 1 illustrates the location of the PV system and how it will connect to the 3B02 circuit. A picture illustrating the distance of the project site to the Bloomfield 3B02 substation can be found in Appendix A.

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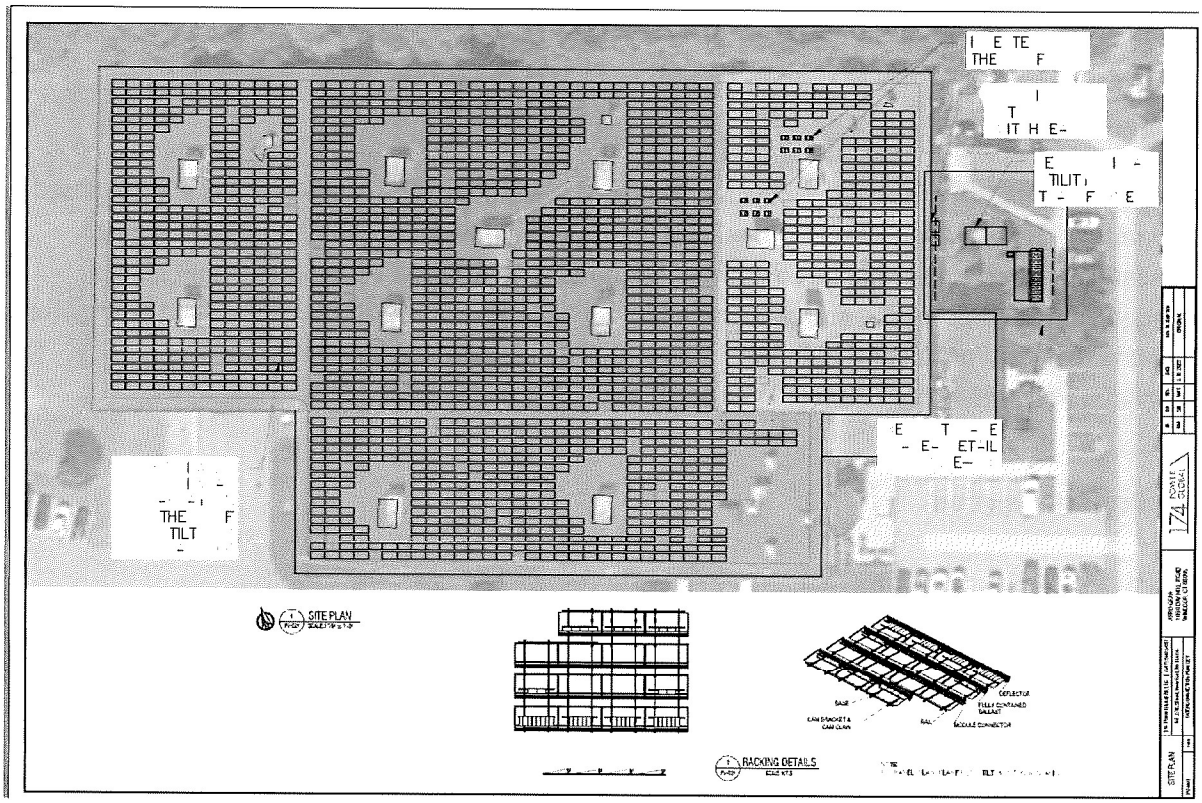

15.0 Figure 1: Site plan for Aero Gear Inc. 1050 Day Hill Rd, Windsor CT 06095 02/01/2024 Rev 01

- **System Configuration**

The primary distribution voltage of the customer is 23 kV. The customer will fully export onto the Eversource distribution system. The Bloomfield 3B02 feeder has around 7.1 MW of existing generation or in queue ahead on the 3B02 circuit. The system was modeled using Synergi™ Electric, with a 98% power factor during maximum and minimum load for the 3B02 source circuits. The loads were allocated per circuit feeder head prior to analysis. The proposed system was modeled with a unity power factor. Simulations during minimum and maximum loading periods were studied, with the proposed system on and off. The existing generation always remained on due to no generation falling within one quarter of a mile from the proposed DG project at 1050 Day Hill Rd, Windsor CT. Day time peak and daytime minimum peak were the studied scenarios for this DG application. During each loading scenario, voltage flicker and rapid voltage change were analyzed in addition to steady state voltages because of this distribution system impact study. During those simulations, voltage and power factor were verified to ensure the circuit still meets regulatory standards after the proposed system is interconnected.

