

Minutes of Meeting
PAR Study Group C37.015 Guide for the Application of Shunt Reactor Switching

Location: Catamaran Resort, San Diego, CA – William D. Evans Boat, Level I

Date: Tuesday October 10th, 2023 (8:00-9:45 AM PDT)

Participants: 47 Total in Attendance

PAR Study Group Chair: Mike Crawford

PAR Study Group Secretary: Luke Collette

Call to Order and Introductions

Chair called the meeting to order and attendance recorded.

Agenda

Chair presented the agenda.

Review of Copyright and Patent Slides & Call for Patents

Patent and copyright policy presented by Chair. No Patent claims identified.

Current Status

PAR submitted to NesCom for review and approval.

Discussion on Proposed Revisions to the Document

The following is a summary of the discussion on proposed revisions to the document once an official WG is formed:

- Study guidance for reactor switching applications will be added to standard potentially as an Annex.
 - Items such as what is required from manufacturers for study input to be included.
- There are some manufacturers that utilize surge arresters across the pole to reduce the effect of reactor switching, as a solution to the reactor switching issues.
 - Mitigation options currently include the items in Table 1 (page 27).
 - It was asked if manufactures have test results that prove WHY those mediations are necessary, and if they are the correct solution?
 - Proposal to expand on this section of the document for clarity.
- A comment was made regarding the work of the previous Task Force created for shunt reactor switching.
 - The plan is to incorporate work from the previous TF which was disbanded into this WG.
- Delayed current zero situations should be explained.
 - This was included in C37.012, but if it makes sense this could be covered in the revision of this document.

- Proposal to include the chopping currents in the document for vacuum technology.
- Proposal to include surge arrester energy requirements when used as a mitigation solution.
- Wording “52kV” for tertiary reactors, is ‘52kV’ still valid?
 - Tertiary reactors do mostly use vacuum breakers (Mostly medium voltage, less than 38kV).
- Update shunt reactor estimates for capacitance in Annex.
 - Tables B.1/B.2 etc require review.
 - Will need to harmonize with C37.011-2019 where appropriate.
- Standard references need reviewed and updated.
- Consider adding a section for monitoring restrikes or reignitions and/or performance monitoring.
- Comment was made that when PAR is approved and iMeet is setup, ask IEEE-SA for copies of the reference documents to be placed on iMeet.

Volunteer Request

Chair asked for volunteers to review document before next meeting in Spring 2024 to be prepared for initiation of the work if the PAR is approved.

Adjournment

Meeting adjourned by the chair.

Reported by

Mike Crawford

Luke Collette



PAR Study Group

C37.015

Chair: Mike Crawford; Secretary: Lucas Collette

October 10, 2023

Agenda

- Call to Order
- Introduction of attendees
- Review of Patent and copyright slides
 - Call for patents
- Current Status
- Proposed revisions to C37.015-2017
- Volunteer Request
- Adjournment

Patent/Copyright

[Patent Slides](#)

[Copyright Slides](#)

Current Status

- PAR Submitted
 - [Link to PAR](#)

Proposed Revisions:

Discussion

- Add guidance for performing studies using digital simulation programs
 - Volunteers?
- Update References and Editorial
- Need for survey of users
 - Simple survey for users useful?
- Other ideas or interests for addition?

C37.015 Revision

- Request for volunteers

Adjourn

