



CIGRÉ

International Council on Large Electrical Systems

Liaison Report on SCA2 Transformers for IEEE Transformers Committee- Fall 2018 Meeting October 15, 2018

Jacksonville, FL

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Study Committees

- SC A1: Rotating Electrical Machines
- **SC A2: Transformers**
- SC A3: High Voltage Equipment
- SC B1: Insulated Cables
- SC B2: Overhead Lines
- SC B3: Substations
- SC B4: HVDC and Power Electronics
- SC B5: Protection and Automation
- SC C1: System Development and Economics
- SC C2: System Operation and Control
- SC C3: System Environmental Performance
- SC C4: System Technical Performance
- SC C5: Electricity Markets and Regulation
- SC C6: Distribution Systems and Dispersed Generation
- SC D1: Materials and Emerging Test Techniques
- SC D2: Information Systems and Telecommunication

SC A2 WG Activities

No.	Working Group	Торіс	Status
1	A2.43	Bushing Reliability	In process
2	A2.45	Transformer Failure Investigation	In process
3	A2/D1.46	Field Experience with transformer solid insulation	In process
4	D1/A2.47	New Frontiers of DGA Interpretation for Power Transformers and Their Accessories	In process
5	A2.49	Condition Assessment of Power Transformers	In process
6	A2/D1.51	PD Measurements	In process
7	A2/C4.52	HF Transformer and Reactor Models	In process
8	A2.53	FRA Interpretation	In process
9	A2.54	Audible Sound Requirements	In process
10	A2.55	Transformer Life Extension	In process
11	A2.56	Transformer Efficiency	In process
12	A2.57	Effects of DC Bias	In process
13	A2.58	Site Installation and Pre-commissioning of Power Transformers and Shunt Reactors	In process
14	A2.59	On-site assembly, On-site Rebuild, and On-site Testing of Power Transformers	In process

TF and AG activities

- Task Force (TF) Activities
 - Insulation Condition at End of Life: reference paper
- Advisory Group (AG) Activities
 - Green Book A2.6: Transformer Procurement Process
 - Developed for Users of Power Transformers
 - Specification Development
 - Factory Qualification
 - Design Review
 - Transportation
 - Site Installation
 - Publication by 2020

Upcoming New Working Groups

- **A2-60**: Dynamic Thermal Performance of Power Transformers
 - Completion 2023
- A2-61: Best Practices for On-Load Tap Changers (OLTC)
 - Completion 2022
- A2-62: Analysis of Transformer Reliability
 - Completion 2022
- A2-63: Transformer Impulse Testing
 - Completion 2023

If interested in contributing, please contact your appropriate CIGRÉ National Committee Representative.

Possible Future Working Group

- On-site Measurement of Sound Level
 - Installation Recommendations
 - Measurement Guidelines
 - Retrofit Mitigation Techniques
 - DC blocking
 - Sound panels
 - Etc.
 - WG anticipated to start in 2020

Upcoming Events

- CIGRÉ US Committee 2018 Grid of the Future
 - Reston, VA, October 28-31, 2018
- IEC/ CIGRÉ Conference on EHV-UHV AC and DC
 - Hakodate, Japan, April 23-26, 2019
 - Topics: Systems and T-Lines, Design of Equipment, Operational Experience, Testing
 - November 20, 2018 deadline for paper submission
- CIGRÉ A2 Colloquium "Transformer Research and Asset Management
 - Zagreb, Croatia, October 9, 2019
 - Topics: Numerical Modeling, Materials, Components and New Techniques, and Transformer Life Management
 - Paper Abstracts due by April 1, 2019
 - Full Paper submission by September 10, 2019
- A2/B3 Study Committee Colloquium
 - Delhi, India November 2019
- CIGRÉ Session 48
 - Paris, France, August, 2020



IEEE Liaison Report



THANK YOU!