

# IEEE/PES TRANSFORMERS COMMITTEE

## Status Report of Standards

| STANDARD<br>PROJECT                                | TITLE                                                                                        | WORKING GROUP<br>CHAIR AND PHONE | COMMITTEES<br>REQUESTING<br>COORDINATION | PUB DATE<br>PAR DATE<br>REV DUE | STATUS and<br>COMMENTS                                                           | 3/6/2004 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|---------------------------------|----------------------------------------------------------------------------------|----------|
| <b>SUBCOMMITTEE: AUDIBLE SOUND &amp; VIBRATION</b> |                                                                                              |                                  |                                          |                                 |                                                                                  |          |
| CHAIR: J. PURI                                     |                                                                                              |                                  |                                          |                                 |                                                                                  |          |
| <b>C57.136</b>                                     | GUIDE FOR SOUND LEVEL ABATEMENT AND DETERMINATION IN OIL-FILLED TRANSFORMERS                 | Darwin, A.                       |                                          | 9/21/2000                       |                                                                                  |          |
| NONE                                               |                                                                                              |                                  |                                          | 2005                            |                                                                                  |          |
| <b>SUBCOMMITTEE: BUSHING</b>                       |                                                                                              |                                  |                                          |                                 |                                                                                  |          |
| CHAIR: F. E. ELLIOTT                               |                                                                                              |                                  |                                          |                                 |                                                                                  |          |
| <b>C57.19.00</b>                                   | GENERAL REQUIREMENTS AND TEST PROCEDURES FOR OUTDOOR APPARATUS BUSHINGS (IEEE 21)            | Ellis, K.<br>615-847-2157        | PSIM IEC SC36<br>IA/PSE<br>ICC           | 7/23/1991<br>6/20/1996<br>2004  | Reaffirmed 1997, Std extended until 12/31/2004,<br>PAR extended until 12/31/2004 |          |
| <b>C57.19.01</b>                                   | STANDARD PERFORMANCE CHARACTERISTICS AND DIMENSIONS FOR OUTDOOR APPARATUS BUSHINGS (IEEE 24) | Singh, P.<br>901-696-5228        | ICC<br>IA/PSE<br>IEC SC36A               | 1/30/2000<br><br>2005           | Revised Standard Approved 1/30/2000                                              |          |
| <b>C57.19.03</b>                                   | STANDARD REQUIREMENTS, TERMINOLOGY AND TEST CODE FOR BUSHINGS FOR DC APPLICATIONS            | Elliott, F. E.<br>360-619-6099   |                                          | 6/20/1996<br>2/27/2004<br>2007  | Raffirmed 12/11/2002<br>New PAR for Corrigendum 1                                |          |
| <b>C57.19.100</b>                                  | GUIDE FOR APPLICATION OF APPARATUS BUSHINGS.                                                 | Elliott, F. E.<br>360-619-6099   | SWGR<br>SUB<br>PSR                       | 3/16/1995<br><br>2008           | Reaffirmed 12/10/03                                                              |          |
| <b>NEW</b>                                         | TASK FORCE TO STUDY APPLICATON AND PROBLEMS OF DRAW-LEADS FOR BUSHINGS                       | Nordman Russ<br>414-547-0121     |                                          |                                 | NEW TASK FORCE                                                                   |          |

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|---------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>SUBCOMMITTEE: DIELECTRIC TESTS</b> |                                                                                                                 |                                  |                                          |                                 |                                                                                                       |
| CHAIR: L. B. WAGENAAR                 |                                                                                                                 |                                  |                                          |                                 |                                                                                                       |
| <b>C57.113</b><br>NONE                | GUIDE FOR PARTIAL DISCHARGE<br>MEASUREMENT IN LIQUID-FILLED POWER<br>TRANSFORMERS AND SHUNT REACTOR             | Perkins, M.<br>314-382-2100      | PSIM<br>IAS/PSE<br>IEC TC14 U            | 12/5/1991<br><br>2007           | Reaffirmed 12/11/2002                                                                                 |
| <b>C57.127</b><br>PC57.127            | GUIDE FOR THE DETECTION OF ACOUSTIC<br>EMISSIONS FROM PARTIAL DISCHARGES IN OIL-<br>IMMERSED POWER TRANSFORMERS | Harley, J. W.<br>216-425-1838    |                                          | 9/21/2000<br>2/13/2003<br>2005  | Has been granted Full-Use status<br>New PAR Active - Expires 12/31/2007                               |
| <b>C57.138</b><br>NONE                | RECOMMENDED PRACTICE FOR ROUTINE<br>IMPULSE TEST FOR DISTRIBUTION<br>TRANSFORMERS                               | Rossetti, J.<br>901-528-4743     | T&D<br>IA/PSE<br>PSIM                    | 3/19/1998<br>9/19/1996<br>2004  | Reaffirmation in process, Std extended to 12/31/04<br>Reaff ballot closed 11/9/2003, 100% affirmative |
| <b>C57.98</b><br>PC57.98              | IEEE GUIDE FOR TRANSFORMER IMPULSE TESTS                                                                        | Molden, A..<br>845-225-0993      | NONE                                     | 12/2/1993<br>9/12/2002<br>2006  | WG Active on Revision<br>PAR Expires 12/31/2006                                                       |