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- **System Loading and Assumptions**

The Bloomfield 3B substation is fed from three 115kV transmission lines and consists of one 115kV step down transformer for the A1 bus and is rated for 50 MVA. The 3B-1X steps the voltage down to 23 kV bus that feeds three circuits.

The loading information for the primary configuration is as follows. The Bloomfield 3B-1X transformer has a peak load of 10.246 MVA and a daytime minimum load of 4.83 MVA. The 3B-1X transformer feeds the 3B02, 3B2 and 3B04 feeder.

Table 1: Generation and Load Data

Source	Maximum Load (MVA)	Minimum Load (MVA)	Existing Generation (MW)	Proposed Generation (MW)
3B SS	29.5	11.1	31.6	0.72
3B02	5.38	2.268	7.14	0.72

Table 2: PV Generator Characteristics

Generating Facility Phase Type:	Three-Phase
Power Rating:	687.5 kW
Generating Facility Output Voltage (Volts):	23 kV
Generating Facility Terminal Voltage (Volts):	600 V
Rated Output Current (Amps):	17.27 Amps at 23 kV
Frequency (Hz):	60 Hz
Rated Power Factor (%):	TBD during Study
Inverter Power Factor Adjustment Range:	0.8 Lag – 0.8 Lead

- **Generation Characteristics:**

- **Voltage Impact During Normal Operation | Bloomfield 3B02**

CT regulatory requirements require adherence to voltages at -5% to +5% PU. The modeling software uses a nominal voltage of 120 as the output, so the voltages from the model will need to stay between 114 and 126 V. This portion of the study determines if the interconnection can maintain these requirements at peak and minimum loading conditions. The study looks at both peak and minimum

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loading during time in which the generator is in parallel with the Eversource system. All circuits fed by the 3B-1X transformer were modeled for this analysis.

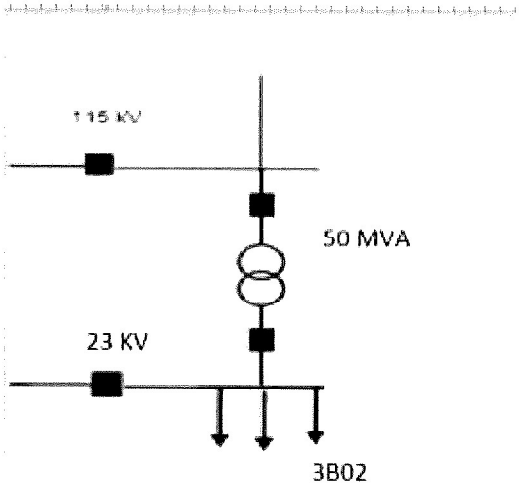

Figure 2: Primary Configuration

- Peak Loading

At peak loading steady state conditions, with generation at unity power factor and the customer generation connected, the system can sustain voltage within the PURA limitations. The system does not cause any voltage or thermal issues throughout the model.

