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Department of Inspectional Services

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Electrical Installation Requirements For Solar Photovoltaic Systems

When applying for an Electrical Permit for the installation of a P.V. system, in addition to the Standard Electrical Permit application the following will be required.

ALL equipment, devices and fitting shall be listed and labeled by a Nationally Recognized Testing Laboratory (NTRL) and installed in accordance to the manufacturer's installation instructions, in accordance with Article 110.3 (B) of the National Electrical Code.

You may be required, by the Wiring Inspector, to provide technical documentation, as needed.

Before completing plans for a P.V. system, the installer **MUST** understand that the (interactive) P.V. system will become part of the electrical system including the grounding electrode system. The existing system, because of the addition of the P.V. system, code changes, or as a result of normal wear issues since it was installed, may no longer be compliant or safe. Additions or modifications under these conditions could create a code violation.

The applicant will be responsible for making the existing service and its grounding electrode system safe and in compliance with the current edition of the Massachusetts Electrical Code, before connection to the P.V. system is made.

Energizing system process: schedule electrical final inspection. A representative from the electrical company must be on site for the inspection; send in the Eversource COC (include work order number) and the Post Installation Affidavit from the structural engineer. Once electrical final passes and we are in possession of the above required documents, we will schedule your building final inspection. When the building final passes, the Electrical Inspector will sign the ECOC and call Eversource to energize system. We will email the signed ECOC and Building Completion Certificate to the contractor.