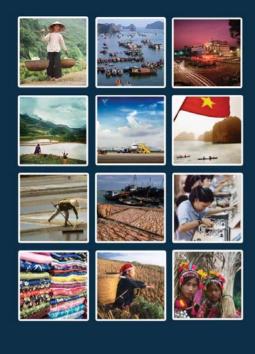


#### U.S. - Vietnam Standards Training Program





Cooperation between ANSI and STAMEQ Sponsorship by the United States Trade and Development Agency





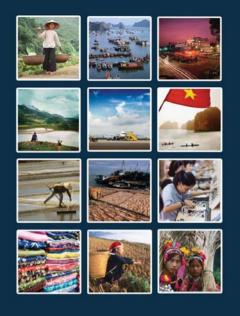


#### **Intensive Session 3:**

#### **Regulatory Principles**

March 12, 2008

Cooperation between ANSI and STAMEQ Sponsorship by the United States Trade and Development Agency



#### Lecture 2:

#### National Technology Transfer and Advancement Act (NTTAA)



### Agenda for this session

- U.S. Government Participation in Voluntary Consensus Standards
- □ The Government's Role in Standards Development
- The Government as a Stakeholder
- Government Agency Participation in Standards Development
- Government Use of Standards
  - Benefits
  - Legal Policy and Framework
  - Key Points
  - Sources
  - Examples

#### Conclusions

## U.S. Government Participation in and Use of Private Sector Standards

- The U.S. Standardization system consists of a unique and dynamic cooperation between the federal government and the private-sector. This relationship is important to emphasize because of its role in:
- Promoting technical innovation in the U.S.
- Advancing U.S. positions globally
- Adapting U.S. policy to the needs of industry and consumers thus reinforcing economic competitiveness
- Encouraging the development of globally relevant standards

#### The Government's Role in Standards Development

The U.S. Government is:

- A standards user
  - through the purchase of products
  - through the incorporation of standards into regulations
- A participant in standards development through the voluntary process that does not receive any special treatment/privileges for participation
- A contributor to the technical underpinning for standards
- An advocate for the U.S. national interest

## Goal: protect health, safety and the environment while not creating unnecessary barriers to trade

#### **Government as a Stakeholder**

The U.S. Government has an interest in:

Promoting fair trade and competition

- Having confidence in competently conducted activities
- Assuring interoperability of critical infrastructure like...
  - IT systems
  - Emergency communications systems
  - E-government

...applicable to purchased systems and components

#### Facilitating innovation

### US Government Agency Participation in Standards Development

- More than 3,200 agency staff participate in private sector standards development activities
- Government agencies participate in relevant fora developing voluntary standards in order to:
  - Support regulatory needs
  - Enable efficient government procurement
  - Create solutions to support emerging national priorities

□ In addition, NIST contributes technical efficiency by:

- Contributing expertise in metrology (measurement) to the development of test methods; product, system, and process specifications; etc.
- Participating in data collection efforts supporting the development of test methods
- Providing measurement standards needed to calibrate instruments used in test methods

#### **Example: Government representatives** participation in standards development

- NIST has active involvement in nanotechnology standards development activities
- Emphasis are developing relevant standards to enable reliable measurement and characterization
- NIST experts provide technical expertise in highly accurate and precise measurement, and provide measurement standards (reference materials) that underlie documentary standards
- NIST staff participate in ASTM E42, ASTM E56, IEC TC113, ISO TC229, ISO TC201, ISO TC202, ISO TC213, IEEE-P1650, IEEE-P1690, JEDEC, SEMI, OECD-WPMN: all focusing on standards and test method development within areas of nanotechnology

#### **Government Use of Standards: Benefits**

- Eliminates the cost of developing standards that meet government requirements
- Decreases cost of goods procured
- Promotes efficiency and economic competition; decreases burden on regulated communities
- Furthers the policy of reliance on the private sector to supply goods and services that meet government needs

#### Government Use of Standards: Legal and Policy Framework

U.S. law\* and policy\*\* require Federal agencies to:

- use voluntary consensus standards to the extent practicable
- report development of agency-unique standards
- participate in the development of voluntary consensus standards relevant to their needs

Encouraging the trend toward Federal agency reliance on non-government standards is an important part of the U.S. Standards Strategy

\*Public Law 104-113 (1996), also referred to as the National Technology Transfer and Advancement Act (NTTAA) of 1995

