



# **CIGRÉ**

## **International Council on Large Electric Systems**

Liaison Report on SCA2 Transformers for  
IEEE Transformers Committee-  
Spring 2021 Meeting  
April 26, 2021

Prepared by Craig Swinderman

# 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

# Recent Publications

- **Brochure 783: DGA Monitoring Systems**
  - From Joint Working Group D1/A2-47
  - Brochure published November 2019

# SC A2 WG Activities

No.	Working Group	Topic	Status
1	A2.45	Transformer Failure Investigation	Active
2	A2/D1.51	PD Measurements	Active
3	A2/C4.52	HF Transformer and Reactor Models	Active
4	A2.53	FRA Interpretation	Active
5	A2.54	Audible Sound Requirements	Active
6	A2.55	Transformer Life Extension	Active
7	A2.56	Transformer Efficiency	Active
8	A2.57	Effects of DC Bias	Active
9	A2.58	Site Installation and Pre-commissioning of Power Transformers and Shunt Reactors	Active

# SC A2 WG Activities

No.	Working Group	Topic	Status
10	A2.59	On-site assembly, On-site Rebuild, and On-site Testing of Power Transformers	Active
11	A2.60	Dynamic Thermal Performance of Power Transformers	Active
12	A2.61	Best Practices for On-Load Tap Changers (OLTC)	Active
13	A2.62	Analysis of AC Transformer Reliability	Active
14	A2.63	Transformer Impulse Testing	Active
15	A2.64	Condition of Cellulose Insulation in Oil Immersed Transformers After Factory Acceptance Tests	Active

# TF and AG activities

- Task Force (TF) Activities
  - Insulation Condition at End of Life: reference paper
  - Published in August 2020
- 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 fall 2021

# Upcoming New Working Groups

- **D1/A2-77: Liquid Tests for Electrical Equipment**
  - Completion February 2023
  - WG approved 3/24/2020.

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

# Upcoming Events

- **CIGRÉ Centennial Session 2021**
  - Palais des Congrès, Paris, France, August 20-25, 2021
- **CIGRÉ A2/B3 Study Committee Colloquium**
  - Bucharest, Romania, October 11-13, 2021
  - Paper manuscripts submitted by June 31, 2021
- **CIGRÉ US Committee 2020 Grid of the Future**
  - Providence, RI, October 17-20, 2021
  - Hosted by National Grid
  - Paper manuscripts submitted by July 30, 2021
- **CIGRÉ Symposium**
  - Ljubljana, Slovenia, November 21-24, 2021





## IEEE Liaison Report

THANK YOU!