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|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|--------------------------------------------|------------------------------------------------------------------|
| <b>SUBCOMMITTEE: DISTRIBUTION TRANSFORMERS</b> |                                                                                                                            |                                  |                                          |                                            |                                                                  |
| <b>CHAIR: E. SMITH</b>                         |                                                                                                                            |                                  |                                          |                                            |                                                                  |
| <b>C57.12.20</b><br>PC57.12.20                 | OVERHEAD-TYPE DISTRIBUTION TRANSFORMERS, 500 kVA AND SMALLER: H V 34500 VOLTS AND BELOW, L V 7970/13800Y &                 | Andersen, G.                     |                                          | 6/20/1996<br>12/6/2001<br>2005             | PAR Expires 12/31/2005                                           |
| <b>C57.12.21</b><br>NONE                       | Requirements for Pad-Mounted Compartmental-Type Self-Cooled Single-Phase Distributuon Xfmr w/HV Bushing                    |                                  |                                          | 5/7/1992                                   | NEMA/ANSI Document                                               |
| <b>C57.12.22</b><br>NONE                       | Pad-Mounted_Compartmental-Type_Self-Cooled_Three-Phase DistributionXfmr_with_HV_Bushings                                   |                                  |                                          | 7/1/1993                                   | NEMA/ANSI Document                                               |
| <b>C57.12.23</b><br>NONE                       | UNDERGROUND-TYPE,SELF-COOLED, 1-PHASE DISTRIBUTION TR WITH SEPERABLE INSULATED HV CONNECT HV 24940GrdY...LV,240...;167kVA. | Traut, A.                        | T&D<br>IC<br>IAS/REPC                    | IAS/PSEC<br>6/13/2002<br>2007              | Revised Standard approved June 2002<br>Supersedes C57.12.23-1992 |
| <b>C57.12.25</b><br>PC57.12.25                 | REQUIREMENTS FOR PAD-MOUNTED COMP-TYPE,SELF-COOLED,1-PHASE DISTRIBUTION TR W/SEP INS HV CONN,HV 34500GrdY...167kVA...      | Ghafouria, A<br>731-285-9121     | T&D<br>IC<br>IAS/REPC                    | IAS/PSEC<br>5/11/1990<br>12/8/1998<br>1995 | Recirculating Ballot<br>PAR extended until 12/31/2004            |
| <b>C57.12.26</b><br>NONE                       | PM Comp Type Self-Cooled Three-Phase Distribution Xfmr for Use with Separable Insulated High Voltage Connectors            |                                  |                                          | 6/18/1992                                  | IEEE Document, Rev of ANSI C57.12.26-1987                        |
| <b>C57.12.28</b><br>PC57.12.28                 | Standard for Pad Mounted Equipment - Enclosure Integrity                                                                   | Olen / Mulkey<br>262-835-3362    |                                          | 5/9/2002                                   | New Std. WG Active<br>PAR Expires 12/31/2006                     |
| <b>C57.12.29</b><br>PC57.12.29                 | Standard for Pad Mounted Equipment - Enclosure Integrity for Coastal Environments                                          | Olen / Mulkey<br>262-835-3362    |                                          | 5/9/2002                                   | PAR Expires 12/31/2006                                           |
| <b>C57.12.31</b><br>NONE                       | Standard for Pole Mounted Equipment - Enclosure Integrity                                                                  | Olen / Mulkey<br>262-835-3362    |                                          | 9/12/2002<br>2007                          | New Std Approved 9/12/2002                                       |
| <b>C57.12.32</b><br>NONE                       | Standard for Submersible Equipment - Enclosure Integrity                                                                   | Olen / Mulkey<br>262-835-3362    |                                          | 9/12/2002<br>2007                          |                                                                  |
| <b>C57.12.33</b><br>PC57.12.33                 | GUIDE FOR EVALUATION OF LOSSES IN DISTRIBUTION TRANSFORMERS                                                                | Pekarek, T.                      | PSIM                                     | 6/25/1998                                  | PAR extended until 12/31/2004                                    |

| STANDARD<br>PROJECT                            | TITLE                                                                                                    | WORKING GROUP<br>CHAIR AND PHONE    | COMMITTEES<br>REQUESTING<br>COORDINATION | PUB DATE<br>PAR DATE<br>REV DUE | STATUS and<br>COMMENTS                                                          | 3/6/2004 |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------|---------------------------------|---------------------------------------------------------------------------------|----------|
| <b>SUBCOMMITTEE: DISTRIBUTION TRANSFORMERS</b> |                                                                                                          |                                     |                                          |                                 |                                                                                 |          |
| CHAIR: E. SMITH                                |                                                                                                          |                                     |                                          |                                 |                                                                                 |          |
| <b>C57.12.34</b><br>PC57.12.34                 | REQUIREMENTS FOR THREE PHASE PAD-<br>MOUNTED DISTRIBUTION TRANSFORMERS                                   | Shull, Stahara<br>417-625-5100      | ICC                                      | 9/21/1995                       | D10 Reballot to close on 3/4/2004<br>PAR Extended until 12/31/2004              |          |
| <b>C57.12.35</b><br>NONE                       | STANDARD FOR BAR CODING FOR<br>DISTRIBUTION TRANSFORMERS (POLE-<br>MOUNTED, PAD-MOUNTED AND UNDERGROUND) | Henry, G.                           |                                          | 6/20/1996<br>2004               | Need Raffirmation by 12/31/2004                                                 |          |
| <b>C57.15</b><br>PC57.15                       | REQUIREMENTS, TERMINOLOGY, & TEST CODE<br>FOR STEP-VOLTAGE REGULATORS                                    | Kennedy/Colopy                      | SUBS<br>IAS/PSE                          | 9/16/1999<br>12/7/2000<br>2004  | WG Active<br>PAR Expires 12/31/2004                                             |          |
| <b>IEEE1388</b><br>PC57.12.37                  | STANDARD FOR THE ELECTRONIC REPORTING<br>OF TRANSFORMER TEST DATA                                        | Callsen/Hollingswor<br>601-892-4661 |                                          | 12/7/2000<br>10/1/2001<br>2005  | WG Active, Ballot Pool Approved 1/6/2004<br>Revising, will publish as C57.12.37 |          |

