

**APPENDIX G
PRELIMINARY SCREENING**

3/8/2021
Project #CDG-00432
Edward Shambeau
111 Owens Road (Site 2), Goshen NY 10924
5000 kW AC

Screen A: Is the PCC on a Networked Secondary System?

Does the proposed system connect to a secondary network system?

- Proposed system is not on a secondary network.

Screen B: Is Certified Equipment Used?

Does the Interconnection Request propose to use equipment that has been listed to meet UL1741 (Inverters, Converters and Charge Controllers for Use in Independent Power Systems) by a nationally recognized testing laboratory?

- Yes, all equipment has been listed to meet UL1741

Screen C: Is the Electric Power System (EPS) Rating Exceeded?

Does the maximum aggregated generation or loading capacity connected to an EPS (existing and approved prior to application) exceed any EPS ratings (modified per established utility practice)?

- Aggregate and proposed DER systems exceed thermal rating of at least one phase for 17 distribution components. Maximum thermal overload of 104.3% at component 9022513.

Screen D: Is the Line and Grounding Configuration Compatible with the Interconnection Type?

Identify primary distribution line configuration that will serve the distributed generation or energy storage. Based on the DER interconnection and using the table below, determine compatibility with the electric power service, including, phase balance, line and grounding configuration. The following table shall be used to determine risk for ineffective grounding

Primary distribution line configuration	Type of DER connection to primary	Result/Criteria
Three-phase, three-wire	Any type	Pass
Three-phase, four-wire > 5 kV	Single-phase line-to-neutral	Pass
All Three-phase, four-wire (For any line that has sections or mixed three-wire and four-wire)	All others	Fail. To pass aggregate DER AC nameplate rating must be less than or equal to 10% of line-section peak load

Based on aggregate DER on the feeder, is phase balancing maintained within utility limits?

- Risk of ineffective grounding. Proposed system is 3-phase connecting to a 3-phase 4-wire line >5kV. Aggregate DER on line is 95.9% of peak load. Utility phase balance limits exceeded, DER systems produce an imbalance of 36.7% on a 120.6A section.

Screen E: Simplified Penetration Test

If the aggregate DER capacity on any medium voltage line section (existing and approved prior to application) is less than 15% of the annual peak load for all line sections bounded by automatic sectionalizing devices upstream of the DER?

- Aggregate DER capacity is greater than 15% of annual peak load for all line sections. Aggregate and proposed DER systems are 180.1% of upstream line section peak load.

Screen F: Is Feeder Capacity Adequate for Individual and Aggregate DER?

Is the feeder available short circuit capacity at the medium voltage PCC, divided by the rating of the individual DER, greater than 25? Is the feeder available short circuit capacity at the substation divided by the capacity all aggregate DER on the feeder, greater than 25?

- Individual stiffness ratio is 47.5, application passes PCC stiffness test. Aggregate substation stiffness ratio is 31.1, feeder passes aggregate stiffness test.