



EASTERN US SOLAR PROJECT PORTFOLIO (9 SITES RANGING FROM 2.45-5.0 MWAC)

CLIENT: Confidential

LOCATION: Multiple Locations

PROJECT DETAILS

RLC performed detail design and engineering services for 9 PV arrays ranging from 2.45 – 5.0 MWAC. Two of the sites in North Carolina use sun-tracking panel mount technology to follow the sun to optimize electrical power generating output. The projects add renewable energy production capacity for Maine, Massachusetts, New York and North Carolina consumers.

Arc Flash Hazard Analysis is a requirement of the OSHA 1910.335, NFPA 70E and applicable codes. Our analysis helped the customer determine what Personal Protective Equipment (PPE) is necessary to prevent injury to the employees when around or working on the equipment. Arc Flash Hazard Analysis is a requirement for the initial installation energization and every 5 years thereafter or if there is design change.

RLC generated a report that determined the worst case Incident Energy (IE) Levels and provided the OSHA compliant labels in PDF printable format for the client.

SCOPE OF SERVICES

- Electrical Design
- Construction Support; including RFI & Submittal Reviews
- Cable Ampacity Studies
- Testing & Commissioning Oversight

- Equipment Pad Ground Study
- Develop Electrical Model for Arc Flash Hazard Analysis
- Identify Protection and Control Options
- Create Time vs. Current Diagrams during Equipment Selection
- Proactively revise and maintain EasyPower® Model as project design was developed
- Report provided on Conceptual Design, and Arc Flash Hazard labeling at construction completion
- Performed IV Curve Trace Testing

MAINE

- Berwick 3.5 MWAC / 3.96 MWDC
- Rumford 2.5 MWAC / 2.96 MWDC

MASSACHUSETTS

- Ashland 4.45 MWAC / 5.82 MWDC
- New Marlborough 4.98 MWAC / 6.52 MWDC
- Spencer 2.45 MWAC / 3.5 MWDC
- Westport 2.4 MWAC / 3.33 MWDC

NEW YORK

- Countryside 2.73 MWAC / 2.68 MWDC

NORTH CAROLINA

- Jester 5.0 MWAC / 7.2 MWDC
- Zuma 3.0 MWAC / 4.7 MWDC

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for the future...today