Table 3: Peak Load

Circuit Point	Generation Off			95% Generation- Hold Taps			PV		
PCC (V) 3B02	123.1	122.8	123.1	122.8	122.4	122.2	122.9	122.6	122.9
3B02 Feeder Head (V)	124.1	124.1	124.7	122.8	122.8	122.6	124.1	124	124.7
3B02 Feeder Head (kW)	1745	1736	1920				1837	1829	2012
3B02 Feeder Head (kVAR)	-1060	-1048	-1025				-1049	-1040	-1013
3B-SS (kW)	9142	9221	8198				9176	9252	8229
3B-SS (kVAR)	-9283	-9236	-10040				-9268	-9224	-10024
Power Factor at 3B-SS									

- *Generation Off*

During this simulation, the proposed PV was turned off while all existing PV remained at full output. As shown in Table 3, above, all voltages readings were within the PURA limitations.

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- *Generation On*

Under this simulation, all generators, including the proposed generator, were turned on. As shown in Table 3, all voltages were within the PURA limitations.

- *Generation at 95% - Flicker*

Under this simulation, steady state system was locked into place with the proposed PV off. The capacitor banks and regulators in the model were then locked into place. The DG was then turned on to 95%, per Eversource standards. The voltage values were recorded, and the flicker was calculated. The flicker and voltages were acceptable remaining within the ANSI limits for voltage and within the 2% limit spelled out in the Eversource standards as shown in Table 4. It should be noted that the fluctuation in output only occurred with the proposed DG. Eversource typically considers DGs within 0.25 aerial miles of the project. The nearest projects were greater than this distance and did not play a role in the system flicker calculation. Under normal circuit configurations and having all capacitor banks in service, the maximum flicker occurred at 0.73%. Table 4 below illustrates the flicker on all three phases during peak load.

Table 4: Peak Load Flicker Change			
Phase	A	B	C
PCC	-0.24%	-0.33%	-0.73%

- *Rapid Voltage Change*

For flicker issues, Eversource can mitigate the issue by requiring the DG to install a ramp rate for the introduction of generation after the loss of generation due to a cloud or transient. However, this does not resolve the issue of the impacts to the Eversource distribution system when the DG is taken offline. IEEE 1547-2018 spells out that the rapid voltage change from a DER should not exceed 3%. As shown in Table 5, all rapid voltage change values are within the IEEE 1547-2018 limit of 3%., the maximum RVC occurred at 0.08%. Table 5 below illustrates the RVC on all three phases during peak load.

Table 5: Peak Load Rapid Voltage Change			
Phase	A	B	C
PCC	0.08%	0.08%	0.08%

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- Minimum Loading

At daytime minimum loading steady state conditions, with generation at unity power factor and the customer generation connected, the system can sustain voltage within PURA limitations on all circuits associated with the Bloomfield 3B-1X configuration. For the minimum load simulation all the voltage control cap banks were turned off. The system does not cause high voltage at the PCC; or elsewhere along the 3B02 circuit.

Table 6: Min Load 39%

Circuit Point	Generation Off BESS OFF			95% Generation- Hold Taps			PV 100% and BESS act as GEN and discharging		
PCC (V) 3B02	124.1	123.6	124	123.9	123.8	123.8	124.1	124.3	123.8
3B02 Feeder Head (V)	123.3	123.2	123.5	123	123.1	123.2	123.2	123.2	123.4
3B02 Feeder Head (kW)	-995	-1064	-908				-1551	-1617	-1473
3B02 Feeder Head (kVAR)	144	160	181				413	420	409
3B-SS (kW)	1661	837	1602				1493	644	1408
3B-SS(kVAR)	785	796	528				815	826	558
Power Factor at 3B-SS	88	88	92				93	93	96

- *Generation Off*

During this simulation, the proposed PV was turned off while all existing PV remained at full output. As shown in Table 6, above, all voltages readings were within the PURA limitations.

- *Generation On*

Under this simulation, all generators, including the proposed generator, were turned on. As shown in Table 6, all voltages were within the PURA limitations.

- *Generation at 95% - Flicker*

The same analysis for voltage flicker was studied during light load conditions. Table 7 below illustrates the voltage flicker. The voltage flicker stays within the 2% threshold with the worst-case scenario at 0.16%.

