

IEEE P1159.3 PQRIF Task Force Meeting

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Meeting Overview

- Overview of IEEE P1159.3 Revision Project
- Review of IEEE P1159.3 D18
- Next Steps and Next Meeting

Participants, Patents, and Duty to Inform

- All participants in this meeting have certain obligations under the IEEE-SA Patent Policy.
 - Participants [Note: Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2]:
 - “Shall inform the IEEE (or cause the IEEE to be informed)” of the identity of each “holder of any potential Essential Patent Claims of which they are personally aware” if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
 - “Personal awareness” means that the participant “is personally aware that the holder may have a potential Essential Patent Claim,” even if the participant is not personally aware of the specific patents or patent claims
 - “Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of such potential Essential Patent Claims” (that is, third parties that are not affiliated with the participant, with the participant’s employer, or with anyone else that the participant is from or otherwise represents)
 - The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group
 - Early identification of holders of potential Essential Patent Claims is strongly encouraged
 - No duty to perform a patent search



Call for Potentially Essential Patents

- If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance (LOA):
 - Either speak up now, or
 - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible, or
 - Cause an LOA to be submitted



Patent Related Links

- All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.
- Patent Policy is stated in these sources:
 - IEEE-SA Standards Boards Bylaw
 - <http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>
 - IEEE-SA Standards Board Operations Manual
 - <http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>
 - Material about the patent policy is available at
 - <http://standards.ieee.org/about/sasb/patcom/materials.html>

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit <http://standards.ieee.org/about/sasb/patcom/index.html>

This slide set is available at <https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset>.



Other Guidelines for IEEE WG Meetings

- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
 - Do not discuss the interpretation, validity, or essentiality of patents/patent claims.
 - Do not discuss specific license rates, terms, or conditions.
 - Relative costs, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.
 - Technical considerations remain primary focus
 - Do not discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
 - Do not discuss the status or substance of ongoing or threatened litigation.
 - Do not be silent if inappropriate topics are discussed ... do formally object.
- See IEEE-SA Standards Board Operations Manual, clause 5.3.10 and “Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association’s Antitrust and Competition Policy” for more details.



Introductions

IEEE P1159.3 Task Force

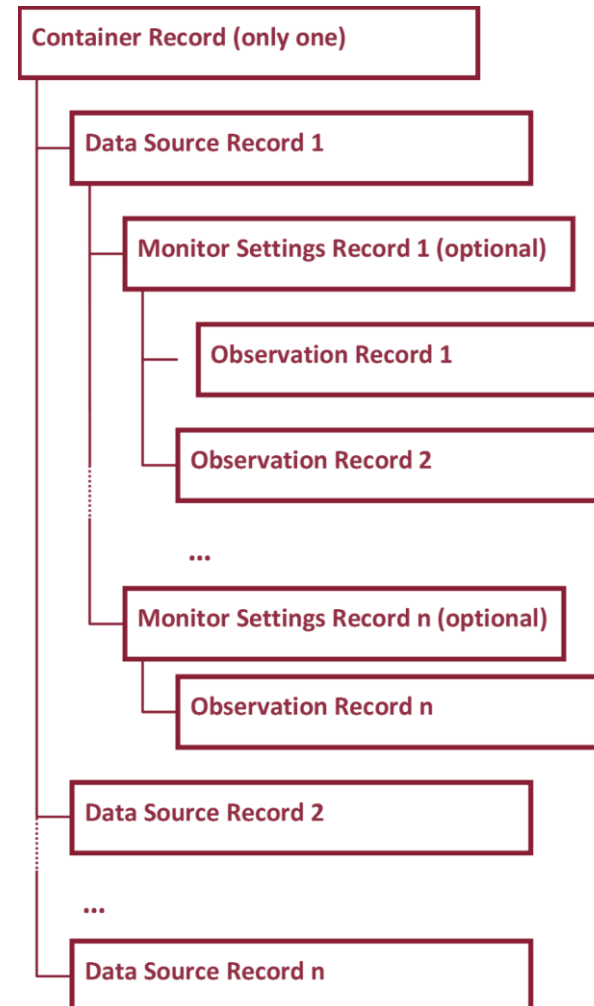
IEEE Power & Energy Society

- Transmission & Distribution Committee
 - Power Quality Subcommittee
 - <http://grouper.ieee.org/groups/td/pq/>
 - P1159.3 PQDIF Task Force
 - <http://grouper.ieee.org/groups/1159/3>
 - Chair: Dan Sabin
 - d.sabin@ieee.org
 - Secretary: Joe Grappé
 - joseph.grappe@duke-energy.com

