

IEEE/PCIC Subsea Electrical Working Group Committee

Subsea Electrical Power Transmission & Distribution
Design

Standards Development

P61886.4 Working Group Meetings

Location: PCIC 2015 Conference – Hilton America’s – 1600 Lamar St.
Houston, TX Level 4 – Room C

Saturday – Oct. 3rd, 2015 8:00 AM to 12:00 Noon



Meeting – Call to Order

- Date: October 3rd 2015
- Time: 8:00 am to 12:00 noon
- Location: Hilton America's – 1600 Lamar St. Houston, TX

P61886 Committee

Chairman: Roy Jazowski, HP Options
Vice Chair: Stephen Lanier, ExxonMobil
Vice Chair: Min Zhou, Shell Oil
Sec: Stevenson Dansby, Siemens

P61886.4 WG Committee

Chairman: Milton Korn, ABS
Vice Chair:
Vice Chair:
Sec:

P61886.4 Subsea Electrical Power Transmission & Distribution Design



Working Group P61886.4

Subsea Electrical Power Transmission & Distribution Design

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Scope

SECTION → 1 → Introduction ¶

1 → Scope ¶

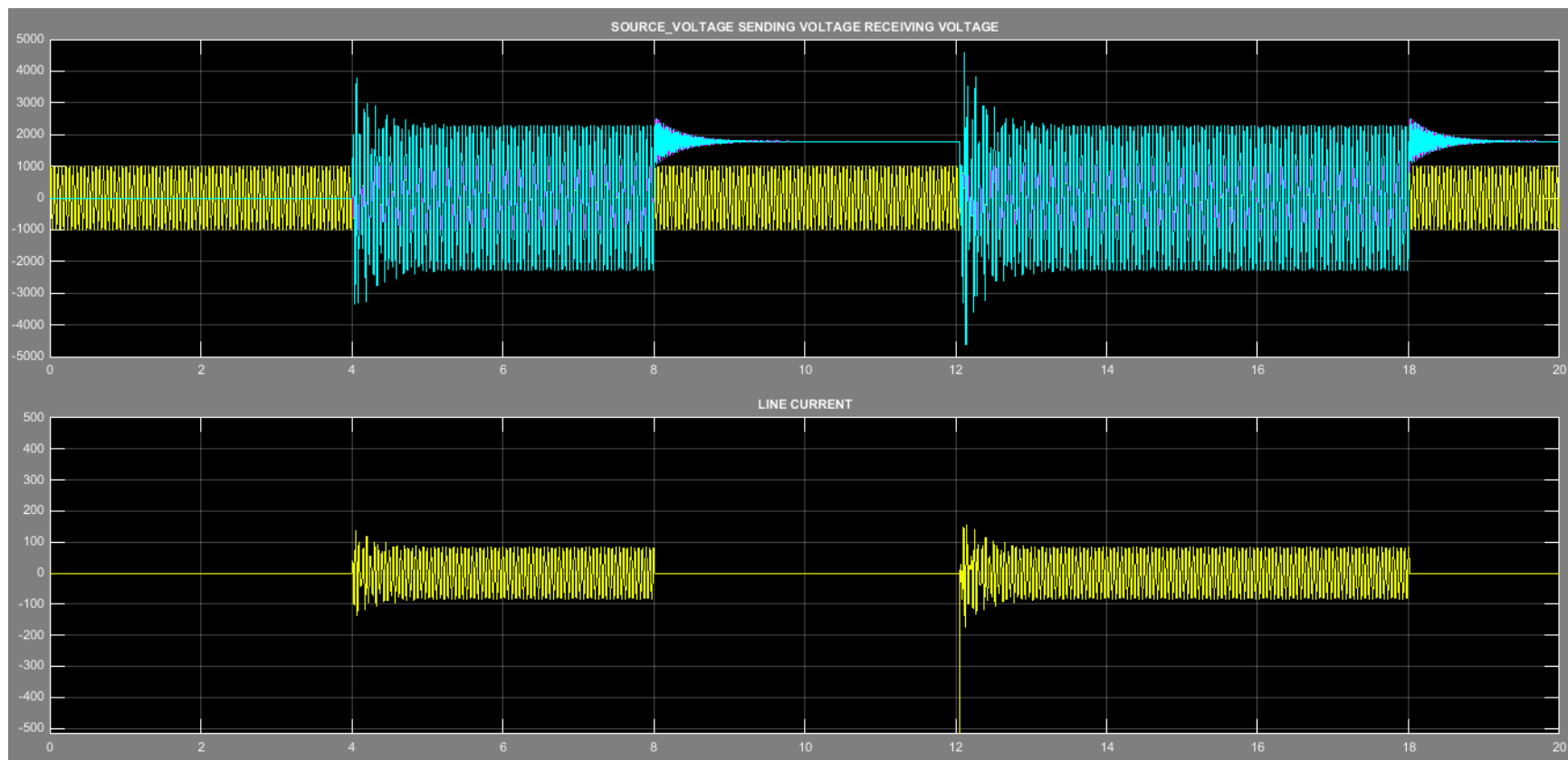
This standard is intended to cover shore-fed AC electrical power transmission and distribution terminating subsea. It is envisioned that consumers will be clustered around subsea distribution hubs and that the distribution hubs will be fed from taps that are located along the length of the shore-fed stepout. AC transmission voltages are to be determined by design. AC distribution voltages are from 3 kV to 36 kV. Power line frequencies are 60 Hz, 50 Hz, $16\frac{2}{3}$ Hz. The following are outside the scope of this standard; shore-to-platform/floater transmission, platform/floater-to-subsea distribution, DC transmission. ¶

