

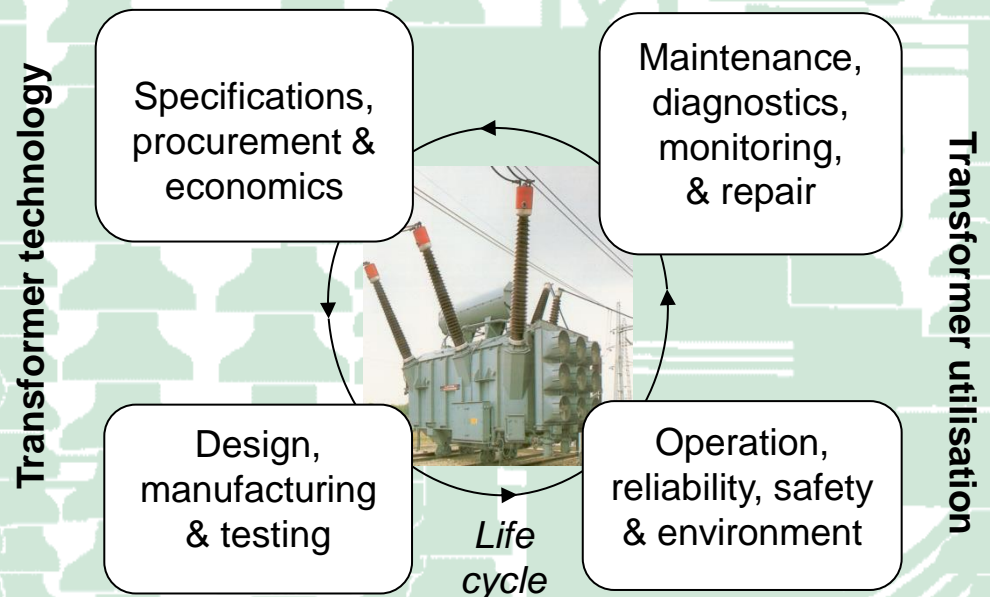
# The Transformer Committee (SC A2) Raj Ahuja

## Scope

Design, construction, manufacture and operation for all kinds of power transformers, including industrial, DC converters and phase-shift transformers and for all types of reactors and transformer components (bushing, tap-changer...)

**In the past** ( *known as SC12* ) activities were focussed on design problems related to the rapid increase of rated voltage and power

## Today's SC A2 Key Domains



**Chairman: Claude Rajotte (CA)**

**Secretary: Patrick Picher (CA)**

## Present SC A2 Activities- Raj Ahuja

- 24 regular members
- 19 observer members
- 13 WG's and 6 JWG's
- Almost 350 experts from more than 40 countries
- 5 AG's



# Present SC A2 Working Groups - Raj Ahuja

**WG A2-37: Transformer Reliability Survey**

**WG A2-38: Transformer Thermal Modelling**

**WG A2.42: Guide on transformer Transportation**

**WG A2.43: Transformer bushings reliability**

**WG A2.44: Transformer Intelligent Condition Monitoring**

**WG A2.45: Transformer Failure Investigation and post-mortem Analysis**

**WG A2.48: Technology and utilization of Oil Insulated High Voltage Shunt Reactors**

**WG A2.49: Condition Assessment of Power Transformers**

**WG A2.50: Effect of the distributed energy sources and consequent induced reverse power flow (step up) on transmission & distribution transformers**

**WG A2.53: Objective interpretation methodology for the mechanical condition assessment of transformer windings using Frequency Response Analysis**

**New WG A2.55 - Life Extension of Oil Filled Transformers and Shunt Reactors**

**New WG A2.56 – Power Transformer Efficiency**

**New WG A2.57: Effect of DC Bias on Transformers**

**JWG A2.54: Power transformer audible noise requirements**

**JWG A2/D1.41: Oil conductivity under DC condition**

**JWG A2/D1.46: Field experience with transformer solid insulating ageing markers**

**JWG D1/A2.47: New frontiers of Dissolved Gas Analysis (DGA) interprétation for power Transformers and their accessoires**

**JWG A2/D1.51: Improvement to Partial Discharge Measurements for Factory and Site Acceptance Tests of Power Transformers**

**JWG A2/C4.52: High-frequency transformer models for non-standard waveforms**



# Recent BROCHURES and Activities – Raj Ahuja

<i>Scope</i>	<i>Ref</i>	<i>Year</i>
Guide for Specifications	528	2013
Guide for Design Review	529	2013
Guide for Factory Capability Assessment	530	2013
Guide for Fire Safety	537	2013
Transient Interac.Transformers & Power System	577	2014
Copper Sulphide Long Term Mitig.& Risk assessment	625	2015

## **2016 Paris Session**

- Advances in Transformer Diagnostics and Monitoring
- EHV/UHV and EHVDC/UHVDC Transformers and their components
- Transformer Windings

## **2015 Shanghai Colloquium**

- EHV/UHV and EVHDC/UHVDC Transformers and its components
- Equipment technologies for substations of the future and Smart Grid - in collaboration with SC A3 and SC B3
- Making the Best use of the Existing transformer fleet