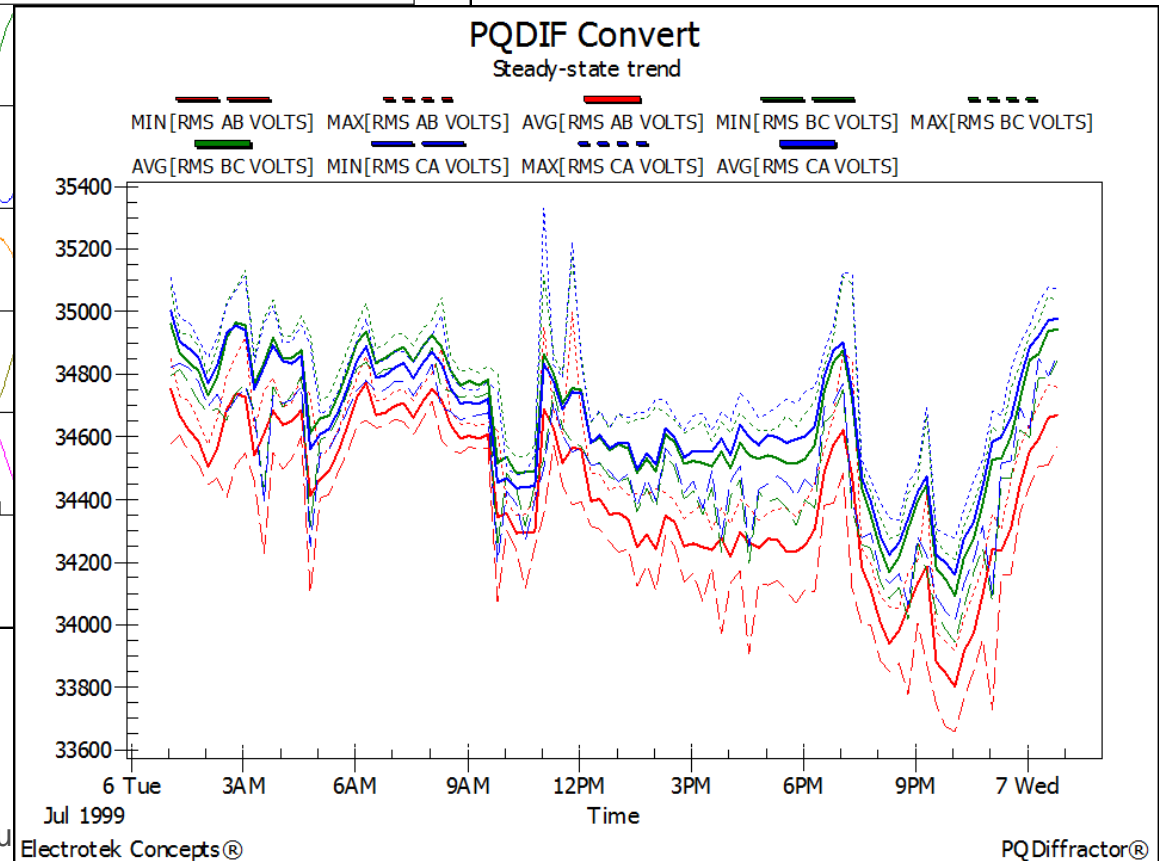
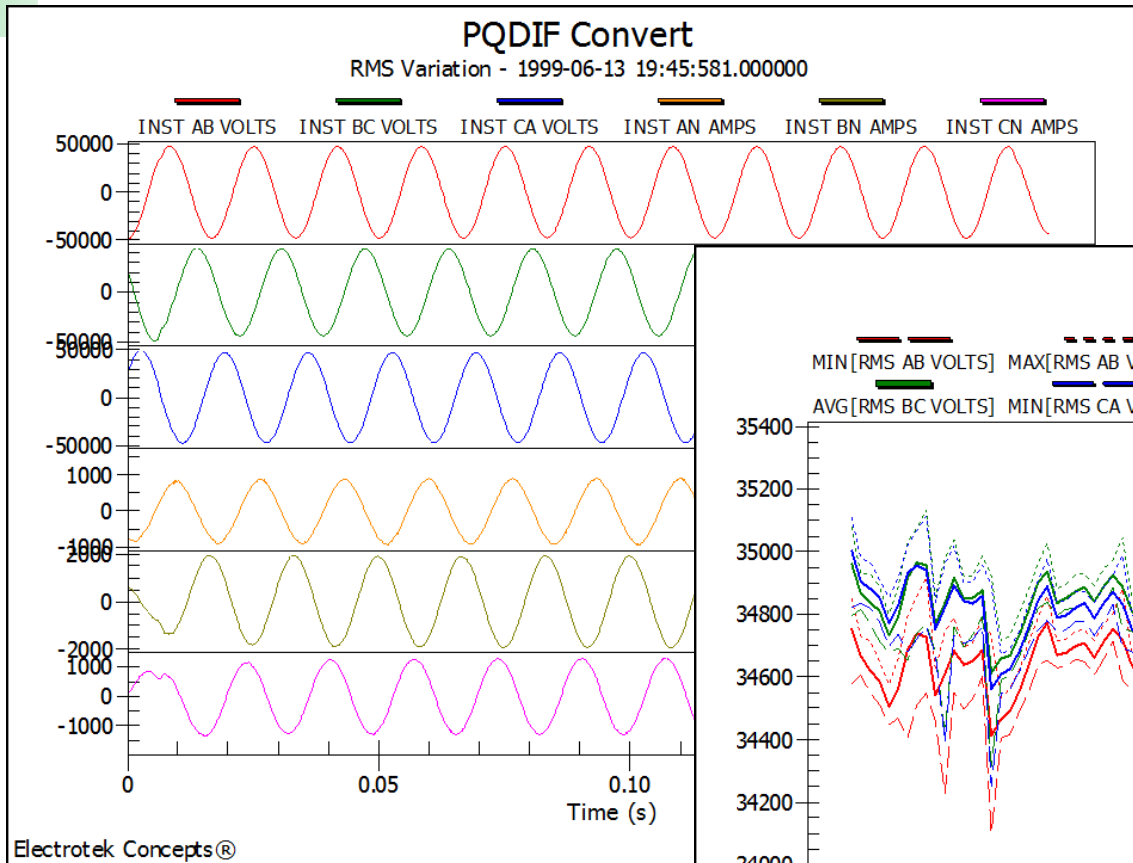
What is IEEE Std 1159.3 PQDIF?

