NUCLEAR RESEARCH INSTITUTE

Radiation Chemistry and Environmental Qualification Department
Integrity and Technical Engineering Division

QUALIFICATION OF EQUIPMENT IMPORTANT TO NUCLEAR SAFETY

LOCA (loss of coolant accident) simulation facility

Value for customers

- More than twenty-five years of experience in qualification of equipment important to safety for nuclear facilities
- All laboratory work is performed at an internationally acknowledged accredited laboratory

Application

- Nuclear and conventional power plants
- Manufacturers
- Army – products for use in environment of nuclear war
- Space applications
- Ongoing qualification and re-assessment method can be applied to other components of safety systems of nuclear or conventional power plants

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Integrity and Technical Engineering Division
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What we offer

- Execution of qualification type tests for equipment important to safety of nuclear power plants such as cables, connectors, cable splices, cable glands, gaskets, electronic components, sensors, optical cables, coatings, thermal insulation and other to prove their functionality in adverse environment such as elevated temperatures, ionizing radiation, mechanical stress, seismic events and accident conditions including design extension conditions
- All activities in line with international standards IEC 60780-323 with respecting other specific standards for individual products
- Accredited testing laboratory ÚJV Řež, a. s. according to the Czech version of the standard ČSN EN ISO / IEC 17025: 2018 working in compliance with 10CFR50 Appendix B
- EQ related laboratory facilities and services:
  - Simulation of stressors causing age-related degradation (temperature, irradiation, cycles, mechanical stress, etc.)
  - Simulation of seismic event (could include air-plane crash)
  - Simulation of abnormal and accident conditions (accident dose irradiation, thermo-dynamical steam temperature/pressure profile, flooding)
  - Throughout functionality prove, verification of safety functions during accident conditions

Our references

- CEZ, Habia Cable, Tractebel, Fortum, TVO, VTT, Trillium Flow Technologies, CETIM, Weir, IMI CCI, Nexans, GOC, HC&C, CNPO, Westinghouse, EPRI, Mirion, Forsmark NPP, Ringhals NPP, Krsko NPP
- International cooperation within the IAEA, OECD/NEA, EPRI and EU

EA MLA Signatory
Český institut pro akreditaci, o.p.s.
Olšanská 54/3, 130 00 Praha 3

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products, as amended

CERTIFICATE OF ACCREDITATION

No. 219/2023

ÚJV Řež, a. s.
with registered office Hlavní 130, Řež, 250 68 Husinec, Company Registration No. 46356088

to the Testing Laboratory No. 1093.3
Testing Laboratory of the Radiation Chemistry and Environmental Qualification Department

Scope of accreditation:

Determination of physico-chemical, mechanical, electrical and optical properties of materials and industrial products to verify functionality in nuclear and non-nuclear facility environments; determination of environmental parameters and dose rates of gamma and accelerated electron radiation fields to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of Accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited Conformity Assessment Body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 476/2019 of 24. 9. 2019, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: 3. 5. 2028

Prague: 3. 5. 2023

Jan Vešíček
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute
Public Service Company

Certificate of Accreditation of Testing Laboratory