

## 6.0 VICE CHAIR'S REPORT – SUSAN MCNELLY

The Vice-Chair's Report was presented at the Monday General Session.

### 6.1 IEEE PES CALENDAR OF UPCOMING EVENTS

The following are upcoming PES sponsored conferences and committee meetings. Please check the PES website at [www.ieee-pes.org](http://www.ieee-pes.org) for further details, and additional events.

#### [2018 IEEE PES TRANSMISSION AND DISTRIBUTION CONFERENCE AND EXPOSITION](#)

April 16 - 19, 2018, Denver, Colorado

#### [2018 IEEE/PES General Meeting](#)

August 5 – 9, 2018, Portland, Oregon

## 6.2 CONFERENCE PAPER SUBMITTALS FOR 2018

### 6.2.1 2018 IEEE PES TRANSMISSION AND DISTRIBUTION CONFERENCE AND EXPOSITION – APRIL 16-19, 2018, DENVER, COLORADO

Paper reviews and accept/reject decisions were not yet final at the writing of this report.

Papers Submitted: 13

IEEE Transaction Papers: 0

Transferred in: 1

Rejected: 3

Approved: 8

Under Review/Revision: 2

Best Paper: TBD

Forum: TBD

Poster Session: TBD

Paper	Title	Recommendation
18TD0042	Online Monitoring Data Cleaning of Transformer Considering Time Series Correlation	Pending review
18TD0048	Electric Substation Large Power Equipment Innovative and Cost Effective Methods for Repairing Oil and Gas Leaks	Rejected
18TD0085	Online Sequential Extreme Learning Machine for Partial Discharge Pattern Recognition of Transformer	Accept
18TD0102	Newly Developed, Optimized, and Cost-Effective Submersible Dry-Type Network Transformers	Accept
18TD0107	Residual Magnetic Flux of Three-Phase Three-Leg Transformer for Controlled Switching	Accept
18TD0133	Limiting Voltage Dips and Inrush Currents When Energizing Power Transformers	Accept
18TD0167	Submersible Transformer Inspection Robot (STIR) - A Change of Paradigm	Accept
18TD0225	Bushing 101 Design, Application, Field Issues, Solutions and New Technology	Rejected
18TD0257	Understanding the Sympathetic Inrush Phenomenon in the Power Network using Transformer Explorer	Pending review
18TD0283	Ester-based Dielectric Liquid for Grid Resilience and EHV Mobile Transformers	Accept

Paper	Title	Recommendation
18TD0398	High temperature insulation systems: an option for resilient transformers	Accept
18TD0401	Monitoring Gas Generation in Transformers	Accept
18TD0448	765 KV BUSHING FLASHOVERS CASE STUDY	Rejected

Panel Session submittals:

### Three Panel Applications Submitted

Title	Duration	Moderator	Expected Recommendation
Keeping grids resilient – Transformer exchange within a few days and further options to maximize network stability (along the entire energy value chain)	4 Hrs	E. Schweiger	Accept
Improving grid stability with variable shunt reactors and phase shifters	2 Hrs	J McIver	Accept
Welcome to the future: sustainable urban energy	4 Hrs	J McIver	Reject

### 6.2.1 IEEE/PES GENERAL MEETING - AUGUST 5 - 9, 2018, PORTLAND, OREGON

Paper submittals are still in progress at the writing of this report.