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|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|--------------------------------------------|------------------------------------------------------------------|
| <b>SUBCOMMITTEE: DRY-TYPE TRANSFORMERS</b> |                                                                                                                                  |                                  |                                          |                                            |                                                                  |
| <b>CHAIR: C. JOHNSON</b>                   |                                                                                                                                  |                                  |                                          |                                            |                                                                  |
| <b>C57.12.01</b><br>PC57.12.01             | GENERAL REQUIREMENTS FOR DRY-TYPE DIST.<br>AND POWER TR INCL THOSE WITH SOLID CAST<br>and/or RESIN-ENCAPSULATED WINDINGS         | Sullivan, J.<br>813-228-4111     | NEMA<br>U.L.<br>ANSI                     | IA/I&CPS<br>9/16/1998<br>3/18/1999<br>2005 | Balloting, Std. Extended to 12/31/2005<br>PAR Expires 12/31/2005 |
| <b>C57.12.50</b><br>NONE                   | REQ. FOR VENTILATED DRY-TYPE DISTRIBUTION<br>TR, 1-500kVA, 1 PHASE, AND 15-500kVA, 3-PHASE<br>HV 601-34500VOLTS, LV 120-600V     | Sullivan, J.<br>813-228-4111     |                                          | 6/12/1989<br>1994                          | Need PAR for revision to get IEEE status                         |
| <b>C57.12.51</b><br>NONE                   | REQ. FOR VENTILATED DRY-TYPE POWER TR,<br>501kVA & LARGER, 3 PHASE, WITH HV 601-<br>34500V, LV 208Y/120 TO 4160 VOLTS            | Sullivan, J.<br>813-228-4111     |                                          | 6/12/1989<br>1994                          | NEMA/ANSI Document<br>Need PAR for revision to get IEEE status   |
| <b>C57.12.52</b><br>NONE                   | REQ. FOR SEALED DRY-TYPE POWER<br>TRANSFORMERS, 501kVA & LARGER, 3 PHASE,<br>WITH HV 601-34500V, LV 208Y/120 TO 4160 VOLTS       | Sullivan, J.<br>813-228-4111     |                                          | 6/12/1989<br>1994                          | NEMA/ANSI Document<br>Need PAR for revision to get IEEE status   |
| <b>C57.12.53</b><br>ANSI                   | REQUIREMENTS FOR DRY-TYPE,<br>UNDERGROUND, SINGLE-PHASE WITH<br>SEPARABLE INSULATED H-V 24940 grdY/14400 V                       |                                  |                                          | 0                                          | ONLY TITLE EXIST (NO PAR)<br>IS IT REQUIRED?                     |
| <b>C57.12.54</b><br>ANSI                   | REQUIREMENTS FOR DRY-TYPE, UNDERGROUND<br>3 PHASE DISTRIBUTION TRANSFORMERS, 2500<br>kVA OR <, HV 24940 grdY/14400 OR <, LV 480V |                                  |                                          | 0                                          | ONLY TITLE EXISTS<br>IS IT REQUIRED?                             |
| <b>C57.12.55</b><br>NONE                   | CONFORMANCE STANDARD FOR TR- DRY-TYPE<br>TRANSFORMERS USED IN UNIT INSTALLATIONS,<br>INCL. UNIT SUBSTATIONS                      | Sullivan, J.<br>813-228-4111     |                                          | 4/7/1986<br>1992                           | NEMA/ANSI Document<br>Need PAR for revision to get IEEE status   |
| <b>C57.12.56</b><br>NONE                   | TEST PROCEDURE FOR THERMAL EVALUATION<br>OF INSULATION SYST FOR VENTILATED DRY-<br>TYPE POWER & DISTRIBUTION TRANSFORMERS        | Provost, WICKS<br>302-999-2225   |                                          | 12/17/1981<br>2007                         | Reaffirmed in 9/16/1998<br>WILL COMBINE WITH C57.12.60           |
| <b>C57.12.58</b><br>NONE                   | GUIDE FOR CONDUCTING TRANSIENT VOLTAGE<br>ANALYSIS OF A DRY-TYPE TRANSFORMER COIL                                                | Payne, P<br>202-388-2138         | IEC<br>IAS                               | 6/27/1991<br>2007                          | Reaffirmed 6/13/2002                                             |
| <b>C57.12.59</b><br>NONE                   | GUIDE FOR DRY-TYPE TRANSFORMER THROUGH-<br>FAULT CURRENT DURATION                                                                | Payne, P.<br>202-388-2335        |                                          | 12/6/2001<br>2006                          | Revision approved 12/6/2001                                      |
| <b>C57.12.60</b><br>PC57.12.60             | TEST PROCEDURES FOR THERMAL EVALUATION<br>OF INSULATION SYSTEMS FOR SOLID-CAST &<br>RESIN ENCAP POWER & DIST TRANSFORMER         | Provost, WICKS<br>302-999-2225   | IEC SC15E<br>NEMA                        | 3/19/1998<br>12/10/2003<br>2007            | New PAR; WG Active<br>Combining with C57.12.56                   |