- RMS Samples
- Phasors
- Mag-Dur Events
- Value Logs
- Scatter Charts
- Histograms

- Binary Format
- Extensible
- Lossless Compression
- Widely-Used Worldwide



Examples of Data Stored in IEEE 1159.3 PQDIF



P1159.3 Revision Title and Objectives Project

Title

Recommended Practice for Power Quality Data Interchange Format (PQDIF)

Objectives

1. To complete editorial changes and corrections to the 2003 edition of IEEE Std. 1159.3
2. To add new ID values for existing PQDIF tags
3. To add new tags and ID values
4. To add new quantity types
5. To add an annex on the representation of PQDIF in XML
6. To add an annex on PQDIF and its relationship to IEC 61850
7. To add an annex on PQDIF and its relationship to IEEE C37.111 COMTRADE

Deadline from Current PAR

December 2018

P1159.3 Revision Title and Objectives Project

- IEEE NesCom and RevCom
 - Last Meeting of 2018: October 15
 - Deadline for Agenda: September 6
- IEEE P1159.3 PAR Extension
 - Filed and approved on 2018 August 7 for the October 15 Meeting of NesCom

Meeting Overview

- Overview of IEEE P1159.3 Revision Project
- **Review of IEEE P1159.3 D18**
- Next Meeting

IEEE P1159.3 D17 and IEEE P1159.

