



SETTING THE STANDARD

NRC Standards Forum 2018

SDO Panel on Identifying and Prioritizing Topics and Leveraging Partnerships

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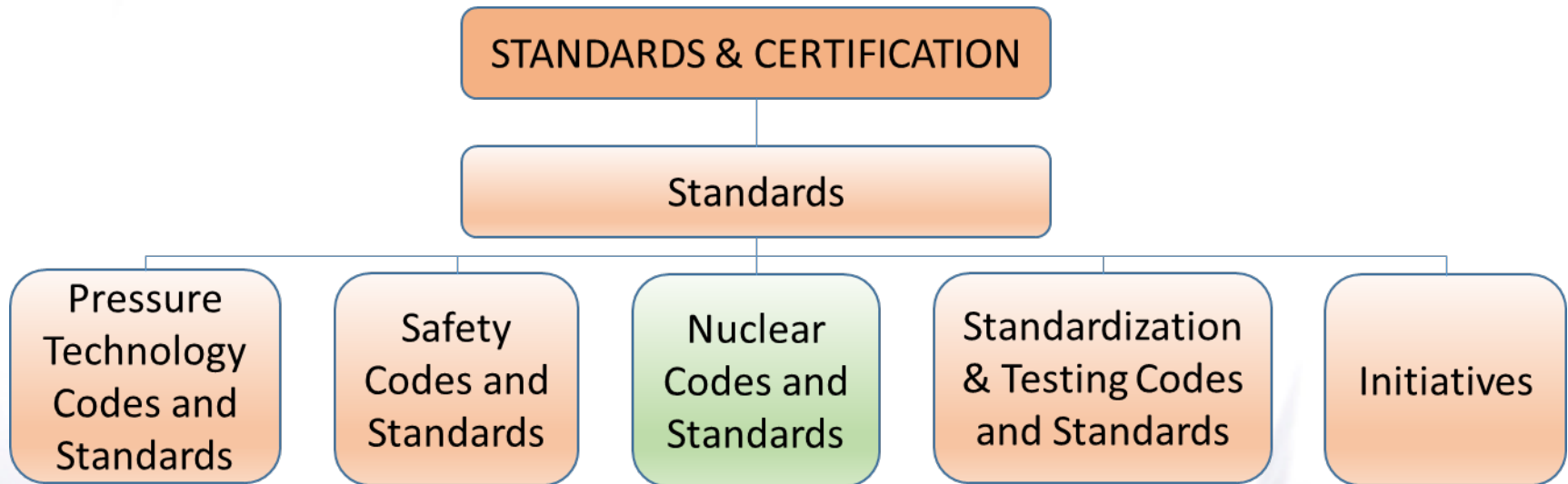
Overview

- ASME Standards Development Today
- Technology Trends
- Identifying New Topics
- Prioritization of Items
- Collaboration with other Entities
- International Participation