| STANDARD<br>PROJECT                                  | TITLE                                                                                                                     | WORKING GROUP<br>CHAIR AND PHONE   | COMMITTEES<br>REQUESTING<br>COORDINATION | PUB DATE<br>PAR DATE<br>REV DUE | STATUS and<br>COMMENTS                                                 |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------|---------------------------------|------------------------------------------------------------------------|
| <b>SUBCOMMITTEE: DRY-TYPE TRANSFORMERS</b>           |                                                                                                                           |                                    |                                          |                                 |                                                                        |
| CHAIR: C. JOHNSON                                    |                                                                                                                           |                                    |                                          |                                 |                                                                        |
| <b>C57.12.91</b><br>NONE                             | TEST CODE FOR DRY-TYPE DISTRIBUTION AND<br>POWER TRANSFORMERS                                                             | Foster, D.<br>815-678-2421         | SPD<br>EM<br>T&D                         | SUBS<br>IEC TC14<br><br>2006    | Approved 1/9/2001                                                      |
| <b>C57.124</b><br>NONE                               | RECOMMENDED PRACTICE FOR THE DETECTION<br>OF PD AND THE MEASUREMENT OF APPARENT<br>CHARGE IN DRY-TYPE TRANSFORMERS        | Payne, P<br>202-388-2138           | NONE                                     | 6/27/1991<br><br>2007           | Reaffirmed 6/13/02                                                     |
| <b>C57.134</b><br>NONE                               | GUIDE FOR THE DETERMINATION OF HOTTEST<br>SPOT TEMPERATURE IN DRY TYPE<br>TRANSFORMERS                                    | Payne, P.<br>202-388-2138          |                                          | 1/30/2000<br>9/21/1995<br>2005  | Approved by standards board 1/30/2000                                  |
| <b>C57.16</b><br>NONE                                | STANDARD REQUIREMENTS, TERMINOLOGY,<br>AND TEST CODE FOR DRY-TYPE AIR-CORE<br>SERIES CONNECTED REACTORS                   | Dudley, R.<br>416-298-8108         | NEMA<br>IAS<br>T&D                       | 12/10/1996<br><br>2006          | Reaffirmed on 6/14/2001                                                |
| <b>C57.94</b><br>NONE                                | RECOMMENDED PRACTICE FOR INSTALLATION,<br>APPLICATION, OPERATION & MAINTENANCE OF<br>DRY-TYPE GEN PURPOSE DIST & POWER TR | Patterson, W.<br>919-848-1860      |                                          | 3/15/1979<br><br>2005           | Reaffirmed 6/21/2000                                                   |
| <b>C57.96</b><br>NONE                                | GUIDE FOR LOADING DRY-TYPE DISTRIBUTION<br>AND POWER TRANSFORMERS                                                         | Pierce, L.<br>706-291-3166         | T&D<br>SCC14<br>SCC10                    | IA/PSE<br>6/26/1999<br><br>2004 | Reaff in progress<br><br>Ballot closed 2/4/04, 100% Affirmative        |
| <b>IEEE 259</b><br>NONE                              | TEST PROCEDURE FOR EVALUATION OF<br>SYSTEMS OF INSULATION FOR SPECIALTY<br>TRANSFORMERS                                   | Simpson, R. W. JR.<br>603-284-4362 |                                          | 6/26/1999<br><br>2004           |                                                                        |
| <b>SUBCOMMITTEE: HVDC CONVERTER TR &amp; REACTOR</b> |                                                                                                                           |                                    |                                          |                                 |                                                                        |
| CHAIR: R.DUDLEY                                      |                                                                                                                           |                                    |                                          |                                 |                                                                        |
| <b>C57.129</b><br>None                               | GENERAL REQUIREMENTS & TEST CODE FOR<br>OIL-IMMERSED HVDC CONVERTER<br>TRANSFORMERS AND SMOOTHING REACTORS                | Dudley, R.<br>317-286-9387         | EM<br>T&D<br>PSIM                        | SUB<br><br>2004                 | Upgraded from Trial Use 3/2002<br><br>SC working on document, Need PAR |
| <b>IEEE1277</b><br>NONE                              | GENERAL REQUIREMENTS & TEST CODE FOR<br>OIL-IMMERSED AND DRY-TYPE HVDC<br>SMOOTHING REACTORS                              | Dudley, R.<br>317-286-9387         | SUB                                      | 3/30/2000<br><br>2005           | Upgraded to full use 3/2002                                            |

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| <b>SUBCOMMITTEE: INSTRUMENT TRANSFORMERS</b> |                                                                                                  |                                  |                                          |                                 |                                                                                      |
| <b>CHAIR: J. SMITH</b>                       |                                                                                                  |                                  |                                          |                                 |                                                                                      |
| <b>C57.13</b><br>PC57.13                     | REQUIREMENTS FOR INSTRUMENT<br>TRANSFORMERS                                                      | Nelson, T. L.<br>301-975-2956    | PSIM<br>PSR<br>SPD                       | 6/7/1993<br>12/10/2003<br>2008  | New PAR Active, Expires 12/31/2007                                                   |
| <b>C57.13.2</b><br>PC57.13.2                 | CONFORMANCE TEST PROCEDURE FOR<br>INSTRUMENT TRANSFORMERS                                        | Khalin, V.<br>859-879-2797       |                                          | 12/5/1991<br>5/15/2003          | Std withdrawn.<br>New PAR Active, Expires 12/31/2007                                 |
| <b>C57.13.5</b><br>NONE                      | TEST REQUIREMENTS FOR INSTRUMENT<br>TRANSFORMERS OF A NOMINAL VOLTAGE OF<br>115KV AND ABOVE      | Ma, J.                           | SWGR<br>EM<br>TC 38 US T                 | 3/20/2003<br>2008               | Trial Use Guide approved 3/20/2003                                                   |
| <b>C57.13.6</b><br>PC57.13.6                 | REQUIREMENTS FOR INSTRUMENT<br>TRANSFORMERS FOR USE WITH ELECTRONIC<br>REVENUE METERS AND RELAYS | Ten-Haagen C. W.<br>603-749-8433 | PSIM<br>PSR<br>TD                        | PSC<br>2/13/2003                | PAR Active, Expires 12/31/2007<br>PAR to amend C57.13 with new accuracy 0.15, 0.15 S |

