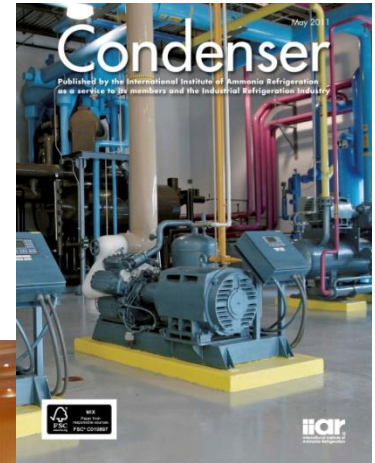


The IIAR and Standards Development

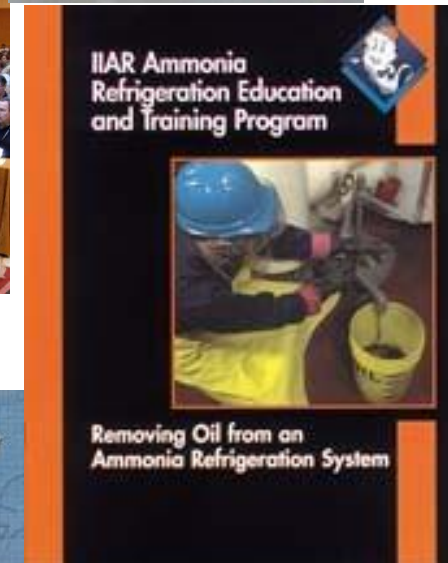
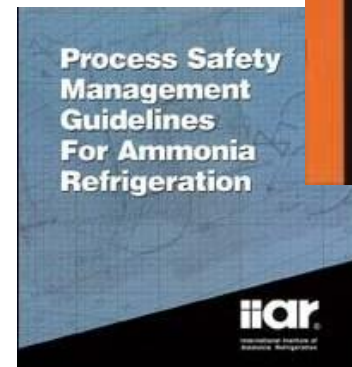
Eric M. Smith, P.E. –
Technical Director



IIAR – Who We Are, What We Do



- Technical Society for Industrial Refrigeration
- ANSI Accredited Standards Writer
- Advocate for Natural Refrigerants
- Publisher of Technical and Educational Resource Materials
- Advocate with other industrial organizations to regulatory agencies globally



° Mission Statement

IIAR is an organization providing advocacy, education, standards and information for the benefit of the ammonia refrigeration industry worldwide



Using IIAR Standards, Bulletins and Handbooks

- What is IIAR doing?
 - *Creating Standards intended for Codes*
 - *Creating Handbooks intended for guidance*
 - *Eliminating Bulletins*
 - *Re-writing existing Standards based upon the new understanding that inspectors will use the entire document as the basis for inspections*

- IIAR Committees





American National Standards Institute (ANSI)

- An organization created for the development of all kinds of standards
- ANSI establishes the “rules” for standards development
- IIAR is an “Accredited ANSI Standards Developer”

About ANSI

About ANSI Overview



As the voice of the U.S. standards and conformity assessment system, the American National Standards Institute (ANSI) empowers its members and constituents to strengthen the U.S. marketplace position in the global economy while helping to assure the safety and health of consumers and the protection of the environment.

The Institute oversees the creation, promulgation and use of thousands of norms and guidelines that directly impact businesses in nearly every sector: from acoustical devices to construction equipment, from dairy and livestock production to energy distribution, and many more. ANSI is also actively engaged in accrediting programs that assess conformance to standards – including globally-recognized cross-sector programs such as the ISO 9000 (quality) and ISO 14000 (environmental) management systems.

About ANSI

In its role as the only accreditor of U.S. voluntary consensus standards developing organizations, ANSI helps to ensure the integrity of the standards developers that use our *ANSI Essential Requirements: Due process requirements for American National Standards*. A separate process, based on the same principles, determines whether standards meet the necessary criteria to be approved as American National Standards. Our process for approval of these standards (currently numbering approximately 10,000) is intended to verify that the principles of openness and due process have been followed and that a consensus of all interested stakeholder groups has been reached.