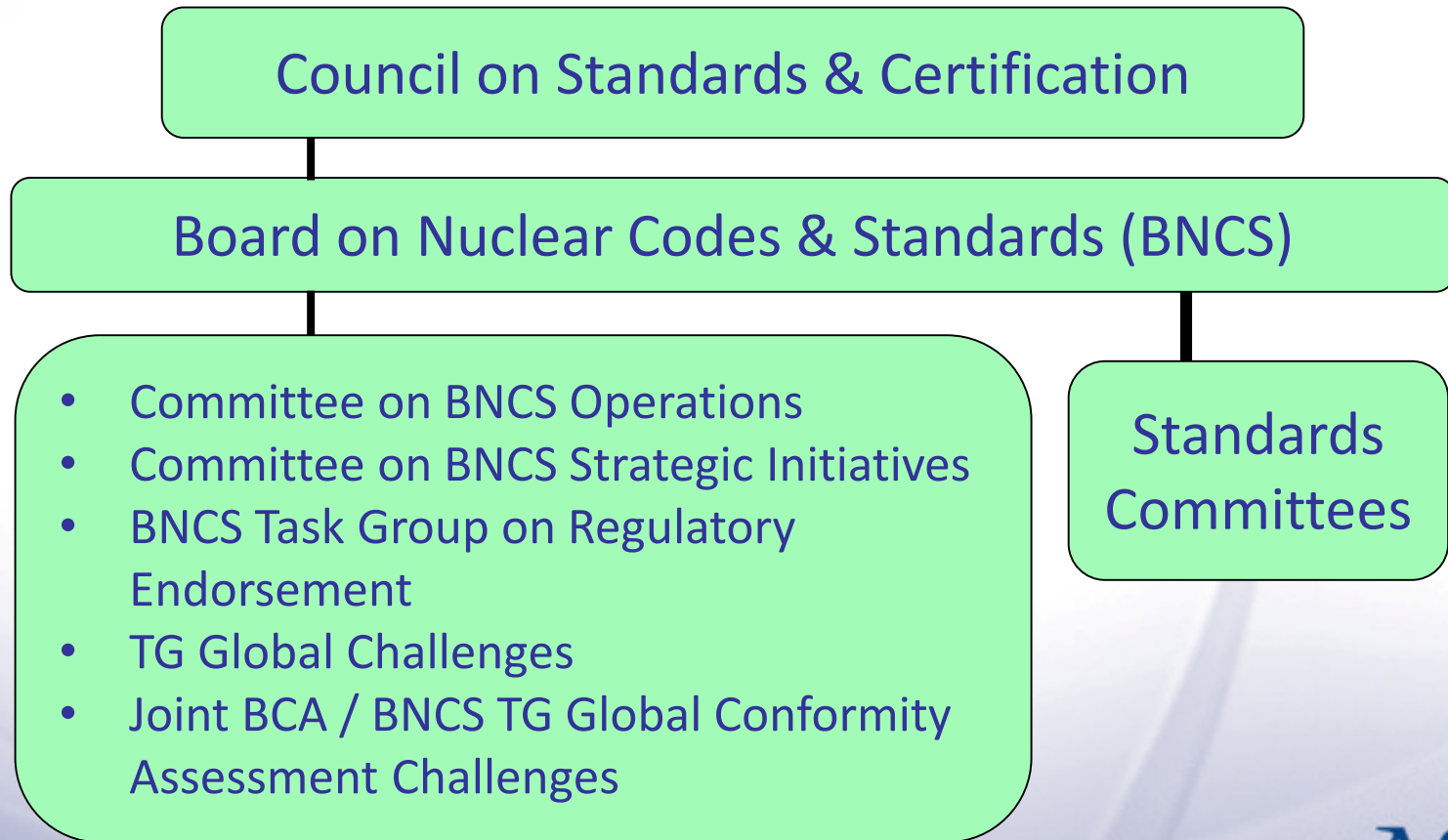
ASME Standards and Certification Today

- 700 S&C Committees, including 70 Consensus Committees
- More than 5,500 volunteers, including 1000 from outside N. America
- About 50 Technical S&C Staff
- We have more than 500 Standards
- Certification of 7000+ manufacturers, in 75 countries

ASME Standards and Certification Organization Structure



ASME Standards and Certification Organization Structure



Nuclear Codes and Standards Committees

BPV Committee on Construction of Nuclear Facility Components (III)	BPV Committee on Nuclear In-service Inspection (XI)
Standards Committee on Nuclear Quality Assurance (NQA)	Standards Committee on Operation and Maintenance of Nuclear Power Plants (O&M)
Standards Committee on Qualification of Mechanical Equipment Used in Nuclear Facilities (QME)	Standards Committee on Cranes for Nuclear Facilities (CNF)
ASME/ANS Joint Committee on Nuclear Risk Management (JCNRM)	Standards Committee on Nuclear Air and Gas Treatment (CONAGT)

