

Unapproved Minutes
IEEE/PES Transformers Committee
Standards Subcommittee Meeting
March 16, 2005
Jackson, Mississippi

1. Meeting Attendance

- a. The Standards Subcommittee met on Wednesday, March 16, 2005, at 4:30 PM. There were 15 members and 21 guests present.

2. Approval of previous meeting minutes

- a. The meeting minutes from the Fall, 2004 meeting in Las Vegas was approved as written.

3. Working Group Report

- a. Continuous Revision of C57.12.00 & C57.12.90 – Subhash Tuli, WG Chair
 - i. Draft 3 of the documents are being developed to address the many comments and negatives on metrification received from the D2 ballot in 2002.
 - ii. Subhash made a commitment to complete the required work on both PC57.12.00 and PC57.12.90 for recirculation ballot submittal prior to the next meeting in Memphis, TN.
 - iii. Due to the time lapse since the D2 ballot, arrangements are being made with IEEE SA staff to update the email address list of the D2 ballot pool.
- b. C57.12.80 – Terminology for Power & Distribution Transformers – Tim Raymond, WG Chair
 - i. Work is currently underway to pursue an amendment to C57.12.80-2002 in order to incorporate the new definition of *thermally-upgraded paper*. A PAR for amendment will need to request from IEEE SA. Mr. Raymond will pursue obtaining the PAR.
- c. IEEE 62 – IEEE Guide for Diagnostic Field Testing of Power Apparatus – Part 1: Oil Filled Power Transformers, Regulators, and Reactor. – Wally Binder, WG Chair
 - i. Bill Chiu provided status update on Wally Binder's behalf. The reaffirmation package has been submitted to RevCom for approval. Result is expected in the March, 2005 Standards Board meeting. All indications are the reaffirmation will be approved.

4. Old Business

- a. IEEE/IEC Dual Logo
IEEE C57.135 / IEC 62032 Guide for Application, Testing, Installation and Operation of Phase Shifting Transformers – Approved in December, 2004
- b. Future IEEE IEC Dual Logo candidates – See attached list.
While there were some discussions on the standards listed in the attached list. There were no changes made. Bill Chiu announced a decision made from the

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AdCom meeting not to pursue any immediate dual logo standards until some outstanding issues on maintenance of these dual logo standards.

- c. NEMA Standards – Status update on obtaining electronic copies of the NEMA documents
 - i. These NEMA standards are no longer available in the original Word format. Other method such as Adobe Acrobat will help in reducing the amount of retyping.
- d. TF on IEC/IEEE Cross Reference - IEC TC10, TC14, TC36 and TC98 – Steve Beckman, TF Chair
 - i. The objective of the TF is to provide a cross reference of IEEE/IEC Standards - IEC TC10, TC14, TC36 and TC98 and the IEEE C57 series

Task Force Chair contact info:
Stephen Beckman
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 - ii. The current available references are:
 - 1. Excel Spreadsheet from IEEE
 - 2. PDF file from Jin Sim on the comparison of requirements (dated back in 1998)
- e. C57.12.00 Section Reference – Don Platts
 - i. Don Platts presented a list of major clauses in C57.12.00 with responsible subcommittee based on Bill Chiu and Suhbash Tuli's initial input. Bill Chiu will take the action item of sending out the list to all of the subcommittee chairs for review and comment.

5. New Business

- a. C57.12.00 and C57.12.90 Continuous Revision Discussion
The continuous revision process so far has not been successful due to the lengthy delays caused by the metrification issues and the round-trip conversions between Word and FrameMaker.
- b. Formation of New WG for C57.12.00.
The subcommittee chair discussed the challenges of a combined working group to coordinate all of the C57.12.00 and C57.12.90 revisions. The large amount of work in resolving the negative ballots from these two documents will be overwhelming for just one working group to handle. A proposal was made at AdCom to split up this working group into two separate working group; this proposal was approved by the AdCom pending the selection of the working group chair. Effective on January 1, 2006, two separate working group will be formed to address C57.12.00 and C57.12.90.

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- c. New CD Collection on the C57 series
 - i. G. Anderson brought up the subject of requesting an updated C57 series CD collection from IEEE. The discussion centered around the timing of these standards. General consensus was that we wait until several of the key standards have completed their revision and development. Example of these will include C57.12.00, C57.12.90, and C57.104, C57.143.
 - ii. The subcommittee chair requested a volunteer to coordinate this effort with IEEE SA. G. Anderson accepted the action of coordinating with IEEE to determine the best timing for the next publication of a CD collection.
 - d. References to safety related industry standards.
 - i. Mr. Kipp Yule raised a concern on the need to reference industry standards on arc flash analysis, protective clothing, thermal approach boundary, and safety approach distance. These publications could include NEC 2005, IEEE 1584, NFPA 70E to name a few. Mr. Kipp Yule was requested to provide a listing of these publications to the subcommittee chair.
6. Adjournment
- a. The meeting adjourned around 5:30PM.