Equipment

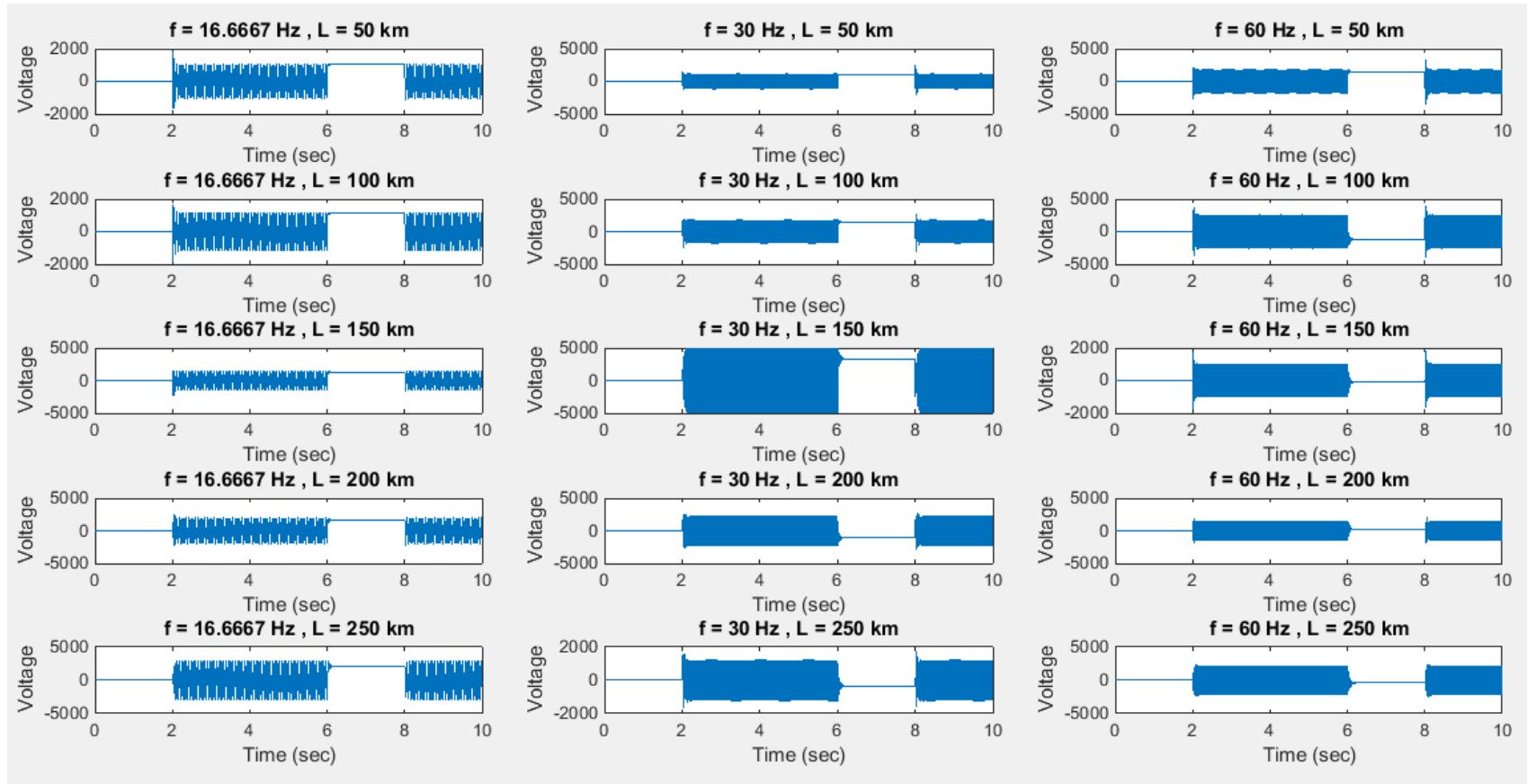
- The intention is not to cover equipment that is the subject of standards under development by other WG.

