#### Report to ADSCOM

#### C37.100.1 Common Requirements for AC High-Voltage Power Switchgear Rated Above 1000 V

#### Revision of 1<sup>st</sup> edition

- 1<sup>st</sup> edition published in 2007
- Current project began with 1st meeting in Fall of 2011 in Nashville
- 10<sup>th</sup> meeting held yesterday

## State of the Project

- Second ballot completed in January 2016
  - I55 members of the ballot group
  - 87% approval
  - Approval now approaching 94%
- Third ballot expected by July
- RevCom submittal anticipated in 3<sup>rd</sup> qtr.
- Good prospects that it yesterday's was the final meeting

- To serve as a common reference to high voltage standards
  - Addressing specifications that are common to more than one switchgear standards
  - Similar to:
    - C37.100.2 on common specs on capacitor switching
    - C37.100.5 on common terms and definitions
    - IEEE 4 on high voltage testing

- Promote harmonization between switchgear standards on specifications that are <u>common</u>:
  - Service conditions
  - Ratings
  - Testing

- Provide a template for switchgear standards
  - Clause numbering
  - Clause organization
  - Clause subject matter

• Promote harmonization between IEEE and IEC switchgear standards

## What is new of different?

- Clause numbering:
  - Hanging paragraphs eliminated (created new subclauses)
  - Decision to conform to IEEE Style Manual (more on this later)
- Organization
  - Some material relocated in document
  - (example: Temp rise table now in test clause)

## What is new of different?

- Treatment of service conditions:
  - Specifications are confined to clear and simple definitions of the environment in which the swgr is to operate
  - Statements or notes on how to address the service conditions in the design have been removed or moved to the construction section.

## What is new of different?

- Allowable temperature rise table
  - Reference now made to surrounding medium as OG (oxidizing gas) or NOG (not oxidizing gas)
  - Some allowable temperature rise limits have been increased based on IEC studies.
  - More information at this afternoon's technical session

# Clause numbering change

- 1<sup>st</sup> edition followed clause numbering of IEC 62271-1
  - Did not conform to IEEE Style Manual
  - Had permission from IEEE
  - Permitted easy comparison of the two documents
- IEEE will now require that we follow Style Manual
  - If not now with edition 2, by certainly later with edition 3
  - Decision: DO IT NOW!

Clause No.	IEEE Style Manual 2014 - 10.3	C37.100.1-ed. 2 Common Req'ts	C37.100.1-ed. 1 Common Req'ts 2007
1.0	Overview or Scope	Scope	General
1.1		not used	Scope
1.2		not used	Normative References
2.0	Normative references	Normative References	Service Conditions
3.0	Definitions	Definitions	Definitions
4.0	Not defined	Service Conditions	Ratings
5.0	Not defined	Ratings	Design & constr.
6.0	Not defined	Design & constr.	Design tests
7.0	Not defined	Design tests	Routine tests
8.0	Not defined	Routine tests	not used