Table 7: Min Load Rapid Voltage Change

Phase	A	B	C
PCC	-0.16%	0.16%	-0.16%

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-
-
- *Rapid Voltage Change*

The same analysis for rapid voltage change was studied during light load conditions. Table 8 below illustrates the rapid voltage change. The rapid voltage changes stay within the 3% threshold with the worst-case scenario at 0.90%.

Table 8: Min Load Rapid Voltage Change			
Phase	A	B	C
PCC	0.24%	0.32%	0.90%

- **Voltage Impact During Planned Alternate Operation | Bloomfield -1X OOS**

Under this configuration, Eversource would plan maintenance on the Bloomfield 3B substation transformer. There is currently 31.7 MWs of queued and installed generation on the Bloomfield 3B substation. Under the N-1 contingency, the 45MVA 3B-2X transformer would be able to handle this configuration in the power export direction as the aggregate DER contribution is less than 95% of the aggregate station transformer nameplate capacity.

- Peak Loading

At peak loading steady state conditions, with the customer PV charging, the system can sustain voltage within the PURA limitations. The system does not cause any voltage problems throughout the model from the all the substation feeders fed from the Bloomfield 3B-2X transformer.

Table 9: Peak Load									
Circuit Point	Generation Off			95% Generation- Hold Taps			PV		
PCC (V) 3B02	122.8	123	122.5	122.8	122.4	122.2	122.9	122.6	123.3
3B02 Feeder Head (V)	123.9	125	124.9	122.8	122.8	122.6	124.7	125.4	125.6
3B02 Feeder Head (kW)	1717	1716	1889				1814	1822	2007
3B02 Feeder Head (kVAR)	-1051	-1056	-1017				-1049	-1050	-1013
3B-SS (kW)*	13623	13858	12468				13792	13950	12479
3B-SS (kVAR)	-6239	-7413	-7368				-6365	-7550	-7518
Power Factor at 3B-3S							92	87	88

- *Generation Off*

During this simulation, the proposed FC was turned off while all existing generation remained at full output. As shown in Table 9 above, all voltage readings were within the PURA limitations.

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- *Generation On*

Under this simulation the FC was at full output while all remaining generation remained at full output. As shown in Table 9, all voltages were within the PURA limitations.

- *Generation at 95% - Flicker*

Under this simulation, steady state system was locked into place with the proposed PV off. The capacitor banks and regulators in the model were then locked into place. The DG was then turned on to 95%, per Eversource standards. The voltage values were recorded, and the flicker was calculated. The flicker and voltages were acceptable remaining within the ANSI limits for voltage and within the 2% limit spelled out in the Eversource standards as shown in Table 10. It should be noted that the fluctuation in output only occurred with the proposed DG. Eversource typically considers DGs within 5.5 aerial miles of the project. The nearest projects were greater than this distance and did not play a role in the system flicker calculation. Under normal circuit configurations and having all capacitor banks in service, the maximum flicker occurred at 1.84%. Table 4 below illustrates the flicker on all three phases during peak load.

Table 10: Peak Load Flicker Change			
Phase	A	B	C
PCC	-0.89%	-1.76%	-1.84%

- *Rapid Voltage Change*

For flicker issues, Eversource can mitigate the issue by requiring the DG to install a ramp rate for the introduction of generation after the loss of generation due to a cloud or transient. However, this does not resolve the issue of the impacts to the Eversource distribution system when the DG is taken offline. IEEE 1547-2018 spells out that the rapid voltage change from a DER should not exceed 3%. As shown in Table 5, all rapid voltage change values are within the IEEE 1547-2018 limit of 3%., the maximum RVC occurred at 1.21%. Table 11 below illustrates the RVC on all three phases during peak load.

Table 11: Peak Load Rapid Voltage Change			
Phase	A	B	C
PCC	0.56%	0.97%	1.21%

- Minimum Loading

At daytime minimum loading steady state conditions, with the customer PV discharging, the system can sustain voltage within PURA limitations on all circuits associated with the Bloomfield N-1

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scheme. The system does not cause high voltage at the PCC; or elsewhere on the feeders associated to Bloomfield 3B.

