

Transformers Committee **Standards Luncheon** Monday, March 18, 2013

Today's topics:

- 1) Harmonization of Standards**
- 2) General Q&A**

Erin Spiewak, IEEE-SA

Bill Bartley, Standards Coordinator



Agenda

- Harmonization of Standards
- IEC/IEEE Dual Logo Agreement
 - Joint Development
 - Adoption of an IEEE Standard by IEC
 - Adoption of an IEC Standard by IEEE



Harmonization of Standards

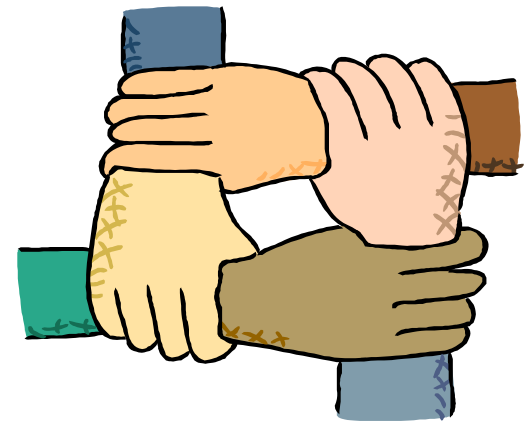
- Coordination
 - When beginning a new standards project or revising an existing standard in either IEEE or IEC, due consideration should be given to review existing standards
 - Determine the extent to which coordination can be achieved

Harmonization & Dual-Logo Agreement

- IEC/IEEE Dual Logo Agreement
 - Aimed at identifying suitable IEEE Standards and draft standards as candidates for processing through the IEC full-consensus procedure at the country level.
 - Joint development of new or existing standards in parallel in both organizations
 - Dual-Logo arrangement in which the logos of both organizations will appear on documents adopted by and jointly developed with IEC
 - Adoption of existing standard

IEC/IEEE Dual Logo Agreement

- Joint Standard Development
 - The original agreement was signed in 2002 and amended to allow for the joint development of documents between both organizations
 - New Projects
 - Revision of existing Standards



IEC/IEEE Joint Development Procedure

- Allows for the joint development of new and existing standards, resulting in one IEC/IEEE Dual Logo International Standard
 - Joint prefix and single number (IEC/IEEE 6XXXX) used in both organizations
- Either IEC or IEEE may initiate a joint development project
 - Each party should contact the other to discuss the project and determine if there is mutual interest

Procedures for Joint Development

- Establishment of a Joint IEC-IEEE Project
 - New or revision to an existing standard in either organization
 - Contact appropriate committee in organization to see if there is mutual interest
 - Both parties agree on the need
 - IEC TC/SC submits a New Work proposal to the IEC Central Office
 - PAR for a New Standard/Revision of an Existing Standard submitted to the IEEE-SA
 - Indicate on the PAR that the document is to be developed with IEC and identify the IEC TC/SC
 - Joint Working Group formed
 - Convenor chosen by the working group
 - Appointment confirmed by both the IEC TC/SC and the IEEE Technical Committee

Procedures for Joint Development

- Preparation and Circulation of Draft
 - Working group prepares draft for comments utilizing the IEC Standards Development template
 - Draft circulated for three month comment period
 - IEC – National Bodies (experts)
 - IEEE Technical Committee/Working Group to their experts for comment
 - Comments compiled by organization which initiated the project
 - IEC TC/SC Secretariat
 - IEEE Working Group

Procedures for Joint Development

- Preparation and Circulation of Draft (cont)
 - Compilation of comments circulated to joint working group (may occur numerous times)
 - Copy to IEC TC/SC
 - IEC TC/SC Secretariat shall arrange for the compilation of comments to be circulated to all P-members and O-members of the technical committee or subcommittee (Committee Draft)
 - Copy to IEEE Working Group
 - Comment resolution takes place
 - Once consensus has been reached, document is prepared for ballot
 - IEC – Committee Draft Vote (CDV)
 - IEEE – Sponsor Ballot

