PV Arc Fault Circuit Interrupters (AFCIs)

Tim Zgonena

Underwriters Laboratories

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UL Subject 1699B
PV DC Arc-Fault Circuit Protection AFCI

• 2011 NEC requires PV AVCIs for many PV systems.
• UL Subject 1699B was Published APRIL 29, 2011 and it is being used to evaluate and certify PV AFCI equipment.
• Subject 1699B is planned to be developed through the ANSI consensus standards writing process into ANSI/UL 1699B with a new Standards Technical Panel (STP) including:
  – PV Industry, AFCI industry, Mfrs, AHJs, Test Labs, National Labs, Industry Experts, and General Interest.
PV AFCIs Are on the Way!

- PV AFCIs and related components are being developed by many manufacturers and 1699B certifications are underway.

- In addition to stand-alone PV AFCI products, the functionality is being built into many PV system components;
  - Inverters
  - PV modules mounted electronics
  - PV DC/DC converters
  - Combiner Boxes
• UL 1741 CRD to reference 1699B for products that include PV AFCI protection functionality
• Proposal made to revise UL 1741
• Comments received
• Preparing ballot