

## Level 1-3 Exporting Solar Generation Technical Review Checklist

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While these requirements are generally applicable to all Level 1-3 Interconnection Applications, this document was primarily developed for Solar Generation that is exporting and does not have existing generation on site. Please note that this is not an exhaustive list of items that Consumers Energy is reviewing as part of the interconnection process but provides examples of items that are routinely reviewed. Other items not listed here may also be identified for correction.

To learn more about what is in the Level 1-3 or other Procedures, navigate to:  
<https://www.consumersenergy.com/interconnection>.

<b><u>One Line Requirements</u></b>	
<b>Review Checklist Question</b>	Standard Answer to address this finding:
<b>Does the Account number match Billing Records?</b>	The account or meter number does not match billing records. A correction is needed to the application OR billing account. Review the application form data fields and application documents (One-Line/Site Plan) against the account and meter information and ensure all information matches.
<b>Is the full Physical Site Address shown on the One Line Diagram?</b>	The Physical Site Address must be shown on the One-Line Diagram and must be the full address.
<b>Does the Physical Site Address on the One Line Diagram match billing records?</b>	The Physical Site Address on the One-Line Diagram does not match billing records. A revision must be made to the drawing or the customer's account ; if a revision to the address is needed, the customer must contact Consumers Energy Customer service at 1-800-477-5050 to perform this request. If an update is made to the physical site address, before resubmitting, it is advised to review the application form data fields and application documents (One-Line/Site Plan, etc.) against the changed address and ensure all information matches.

<b>Is the Total Generator AC Rating correct?</b>	The Total Generator Nameplate AC Rating (kW) inputted into PowerClerk is incorrect. (e.g. The calculation is that the Generator(s) Nameplate Rating (AC) = the total of all solar inverter max continuous power output ratings + the max continuous output rating (kW) of any AC coupled battery inverters (if applicable)). Corrections may be required to this value on the Application Data Fields, One-Line, Site-Plan and other documents that reference this data field.
<b>Is the inverter IEEE 1547 and UL 1741 Certified?</b>	Inverter does not appear to be UL 1741 SA or UL 1741 SB Certified. Please provide proof that the inverter is UL 1741 SA or UL 1741 SB certified from an OSHA Nationally Recognized Test Laboratory, or choose a different inverter make/model that is certified and acceptable. Upload any related documentation to the attachment field "Power Limited Documentation."
<b>Is the Inverter Power Rating correct?</b>	The Inverter Power Rating inputted into PowerClerk is incorrect or was not filled out. This value should be the max AC power (in kW) that each inverter can output.
<b>Is the Total Generator Nameplate DC Capacity correct?</b>	The Total Generator Nameplate DC Capacity (kW) inputted into PowerClerk is incorrect. It is calculated by the number of solar panels on the property multiplied by the max wattage rating (in kW) per panel. Corrections may be required to this value on the Application Data Fields, One-Line, Site-Plan and other documents that reference this data field.
<b>Is the AC Disconnect(s) shown on the One Line Diagram and upstream from all inverter(s) and batteries?</b>	A blade style, visible open, lockable/taggable, 24/7 accessible AC Disconnect is not shown upstream of ALL power sources such as the inverter(s) and any battery(s) (if applicable) to fully isolate all energy sources from the grid.
<b>Is the Billing Meter shown on the One Line Diagram?</b>	The Billing meter is not shown on the One-Line Diagram and must be included. If re-designing One-Line with Meter, verify Meter is also shown as such on Site-Plan.
<b>Is the Main Panel and applicable Sub Panels shown on the One Line Diagram?</b>	All Main and applicable Sub Panels must be shown on the One-Line drawing. All load panels must be shown and labeled on the One-Line drawing; the naming convention and quantity of panels must align with the Site-Plan. Non-related sub-panels that are not in the electrical path of the generator do not need to be shown. Panel inclusion/exclusion must be consistent between the one-line and the site plan.
<b>Are the inverters shown on the One Line Diagram?</b>	All String inverters must be labeled with their make/model and shown on the Site Plan. The quantity of inverters must be clearly indicated.