Procedures for Joint Development

- Balloting
 - Both the IEC CDV and the IEEE Sponsor ballot must close on the same date
 - IEC CDV lasts for five months
 - IEEE Sponsor ballot at least a two month period
 - IEEE Sponsor ballot begins with ballot invitation
 - Upon close of ballot, ballot resolution takes place by the working group
 - May require recirculation of document to both IEC TC/SC and IEEE working group

Procedures for Joint Development

- Submission of Document for Approval
 - Submitted for approval simultaneously
 - IEEE Technical Committee submits the draft and supporting document to the IEEE-SA Standards Board for approval
 - IEC Central Office circulates the document as a Final Draft International Standard (FDIS)
 - Ballot open for two months
 - 2/3 of P members must vote affirmatively
 - Not more than a 1/4 of the total votes (both P and O members) can be negative
 - Abstentions are not counted
 - If the IEEE-SA Standards Board approves the document and if the FDIS vote in IEC is affirmative, then the document is published as a Joint IEC-IEEE International Standard document.
 - Maintenance performed via the IEC/IEEE Dual Logo Maintenance Procedure

Procedures for Joint Development

- Diverging Votes
 - During balloting, there may be diverging votes
 - IEC and IEEE technical committees should decide if it is possible to reconcile the differences
 - If reconciliation is not possible, each organization can proceed to develop the standard independently of each other
 - Each organization will retain the copyright of their individual documents

Maintenance of an IEC/IEEE Dual Logo International Standard

- IEEE – all IEC/IEEE Dual Logo International Standards must undergo a revision within ten years of the IEEE-SA Standards Board approval in order to remain active
- IEC – Standards are given a Stability Date, usually 3-12 years from publication; however efforts should be made to coordinate with IEEE
- Withdrawal of a IEC/IEEE Dual Logo Int'l Standard
 - Either IEEE/IEC can withdraw a standard through each organizations' process and shall coordinate with each other accordingly

IEC/IEEE Joint Development Procedure



IEC 60000

Edition X.0 2012-XX

**INTERNATIONAL
STANDARD**

IEEE 0000™

Existing Standards in both organizations - Adoption

- When technically equivalent or similar standards exist in both IEEE and IEC
 - Interest in reviewing the technical content in both to determine if technical differences can become better aligned or eliminated
 - If an interest is present consider the following:
 - Combine the two standards into one joint standard. IEEE/IEC Dual Logo Agreement to be followed.
 - Maintain separate standards but decide to:
 - Coordinate the content of the standards if possible
 - Add material to the standards that outlines the differences

Adoption: Existing Standard in IEC

- If IEC has an existing technical standard that does not yet exist in IEEE:
 - IEEE can review the IEC standards, and can consider to adopt that document as an IEEE standard
 - A PAR (Project Authorization Request) would be submitted for the Adoption of a non-IEEE Standard
 - Modifications to the IEC document can be included in the front matter or in a normative annex
 - A joint revision project with IEC could also be initiated through the IEC/IEEE Dual Logo Agreement – Joint Development Procedure

Adoption: Existing Standard in IEEE

- IEC may decide to adopt an IEEE Transformers Committee standard intact, with no change
 - IEC/IEEE Dual-Logo Agreement – Adoption Procedure
- IEC may feel modifications should be made to the standard and may contact the IEEE Transformers Committee to discuss the changes
 - Two Options:
 - IEEE Transformers Committee could revise the standard and then IEC can proceed to adopt
 - IEEE Transformers Committee could invite IEC to jointly revise the standard
 - IEC/IEEE Dual Logo Agreement – Joint Development Procedure

Items to Consider for Coordination

- Joint Meetings
- Balloting Timeline
- Addressing Technical Differences
 - Address the technical differences through the use of an “In Some Countries” clause(s) in the standard



Summary

- IEEE and IEC remain committed to working together to create international standards
- Cooperation between committees is key
 - Consider holding meetings to maximize international participation where appropriate
 - Consider a liaison to formalize communication

Information

- [Http://standards.ieee.org/develop/intl/iec.html](http://standards.ieee.org/develop/intl/iec.html)
- http://standards.ieee.org/develop/intl/iec_ieee_coop.pdf
- <http://www.transformerscommittee.org/subcommittees/standardsc/Harmonizing/S12-Paper-HarmonizationOfStandards.pdf>
 - Located on Transformers Committee Website

Q&A