Insulation Coordination

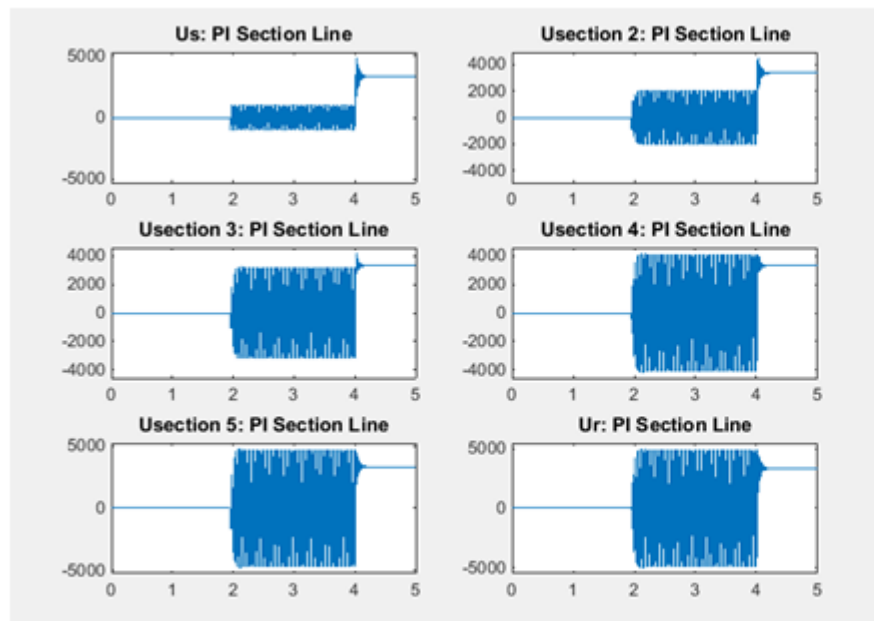
- Coordination of insulation of cables and equipment during normal and fault conditions.



