

AFS Standards Process

SC001-23

Date Submitted: 10/11/23

Date Approved:

Division Sponsor: Engineering Division

Significance and Use: This standard explains the process to creating, submitting, and publishing a new AFS standard or its renewal. This is to be used by all individuals and technical committees.

Technical Background: The AFS Standards Committee has created a standardized process for the development and maintenance of standards. This includes their approval and publishing process. The goal of the AFS Standards process is to document best practices or standardized approaches to tests unique to the metalcasting industry.

Suggested Practice:

Standards should be created within a technical committee involving as many members as possible and every effort should be made to determine the best practice. The standard should be formatted according to SC0002S-23 *AFS Standard Format*.

Standard numbering uses a two letter division identifier followed by a three digit number and ends with an S with a dash and two digit year. (i.e., AL001S-23 is an aluminum standard that was last updated in 2023.) The current two letter designations are:

- i. AL: Aluminum & Light Metals
- ii. AM: Additive Manufacturing
- iii. CU: Copper
- iv. EM: Engineering & Smart Manufacturing
- v. EH: EHS
- vi. CI: Cast Iron
- vii. LF: Lost Foam
- viii. ME: Melting Methods
- ix. MO: Molding Methods
- x. ST: Steel
- xi. SC: Standards

The three digit number is assigned sequentially. Final number assignment resides with the AFS Standards Committee, but a technical committee can use/suggest an unassigned number for new standards. The year portion is assigned based on the year of final adoption.

The adoption process proceeds as follows.

1. The proposed standard must be presented at least one meeting (a minimum of two months notice) prior to the meeting for the final vote.
2. For adoption you need a simple majority of those present at the meeting for final adoption. There must be a minimum of five people affirming the standard.
3. Forward the standard to the Standards Committee for adoption including a copy of the voting results. This adoption checking will only consist of verifying AFS standards formatting and that voting process was followed.

Figure 1 depicts this process graphically. Figure 2 provides some additional assistance in understanding how voting works.

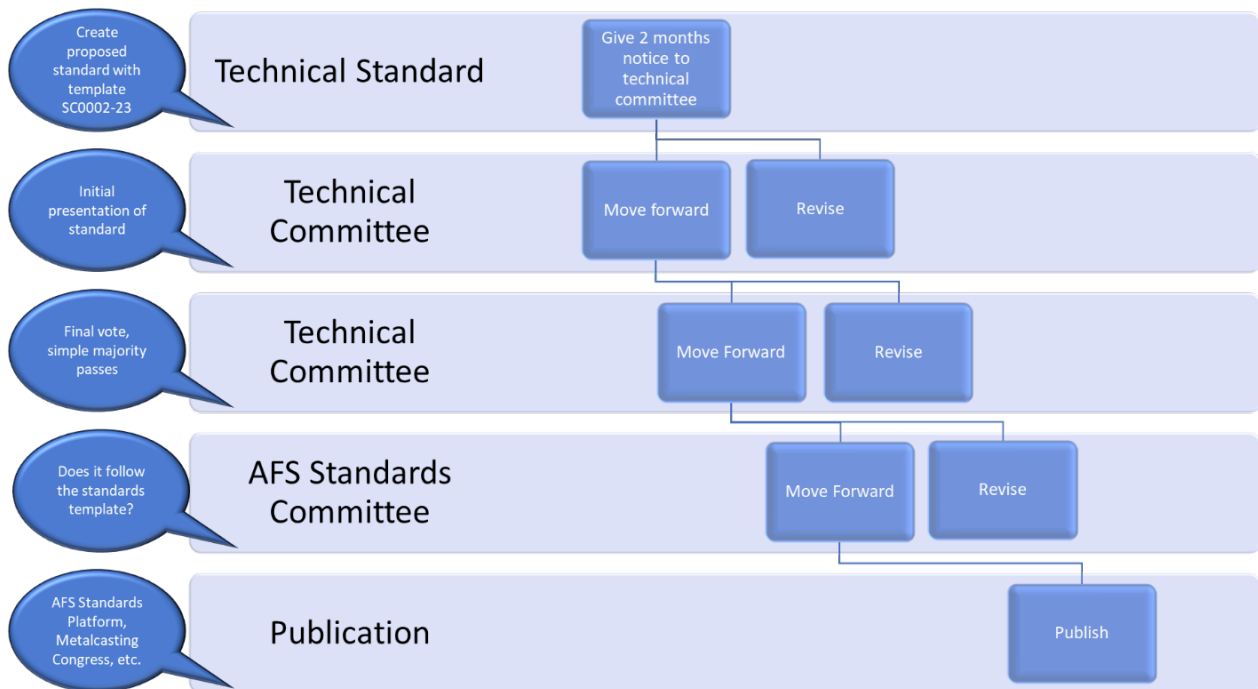


Figure 1 Standard Adoption Process.

Majority Vote Required

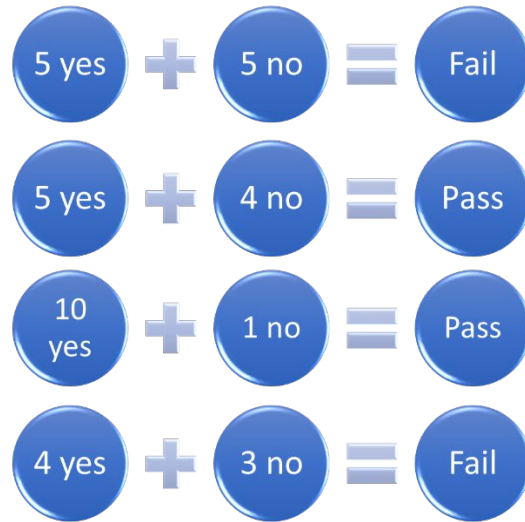


Figure 2 Voting Graphic

Once a standard is adopted. The AFS Standards Committee will ensure the standard is reviewed every five years. When a standard must be reviewed for updates, the responsible division will be contacted and the Division Executive Committee will assign a technical committee to review and update the standard. Standard updates can also be initiated by technical committees within the division overseeing the standard should a change be necessary. In terms of voting, the updated standard will follow the same process as a new standard, except its existing number will remain the same (a.k.a. it will not be assigned a new one). Once renewed, the year digits associated with the standard will be modified and the standard republished.

The AFS Standards Committee will forward approved standards to AFS staff for inclusion in the AFS Standards Platform and publication as appropriate. Additionally, the committee will supply a list and copy of any new or renewed/updated standards to the Engineering and Smart Manufacturing Division for reporting at the Technical Council at its next meeting.

Cautions in Use: None.

Quick Tip: Please contact the AFS Standards Committee for questions. The Standards Committee is part of the Engineering and Smart Manufacturing Division.

Use of Other Standards: None.

References: None.

Note: The revision date of this electronic version takes precedence over any printed copies, which would be considered reference only. The current version, indicating the latest revision of this standard, can be found in the AFS Standards Platform.