



# 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*



United States  
National Committee  
of the 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*



United States  
National Committee  
of the IEC

# 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. eletrotechnical 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)



United States  
National Committee  
of the IEC

# What Does the USNC/IEC Do?



- Serves as the U.S. point of contact for industry, government, consumers, academia, and others stakeholders in the eletrotechnical 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*



United States  
National Committee  
of the IEC

---



# 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



United States  
National Committee  
of the IEC

# Why IEC Standards Work Is Important to My Company



## *Strategic Areas*



United States  
National Committee  
of the IEC

# 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



United States  
National Committee  
of the IEC

# 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