U.S. Department of Energy and Sandia National Laboratories Utility-Scale Grid-Tied PV Inverter Reliability Technical Workshop

Phillips Technology Institute Collaboration Center Albuquerque, New Mexico

AGENDA

Thursday January 27, 2011				
8:30	Welcome and Workshop OverviewPurpose of Meeting	Stan Atcitty, Sandia Mike Cliggett, U.S. Department of Energy (DOE)		
8:30	Inverter Manufacturer Perspective on Reliability	Jim Perkinson, Satcon		
9:00	Integrator Broad Perspective on Reliability – Customer Needs and Field Data	Tom Levitsky, First Solar		
9:30	Break			
9:45	Owner/Operator Perspective on Reliability – Customer Needs and Field Data	Tassos Golnas, SunEdison		
10:15	Survey Results and Summary	Mike Quintana, Sandia		
11:35	Discussion Time for Survey Results	Led by Bryan Pai, SRA International		
12:15	Lunch	On-site		
1:15	DOE \$1/Watt Workshop and DOE Goals	Mike Cliggett, DOE		
1:40	Sandia's Approach to Reliability – Overview	Jennifer Granata, Sandia		
2:15	Break			
2:25	IGBT Reliability Issues and Needs	John Donlon, Powerex		
2:55	IGBT Si- and SiC-based Switch Reliability Project	Bob Kaplar, Sandia		
3:25	Capacitor Reliability Issues and Needs	Andy Ritter, AVX Corporation		
3:55	Facilitated Discussion – Approaches to Reliability			
5:05	Second Survey Based on First Day of Discussion			
5:30	Adjourn			

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Friday January 28, 2011			
8:30	Welcome and Recap of Day One	Stan Atcitty, Sandia	
8:35	Results of Second Survey	Bryan Pai, SRA International	
9:00	Overview of UL 1741	Tim Zgonena, Underwriters Laboratories	
9:20	Existing Codes and Standards (Summary) – What codes and standards exist for modules and how do they compare to inverters?	Greg Ball, BEW Engineering	
9:40	ALT/Acceleration Factors – Is more work needed in this area? What is currently available and how it is applied to existing systems?	Rob Sorensen, Sandia	
10:00	 Facilitated Discussion – Codes and Standards What is the single most important code/standard that is <i>not</i> universally accepted but should be? What are the gaps in codes/standards as applies to utility-scale inverters? 		
10:45	Break		
10:55	Technology Advances to Improve Reliability – Broad View	Diganta Das, CALCE University of Maryland	
11:15	 Facilitated Discussion – Technology Advances What advances are a "must"? What advances would be "nice" to have? 		
12:30	 Working Lunch Facilitated Discussion – Wrap-up Action Items- DOE/SNL/ Attendees What are we going to do? When are we going to do it? How are we going to do it? How are we going to do it? Who else needs to know about these steps and what method(s) can be used to communicate effectively with them? 	Led by Bryan Pai, SRA International	
2:00	Adjourn/Leave for Sandia's Distributed Energy Technologies Laboratory (DETL)		
2:15	Optional DETL Tour		
4:00	Return to Phillips Technology Institute/Airport		