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Worksheet for PV System Field Inspection

This is to be used as a general checklist. It is not inclusive of all code requirements & inspection criteria.

- # of PV modules and model # matches plans and spec sheets number matches plans and spec sheets.
 - Wire Management: Array conductors are neatly and professionally held in place
 - PV array is properly grounded
 - Check that electrical boxes are accessible and connections suitable for environment
 - Array Fastened and Sealed According To Attachment Detail
 - Check conductor's ratings and sizes
 - Check Foundation for Ground-Mounted Arrays
 - Check mounting structure review
 - Electrical bonding of structural elements
 - Additional array electrode
 - PV array is properly grounded
 - Attachment method according to plans
 - Array Fastened and Sealed According To Attachment Detail
 - Wiring is not readily accessible
 - Appropriate Signs Installed
 - Check proper sign construction:
 - Check for sign identifying PV power source system attributes at dc disconnect
 - Check for sign identifying ac point of connection [690.54].
 - Check for sign identifying switch for alternative power system.
 - Check that equipment ratings are consistent with application and signs
 - Check that inverter has a rating as high as max voltage on PV Power Source sign.
 - Check that dc-side OCPDs are dc rated at least as high as max voltage on sign.
 - Check that switches and OCPDs are installed according to manufacturers specifications (i.e. many 600Vdc switches require passing through the switch poles twice in a specific way).
 - Check that inverter is rated for the site ac voltage supplied and shown on the ac point of connection sign.
 - Check that OCPD connected to the ac output of the inverter is rated at least 125% of maximum current on sign, and is no larger than the maximum OCPD on the inverter listing label.
 - Check that the sum of the main OCPD and the inverter OCPD is rated for not more than 120% of the busbar rating.
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