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European Tools and Methodologies for an Efficient Ageing Management of NPP Cables

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TeaM Cables is a European collaborative Research and Innovation project focusing on nuclear cable ageing.It has received 4.2 M€ of funding from the Horizon 2020 Euratom Research and Training Programme of the European Union. TeaM Cables started in September 2017 for a duration of 4.5 years.
TeaM Cables aims at providing NPP operators with a novel methodology for efficient and reliable NPP cable ageing management by:
1. developing cable ageing models and algorithms, which are based on multi-scale studies and can be tailored to cover variations in fillers, additives and degrees of crosslinking,
2. developing methodologies for non-destructive testing techniques and their associated criteria identified from multiscale relations,
3. developing a novel "open access"tool, the "TeaM Cables tool", integrating all the models developed and providing the residual lifetime of cables by crossing non-destructive measurements with predictive models and knowledge of cable exposure conditions (wiring network in the NPP).
TeaM Cables methods and tools will allow NPP operators to safely extend the plant life duration of generation II and III reactors and thus contribute to the production of sustainable energy responding to future energy needs.

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