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| **Document #:** | **60214-2** |

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| **Document Title:** | **OLTC Application Guide** |

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| **Chair:** | **Craig A. Colopy** | **Vice-Chair** | **Axel Kraemer** |
| **Secretary** |  |  |  |

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| **Current Draft Being Worked On:** | 3 WD IEC 60214-2 | **Dated:** |  |

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| **Meeting Date:** | **14 April 2015** | **Time:** | **15:15 to 16:30** |

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| Attendance: | Members | **13** |
| Guests | **17** |
| Guests Requesting Membership | **2** |
| **Total** | **32** |

**Meeting Minutes / Significant Issues / Comments:**

1. Meeting was called to order at 3:15 pm, April 14
2. Chairman provided the WG a view of a presentation made to the IEC TC14 meeting in Tokyo, Japan, regarding the work being done to harmonize the Tap-Changer standards between IEEE and IEC.
3. A review of Draft 2 WD IEC 60214-2 based on work completed in Washington DC and London, UK was presented to the joint revision Working Group. Comments from the WG as well as ideas for additional information to be included in the draft were discussed.
4. A link on the Power Transformer SC will be created for access to a website for work being done on the joint revision of the Tap-Changer application guide. This site will also include work created by the Task Force comparing the Part 1 of the IEC 60214 Ed 2.0 Tap Changer standard with the IEEE C57.131-2012 standard.
5. Next Work Sessions scheduled are the following:
   1. Kista (suburb of Stockholm, Sweden) on June 8th and 9th, 2015
   2. After the General IEEE transformer meeting in Memphis TN, on November 5th and 6th, 2015.
6. Next general meeting — November 3, 2015 at the Peabody Hotel in Memphis TN
7. Meeting closed at 4:45 pm, April 14

Submitted by: Craig A, Colopy

Date: 04/15/2015

1. Chairman advised WG of the Work Session which took place Friday and Saturday, April 10 – 11, before the General Meeting. Draft 1.0 had been created between the Washington DC and San Antonio meetings based on the work completed in Washington DC. Draft 1.0 had been sent out to the WG members before the work session in San Antonio. Draft 1.1 was created from work done during this past week’s work session.
2. Approval of Washington DC minutes and San Antonio ‘s agenda was given.
3. The Chairman reviewed presentation given at the IEC TC14 meeting in Tokyo, Japan last November regarding the work completed in Washington DC.
4. Chairman reviewed Draft 1.1 with Working Group members and Guests
5. Highlights of Draft 1.1
   1. Discussion on Design Type B resulted in establishing a standard range of regulation in the Raise and Lower directions for Forward and Reverse Power Flow. Annex C created for additional information on step-voltage regulator construction.
   2. Temperature limits in Table 2 enhanced to include differences between IEC and IEEE. Updates also made based on latest changes to C57.12.00.
   3. Added corresponding maximum system voltages to rating tables for single and three phase regulators, 50 and 60 Hz.
   4. Increased maximum supplementary continuous-current rating from 668 to 875 amps
   5. Addressed preferred force-air ratings in a new table.
   6. Provided audible sound levels based on kVA
   7. Added additional Design Tests; Audible Sound and Tank Integrity.
   8. External dielectric clearance table provided for Distribution and Substation regulators
   9. Changes to Design Impulse and Temperature tests in C57.12.90 incorporated.
   10. Routine and Design On-Load Tap-Changer tests added.
   11. Obsoleted referenced control design tests removed and replaced with latest standards
   12. Details on Universal Interface (Mil Spec connector) established for juncture between tank and control enclosure. Identification and numbers of terminals were implemented.
   13. Design compatibility test for control and tap-changer groupings.
   14. Annexes added for Step-Voltage Regulator construction, “Bypass off Neutral” issue and Overloading of Voltage Regulators.
6. Work Sessions will continue at the Memphis meeting in the Fall. An attempt will be made to have a meeting in Germany or France with the IEC members and any interested IEEE members before the Memphis meeting.
7. Next meeting — October 30 & 31, 2015 at the Peabody Hotel in Memphis TN

Submitted by: Gael R Kennedy

Date: 04/13/2015