<b>Is the Number of Solar panels AND Power Rating per panel (Watts) shown on the One Line Diagram?</b>	Both The Total number of Solar Panels on the property and the Power Rating of each (in Watts or kW) must be shown on The One-Line Diagram.
<b>Is the complete voltage and configuration shown (Primary or Three Phase Only)?</b>	The complete voltage and configuration must be shown on the One-Line. This includes Voltage, Wye/Delta, and Wire Configuration. (Example: 277/480 Wye 4wire)
<b>Can you confirm that there are not any possible paths/loops of backfeed to the billing meter?</b>	There are paths/loops on the One-Line Diagram showing potential backfeed to the billing meter. Please revise the One-Line Drawing to eliminate any possible backfeed loops.
<u><b>These requirements are applicable to all Interconnection Applications except Level 1 (&lt;20kW or less):</b></u>  <u><b>Is a State of Michigan PE Stamp OR State of Michigan Licensed Contractor Name and License Number shown on the One Line Diagram?</b></u>	A State of Michigan PE Stamp OR State of Michigan Licensed Electrical Contractor's Name with License Number is not shown on the One-Line Diagram OR the License is expired.

<b>Site Plan Requirements</b>	
<b>Review Checklist Question</b>	<b>Standard Answer to address this finding:</b>
<b>Is the Full Site Address shown on the Site Plan?</b>	The Physical Site Address must be shown on the Site Plan and must be the full address.
<b>Does the Physical Site Address on the Site Plan match billing records?</b>	The Physical Site Address on the Site-Plan does not match billing records. A revision must be made to the drawing or the customer's account; if a revision to the address is needed, the customer must contact Consumers Energy Customer service at 1-800-477-5050 to perform this request. If an update is made to the physical site address, before resubmitting, it is advised to review the application form data fields and application documents against the changed address and ensure all information matches.
<b>Is the Billing Meter shown on the Site Plan?</b>	The Billing meter is not shown on the Site-Plan and must be included. If re-designing Site-Plan with Meter, verify Meter is also shown as such on One-Line
<b>Is the AC Disconnect shown on the Site Plan?</b>	The blade style, visible open, lockable/taggable AC Disconnect is not shown on the Site Plan.
<b>Is the AC disconnect clearly outside and 24/7 accessible?</b>	The blade style, visible open, lockable/taggable AC Disconnect must be clearly shown outside and 24/7 accessible.
<b>Is the AC disconnect within 5 ft. of the meter OR a weatherproof placard is shown at the billing meter detailing the exact location of the AC Disconnect?</b>	The AC disconnect is not shown within 5 feet of the meter. If not within 5 feet, a weatherproof placard must be shown at the billing meter detailing the exact location of the AC Disconnect. This placard must be shown on the Site Plan.
<b>Is the Main Panel and all Sub Panels included on the Site Plan (if applicable)?</b>	All Main and applicable Sub Panels must be shown on the Site-Plan. All load panels must be shown and labeled on the Site-Plan drawing; the naming convention and quantity of panels must align with the One-Line. Non-related sub-panels that are not in the electrical path of the generator do not need to be shown. Panel inclusion/exclusion must be consistent between the one-line and the site plan.

<b>Is the Utility Meter included on the Site Plan?</b>	The Billing meter is not shown on the Site-Plan and must be included. If re-designing Site-Plan with Meter, verify Meter is also shown as such on One-Line.
<b>Are the (string) inverters shown on the Site Plan?</b>	All String inverters must be labeled with their make/model and shown on the Site Plan. The quantity of inverters must be clearly indicated.
<b>Are the solar panels shown on the site plan and is the quantity of solar panels clear?</b>	The solar panels must be shown on the site plan and the quantity of solar panels must be clear.

<b>Requirements are applicable to Interconnection Applications with Batteries On-Site:</b>	
<b>Review Checklist Question</b>	Standard Answer to address this finding:
<b>Is the battery(s) shown on the Site Plan?</b>	All battery(s) on site must be labeled and shown on the site plan. Note: Any changes to Battery Fields should match in the Application Data Fields and the One-Line/Site-Plan must match.
<b>Is the Battery and/or its make and model shown on the One Line Diagram?</b>	The Battery(s) and its full Make, Model, and Quantity must be shown on the One-Line Diagram. Note: Corrections may be required to these values on the Application Data Fields, One-Line, Site-Plan and other documents that reference these data fields.
<b>Are all battery information fields complete?</b>	There are one or more data fields that were not filled out in PowerClerk for the battery details. Note: Corrections may be required to these values on the Application Data Fields, One-Line, Site-Plan and other documents that reference these data fields.
<b>Are battery fields completed correctly?</b>	One or more of the battery data fields in PowerClerk have been completed incorrectly. Note: Corrections may be required to these values on the Application Data Fields, One-Line, Site-Plan and other documents that reference these data fields.