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THE EUR ASSOCIATION – REVISION F OF THE EUR DOCUMENT AND ONGOING WORK ON SMR REQUIREMENTS

Since 1991, the European Utility Requirements (EUR) Association has been developing and promoting harmonized technical specifications for the new mid- and large-size LWR designs to be proposed by the vendors in Europe. In 2024, it is composed of 13 companies involved in new nuclear projects or in electricity generation from nuclear power in Europe. One objective of the Association is to keep strong interactions with important stakeholders in the nuclear industry and regulation in Europe and worldwide, mainly: IAEA, WENRA, ENISS, WNA/CORDEL, European Commission (EC).

The EUR Association issues and, from time-to-time, modifies and updates a report entitled “EUR Document”. It consists of a comprehensive set of requirements covering the whole Nuclear Power Plant (NPP). It encompasses all aspects (safety, performance, competitiveness) and all parts of a NPP (Nuclear Island and Conventional Island).

The paper describes the main results obtained in the following fields:

1. The last applicable revision, Revision E, of the EUR Document was issued in December 2016. It includes: Revised safety requirements taking into account the most recent European and international safety standards issued by WENRA and IAEA; The lessons learned from the Fukushima accident; and the most recent international standards, for example for I&C. The Revision E of the EUR Document has been benchmarked by the EC against recent safety standards.
2. The assessment of new designs. The Russian AEP’s VVER TOI and Chinese CGN’s EU HPR1000 designs have been assessed recently. One new design assessment is in progress (Korean KHNP’s APR1000 namely). The presentation briefly recalls the EUR design assessment objectives and process and the progress of the different assessment projects.
3. The evolution of the EUR document towards integration of Small Modular Light Water Reactors (SMLWR). The paper presents the dedicated report issued by the EUR Association about high level requirements for SMLWR design.

Country OR International Organization

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YES

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Cooperation for Harmonization and Standardization