



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

Eujin Pei¹ · Marius Lakomic^{1,2}

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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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✉ Eujin Pei
eujin.pei@brunel.ac.uk

¹ Brunel University London, London, UK

² Electro Optical Systems, EOS GmbH, Robert-Stirling-Ring 1, 82152 Krailling, Munich, Germany

- 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.

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Reference

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

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