The hallmarks of this process include:

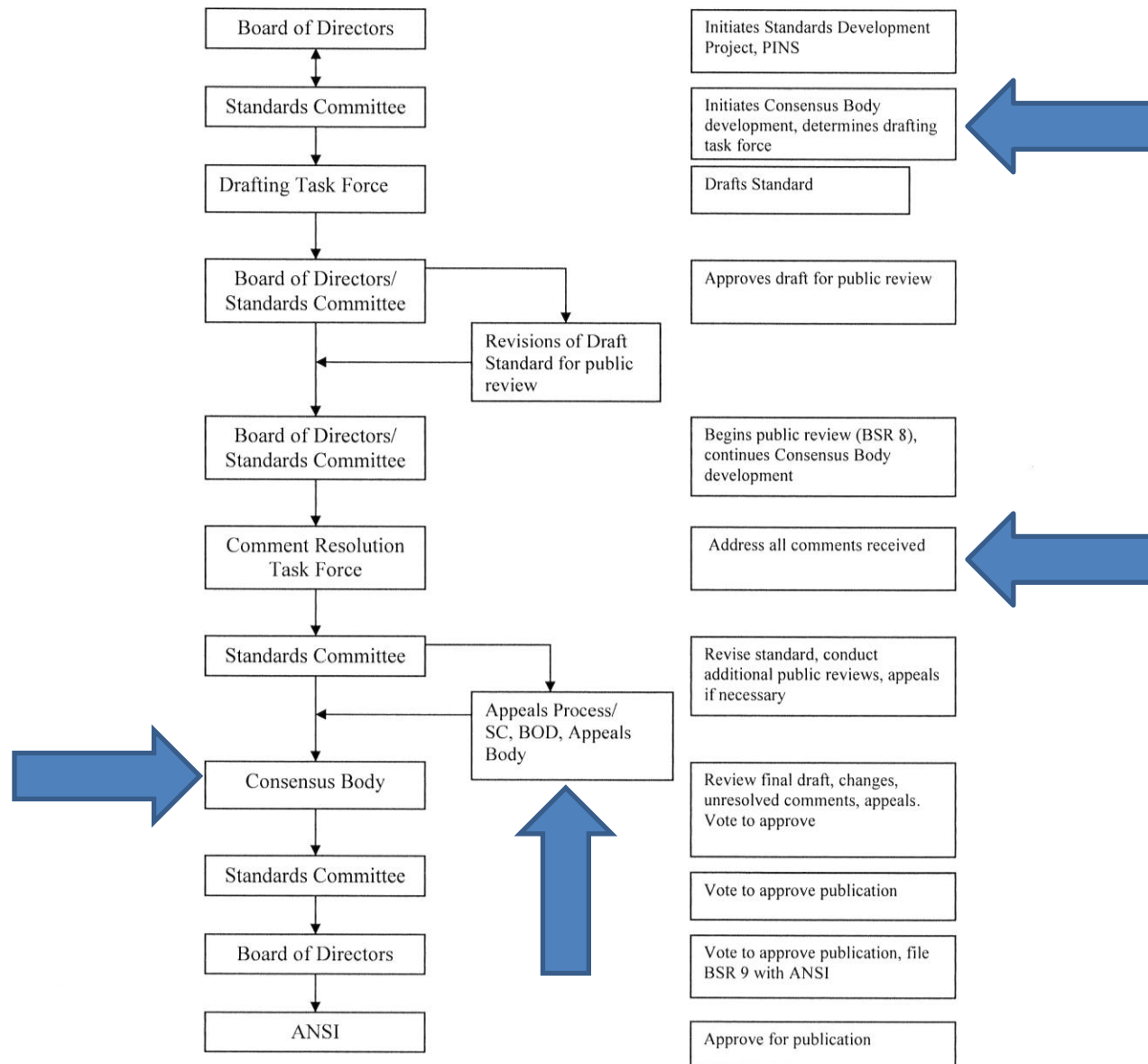
- ✱ Consensus must be reached by representatives from materially affected and interested parties
- ✱ Standards are required to undergo public reviews when any member of the public may submit comments
- ✱ Comments from the consensus body and public review commenters must be responded to in good faith
- ✱ An appeals process is required

