

MAG BUILDING CODES COMMITTEE

Permit Submittal Requirements Residential (Single-Family) Solar Photovoltaic (PV) Systems For Utility Grid-Tie Connection

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Revised August 2007

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In an effort to promote uniformity through MAG jurisdictions under the purview of life safety (NEC Article 690), the following submittal requirements are proposed as a MAG standard for securing necessary electrical/building permits for residential (single-family) photovoltaic (PV) systems:

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1. Location of PV installation indicated on plans (roof plan and elevation).

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1. Systems structural engineering analysis shall not be required for flat plate collectors whose weight does not exceed 20 lbs per square foot on roof slopes of 4/12 or less and 16 lbs per square foot on roof slopes greater than 4/12.

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2. Mounting details for PV panel installation.
3. Electrical one-line and three-line (showing phases, neutral and ground) diagram.
4. Cut sheet and listing for inverter (DC to AC conversion).
5. Note on plans that PV equipment shall be installed in accordance with NEC 690 and posted with applicable warnings, signage & plaques per NEC 705-10, 690-17 & 690-64(b)(5).

Local planning and zoning regulations, involving such requirements as setback, height limitations, color, reflectivity or other design considerations, may apply. See the local governing jurisdiction for further information.

Deleted: 6. Acknowledgement letter from utility company for grid-tie PV systems.¶
- grid-tie encompasses not only paralleled inverters but also inverters¶ that constitute a potential back feed source, (i.e. - those that are¶ connected to the utility and are programmed in the "non-utility¶ interactive mode" but have the capability of being re-programmed to¶ back feed in the "utility interactive mode")

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