### 6.3 IEEE TRANSACTIONS ON POWER DELIVERY TO DATE IN 2017

Status as of October 21, 2017 - Submitted by Wilsun Xu:

#### Summary:

No decision	9
Accept Without Changes	11
Review and Resubmit	3
Administrative Reject	0
Editorial Reject	4
Reject - Do Not Resubmit	<u>30</u>
<b>Total</b>	<b>57</b>

#### Complete Listing of Transaction Papers Submitted to Date:

Manuscript ID	Manuscript Title	Decision
TPWRD-00031-2017	Design Optimization of Distribution Transformers with Nature-Inspired Metaheuristics - A Comparative Analysis	Editorial Reject
TPWRD-00036-2017.R1	Real-Time Evaluation of the Dynamic Loading Capability of Indoor Distribution Transformers	Accept Without Changes
TPWRD-00040-2017	Using a 3D Simulation to Study the Frequency Response of Transformers: a Case Study	Reject
TPWRD-00046-2017	The Saturation Processes in the Magnetic System of the Three-phase Power Transformer during Simultaneous AC and DC Flow in the Winding	Reject
TPWRD-00054-2017	Short Circuit Fault Analysis of Delta-ZigZag Transformer	Editorial

		Reject
TPWRD-00113-2017	Transformer Tank Rupture Withstand Capacity – A Sensitivity Study on Tank Flexibility and Gas Generation	Reject
TPWRD-00123-2017	A Systems Theoretic Approach to Transformer Monitoring	Reject
TPWRD-00172-2017.R1	Evaluating Failure Probability of Power Transformers based on Insulation Loss of Life	Reject
TPWRD-00246-2016.R3	Non-minimum phase effects in transformer low-frequency bandwidth responses	Accept Without Changes
TPWRD-00320-2017.R1	Decision-Making in Emergency Operation for Power Transformers with Regard to Risks and Interruptible Load Contracts	Accept Without Changes
TPWRD-00366-2017	Single-phase inductive elements' magnetic cores faults study using FRA approach	Reject
TPWRD-00432-2017	Transformer Winding Disk Deformation: A Precise Step towards Understanding of Variation in Frequency Response Spectrum	Reject
TPWRD-00452-2017.R2	Estimating the Equivalent Air-cored Inductance of Transformer Winding from Measured FRA	Accept Without Changes
TPWRD-00478-2017	Development of a Hot-Spot Temperature Calculation Method for the Loss of Life Estimation of an ONAN Distribution Transformer	Reject
TPWRD-00488-2017	Practical Experience in Modeling GIC Effects on Three-Phase, Five-Leg Transformers	Reject
TPWRD-00515-2017.R1	Experimental Verification of Dimensional Analysis Results on Flow Distribution and Pressure Drop for Disc Type Windings in OD Cooling Modes	Accept Without Changes
TPWRD-00520-2017	A Comparison of Different Transformer Modeling Methods in Transient Recovery Voltage Studies in Case of Transformer Limited Faults	Reject
TPWRD-00521-2017	Frequency Response Analysis (FRA) of Transformers as a Tool for Fault Detection and Location: A Review	Reject
TPWRD-00523-2017	A Novel Digital Pressure Protection for Oil-Immersed Power Transformers	Reject
TPWRD-00537-2017.R1	Noniterative Method for Combined Acoustic-Electrical Partial Discharge Source Localization	Revise and Resubmit
TPWRD-00541-2017	Buckling Strength Analysis of Transformer Inner Windings	Editorial Reject
TPWRD-00543-2017.R1	Internal Faults Discrimination and Classification During Transformer Energization Using Extended Kalman Filter and Support Vector Machine	
TPWRD-00550-2017.R1	On Savitzky-Golay Filtering for Online Condition Monitoring of Transformer On-Load Tap Changer	Accept Without