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| <b>SUBCOMMITTEE: INSULATING FLUIDS</b> |                                                                                                                    |                                  |                                          |                                 |                                                                   |          |
| <b>CHAIR: F. GRYSZKIEWICZ</b>          |                                                                                                                    |                                  |                                          |                                 |                                                                   |          |
| PC57.147                               | GUIDE FOR THE ACCEPTANCE AND MAINTENANCE OF NATURAL ESTER FLUIDS IN TRANSFORMERS                                   | McShane, C. P.<br>414-524-4591   |                                          | 12/10/2003                      | PAR Approved 12/10/2003; WG Active<br>PAR to expire on 12/31/2007 |          |
| <b>C57.104</b><br>PC57.104             | GUIDE FOR THE DETECTION AND DETERMINATION OF GENERATED GAS IN OIL-IMMERSED TRANSFORMERS & THEIR RELATION           | Heinrichs F. W.<br>412-941-6924  | PE/IC<br>PE/SUB<br>PE/T&D                | 6/27/1991<br>12/10/1996<br>2002 | WG Active, Extended until 12/31/2004<br>PAR Expires 12/31/2004    |          |
| <b>C57.106</b><br>PC57.106             | GUIDE FOR ACCEPTANCE AND MAINTENANCE OF INSULATING OIL IN EQUIPMENT                                                | Thompson, J.<br>919-580-3247     | NONE                                     | 6/13/2002<br>12/11/2002<br>2007 | PAR Expires 12/31/2006                                            |          |
| <b>C57.111</b><br>NONE                 | GUIDE FOR ACCEPTANCE OF SILICONE INSULATING FLUID AND ITS MAINTENANCE IN TRANSFORMERS                              | J. Goudie<br>517-496-6826        | IAS<br>T&D<br>ED&PG                      | IEC<br><br>2008                 | 2/2/1989<br>Reaffirmed 12/10/2003                                 |          |
| <b>C57.121</b><br>NONE                 | GUIDE FOR ACCEPTANCE AND MAINTENANCE OF LESS FLAMMABLE HYDROCARBON FLUID IN TRANSFORMERS                           | McShane, C. P.<br>617-926-4900   | PSRC<br>T&D<br>IAS                       | IEC<br><br>2004                 | 9/16/1998<br>Need Reaffirmation                                   |          |
| <b>C57.130</b><br>PC57.130             | T-U GUIDE FOR USE OF DISS. GAS ANALYSIS DURING FACTORY THERMAL TESTS FOR THE EVALUATION OF OIL-IMMERSED TRANS. AND | Heinrichs F. W.<br>412-941-6924  | NONE                                     | 1/30/2000                       | New Project<br>PAR Expires 12/31/2005                             |          |
| <b>C57.139</b><br>PC57.139             | GUIDE FOR DISSOLVED GAS ANALYSIS IN TRANSFORMER LOAD TAP CHANGERS                                                  | Ladroga, R.                      | IEC US TA                                | 12/11/2002                      | New Project; WG Active<br>PAR Expires 12/31/2007                  |          |
| <b>IEEE 637</b><br>NONE                | GUIDE FOR THE RECLAMATION OF INSULATING OIL AND CRITERIA FOR ITS USE                                               | Thompson, J.<br>605-534-3571     |                                          | 3/11/1982<br>2007               | Reaffirmed 12/11/2002                                             |          |
| <b>IEEE1258</b><br>PC57.146            | TRIAL-USE GUIDE FOR INTERPRETATION OF GASES GENERATED IN SILICONE-IMMERSED TRANSFORMERS                            | Goudie/Bartley<br>517-496-6826   | T&D<br>ICC                               | 10/31/2002                      | Trial Guide IEEE 1258<br>PAR Expires 12/31/2006                   |          |

