Why IEC Standards Work Is Important to My Company

Presented by:
USNC Communications and
Continuing Education Committee and ANSI
Presentation Areas

1. **Introduction** - Kevin Lippert
2. **USNC/IEC** - Phil Piqueira
   - The USNC & IEC and how they help improve the quality of products and services covered by their standards
3. **Technical Aspects** - Alec McMillan
   - How can organizations help develop and maintain the technical work of IEC Standards to represent their best interests
4. **Strategic Objectives** - Jim Matthews
   - Establishing influence in global markets via active participation in the standardization of current and future technologies
Why IEC Standards Work Is Important to My Company

USNC/IEC
USNC Mission

To provide strategy to **effectively participate in** the development of IEC standards to **facilitate international trade** for the benefit of the U.S. industry in the fields of all electrotechnologies, and to **provide a framework to the U.S. industry**, which serves as the focal point, conduit, and advocate for U.S. interests in international and **regional electrotechnical standards, conformity assessment, and other related matters**.
What Is the USNC?

- **United States National Committee**
  - Official U.S. member to the IEC and related regional standardization bodies

- Represents the interests of the U.S. electrotechnical industry before its international counterparts in the standardization arena

- Committee of the American National Standards Institute (ANSI)
# Membership on the USNC Council

## Industry / Companies
- Corning Incorporated
- Dell Inc
- Eaton Corporation
- FM Approvals
- General Electric
- Hubbell Inc
- Intertek
- Pass Seymour/Legrand (NEMA)
- Philips Healthcare
- Qualcomm
- Rockwell Automation
- Schneider Electric
- Siemens Industry Inc
- Sony Electronics Inc
- SCS Consulting (IEEE)
- The Boeing Company (ECC Corp)
- Thomas & Betts (NEMA)
- Underwriters Laboratories

## Organizations
- CSA Standards
- Consumer Electronics Association
- ECC Corporation
- Institute of Electrical and Electronic Engineers
- Electronic Components Industry Association
- National Electrical Manufacturers Association
- National Fire Protection Association
- Telecommunications Industries Association

## Government
- Food and Drug Administration
- National Institute of Standards and Technology
- U.S. Department of Defense

## Other
- U.S. Representative IEC Conformity Assessment Board
- Virginia Tech University (Consumer Advocate)
What Does the USNC/IEC Do?

- Serves as the U.S. point of contact for industry, government, consumers, academia, and others stakeholders in the electrotechnical industry
- Represents U.S. interests before the IEC and selected international electrotechnical fora
- Provides guidance to ANSI’s Board of Directors on policy issues and procedures involving the electrotechnical industry
- Promotes active engagement between domestic and international standards organizations to encourage cooperation as needed
- Allows unlimited participation in any of the nearly 150 USNC-approved U.S. Technical Advisory Groups (TAGs)
Why IEC Standards Work Is Important to My Company

Technical Activities
177 Technical Committees (TC) and Subcommittees (SC)

- A/V and multimedia
- Alternative energies
- Assembly technology
- Capacitors and resistors
- Connectors
- E-Mobility
- Electric cables
- Electroacoustics
- Fibre optics
- Industrial process automation
- Information technology
- Nanotechnology
- Power systems management
- Railway equipment and systems
- Safety of household appliances
- Smart Grid
- Solid electrical insulating materials
- Renewables
USNC Committees

- **USNC Technical Management Committee (TMC)**
  - The USNC Technical Management Committee is responsible for ensuring the proper and expeditious development of technical work.

- **USNC Conformity Assessment Policy Coordination Committee (CAPCC)**
  - Coordinates USNC positions on Electrotechnical Conformity Assessment (CA) issues which are specifically related to or impact the IEC global agenda.
USNC Technical Advisory Groups (TAGs)

- USNC-approved TAGs develop the U.S. positions on technical - and certain policy - issues under consideration within the IEC Technical Committee structure
- U.S. TAGs are *mirror committees* of IEC TCs and SCs
- TAGs provide the delegates who will represent the United States in TC/SC discussions at IEC meetings and also the experts who will serve on WGs, PTs, and MTs
The USNC at Work

- IEC Standards and Conformity Assessment services offer
  - market access
  - global awareness
  - technology transfer
  - business efficiency

- Every year **hundreds of U.S. experts participate** in IEC meetings, directly affecting the development of international standards
Why IEC Standards Work Is Important to My Company

Strategic Areas
Importance of Global Cooperation and Collaboration

Active participation in both international and regional standards-setting activities provides U.S. electrotechnical industry experts with . . .

- an opportunity to influence domestic and international policy
- an opportunity to benefit from unique networking opportunities and learn from international colleagues
- a forum for the presentation of U.S., corporate or, perhaps, personal positions
- an opportunity to comment upon proposals submitted by others
Regional Standards Coordination

- **The Americas**
  - CANENA
  - COPANT

- **Africa**
  - FINCA
  - ARSO, SADC

- **Middle East**
  - AIDMO
  - GSO, GCC

- **Europe**
  - CENELEC
  - CEN
  - ETSI

- **Pacific Rim**
  - PASC
### New Technical Committees (TCs)

#### Examples of the most recently established IEC TCs

- **TC 113**  
  Nanotechnology standardization for electrical and electronic products and systems

- **TC 114**  
  Marine energy - Wave, tidal and other water current converters

- **TC 115**  
  High Voltage Direct Current (HVDC) Transmission for DC voltages above 100kV

- **TC 116**  
  Safety of hand-held motor-operated electric tools

- **TC 117**  
  Solar Thermal Electric Plants

- **PC 118**  
  Smart Grid User Interface

- **TC 119**  
  Printed Electronics
Hot Button Issues

- **Electrotechnology for Mobility**
  - New Strategic Group to manage and coordinate standardization work for E-Mobility
    - Investigate all interactions between plug-in electric vehicles and electricity supply infrastructure

- **China**
  - Fast becoming a major player in the international standards arena and a vital contributor with which you will interface

- **Renewable Energies**
  - IEC international standards for technical performance and safety
  - Certification schemes
In Summary

- The USNC and its members participate in approximately 90% of IEC Technical Committees and Subcommittees.

- Every year, hundreds of U.S. delegates participate in USNC and IEC activities, directly affecting the development of International Standards.
  - The USNC operates over 150 IEC Technical Advisory Groups (TAGs).
  - Over 1,500 experts are currently involved in IEC activities in the U.S.
USNC Staff Contact Information

Joe Tretler
Vice President, International Policy
jtretler@ansi.org
212.642.4977

Charlie Zegers
Senior Director and
USNC General Secretary
czegers@ansi.org
212.642.4965

Tony Zertuche
Senior Manager and
USNC Deputy General Secretary
tzertuche@ansi.org
212.642.4892

Kevin Sullivan
USNC/IEC Department Supervisor
ksullivan@ansi.org
212.642.4963

Mary Johnson
USNC Voting Coordinator
mjohnson@ansi.org
212.642.4939

Debra Negron
USNC Meeting Coordinator
dnegron@ansi.org
212.642.4936

Elizabeth Pomales
USNC Experts Coordinator
epomales@ansi.org
212.642.4964