- Submitted to IEEE-SA for Mandatory Editorial Coordination (MEC) in May 2018
- Editorial Changes Completed in June and July 2018 after MEC
 - Other Editorial Changes
- Result: IEEE P1159.3 D18
 - Submitted for Ballot on 2018 July 05
 - Ballot Opened on 2018 July 23
 - Ballot Closes on 2018 August 23

Draft 18: New Optional IDs for tagEquipmentID

- ID_EQUIP_UNIPOWER_UP2210
 - Unipower UP2210
- ID_EQUIP_UNIPOWER_UNILYZER901902
 - Unipower Unilyzer 901/902
- ID_EQUIP_UNIPOWER_UNILYZER900
 - Unipower Unilyzer 900
- ID_EQUIP_UNIPOWER_UNILYZER900C
 - Unilyzer 900C

Draft 18: Added Optional Tags for Monitor Location in tagRecDataSource

- tagLatitude
 - Geographic coordinate that specifies the north/south position of a point on the Earth's surface. Latitude should be stored as angular measurement ranging from 0° at the Equator to $+90^\circ$ at the North Pole and to -90° at the South Pole.
- tagLongitude
 - Geographic coordinate that specifies the east/west position of a point on the Earth's surface. Longitude should be stored as angular measurement ranging from 0° at the Prime Meridian to $+180^\circ$ eastward and -180° westward.

Draft 18: Removed “Absolute” Verbiage after MEC by IEEE-SA

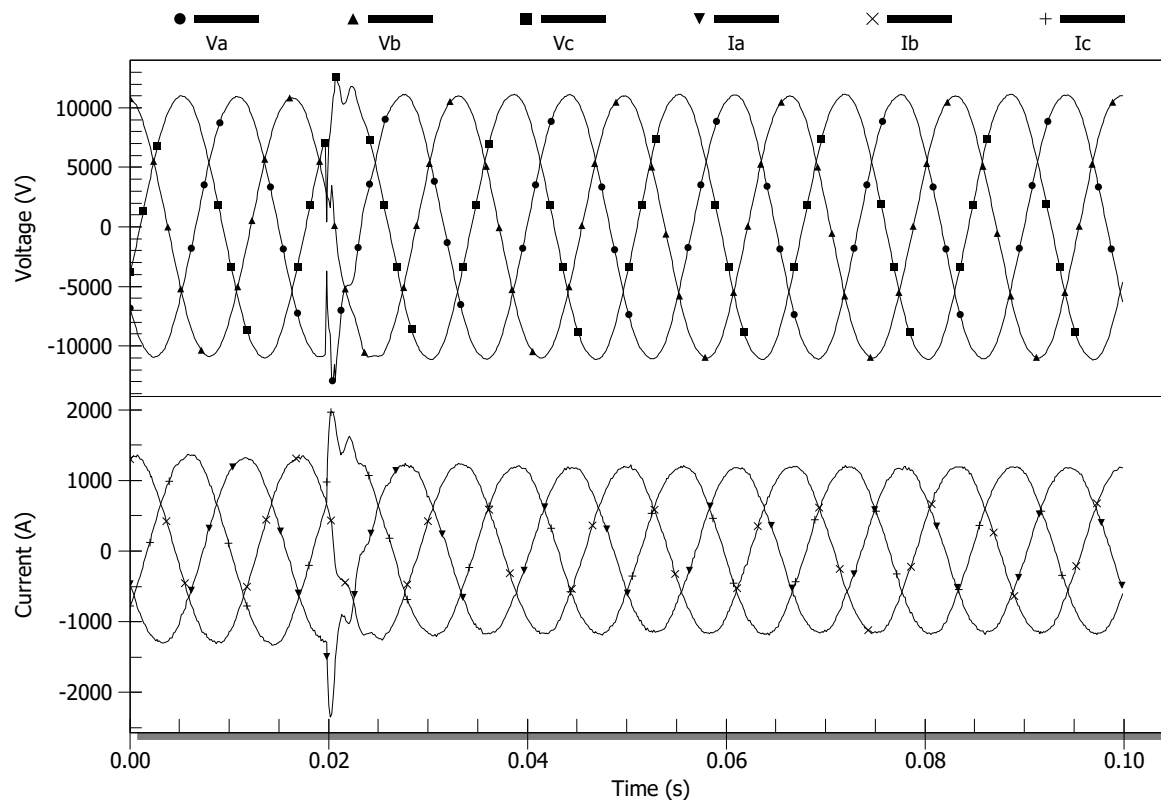
- Three instances of “minimize”
- One instance of “ensure”
- Four instances of “guarantee”