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|--------------------------------------|---------------------------------------------------------------------------------|----------------------------------|------------------------------------------|---------------------------------|-----------------------------|------------------------------------------------|
| <b>SUBCOMMITTEE: INSULATION LIFE</b> |                                                                                 |                                  |                                          |                                 |                             |                                                |
| CHAIR: D. PLATTS                     |                                                                                 |                                  |                                          |                                 |                             |                                                |
|                                      | GUIDE FOR DEFINITION OF THERMAL DUPLICATE                                       | Beaster, B.                      |                                          |                                 |                             |                                                |
| PC57.145                             |                                                                                 |                                  |                                          | 6/25/1998                       | PAR Expires 12/31/2004      |                                                |
| <b>1538</b>                          | GUIDE FOR DETERMINATION OF MAXIMUM                                              | Platts, D.                       |                                          | 6/21/2000                       | Approved Standard           |                                                |
| NONE                                 | WINDING TEMPERATURE RISE IN LIQUID FILLED<br>TRANSFORMERS                       |                                  |                                          | 2005                            | Standard expires 12/31/2005 |                                                |
| <b>C57.100</b>                       | TEST PROCEDURE FOR THERMAL EVALUATION                                           | Wicks, R.                        | PE/PSR                                   | PE/SUB                          | 6/26/1999                   | Up for RevCom approval of Reaffirmation 3/04   |
| NONE                                 | OF OIL-IMMERSED DISTRIBUTION<br>TRANSFORMERS                                    | 804-383-3300                     | IA/PSE                                   | IEC TC 14                       |                             |                                                |
|                                      |                                                                                 |                                  | PE/T&D                                   |                                 | 2004                        |                                                |
| <b>C57.119</b>                       | RECOMMENDED PRACTICE FOR PERFORMING                                             | Tuli, S.                         | SWGR                                     | PSRC                            | 10/10/2001                  | Approved New Recommended Practice 10/10/2001   |
| NONE                                 | TEMP. RISE TESTS ON OIL-IMMERSED POWER<br>TRANSFORMER AT LOADS BEYOND NP RATING | 262-547-0121                     | SUBS                                     | IAS                             |                             |                                                |
|                                      |                                                                                 |                                  | SCC4                                     | EI                              | 2006                        |                                                |
| <b>C57.91</b>                        | GUIDE FOR LOADING MINERAL OIL-IMMERSED                                          | Raymond, T.                      | SUB                                      |                                 | 6/14/1995                   | Corriagenda Approved 12/11/2002, Need new PAR  |
| NONE                                 | TRANSFORMERS                                                                    | 518-884-0297                     | T&D                                      |                                 |                             | Reaffirm disapproved. 2-year extension granted |
|                                      |                                                                                 |                                  | PSE                                      |                                 | 2004                        |                                                |
| <b>IEEE1276</b>                      | IEEE GUIDE FOR THE APPLICATION OF HIGH                                          | Franchek, M. A.                  | T&D                                      |                                 | 6/26/1997                   | Balloting Reaffirmation                        |
| NONE                                 | TEMPERATURE INSULATION MATERIALS IN<br>LIQUID-IMMERSED POWER TRANSFORMERS       | 802-748-3936                     |                                          |                                 | 3/21/1996                   | Extended until 12/31/2004                      |
|                                      |                                                                                 |                                  |                                          |                                 | 2004                        |                                                |

| STANDARD<br>PROJECT                              | TITLE                                                                                                                     | WORKING GROUP<br>CHAIR AND PHONE | COMMITTEES<br>REQUESTING<br>COORDINATION | PUB DATE<br>PAR DATE<br>REV DUE              | STATUS and<br>COMMENTS                                                       |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------|
| <b>SUBCOMMITTEE: PERFORMANCE CHARACTERISTICS</b> |                                                                                                                           |                                  |                                          |                                              |                                                                              |
| <b>CHAIR: R. GIRGIS</b>                          |                                                                                                                           |                                  |                                          |                                              |                                                                              |
| <b>C57.105</b><br>NONE                           | GUIDE FOR APPLICATION OF TRANSFORMER<br>CONNECTIONS IN THREE-PHASE DISTRIBUTION<br>SYSTEMS                                | Reitter G.<br>415-591-4463       |                                          | 6/17/1992<br><br>2004                        | Reaffirmed 3/99, need Reaffirmation<br><br>Expires 12/31/2004                |
| <b>C57.109</b><br>NONE                           | GUIDE FOR THROUGH-FAULT CURRENT<br>DURATION                                                                               | Patel, B.<br>205-877-7740        | PSR                                      | 3/18/1993<br><br>2005                        | Reaffirmed 6/21/2000<br><br>Expire 12/31/2005                                |
| <b>C57.110</b><br>NONE                           | RECOMMENDED PRACTICE FOR ESTABLISHING<br>TRANSFORMER CAPABILITY WHEN SUPPLYING<br>NONSINUSOIDAL LOAD CURRENTS             | Marek R. P.<br>804-838-8080      | T&D<br>PSR<br>NEMA                       | IA/PSE<br><br>7/2/1998<br><br>2004           | Need Reaffirmation<br><br>Reaff Date extended to 12/31/2004                  |
| <b>C57.123</b><br>NONE                           | GUIDE FOR TRANSFORMER LOSS MEASUREMENT                                                                                    | Girgis, R.<br>765-286-9532       |                                          | 6/13/2002<br><br>2007                        | Approved as new standard 6/13/02                                             |
| <b>C57.133</b><br>NONE                           | GUIDE FOR SHORT-CIRCUIT TESTING OF<br>DISTRIBUTION AND POWER TRANSFORMERS                                                 | McQuin, N.<br>412-829-1205       | T&D,SWG<br>PSR<br>IECTC14                | SUBS<br>IAS/PSE<br>IAS/REP<br>9/21/1995      | PAR withdrawn Mar 2003<br><br>Need new PAR                                   |
| <b>C57.142</b><br>PC57.142                       | A Guide to Describe the Occurance and Mitigation of<br>Switching Transients Induced by Transformer/Breaker<br>Interaction | Degeneff, R.<br>518-276-6367     |                                          | 12/7/2000                                    | D1.6 being circulated to PC SC members for comment<br>PAR Expires 12/31/2005 |
| <b>C57.18.10</b><br>NONE                         | REQUIREMENTS FOR SEMICONDUCTOR<br>RECTIFIER TRANSFORMERS                                                                  | Kennedy, S. P.<br>716-896-6500   | NONE                                     | 3/19/1998<br><br>2008                        | Reaffirmed 12/10/2003                                                        |
| <b>C57.21</b><br>PC57.21                         | REQUIREMENTS, TERMINOLOGY, AND TEST<br>CODE FOR SHUNT REACTORS RATED OVER<br>500kVA                                       | Dudley, R./Balma P.              |                                          | 4/2/1991<br>9/11/2003<br>2007                | Balloting Reaffirmation - RevCom 6/23/2004<br>PAR Expires 12/31/2007         |
| <b>IEEE 638</b><br>NONE                          | QUALIFICATION OF CLASS 1E TR FOR NUCLEAR<br>POWER GENERATING STATIONS                                                     | Pierce, L. W.<br>706-291-3166    | NPE<br>SUB<br>SC2                        | SCC10<br><br>3/19/1992<br>10/29/1990<br>2004 | Reaffirmed 5/14/1999                                                         |

