



*SETTING THE STANDARD*

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# **NRC Standards Forum 2018**

## **SDO Panel on Identifying and Prioritizing Topics and Leveraging Partnerships**

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**Oliver Martinez**

**Project Engineer, ASME Nuclear S&C**

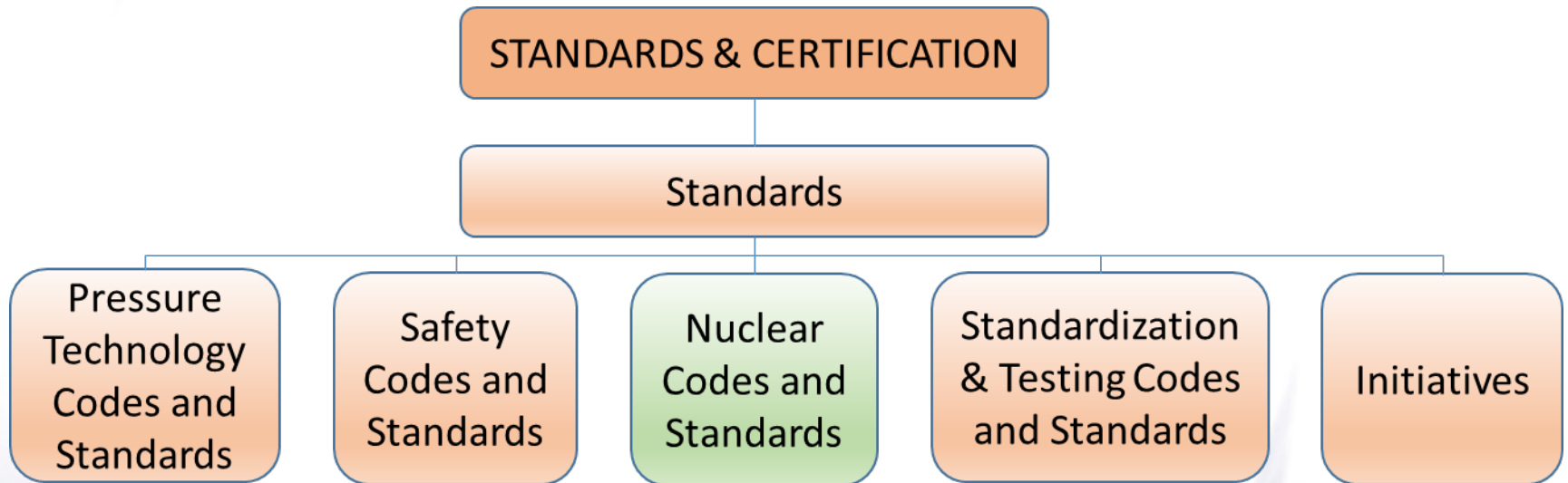
# Overview

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

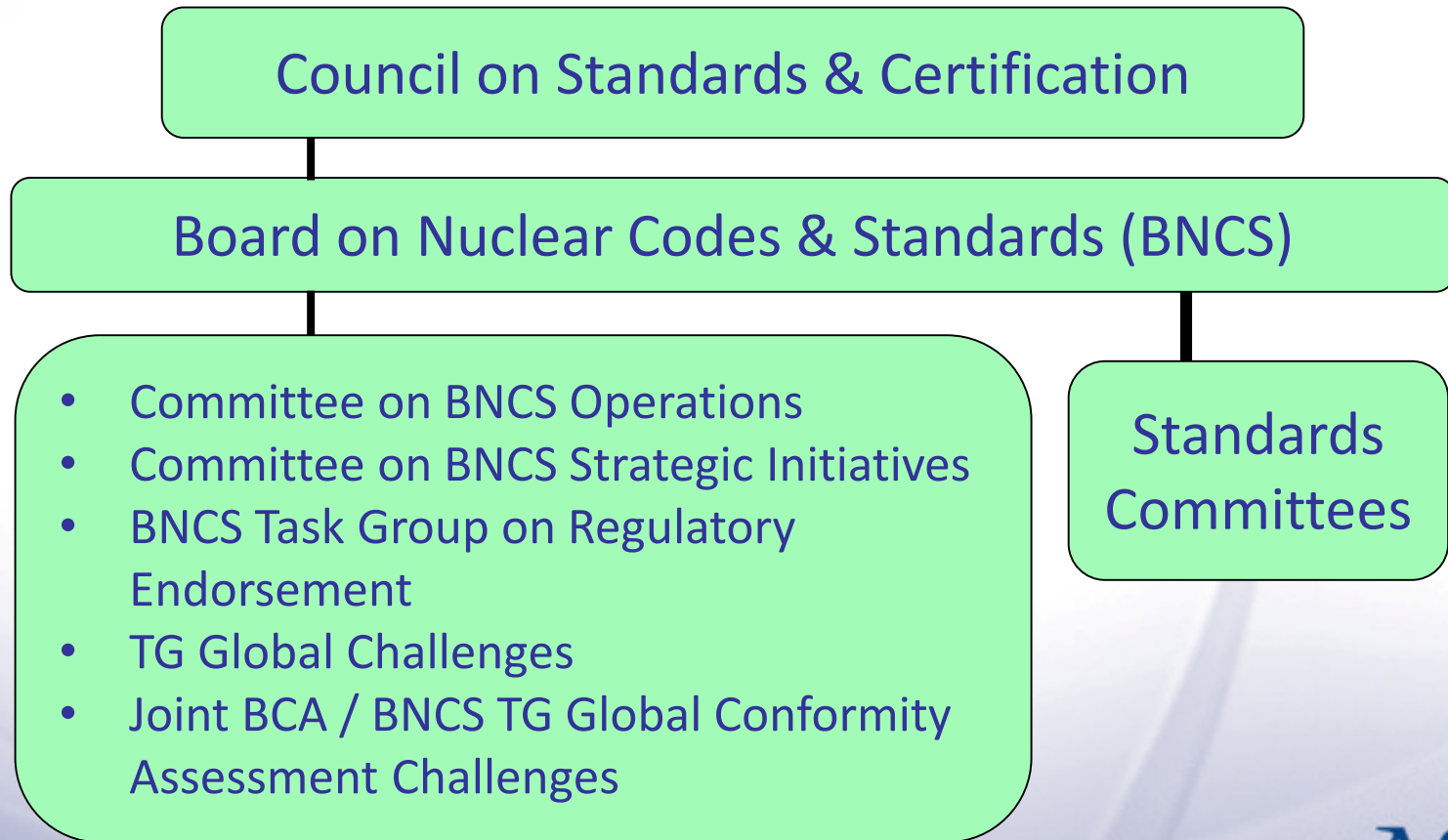
# ASME Standards and Certification Today

- 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



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# 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?