Identifying Technology Trends & New Topics

- **ASME Industry Advisory Board Meetings (IAB)**
 - 5 Core Technologies (Clean Energy, Pressure Technology, Robotics, Bioengineering & Advanced Manufacturing)
- **ASME Technical Advisory Panel Meetings (TAP)**
 - Includes 5 Core Technologies and Supporting Technologies (e.g. AI, Data Analytics, Internet of Things, etc.)
- **ASME C&S Committee Meetings (open to public)**
 - Committee Volunteers & Meeting Guests insight
- **Stakeholders**
 - Inquiry Process
 - User Requests (Examples: New Materials, New NDE methods, etc.)
- **Industry Forums & Conferences** (e.g. NRC Forum on Advanced Manufacturing)

Prioritization of Items

- **NCS Standards Committee**

- Health and Public Safety is paramount
- Committee Tools:
 - Action Item Tracking Lists
 - Strategic Milestones Plans
 - Publication Schedules

- **ASME/NRC Management Meetings**

- Semiannual calls to discuss items of importance and top ten lists
- Biennial face-to-face meetings in Washington, DC

- **BNCS Strategic Plan**

- Committee on Board Strategic Initiatives (CBSI)
 - Executive Strategic Advisory Council (ESAC)
 - Board on Nuclear Research Evaluation Group (BNREG)
 - Standards Committee

Collaboration with other Entities – SDOs

- **ASTM** – American Society for Testing and Materials
- **ACI** – American Concrete Institute
- **ANS** – American Nuclear Society
- **API** – American Petroleum Institute
- **CSA** – Canadian Standards Association
- **ISO** – International Organization for Standardization

Collaboration with other Entities – SDOs

(continued)

- **JSME** - Japan Society of Mechanical Engineers
- **CNS** - China Nuclear Society
- **KTA** - (Germany) The Nuclear Safety Standards Commission (Kerntechnischer Ausschuss)
- **SDO Convergence Board**
 - ASME, JSME, KEPIC, AFCEN, PNAE, ISNI
- **MDEP** - Multinational Design Evaluation Program
- **WNA** - World Nuclear Association
 - Cooperation in Reactor Design Evaluation and Licensing (CORDEL)

Collaboration with other Entities – Research and Academia

- International Conference on Nuclear Engineering (**ICONE**)
 - Co-sponsors with JSME and CNS
- ASME Pressure Vessels & Piping Conference (**PVP**)
- NRC Pump & Valve Symposium (**P&V**)
- BNCS Meetings at Universities
 - Promote Standards Development
 - Introduce various nuclear energy technology topics
- Institute of Nuclear and New Energy Technology (INET)
 - Tsinghua University
 - Authorized Training Provider
- ASME E-Fest

International Participation

- **KEA** – Korea Energy Agency
- **KEPIC** – Korea Electric Power Industry Code
- **CNNC** – China National Nuclear Corporation (China)
- **CGN*** – China General Nuclear Power Group
- **CSTM** – China Standard and Test Methods
- **NNSA*** – National Nuclear Safety Administration (China)
- **SPIC*** – State Power Investment Corporation (China)
- **SNPTC** – State Nuclear Power Technology Corporation (China)
- **SNERDI*** - Shanghai Nuclear Engineering Research and Design Institute
- **CNEA*** – National Atomic Energy Commission (Argentina)
- **INTI*** – National Institute of Industrial Technology (Argentina)

**Supporting organizations for ASME international Working Groups*

NCS International Working Groups (IWGs)

- Argentina
- Japan
- China
- Germany
- India
- Korea
- Italy
- EU (Germany, Bulgaria, Czech Republic, Belgium, Romania, and Switzerland.)

ASME Regional Offices

- Beijing, China
- Brussels, Belgium
- New Delhi, India
- Houston, TX
- New York, NY
- Washington, DC

Questions?