ASA
ACOUSTICAL SOCIETY
OF AMERICA
STANDARDS

ASA STANDARDS: AN OVERVIEW

WHAT ARE STANDARDS?

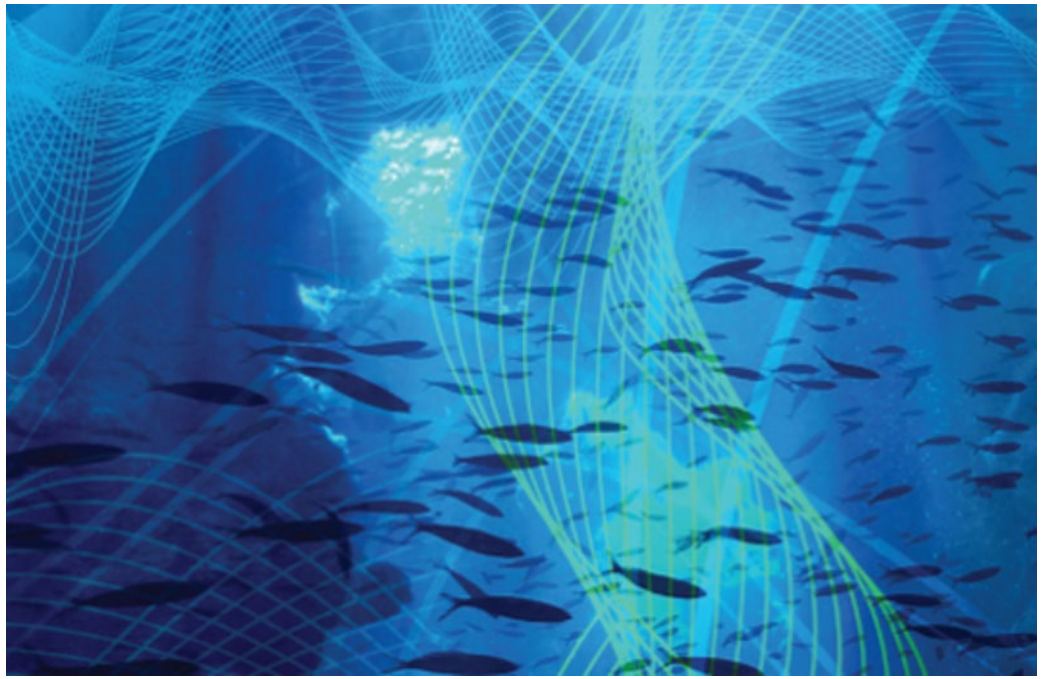
An ***industry standard*** is a norm, method, procedure, or specification that establishes uniform engineering or technical criteria, processes, or practices to overcome technical barriers

WHAT ARE STANDARDS?

Standards offer benefits to industry, government & consumers. They ***simplify*** product development, ***reduce*** unnecessary duplication, ***lower*** costs, ***increase*** productivity, ***promote*** safety & ***permit*** interchangeability, compatibility & interoperability.

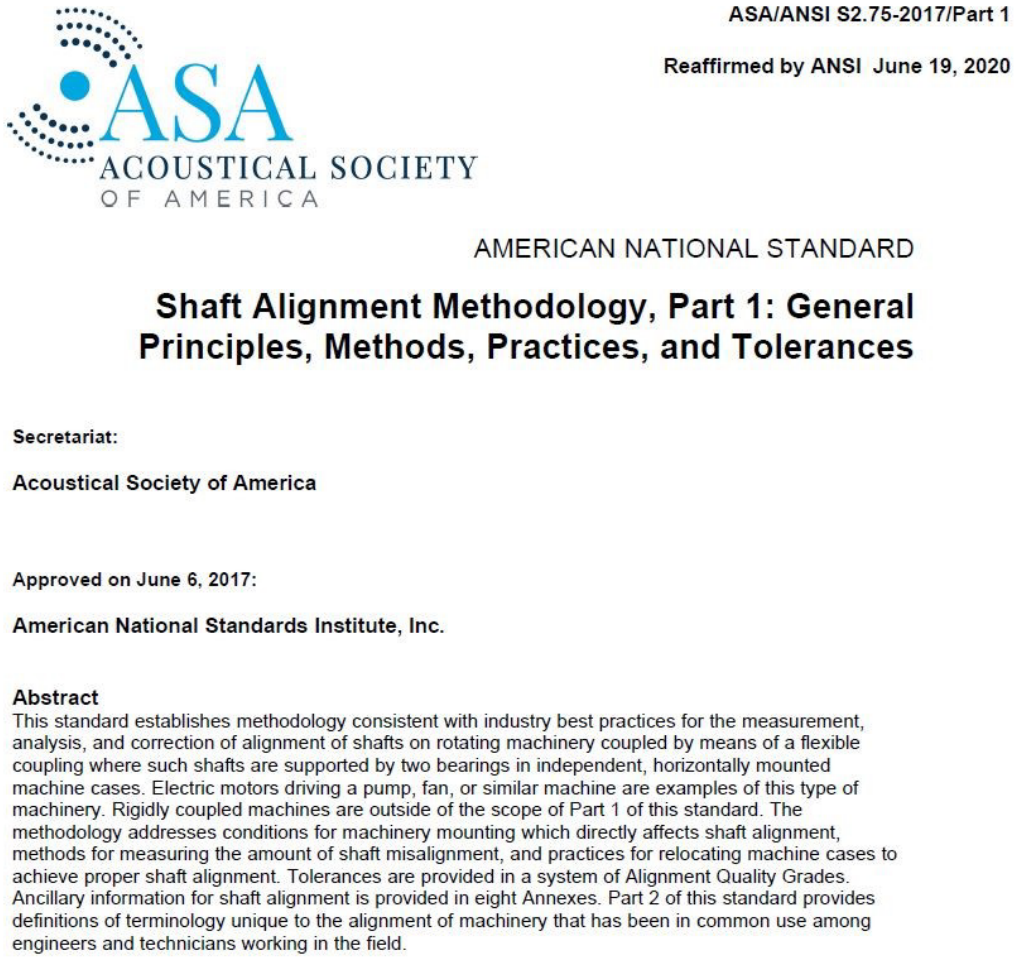
WHAT DOES ASA STANDARDS DO?