About ANSI

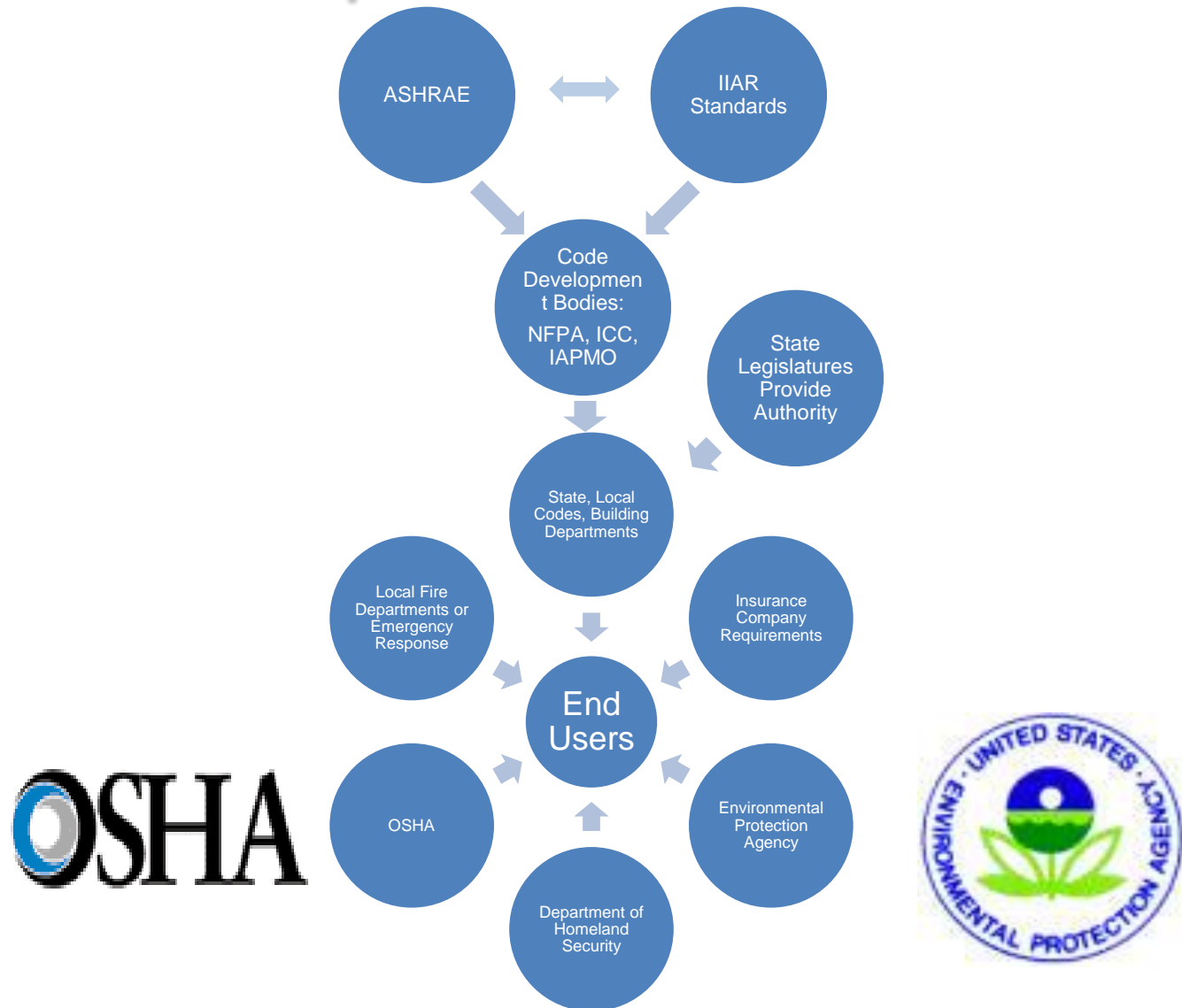
In order to maintain ANSI accreditation, standards developers are required to consistently adhere to a set of requirements or procedures known as the “*ANSI Essential Requirements*,” that govern the consensus development process. Due process is the key to ensuring that ANSs are developed in an environment that is equitable, accessible and responsive to the requirements of various stakeholders. The open and fair ANS process ensures that all interested and affected parties have an opportunity to participate in a standard’s development. It also serves and protects the public interest since standards developers accredited by ANSI must meet

IIAR Standards Procedure

Simplified Flow Chart:



Code Development Relationships



IIAR Standards - Why?

- “If we do not develop our standards, someone else will”
 - API standards often referenced by regulators
 - We are not a “chemical processing industry
 - OSHA would use our guidance if it was complete
- Why Mechanical and Fire Code Submissions?
 - Need to make our industry safe
 - Acceptance by Code Bodies gives our Standards more “heft” and consequently more adherence.