Rev. 7, 31 August 2023

PROGRAM – DRAFT

1st TECHNICAL WORKSHOP

Advanced technics/technologies in nuclear industry 13-14 September 2023

as a side event of

1st Nuclear Power Industry Congress (12-13 September 2023)

----- 13 September 2023 -----

Venue: IT Center of AGH University of Science and Technology in Cracow, Poland, ul. Kawiory 21, 30-055 Cracow, room 1.38 (aula)

14:00 - 15:00 Lunch

15:00 - 19:00 THEMATIC SUBSESSIONS

Opening remarks - Andrzej SIDŁO, Ministry of Climate and Environment, Nuclear Energy Department

I. Innovation in nuclear supply chain, megaproject management, commercial grade dedication approach

Moderator: Prof. Wacław GUDOWSKI, National Center of Nuclear Research Poland/Royal Institute of Technology (KTH) Sweden

15.10 - 15.50 Localization strategies of nuclear projects, How to put together national competencies and global suppliers, Q/A, **EGIS Groupe France**

15.50 – 16.30 Commercial Grade Dedication (CGD) of Equipment for Safety-Related Applications in the Nuclear Industry, Q/A, Artur BIAŁAS, **Curtiss-Wright Nuclear Canada**

16.30 – 17.10 Project management support: management of nuclear specific procedures, Q/A, Kirsi HASSINEN, **Platom Oy Finland**

17.10 - 17.25 Coffee/Tea break

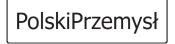
17.25-18.25 From concepts to reality: A Journey through Nuclear Modeling and Digital Twins, Q/A, Victor RICHET, Jérémy BOURDON, Christophe FOURNIER, **Assystem France**

II. Building information model (BIM), digitalization and innovative I&C systems based on AI (1/3).

Moderator: PhD Jacek MAGIERA, Cracow University of Technology

18.25 – 19.00 Digitalization of nuclear engineering units, Q/A, Gaspard MESTROT, Framatome DTI France

19.00 SUMMARY OF THE FIRST DAY OF THE TECHNICAL WORKSHOP









----- 14 September 2023 -----

08:00 - 08:30 Welcome coffee

II. Building information model (BIM), digitalization and innovative I&C based on AI (2/3)

8.30 - 8.50 Use of BIM in public tenders, Polish perspectives, Q/A, Paweł Łaguna, ECCBim Poland,

8.50 – 09.30 The use of BIM for Polish nuclear project, Q/A, Bechtel USA

09.30 – 10.10 Use of BIM in nuclear, digital continuity from design to erection of nuclear units, Q/A, **EGIS Groupe** France

10.10 – 10.50 Use of BIM/IFC in nuclear, case study – on new built projects – EPR in Hinkley Point C United Kingdom, Q/A, Paweł PRUS, Laing O'Rourke

10.50 - 11.05 Coffee/Tea break

III. Advanced manufacturing and welding technologies applied in the nuclear industry

Moderator: Prof. Jerzy NIAGAJ, Upper Silesia Technology Institute, Łukasiewicz Research Network

11.05 - 11.45 High-Tec technologies applied in nuclear industry: "Explosive cladding - example of multilayer materials' surface joining technics - application in NPP", Q/A, Sebastian KOKOT, **Explomet Poland**

11.45 – 12.25 Advanced welding technics in nuclear – case study on Hinkley Point C, Q/A, Wojciech KRAWCZYK, **PUT** Firmus Poland

IV. Modularization in nuclear projects

12.25-13.05 Modularized concept of AP1000, Q/A, Westinghouse USA

13:05 - 14:00 Lunch break

14.00 - 14.40 New construction technics – how to accelerate construction of SMR and large scale nuclear projects using modularity concept and steel-concrete configuration? Q/A, **Egis Groupe France**

V. Building information model (BIM), digitalization and innovative I&C based on AI (3/3)

14.40-15.20 Innovative I&C systems based on AI, Q/A, Mathieu SEGOND, Framatome France,

15.20 - 15.40 BIM and drones in action - Safety culture is an attitude, Q/A, Joonas TUOMINEN, Jotus Oy, Finland

15.40 - 15.55 Coffee/Tea break

15.55 – 16.35 Sweco BIM based nuclear services, Q/A, Fionán O'Carroll, SWECO Finland

16.35 – 17.15 How BIM can support nuclear projects alongside all project cycle, Q/A, Egis Groupe France

17.15 - 17.55 BIM and drones in action - Integrated aerial data to your system, Q/A, Joonas TUOMINEN, **Jotus Oy, Finland**

17:55 SUMMARY and END OF TECHNICAL WORKSHOP