Table 12: Min Load 45%

Circuit Point	Generation Off BESS OFF			95% Generation- Hold Taps			PV		
PCC (V) 3B02	124.1	123.6	124	123.9	123.8	123.8	123.1	124.9	123.6
3B02 Feeder Head (V)	122.6	124.8	123.5	122.7	122.8	122.7	122.6	124.8	123.5
3B02 Feeder Head (kW)	-781	-868	-696				-1322	-1400	-1246
3B02 Feeder Head (kVAR)	176	177	214				192	182	230
3B-3S (kW)*	6575	3761	6558				6048	3220	6021
3B-3S(kVAR)	6394	4394	5390				6319	4370	5413
Power Factor at 3B-3S	73	65	77				70	60	75

- *Generation Off*

During this simulation, the proposed PV was turned off while all existing DERs remained at full output. As shown in Table 12, above, all voltages readings were within the PURA limitations.

- *Generation On*

Under this simulation, all generators, were turned on, and the PV was set to discharge. As shown in Table 12, all voltages were within the PURA limitations.

- *Generation at 95% - Flicker*

The same analysis for voltage flicker was studied during light load conditions. Table 13 below illustrates the voltage flicker. The voltage flicker stays within the 2% threshold with the worst-case scenario at 1.6%.

Table 13: Min Load Rapid Voltage Change

Phase	A	B	C
PCC	0.08%	-1.60%	-0.65%

- *Rapid Voltage Change*

The same analysis for rapid voltage change was studied during light load conditions. Table 14 below illustrates the rapid voltage change. The rapid voltage changes stay within the 3% threshold with the worst-case scenario at 0.81%.

Table 14: Min Load Rapid Voltage Change

Phase	A	B	C
PCC	-0.73%	0.81%	0.73%

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- Regulators and Capacitors

The 3B02 circuit has five capacitors, three 1200KVAR caps and two 600KVAR caps. The below tables illustrate the LTC operations that were experienced under the above load flow scenarios. Any capacitor bank operations will be noted as well.

- Primary Configuration: 14L-1X Transformer

Table 15, below, illustrates the LTC tap positions and substation LTC positions before and after the PV system was put into the model.

Table 15: Regulator/LTC Tap Changes Peak Load									
Circuit Point	Generation Off			Generation 100% - Steady State			Tap Changes		
3B-1X	-8	-8	-8	-8	-8	-8	0	0	0

As seen below, in Table 16, the regulator and LTC both stayed at their same tap positions with the addition to this project under minimum load.

Table 16: Regulator/LTC Tap Changes									
Circuit Point	Generation Off			Generation 100% - Steady State			Tap Changes		
3B-1X	4	4	4	4	4	4	0	0	0

- Substation N-1 Configuration: 14L-2X Transformer

Table 17, below, illustrates the LTC tap positions and substation LTC positions before and after the PV system was put into the model.

Table 17: Regulator/LTC Tap Changes Peak Load									
Circuit Point	Generation Off			Generation 100% - Steady State			Tap Changes		
3B-3X	-3	-3	-3	-3	-3	-3	0	0	0
3B-2X	-2	-2	-2	-2	-2	-2	0	0	0

As seen below, in Table 18, the regulator and LTC both stayed at their same tap positions with the addition to this project under minimum load.

Table 18: Regulator/LTC Tap Changes									
Circuit Point	Generation Off			Generation 100% - Steady State			Tap Changes		
3B-3X	10	10	10	10	10	10	0	0	0
3B-2X	11	11	11	11	11	11	0	0	0

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- **System Upgrades and Service**

The distribution impact study did not identify any required upgrades to interconnect the PV part of the project which is 687.5kW as proposed behind the existing three phase service onsite. Please note that this report, results, and upgrades recommendations only includes 687.5 kw of PV and does not including any BESS system.