\*\*OMB Circular A-119 – Federal Participation in the Development and Use of Voluntary Consensus Standards and in Conformity Assessment Activities

# National Technology Transfer and Advancement Act (NTTAA)

#### $\Box$ Section 12(d) :

 Directs federal agencies to use "technical standards developed or adopted by voluntary consensus standards bodies" as a means to carry out policy objectives or activities determined by the agencies or departments

## National Technology Transfer and Advancement Act (NTTAA)

- All Federal agencies should use consensus technical standards in lieu of agency unique standards
  - Agencies must annually report use of agency unique standards and provide explanation of use
- Federal agencies should participate in standards developing activities
- NIST is identified as the coordinator of Federal standards and conformity assessment activities with those of the private sector

### **Policies of OMB Circular A-119**

Encourage federal agencies to benefit from the expertise of the private sector

Promote federal agency participation in privatesector standards developing bodies to ensure the creation of standards that meet the needs of Federal Agencies

- Reduce reliance on government-unique standards where private-sector standards suffice
  - No preference among types of standards (consensus versus non-consensus)
  - Use of commercial off-the-shelf products regardless of source of underlying standard

#### **Government Use of Standards: Key Points**

- The federal government makes maximum use of private sector standards, where appropriate
  - In procurement and policy activities
  - To support regulatory activities
- Agencies retain the authority to choose the standard that best meets their needs
- The voluntary consensus process is preferred specifically because of the benefits the process offers

## Examples of Standards Sources Used by the Federal Government

- □ ASTM International
- Institute for Printed Circuits
- American Society of Mechanical Engineers (ASME)
- □ National Fire Protection Association (NFPA)
- □ Society of Automotive Engineers
- Underwriters Laboratories, Inc.
- American Petroleum Institute
- International Organization for Standardization/International Electrotechnical Commission (ISO/IEC)
- □ International Maritime Organization (IMO)
- Compressed Gas Association

#### **Examples of How Agencies Use Standards**

- Specific references to private sector standards incorporated into regulations
- General references to private sector standards in regulations
- Agency-developed standards
- Consensus standards recognized in support of regulations

#### Reliance on Voluntary Standards for Regulation: Consumer Product Safety Commission

- Over the past 15 years, CPSC has only issued 35 "mandatory standards", for a ratio of 9 consensus standards for every "mandatory standard"
- CPSC has found using consensus standards wherever possible to be faster and less costly
- The consensus standards development process fully considers CPSC's expertise and technical advice at each stage of the process
- When "mandatory standards" are necessary, CPSC favors performance rather than design standards that give manufacturers flexibility

#### Reliance on Voluntary Standards for Procurement: The U.S. Department of Defense

- The U.S. DoD has reduced significant cost and optimized its procurement and research and development budget by:
- Adopting, whenever practical, standards developed in the private sector already available in the private-sector rather than repeating work
- Using commercial off-the shelf products wherever available and feasible, rather than creating government-unique product lines

#### Reliance on Voluntary Standards for Government Programs: The Environmental Protection Agency

Since the introduction of the NTTAA in 1996 requiring federal agencies to use voluntary standards wherever possible, the EPA has benefited from:

- Greater ease in meeting regulatory obligations, with voluntary standards meeting the technical requirements of about half of the 600-900 EPA rules written each year
- Increased collaboration between government and private sector technical experts on the environment
- Opened paths of communication with industry to advance the agency's objectives

### Conclusions

- Individual federal agencies make effective use of private sector standards in many applications
- Agencies must consider whether the use of standards helps them accomplish their missions, increases efficiency, reduces the burden on regulated and other communities and whether trade is impacted
- At last count, more than 6,500 private-sector standards were incorporated by reference into federal regulations
- Greater use of standards with global acceptance facilitates both the least burdensome regulatory approach and trade

### **Questions?**

#### **Additional Resources**

Database of standards used for procurement: <u>http://standards.gov/sibr/query/index.cfm?fuseaction=Ho</u> <u>me.total\_procurement\_sibr</u>

Database of standards used in regulation: http://standards.gov/sibr/query/index.cfm

Link to OMB A-113: http://ts.nist.gov/ts/htdocs/210/nttaa/113.htm

Link to NTTAA: <u>http://ts.nist.gov/ts/htdocs/210/nttaa/nttaa-qa.htm</u>