		Changes
TPWRD-00554-2017.R2	Frequency Response Features of Axial Displacement Winding Faults in Autotransformers with Split Windings	Accept Without Changes
TPWRD-00652-2017	Contribution of Inrush Current to the Mechanical Fatigue of Transformer Windings	Reject
TPWRD-00667-2017.R1	Novel DC Bias Suppression Device Based on Adjustable Parallel Resistances	
TPWRD-00671-2017	Multi-parametric Sensitivity Analysis of Improved Transformer Thermal Models Considering Nonlinear Effect of Oil Time Constant	Reject
TPWRD-00737-2017	A Markovian Model for Power Transformer Maintenance	Reject
TPWRD-00772-2017	Study of the Parameters Affecting The Resonance Stresses In The High Voltage Power Transformers	Reject
TPWRD-00774-2017	A Probabilistic Approach for Forecasting the Allowable Current of Oil-Immersed Transformers	Revise and Resubmit
TPWRD-00783-2017	Three-dimensional Thermal Modeling of Transformers in Transformer Room for Spatial and Temporal Failure Analysis	Reject
TPWRD-00801-2017	Graded Interleaving of EHV Transformers for Improved Transient Response against Surge Type Incident Voltages	Reject
TPWRD-00831-2017	Characterization of Power Auto-transformer FRA Signature: Experimental and FEM Study	Reject
TPWRD-00868-2017	Reduction of Distribution Transformer Failures Rates by Diagnoses and Isolating Mechanism	Reject
TPWRD-00882-2017.R1	Calculating a Health Index for Power Transformers Using a Subsystem-based GRNN Approach.	
TPWRD-00927-2017	New Transformer Inrush Current Limiting Technology based on Three Pole Simultaneous Switch Control Method	
TPWRD-00957-2017	Magnitudes and characteristics of tank vibrations of Power Transformers	
TPWRD-00998-2017	Experimental Data Based Current Transformer Mathematical Simulation in Micro-Cap Program	Reject
TPWRD-01009-2017	Retrofitting the BCTRAN Transformer Model with Non-Linear Magnetizing Branches for the Accurate Study of Low-Frequency Saturating Transients	Revise and Resubmit
TPWRD-01043-2017	Localization of Partial Discharge in Transformers with Convolutional Iterative Filtering	Editorial Reject
TPWRD-01058-2017	Saturable Reactor Hysteresis Model Based on Jiles–Atherton Formulation for EMT Studies	Reject
TPWRD-01126-2017	Topology Correct Reversible Model of Three-Phase, Five-Limb Transformer	

TPWRD-01137-2017	Advanced On-line Condition Monitoring and Inter-turn Short Circuit Detection of power transformer of Power Transformers	
TPWRD-01154-2017	Evaluation of Full-Wave Response of Transformer Windings	
TPWRD-01175-2017	Experimentally Validated Method to Measure the $\lambda$ -i Characteristics of Asymmetric 3phase transformer	
TPWRD-01253-2016	Split-Winding Transformer Design Using New Hybrid Optimization Algorithm Based on PSO and I-BB-BC	Reject
TPWRD-01274-2016	Classification and Discrimination among Winding Mechanical Defects, Internal and External Electrical Faults and Inrush Current	Reject
TPWRD-01275-2016.R2	An Online Data-Driven Technique for the Detection of Transformer Winding Deformations	Accept Without Changes
TPWRD-01313-2016.R2	A New Leakage Flux Based Technique for Turn to Turn Fault Protection and Faulty Region Identification in Transformers	Accept Without Changes
TPWRD-01322-2016.R1	A New Analytical Model for Transformer Saturation and Inrush Current	Reject
TPWRD-01323-2016	Mixed core design for power transformers to reduce core losses	Reject
TPWRD-01391-2016.R2	Interpretation of Hot Spot Factor for Transformers in OD Cooling Modes	Accept Without Changes
TPWRD-01397-2016	Analysis of Ability to Withstand DC Bias in Power Transformers Using a Novel Analytical Criteria	Reject
TPWRD-01403-2016.R1	An Integrated Filtering Technique for the Detection of Current Transformer Saturation	Reject
TPWRD-01407-2016	Current Status and Future Trends in Condition Monitoring of On-Load Tap-Changers	Reject
TPWRD-01484-2016.R1	Investigation of Thermal Behavior of an Oil Directed Cooled Transformer Winding	Accept Without Changes
TPWRD-01507-2016	A Model for Calculating Transformer Hot-Spot Temperature Considering Multiple Overloads	Reject

Respectfully,  
Susan McNelly  
Vice Chair  
October 29, 2017