Draft 18: Thorough Spell Check and Grammar Check

- Spellchecked PQDIF Tag and ID Descriptions
 - Corrected in Microsoft Access tables where they reside rather in the Microsoft Word document itself
- For consistency, removed ending periods for descriptions that were not complete sentences
- Removed one instance of “pretty darn sure”

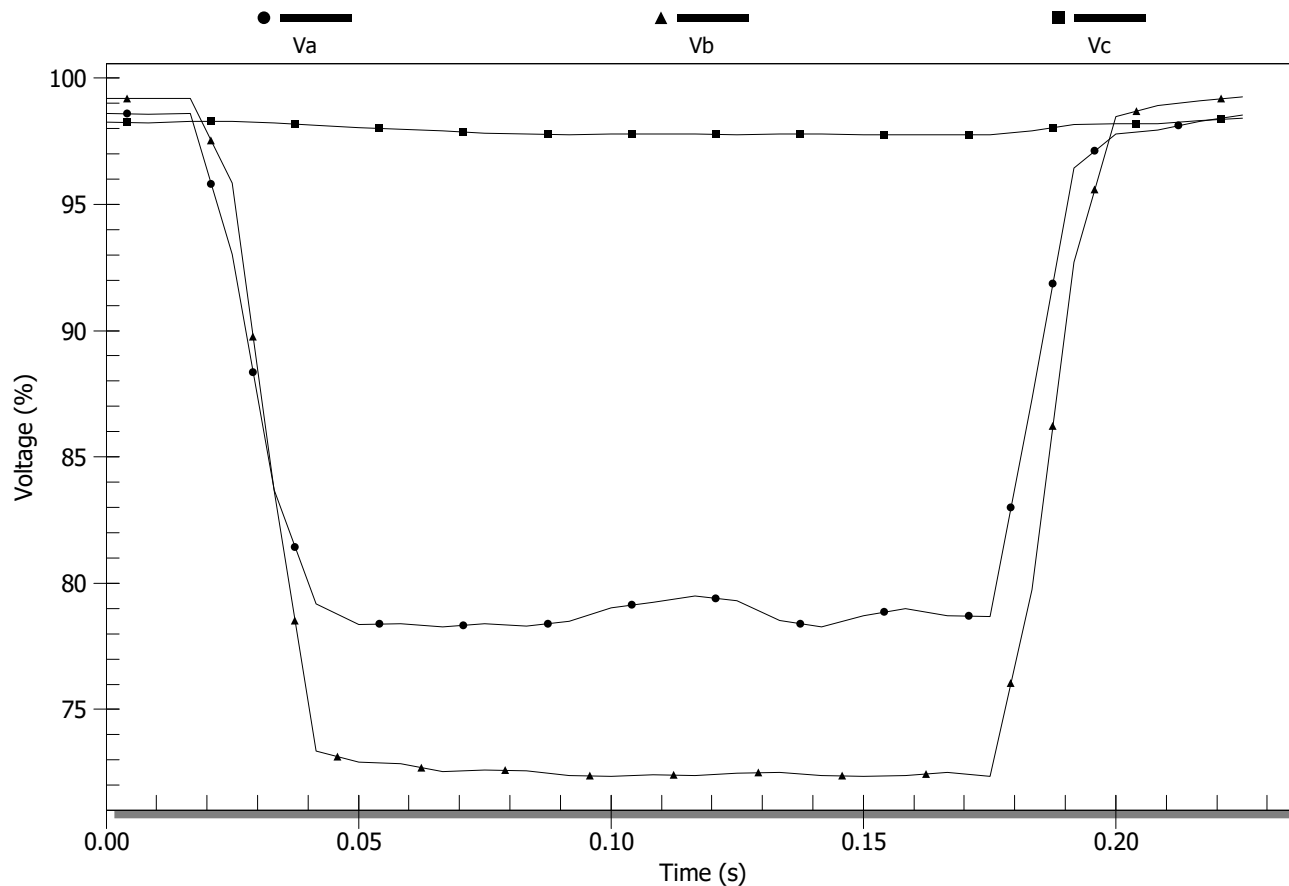
Draft 18: Replace Figures 8, 9, 10, 11 for Legibility (Request from IEEE-SA)