| STANDARD<br>PROJECT                     | TITLE                                                                                                 | WORKING GROUP<br>CHAIR AND PHONE      | COMMITTEES<br>REQUESTING<br>COORDINATION | PUB DATE<br>PAR DATE<br>REV DUE | STATUS and<br>COMMENTS                                                            |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------|
| <b>SUBCOMMITTEE: POWER TRANSFORMERS</b> |                                                                                                       |                                       |                                          |                                 |                                                                                   |
| <b>CHAIR: HAGER/LUNDQUIST</b>           |                                                                                                       |                                       |                                          |                                 |                                                                                   |
| PC57.143                                | Guide for Application of Monitoring Equipment to Liquid- Immersed Transformers and Components         | Lux, A. / Chu, D.<br>319-856-3888     |                                          | 3/21/2002                       | WG Active<br>PAR Expires 12/31/2007                                               |
| <b>C57.116</b><br>NONE                  | GUIDE FOR TRANSFORMERS DIRECTLY CONNECTED TO GENERATORS                                               | Reitter G.<br>415-508-2850            |                                          | 1/3/1989<br>2005                | Reaffirmed 6/21/2000                                                              |
| <b>C57.117</b><br>NONE                  | GUIDE FOR REPORTING FAILURE DATA FOR POWER TRANSFORMERS AND SHUNT REACTORS                            | Binder, W<br>702-227-2316             |                                          | 6/19/1986<br>2004               | Reaffirmed 9/16/1998<br>Need Reaffirmation by 12/31/2004                          |
| <b>C57.12.10</b><br>NONE                | STANDARD REQUIREMENT FOR LIQUID-IMMERSED POWER TRANSFORMERS                                           | Arteaga, J.<br>312-942-2704           |                                          | 6/13/2002                       | PAR Expires 12/31/2005                                                            |
| <b>C57.120</b><br>NONE                  | LOSS EVALUATION GUIDE FOR POWER TRANSFORMERS AND REACTORS                                             | Jacobsen, R.                          | SUB<br>EM<br>ED&PG                       | IAS<br>IEC<br>2005              | 9/16/1991<br>Reaffirmed 1/30/2000                                                 |
| <b>C57.125</b><br>NONE                  | GUIDE FOR FAILURE INVESTIGATION, DOCUMENTATION AND ANALYSIS FOR POWER TRANSFORMERS AND SHUNT REACTORS | Binder, W                             | T&D<br>ED&PG<br>PSE                      | SWGR<br>2004                    | 6/27/1991<br>Reaffirmed 9/16/1998, Need Reaffirmation                             |
| <b>C57.131</b><br>PC57.131              | REQUIREMENTS FOR LOAD TAP CHANGERS                                                                    | Henning, W.                           |                                          | 3/16/1995<br>5/15/2003<br>2007  | Reaffirmation ballot underway?<br>Extended until 12/31/2007                       |
| <b>C57.135</b><br>NONE                  | GUIDE FOR APPLICATION, TESTING, INSTALLATION AND OPERATION OF PHASE ANGLE SHIFTING TRANSFORMERS       | Trummer /Lundquist<br>43-3172-606-404 | PSRC<br>EMC<br>IAS/PSP                   | IEC TC14<br>2006                | 12/6/2001<br>Standard approved 12/6/01<br>Being considered for IEEE/IEC Dual Logo |
| <b>C57.140</b><br>PC57.140              | Evaluation and Reconditioning of Liquid Immersed Power Transformers                                   | James, R.<br>504-576-6246             |                                          | 9/16/1999                       | New Project; WG Active<br>PAR extended until 12/31/2005                           |
| <b>C57.141</b><br>PC57.141              | GUIDE FOR APPLICATION OF LOAD TAP CHANGERS                                                            | Henning, W.<br>414-547-0121           |                                          | 6/26/1999                       | PAR Withdrawn<br>Need new PAR??                                                   |
| <b>C57.148</b><br>PC57.148              | Standards for Control Cabinet for Power Transformers                                                  | Watson, J                             |                                          | 2/27/2004                       | New Project; WG Active<br>PAR Expires 12/31/2007                                  |

