



Reliability Committee

TIME: Friday, 02/06/25, 10:00 AM Central Time.

PLACE: Zoom (669-900-6833 or 408-638-0968), 272 780 335, <https://zoom.us/j/272780335?pwd=ZzBVUndQN3FXVFltV0poRWpRenZWdz09>

MINUTES: <https://www.pdma.com/> Site location TBD

PRESENT?	ATTENDEES
X	*Crystal Yannarella – Chair
X	*Eric Swenson, IBM – Chair
	*Brian Zahnstecher - Powerrox
	Joe Horzepa, PSMA – PSMA Representation
	Lisa Horzepa, PSMA – PSMA Representation
X	*John Horzepa, PSMA – PSMA Representation
X	*Ada Cheng, AdaClock – Member
	Rick Fishbune, IBM – Member
X	Patrick Le Fèvre, Powerbox – Member
	Tim McDonald, Infineon – Member
	Vamsi Mulpuri, Navitas Semiconductor
X	*Matthew Wilkowski
	Mikhail Guz - Observer
	Kevin Parmenter, Taiwan Semi – Member
	Shane Callanan, AEI – Member
	Greg Miller, Silanna – Member
	Mike Seeman, Eta One Power – Member
	Ed Massey, Ed Massey Consulting – Member
	Bill Mallory, SL Power – Member
	Shobhana Punjabi, Cisco – Member
	Hamish Laird, ELMG Digital Power – Member
	Francesco Carobolante, IoTissimo – Member
	Nitish Agarwal, SL Power – Member
	Manish Bhardwaj, TI – Member
	Denis Downey, Cisco – Member
	Dinesh Kithany, Wired & Wireless Technologies – Member
	Fred Weber, Future Tech WW – Member
X	Michelle Grissom, Flex – Observer
	Tracy Riggan, IPC – Observer



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	Teresa Rowe, IPC – Observer
	Hafiz Khalid - XP Power
	Jerry Strunk, ABB – Observer
	Peter Turlo, ONSemi – Observer
	Stephan Menzel, CapXon – Observer
	Henry Lee, CapXon – Observer

* Attending APEC

GREEN = NEW MEMBER, 1st MEETING (i.e. – introduce yourself)

RED = REMOVING MEMBER, NO ATTENDANCE AND/OR RESPONSE FOR LONG TIME, PURGING

ACTIONS (w/OWNER) HIGHLIGHTED BELOW

ACTION COMPLETED

NEW ITEMS

AGENDA:

- **APEC2025 PSMA Industry Session Presentation that presented**
 - IS06: “Reliability Redefined: Optimizing the Design-to-Production Transition for Superior Product Performance”
 - Session Date /Time: Tuesday, March 18, 2025 / 8:30 AM – 11:55 AM ET / A404/A405

	Presentation Start Time	Presentation End Time	Presentation Title	Presenter First Name	Presenter Last Name	Organization
IS06.1	8:30 AM	8:55 AM	Improving Power System Performance and Power Integrity using Time Domain Reflectometry (TDR)	Sathish kumar	Krishnananda	Tektronix
IS06.2	8:55 AM	9:20 AM	Smart Motors: Harnessing Sensor Data and AI for Predictive Maintenance	Vivek	Shivaram	Tektronix
IS06.3	9:20 AM	9:45 AM	Ideas for Practical Use Case of Advanced Power Management Telemetry for System Reliability and Predictive Maintenance	Tony Saurabh	Ochoa Jayawant	TDK
IS06.4	9:45 AM	10:10 AM	Joint GaN Technology Study	Elona	Lala	IBM
IS06.5	10:40 AM	11:05 AM	Verification of Additional Core Loss Due to Temperature, Voltage and Time at High Frequencies with Accelerated Voltage and Thermal Test	Efrain	Bernal Alzate	Würth Elektronik



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IS06.6	11:05 AM	11:30 AM	Digital Twin Software Reliability	Nathan	Burton	L3Harris
IS06.7	11:30 AM	11:55 AM	IPC 9592C Discussion	Eric	Swenson	IBM

- All presenters have been confirmed with presentations uploaded to the portal. With the exception of IS06.6 Digital Twin Software Reliability. Presenter declined. With this last minute cancelation we will work to move the IS06.7 speak up and use the last session as a open form to discus and have challenging dialog.
 - Follow up with Speaker Portal Admin to swap IS06.6 and IS06.7 02/07/25 – C. Yannarella
 - Send out questions to committee for review and additional input 02/07/25 – C. Yannarella
 - Potential questions and talking points:
 - Are we pushing silicon carbide (SiC) and gallium nitride (GaN) technologies too hard at the expense of long-term reliability?
 - Do newer materials and higher power densities mean faster degradation and higher failure rates?
 - Are utilities prepared for cyberattacks on power electronics-driven grid systems?
 - Are reliability standards (IEEE, NERC, etc.) outdated in the face of modern power electronics?
- PSMA 40th Anniversary - IPC Update _ IPC-9592 effort
 - Reach out to support IPC 9592 create brochures to attract contributions and leaders, brocher to be passed out at APEC Conference and to have available at main booth - E. Swenson
- APEC 2025 Meeting at APEC Areas of focus to discuss
 - Goals for upcoming year
 - What do we want to accomplish short term
 - What do we want to accomplish long term
 - What is needed to get the committee back on track and flourish
 - Increase membership/ participation
 - Consider another Webinar
- APEC 2025 Mentor Signup
 - Please signup using the link below to allow Ada to match you with a student mentee who is interested in your expertise:
 - <https://psma.com/node/7901>



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- **Key Dates**

- December 5, 2024 - Profile, Biography, and Photos Due
- January 10, 2025 - Draft presentations must be uploaded to the Industry Session Speaker Portal
- January 13, 2025 - Early Bird APEC Registration Closes
- February 14, 2025 - Final presentations in PowerPoint file format must be uploaded to the Industry Session Speaker Portal
- February 21, 2025 - The final version of the presentation with any corrections in PPT/PDF format are to be uploaded to the Presenter Portal.
- March 16, 2025— First day of APEC '25
- March 18, 2025 – Mandatory Speaker Briefing and Breakfast 7am, for last minute instructions, **IS06 GO TIME!!!**

- **Next Meeting**

- Monday March 17th, 2025 at 8am - 9am (PST) – Need to confirm with the committee