	A	B	C	D	E	F	G	H	I	J	K
1	Doc_Num	Title	Subcommittee	Work Group Chair	WG Chair Email	Std_Issued_Year	Std_Exp_Date	PAR_Num	PAR_Exp_Date	Std_Status	Remark
2	IEEE 32	IEEE Standard Requirements, Terminology, and Testing Procedures for Neutral Grounding Devices	PERFORMANCE CHARACTERISTICS			1972	12/31/2006	PC57.32	12/31/2006	Approved - Active PAR to revise std	PAR to Revise IEEE Std 32-1972 Dec. 2002 - Sponsor changed from PES/SPD to PES/TR Being revised under PC57.32
3	IEEE 62	IEEE Guide for Diagnostic Field Testing of Power Apparatus - Part 1: Oil Filled Power Transformers, Regulators, and Reactors	STANDARDS			1995	12/31/2005			Approved	Reaffirmation with negative ballots - in process of resolution
4	C57.12.60	IEEE Guide for Test Procedures for Thermal Evaluation of Insulation Systems for Solid Cast and Resin-Encapsulated Power and Distribution Transformers	DRY TYPE TRANSFORMERS	Provost	richard.l.provost@kor.dupont.com	1998	12/31/2007	PC57.12.60	12/31/2007	Approved - Active PAR for Revision of Std	PAR to Revise IEEE Std C57.12.56-1986 and IEEE Std C57.12.60-1998
5	C57.13	IEEE Standard Requirements for Instrument Transformers	INSTRUMENT TRANSFORMERS	Nelson	thomas.nelson@nist.gov	1993	12/31/2008	PC57.13	12/31/2007	Approved - Active PAR to revise std.	PAR to Revise IEEE Std C57.13-1993
6	C57.15	IEEE Standard Requirements, Terminology, and Test Code for Step-Voltage Regulators	DISTRIBUTION TRANSFORMERS	Colopy	ccolopy@cooperpower.com	1999	12/31/2006	PC57.15	12/31/2006	Approved - Active PAR to revise std.	Std was to be withdrawn in Dec., 2004, requested extension to expiration of the PAR PAR extended to 12/31/2006
7	C57.93	IEEE Guide for Installation of Liquid-Immersed Power Transformers	POWER TRANSFORMERS	Lau	mike.lau@bchydro.bc.ca	1995	12/31/2006	PC57.93	12/31/2006	Approved - Active PAR to revise std	Rev of ASA C57.93-1958, IEEE Std C57.12.11-1980, & C57.12.12-1980 PAR to Revise IEEE Std C57.93-1995
8	C57.94	IEEE Recommended Practice for Installation, Application, Operation, and Maintenance of Dry-Type General Purpose Distribution and Power Transformers	DRY TYPE TRANSFORMERS			1979	12/31/2005			Approved	
9	C57.110	IEEE Recommended Practice for Establishing Transformer Capability When Supplying Nonsinusoidal Load Currents	PERFORMANCE CHARACTERISTICS			1998	12/31/2008	PC57.110	12/31/2008	Approved Reaffirmation -PAR for Revision requested	PAR approved 11/18/2004.
10	C57.111	IEEE Guide for Acceptance of Silicone Insulating Fluid and Its Maintenance in Transformers	INSULATING FLUIDS	Bartley	william_bartley@hsb.com	1983	12/31/2008			Approved	
11	C57.116	IEEE Guide for Transformers Directly Connected to Generators	POWER TRANSFORMERS			1989	12/31/2005			Approved	Need Reaffirmation
12	C57.117	IEEE Guide for Reporting Failure Data for Power Transformers and Shunt Reactors on Electric Utility Power Systems	POWER TRANSFORMERS			1986	3/31/2005			Approved	original approval date 6/19/1986 Was to be withdrawn in Dec., 2004. Requested extension to March, 2005 Need reaffirmation
13	C57.119	IEEE Recommended Practice for Performing Temperature Rise Tests on Oil Immersed Power Transformers at Loads Beyond Nameplate Ratings	INSULATION LIFE			2001	12/31/2006			Approved	
14	C57.123	IEEE Guide for Transformer Loss Measurement	PERFORMANCE CHARACTERISTICS			2002	12/31/2007			Approved	Ref Std. IEEE 1098
15	C57.125	IEEE Guide for Failure Investigation, Documentation, and Analysis for Power Transformers and Shunt Reactors	POWER TRANSFORMERS			1991	3/31/2005			Approved	Was to be withdrawn in Dec., 2004 Requested extension to March, 2005 - Need decision to reaffirm
16	C57.136	IEEE Guide for Sound Level Abatement and Determination for Liquid- Immersed Power Transformers and Shunt Reactors Rated Over 500 kVA	AUDIBLE SOUND & VIBRATION			2000	12/31/2005			Approved	Need reaffirmation before Oct., 2005
17	PC57.140	Evaluation and Reconditioning of Liquid Immersed Power Transformers	POWER TRANSFORMERS	Arteaga	javier.artea@ieee.org			PC57.140	12/31/2005	New Project - Active PAR Std under development	D14 currently in pre-ballot editorial review - submitted 2/7/05
18	PC57.142	A Guide To Describe The Occurrence And Mitigation Of Switching Transients Induced By Transformer-Breaker Interaction	PERFORMANCE CHARACTERISTICS	Degeneff	degenr@rpi.edu			PC57.142	12/31/2006	New Project - Active PAR Std under development	PAR extension granted 9/23/2004 - new expiration @2006
19	PC57.143	Guide for Application for Monitoring Equipment to Liquid-Immersed Transformers and Components	POWER TRANSFORMERS					PC57.143	12/31/2007	New Project - Active PAR Std under developemnt	
20	PC57.147	Guide for Acceptance and Maintenance of Natural Ester Fluids in Transformers	INSULATING FLUIDS	McShane	cpmcsnane@cooperpower.com			PC57.147	12/31/2007	New Project - Active PAR Std under development	