- Figure 8: Low Frequency Transient (Capacitor Switching)



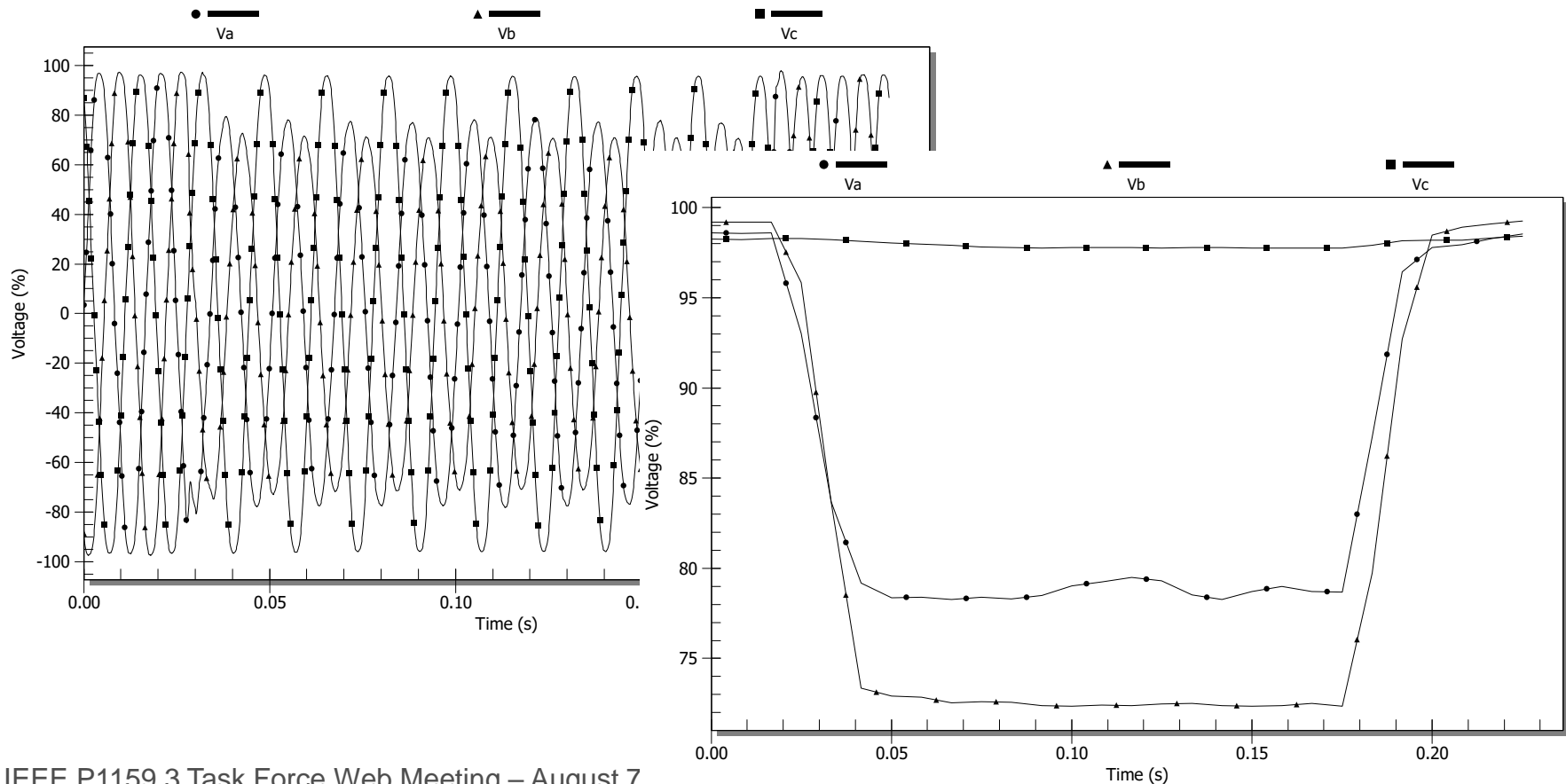
Draft 18: Replace Figures 8, 9, 10, 11 for Legibility (Request from IEEE-SA)