| STANDARD<br>PROJECT                     | TITLE                                                                                                                        | WORKING GROUP<br>CHAIR AND PHONE | COMMITTEES<br>REQUESTING<br>COORDINATION | PUB DATE<br>PAR DATE<br>REV DUE | STATUS and<br>COMMENTS                                                             |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|---------------------------------|------------------------------------------------------------------------------------|
| <b>SUBCOMMITTEE: POWER TRANSFORMERS</b> |                                                                                                                              |                                  |                                          |                                 |                                                                                    |
| <b>CHAIR: HAGER/LUNDQUIST</b>           |                                                                                                                              |                                  |                                          |                                 |                                                                                    |
| <b>C57.17</b><br>ANSI                   | REQUIREMENTS FOR ARC FURNACE<br>TRANSFORMERS                                                                                 | Corsi, D.<br>330-875-3333        |                                          | 1986                            | STANDARD HAS BEEN WITHDRAWN<br>TF has been established, No PAR submitted           |
| <b>C57.93</b><br>PC57.93                | GUIDE FOR INSTALLATION OF LIQUID-<br>IMMERSED POWER TRANSFORMERS.                                                            | Lau, M.<br>604-528-3201          | NONE                                     | 12/12/1995<br>6/13/2002<br>2006 | WG Active on revision<br>PAR Expires 12/31/2006                                    |
| <b>SUBCOMMITTEE: STANDARDS</b>          |                                                                                                                              |                                  |                                          |                                 |                                                                                    |
| <b>CHAIR: B. CHIU</b>                   |                                                                                                                              |                                  |                                          |                                 |                                                                                    |
| PC57.144                                | Guide to Metric Conversion of Transformer Standards                                                                          | Galloway, D.<br>573-635-7587     |                                          | 3/21/2002                       | PAR Expires 12/31/2007                                                             |
| <b>C57.12.00</b><br>PC57.12.00          | GENERAL REQUIREMENTS FOR LIQUID-<br>IMMERSED DISTRIBUTION, POWER, AND<br>REGULATING TRANSFORMERS                             | Tuli, S.<br>414-547-0121         |                                          | 6/21/2000<br>6/14/2001<br>2005  | Reviewed ballot comment<br>Ballot Recirculation, PAR Exp 12/31/2005                |
| <b>C57.12.13</b><br>TEMP/ANSI??         | CONFORMANCE REQUIREMENTS FOR LIQUID-<br>FILLED TRANSFORMERS USED IN UNIT<br>INSTALLATIONS INCL. UNIT SUBSTATIONS             |                                  |                                          | 9/2/1981<br>1987                | Need to assign to SC<br>NEMA STANDARD                                              |
| <b>C57.12.70</b><br>NONE                | TERMINAL MARKINGS AND CONNECTIONS FOR<br>DIST. & POWER TRANSFORMERS                                                          | Traub, T. P.<br>802-751-3458     | T&D<br>SUBS<br>ICC                       | 12/6/2000<br>2005               |                                                                                    |
| <b>C57.12.80</b><br>NONE                | TERMINOLOGY FOR POWER & DISTRIBUTION<br>TRANSFORMERS                                                                         | Raymond, T.                      | T&D<br>SUBS                              | 5/13/2002<br>2007               | New WG formed<br>Need PAR                                                          |
| <b>C57.12.90</b><br>PC57.12.90          | STANDARD TEST CODE FOR LIQUID-IMMERSED<br>DISTRIBUTION, POWER, AND REGULATING<br>TRANSFORMERS & GUIDE FOR SC TESTING OF .... | TULI, S.                         |                                          | 6/26/1999<br>6/14/2001<br>2005  | Resolving negatives from latest ballot<br>PAR Expires 12/31/2005                   |
| <b>IEEE 32</b><br>TEMP                  | Standard Requirements, Terminology, and Testing<br>Procedures for Neutral Grounding Devices                                  |                                  |                                          | 3/21/1972                       | Reaffirm 12/9/1997?<br>Need to Assign to SC                                        |
| <b>IEEE 62</b><br>TEMP                  | IEEE Guide for Diagnostic Field Testing of Power<br>Apparatus - Part 1: Oil Filled Power Xfmrs, Regulators,<br>and Reactors  |                                  |                                          | 2004                            | Extend until 12/31/2004, Need to assign to SC<br>Need Reaffirmation, In progress?? |

| STANDARD<br>PROJECT                                 | TITLE                                                                                                               | WORKING GROUP<br>CHAIR AND PHONE | COMMITTEES<br>REQUESTING<br>COORDINATION | PUB DATE<br>PAR DATE<br>REV DUE      | STATUS and<br>COMMENTS | 3/6/2004                                |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|--------------------------------------|------------------------|-----------------------------------------|
| <b>SUBCOMMITTEE: UG TR &amp; NETWORK PROTECTORS</b> |                                                                                                                     |                                  |                                          |                                      |                        |                                         |
| <b>CHAIR: C.G. NIEMANN</b>                          |                                                                                                                     |                                  |                                          |                                      |                        |                                         |
| <b>C57.12.24</b><br>NONE                            | UNDERGROUND-TYPE 3-PHASE DISTRIBUTION TRANSFORMERS,2500kVA AND SMALLER:<br>HV,34500GrdY..& BELOW,LV,480 V AND BELOW | Sullivan, J.<br>813-228-4111     | T&D<br>IC<br>IAS/REPC                    | IAS/PSEC<br>IEC TC 14<br>1999        | 3/17/1994              | Administratively withdrawn on 1/15/2001 |
| <b>C57.12.40</b><br>PC57.12.40                      | REQUIREMENTS FOR SECONDARY NETWORK TRANSFORMERS, SUBWAY & VAULT TYPES (LIQUID IMMERSSED)                            | Klaponski,B.<br>204-633-7220     | T&D<br>ICC<br>IAS/REPC                   | IAS/PSEC<br>IEC TC14<br>NEMA<br>2005 | 2/1/2002               | PAR Withdrawn<br>Need New PAR           |
| <b>C57.12.44</b><br>NONE                            | STANDARD REQUIREMENTS FOR SECONDARY NETWORK PROTECTORS                                                              | Mulkey D. H.<br>415-973-4699     | T&D<br>SWGR<br>IAS/REPC                  | IAS/PSEC<br>EEI<br>NEMA<br>2005      | 8/10/2000              | Revised Standard approved 8/2000        |
| <b>C57.12.57</b><br>NONE                            | REQUIREMENTS FOR VENTILATED DRY-TYPE NETWORK TRANSFORMERS 2500kVA AND BELOW, W/HV 34500V AND BELOW,LV 216Y..AND     | Robinson, A.                     | T&D<br>EEI/T&D<br>SCC14                  | 3/18/1992<br>12/5/1991<br>2000       |                        |                                         |