ASA Standards works with stakeholders from companies, to government, to organizations, research institutes & consumers who have a material interest in developing consensus-driven **industry standards** – better known as **best practices** or **guidelines**.



A SELECTION OF ASA STANDARDS

- S1.1 to enable correct and consistent **acoustical terminology and usage** in technical documents
- S2.75, Part 1 to set industry best practices for the measurement, analysis, and correction of alignment of shafts on **rotating machinery**
- S3.22 to ensure quality and FDA compliance of **hearing aids**
- S3/SC1.4 TR to determine broadly applicable sound exposure guidelines for **fishes and sea turtles**
- S12.60 to improve **classroom acoustics**



ASA
ACOUSTICAL SOCIETY
OF AMERICA

ASA/ANSI S2.75-2017/Part 1

Reaffirmed by ANSI June 19, 2020

AMERICAN NATIONAL STANDARD

Shaft Alignment Methodology, Part 1: General Principles, Methods, Practices, and Tolerances

Secretariat:

Acoustical Society of America

Approved on June 6, 2017:

American National Standards Institute, Inc.

Abstract

This standard establishes methodology consistent with industry best practices for the measurement, analysis, and correction of alignment of shafts on rotating machinery coupled by means of a flexible coupling where such shafts are supported by two bearings in independent, horizontally mounted machine cases. Electric motors driving a pump, fan, or similar machine are examples of this type of machinery. Rigidly coupled machines are outside of the scope of Part 1 of this standard. The methodology addresses conditions for machinery mounting which directly affects shaft alignment, methods for measuring the amount of shaft misalignment, and practices for relocating machine cases to achieve proper shaft alignment. Tolerances are provided in a system of Alignment Quality Grades. Ancillary information for shaft alignment is provided in eight Annexes. Part 2 of this standard provides definitions of terminology unique to the alignment of machinery that has been in common use among engineers and technicians working in the field.

WHO DOES ASA STANDARDS SERVE?