- Figure 9: RMS Variation Showing All Three Phases



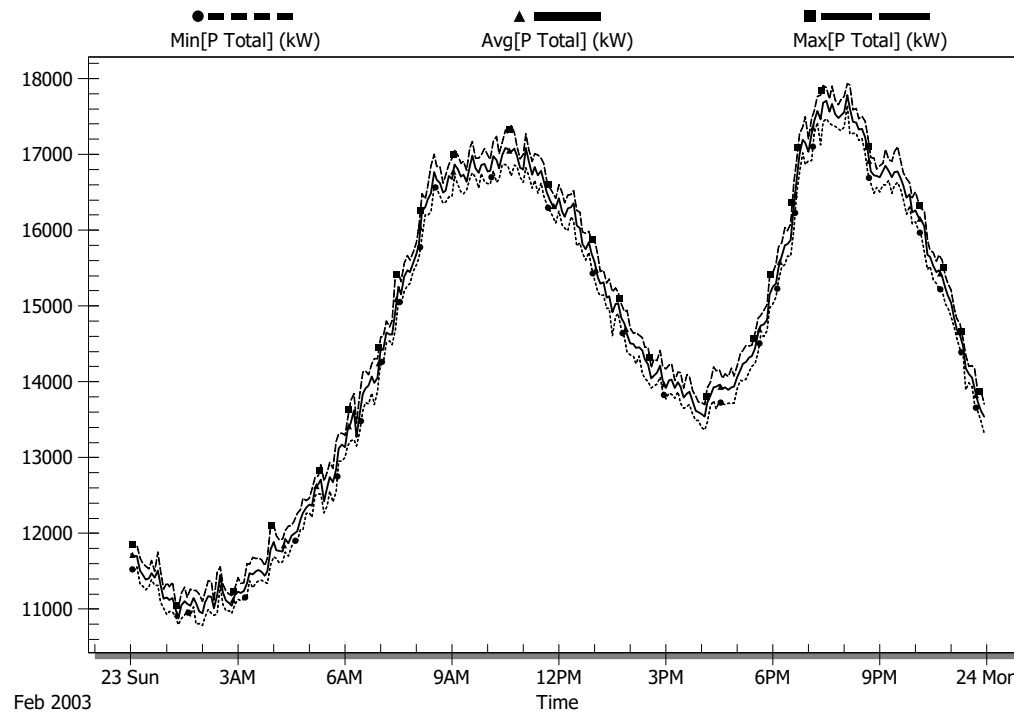
Draft 18: Replace Figures 8, 9, 10, 11 for Legibility (Request from IEEE-SA)

- Figure 10: RMS Variation Represented as Waveform and RMS Envelope



Draft 18: Replace Figures 8, 9, 10, 11 for Legibility (Request from IEEE-SA)

- Figure 11: Three Phase Real Power Trend



Next Steps

- Draft 18 is in Ballot with a close date of 2018 August 23
- If results require a recirculation:
 - We should have a web meeting to review and resolve them in September 2018.
 - Tentative Date: September 25 at 11:00 AM
 - We would recirculate in October 2018 after ballot resolution
- Upcoming RevCom Submission Deadlines
 - 2018 October 2018: too soon if recirculation is required
 - 2019 December 18
 - 2019 February 08

Next P1159.3 Task Force Meeting

- 2019 IEEE PES Joint Technical Committee Meeting
- January 7-9, 2019
- Orange County, California, USA