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SHORT COMMUNICATION

Standardisation efforts of ISO/TC 261 "Additive Manufacturing". 24th Plenary Meeting of ISO/TC 261 "Additive Manufacturing"

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Abstract

The main objective of ISO/TC 261 is to standardise the processes of Additive Manufacturing, the process chains (Data, Materials, Processes, Hard- and Software, Applications), test procedures, quality parameters, supply agreements, environment, health and safety, fundamentals and vocabularies. This section provides readers with news regarding standardisation efforts of ISO/TC 261. Further up-to-date information regarding recently published documents, such as new standards, revised standards, and the status of standards, can be found in the ISO/TC261 webpages: https://www.iso.org/committee/629086.html and the committee webpages: https://committee.iso.org/sites/tc261/home/news.html.

Keywords Standardisation · Standards · Additive manufacturing

International Organisation for Standardisation (2024) 24th Plenary Meeting of ISO/TC 261 "Additive Manufacturing" held on 13 September in Coventry, UK.

1. General updates

1.1 Establishment of a Joint Group ISO/TC 261/JG 84 "Life cycle assessment for AM" for the development of ISO/ASTM 52964, "Additive manufacturing-Environment, health and safety-Qualification principles for life-cycle assessment of parts and processes". ISO/TC 261/JG 84 will include the following scope: "Standardization in the field of sustainability and life-cycle analysis (LCA) related to Additive Manufacturing and environmental aspects; including but not limited to: (i) additive manufacturing processes, Product Designs produced by additive manufacturing, equipment, materials, and parts; (ii) clarifying qualification boundaries for life-cycle assessment of production processes and or product design and business case concepts; (iii) clarifying the environmental impact unique for Additive Manufacturing processes and product design concepts; (iv) clarifying unique features of LCA in Additive Manufacturing processes and concepts. Note: For sustainability and life-cycle assessment of products that have been produced in an AM enabled production system, JG 84 typically consults with the relevant TC scoped for the application area of the products [1]."

2. New projects

2.1 Registration of ISO/ASTM PWI "Additive manufacturing-NDT-Dimensional measurements on XCT images", to be assigned to ISO/TC 261/JG 59 and to shorten the period of the ISO/NP-ballot from 12 to 8 weeks.

2.2 Registration of ISO/ASTM PWI "Additive manufacturing-Qualification principles-Test method for gas permeability of sand molds and cores with designed structure for property control", to be assigned to ISO/TC 261/JG 77 and to shorten the period of the ISO/NP-ballot from 12 to 8 weeks.

3. Project updates

3.1 None.

4. Project stage updates

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4.1 Skipping of CD-stage for ISO/ASTM 52966 “Additive manufacturing—General Principles—Framework for the Implementation of a Level System for temporarily self-sufficient systems”, for the project to be registered as stage code 30.99 “CD approved for registration as DIS”.
5. Project extensions
5.1 None.
6. Revisions
6.1 None.
7. Change of name and scope/merging of projects
7.1 None.

Funding Not applicable.

Declarations

Conflict of interest Not applicable.

Ethical approval Not applicable.

Reference

1. International Organisation for Standardisation (2024) 24th Plenary Meeting of ISO/TC 261 “Additive Manufacturing” held on 13 September 2024.