Localized Over Voltage

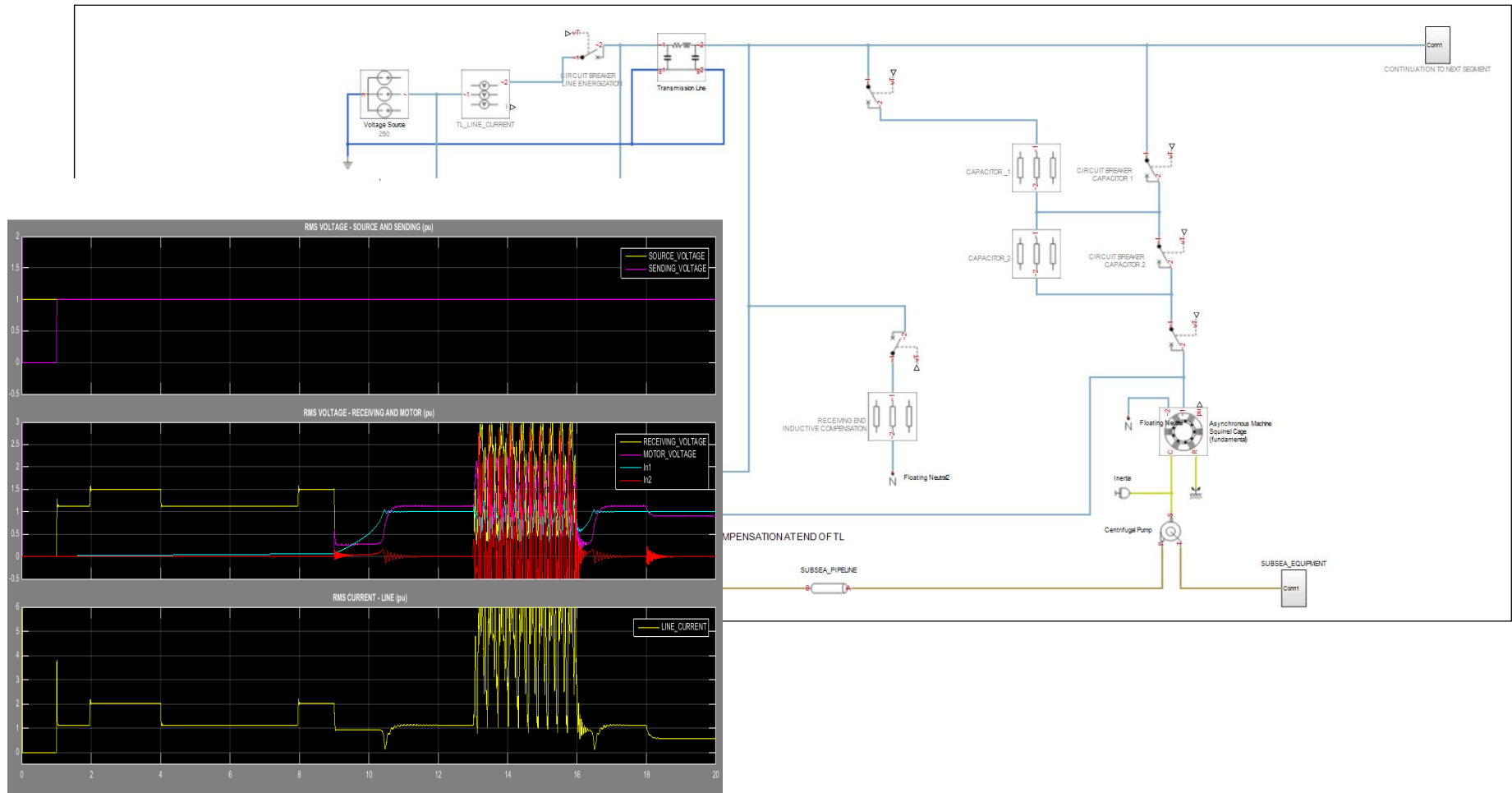


Modeling Techniques



- ▶ Cascading identical pi sections yields an approximation of the distributed parameter line.
- ▶ Cascading sections allows for inspection of voltage and current along the length of the line

Resonance/Compensation



Instructions to Join P61886 Working Group

1. Create an IEEE Account (http://www.ieee.org/go/create_web_account) if you do not have one
2. Once the IEEE Account Is Set-Up; visit (<https://mentor.ieee.org/subsea-wg/documents>) and click "Join Group"
3. Following clicking on: "Join Group" You should now have full access to the Subsea Electrical repository and mailing list.
4. After your request is accepted; you become a full member of the working group.
5. Your email and name will be automatically added to group roster and email list.
6. "Thank You" for joining IEEE P61886 Working Group!