Educators & Students

Manufacturers

End Users

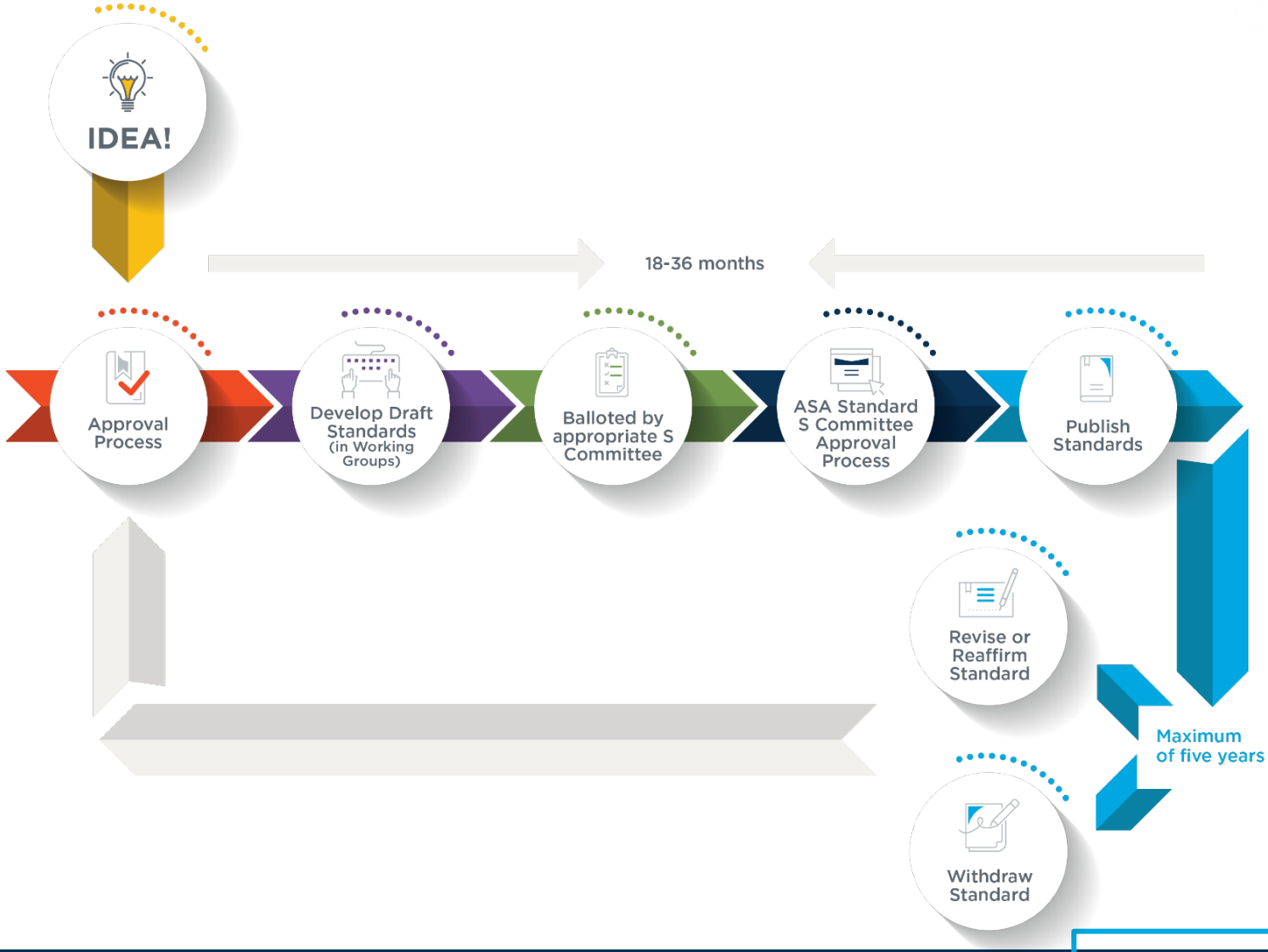
Suppliers/Vendors

Government Regulatory Bodies

Trade Associations

HOW CAN YOU PARTICIPATATE IN ASA STANDARDS?

Standards are developed using stringent, effective and trusted processes – under the guidance of ***ANSI Essential Requirements***.



HOW CAN YOU PARTICIPATE IN ASA STANDARDS?

ASA Standards Members work together to help define and support solutions in acoustics and contribute to **ASA Standards development** on one or more of our Accredited Standards Committees.

Accredited Standards Committees (ASCs)

- **ASC S1, Acoustics**
- **ASC S2, Mechanical Vibration and Shock**
- **ASC S3, Bioacoustics**
- **ASC/SC1, Animal Bioacoustics**
- **ASC S12, Noise**

US Technical Advisory Groups (US TAGs)

- **ISO/TC TAG 108, Mechanical Vibration and Shock, and Condition Monitoring**
  - **Plus, 3 of its Subcommittees (related to ASC S2)**
- **ISO/TC TAG 43, Acoustics**
- **ISO/TC TAG 43/SC 1, Noise**
- **ISO/TC TAG 43/SC3, Underwater Acoustics**
- **IEC/TC TAG 29, Electroacoustics**

PURCHASING ASA STANDARDS

We **publish and sell** ASA Standards & Technical Reports covering: **Acoustics, Mechanical Vibration & Shock, Bioacoustics (+ Animal Bioacoustics) & Noise**. Our portfolio comprises more than 154 voluntary consensus standards and technical reports.

With **ASA Standards Subscriptions**, you have access to the breadth of best practices – or smaller, topic-specific collections that suit your organization's needs & budget.

Visit: www.ASAstandards.org

ENGAGE WITH OUR ASA STANDARDS COMMUNITY