- **Protection Study**

P&C concluded that the system needs additional effective grounding measures. When the project goes to construction a coordination study will be conducted. The customer is expected to follow the Eversource inverter and relay settings. The typical settings mandated by ISO-NE are shown below in Figure 5.

One major aspect related to protecting the proposed system and electric grid, is whether the system is effectively grounded. Below describes the four (4) main criteria looked at to ensure the system is effectively grounded. All four (4) criteria must pass to be deemed effectively grounded.

1. Is the DG less than one (1) megawatt (MW)? *FAIL
2. Does the proposed system pass the anti-islanding concern or in other words, does it pass the generation to load ratio requirement? *YES
3. Does the fault current at the point of common coupling (PCC) stay below a value that's greater than 10% of the existing value? *YES
4. Is the proposed area unknown to excessive fault currents? *YES

Since the system failed One (1) of the four (4) effective grounding conditions, the customer will be responsible for providing additional effective grounding on the 687.5 Kw PV installation.

- **Conclusion**

Aero Gear Inc. LLC has requested to interconnect an aggregate of 687.5 kW of inverter-based PV generation to the low side of the Bloomfield 3B substation on the 3B02 feeder at 23 kV. The system will be located approximately at 1050 Day hill rd, Windsor CT which is located approximately 5.5 circuit miles from the Bloomfield 3B substation. The project did not cause any adverse impacts to customer voltages or power quality. The DG did not cause excess capacitor bank or LTC operations. Their operation will be managed by implementing a ramp rate on the project, standard practice for Eversource to eliminate any voltage flicker. With the approval from

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P&C and substation engineering this project will be able to connect to the Eversource EPS with the installation of the required upgrades listed in the system upgrades and service section above. Please note that this report, results, and upgrades recommendations only includes 687.5 kw of PV and does not including any BESS system.

Appendix C

C.1. Inverter voltage trip settings

Shall Trip Function	Required Settings	
	Voltage (p.u. of nominal voltage)	Clearing Time(s)
OV2	1.20	0.16
OV1	1.10	2.0
UV1	0.88	2.0
UV2	0.50	1.1

C.2. Inverter frequency trip settings

Shall Trip Function	Required Settings	
	Frequency (Hz)	Clearing Time(s)
OF2	62.0	0.16
OF1	61.2	300.0
UF1	58.5	300.0
UF2	56.5	0.16

C.3. Inverter Voltage Ride-through Capability and Operational Requirements

Voltage Range (p.u.)	Operating Mode/ Response	Minimum Ride-through Time(s) (design criteria)	Maximum Response Time(s) (design criteria)
V > 1.20	Cease to Energize	N/A	0.16
1.175<V≤1.20	Permissive Operation	0.2	N/A
1.15<V≤1.175	Permissive Operation	0.5	N/A
1.10<V≤1.15	Permissive Operation	1	N/A
0.88≤V≤1.10	Continuous Operation	infinite	N/A
0.65≤V<0.88	Mandatory Operation	Linear slope of 8.7 s/1 p.u. voltage starting at 3 s @ 0.65 p.u.: $T_{VRT} = 3\,s + \frac{8.7}{1\,p.u.}(V - 0.65\,p.u.)$	N/A
0.45≤V<0.65	Permissive Operation[12]	0.32	N/A
0.30≤V<0.45	Permissive Operation	0.16	N/A
V<0.30	Cease to Energize	N/A	0.16

C.4. Inverter frequency ride-thru capability

Frequency Range (Hz)	Operating Mode	Minimum Time(s) (Design Criteria)
f > 62.0	No ride-through requirements apply to this range	
61.2<f≤61.8	Mandatory Operation	299
58.8≤f≤61.2	Continuous Operation	Infinite
57.0≤f≤58.8	Mandatory Operation	299
f<57.0	No ride-through requirements apply to this range	

