Nuclear Plant Life Prediction (NULIFE) (EU-Project)

Duration: 01.10.2006 – 30.09.2011

The vision of the Network of Excellence, Nuclear plant life prediction, NULIFE is to create a Virtual Institute with

- An integrated RTD platform embracing all European stakeholders within a completely new structure with improved and efficient use of public and private RTD funding
- Sustainable forum for realising harmonised technical procedures giving impact for Nuclear energy industry, National regulators and European Regulatory Working Groups
- Service provider and sustainable source of qualified expertise for all customers in Nuclear energy field.

The principal objectives of NULIFE are as follows:

- Create a Europe-wide platform in the form of a Virtual Institute, which is capable of achieving scientific and technical excellence in lifetime management and prediction methodologies and of translating these into harmonised and qualified procedures as part of the Common Safety Justification Framework (CSJF)
- Structure the Network and Virtual Institute in an efficient and comprehensive way to include key stakeholders from end users, research institutes, universities and technical support organisations from all EU and EU candidate countries operating or planning to operate nuclear power plant
- Form a critical mass suitable for the durable integration of co-ordinated effort from the available, but currently fragmented, research, to exploit European lifetime management expertise and know-how at world level, and to assure the effective support and dialogue of regulatory bodies and industries involved in plant modernisation and construction of systems and components
- Create progressively the appropriate research capacity to identify, prioritise, initiate and co-ordinate future European RTD programmes in this area, with a view to achieving sustainability beyond EC funding
- Consolidate the Network position through the integration of key resources, infrastructures and expertise and restructuring of partner relationships in order to achieve scientific and technical excellence in nuclear plant lifetime management and prediction methodologies
- Demonstrate the usability of the integrated research capacity through a number of pilot studies, and propose education and training activities to assure the supply of highly competent personnel serving the needs of the nuclear industry
- Integrate and promote the exploitation of the results from previous research networks, working groups, national research programmes and EC framework projects along with research actions and pilot studies defined, evaluated and launched within NULIFE to meet the needs of end users
- Establish NULIFE as the recognised RTD service provider for the European nuclear industry.
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