

Section 5. Worksheet for PV System Field Inspection

Field Inspection Checklist for Array:									
<input type="checkbox"/>	# of PV modules and model # matches plans and spec sheets number matches plans and spec sheets								
<input type="checkbox"/>	Wire Management: Array conductors are neatly and professionally held in place								
<input type="checkbox"/>	PV array is properly grounded								
<input type="checkbox"/>	Check that electrical boxes are accessible and connections suitable for environment								
<input type="checkbox"/>	Array Fastened and Sealed According To Attachment Detail								
<input type="checkbox"/>	Check conductors ratings and sizes								
Specifics For Ground-Mounted Arrays									
<input type="checkbox"/>	Foundation review								
<input type="checkbox"/>	Mounting structure review								
<input type="checkbox"/>	Electrical bonding of structural elements								
<input type="checkbox"/>	Additional array electrode								
<input type="checkbox"/>	Attachment method according to plans								
<input type="checkbox"/>	Wiring not readily accessible								
Appropriate Signs Installed									
<input type="checkbox"/>	Check proper sign construction:								
<input type="checkbox"/>	Check for sign identifying PV power source system attributes at dc disconnect								
<input type="checkbox"/>	Check for sign identifying ac point of connection [690.54].								
<input type="checkbox"/>	Check for sign identifying switch for alternative power system.								
Check that equipment ratings are consistent with application and signs									
<input type="checkbox"/>	Check that inverter has a rating as high as max voltage on PV Power Source sign.								
<input type="checkbox"/>	Check that dc-side OCPDs are dc rated at least as high as max voltage on sign.								
<input type="checkbox"/>	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).								
<input type="checkbox"/>	Check that inverter is rated for the site ac voltage supplied and shown on the ac point of connection sign.								
<input type="checkbox"/>	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.								
<input type="checkbox"/>	Check that the sum of the main OCPD and the inverter OCPD is rated for not more than 120% of the busbar rating.								