C.5. Grid support utility interactive inverter function status

Function	Default Activation State
SPF, Specified Power Factor	Off
Q(V), Volt-Var Function with Watt or Var Priority	Off Default value: 2% of maximum current output per second
SS, Soft-Start Ramp Rate	On
FW, Freq-Watt Function OFF	Off

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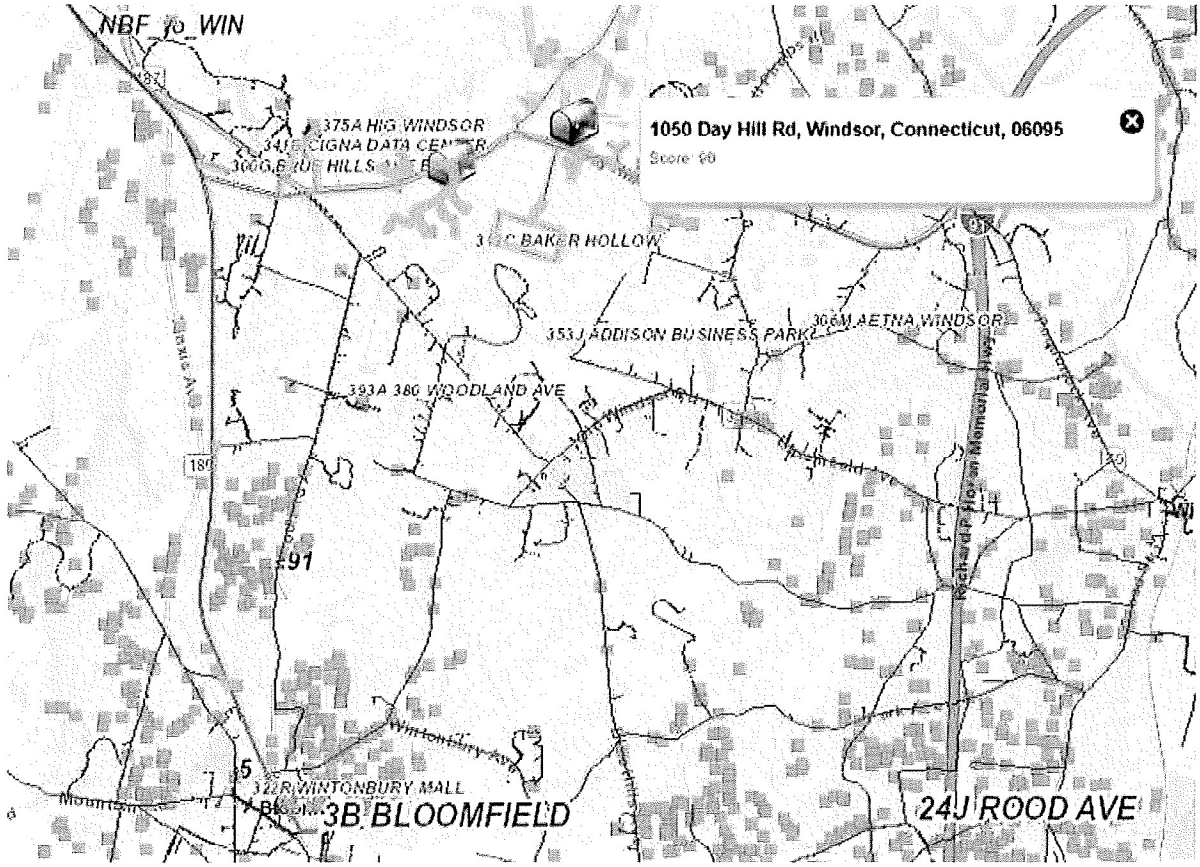
Figure 3 Smart inverter settings excerpt from Appendix C of Exhibit B – Generator Interconnection Technical Requirements

- **Appendices**

Appendix A: Distance from the Bloomfield 3B02 Substation to the project site.



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