# 2022 JTCM Meeting Minutes – Harmonics WG (519 & 519.1)

## Meeting Location and Time

Garden Grove, CA – Hyatt Regency, Madrid room and Webex

2022 January 12  
8:00 AM – 10:00 AM PST

## MEEting Minutes

### Attendees

David Zech Andy Beckman

Nick Zagrodnik Emre Ozsoy

Alkesh Patel William Gee

Steven Johnston Francisc Zavoda

Kevin Kittredge Chester Li

Joe Grappe Vong Chan

Bill Howe Daniel Hill

Shreerang Ganu Dan Sabin

Andrew Sagl Julio Barros

Sharmeela Chenniappan Sivaraman P

Harish Sharma Justin Kuhlers

Andrew Martin Paul Ortmann

Grazia Todeschini Nikunj Shah

Kenn Sedziol Joseph Sneed

Gaurav Singh Anthony Murphy

Michael Kipness Matt Norwalk

Chris Mullins Tim Unruh

Tom Nelson Richard Oman

Mark Stephens Stephen Koshy

Nathan Kassees

The meeting was called to order by David Zech at 8:03am (PST). Minutes were recorded by Nick Zagrodnik.

### Old Business

IEEE mandatory legal slides were reviewed by the Chair. No patents were identified by the attendees.

Quorum was not established. Minutes from the 2021 JTCM will need to be approved via e-mail.

### New Business

Reviewed PAR timeline. Initial ballot and 1st recirculation complete. Received the necessary response and approval rate. Only a few outstanding comments to be reviewed, mostly editorial.

Reviewed changes to initial draft ballot. Current draft after 1st recirculation is draft 6. Nikunj asked if the entire comment resolution could be shared. Comments can only be shared once that ballot stage closes and can’t include identifying information of commenters. Dave to send comment resolution spreadsheet to WG members from initial ballot round.

Reviewed outstanding technical comments from recirculation 1.

Francisc proposed starting a task force to study how to appropriately measure higher frequency distortion/supraharmonics.

Discussion was had on comparing IEC related standards to IEEE 519 for setting compatibility levels for distortion above the 50th order.

IEEE 519.1 agenda topics:

Reminded volunteers to please submit contributions for the sections they volunteered to help draft by 3/1/2022.

Discussed PAR expiration for 519.1. Expires EOY 2022? Will need at least a complete draft in order to request another extension seeing that the PAR started in 2016 and has already been extended 1 year.

Held some roundtable discussion on how best to approach publishing material on distortion above the 50th order and interharmonics. Some suggested creating a new document similar to how IEC has done for higher frequency distortion (i.e. above 50th order, including interharmonics). Interharmonics is suggested to be included in 519/519.1, but only up to the 50th. One attendee asked the question, what frequency do we go up to? They pointed out that above 9 kHz, measurement techniques will need to change. Another member pointed out that the need to adjust measurement techniques can be addressed in 519.1.

Meeting adjourned at 10:00am (PST)

### Summary of Volunteers for Future Activities:

Shreerang Ganu already provided an example of a compliance report. Dan Sabin and Nikunj Shah to provide samples of compliance report examples to be used in 519.1 based on 519-2021, when published.

### Summary of ACtion items:

Dave to send out comment resolution sheet from initial ballot round to wg members.