



**EA MLA Signatory**  
**Český institut pro akreditaci, o.p.s.**  
(Czech Accreditation Institute)  
**Hájkova 2747/22, Žižkov, 130 00 Praha 3**

issues

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

# **CERTIFICATE OF ACCREDITATION**

**No. 248/2025**

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

**for the Testing Laboratory No. 1093**  
**Mechanical and Corrosion Properties Testing Laboratory**

**Scope of accreditation:**

Static fracture toughness tests, dynamic fracture toughness tests, impact bending tests, tensile tests, conventional yield point, bending, fatigue and hardness tests and punch tests 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 abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited 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.: 660/2023 of 07/12/2023, and/or any administrative acts building upon it.

**The Certificate of Accreditation is valid until: 07/12/2028**

**Prague: 29/05/2025**



Signed in the Czech original:  
Jan Velíšek on 29/05/2025

**Jan Velíšek**  
Director of the Department  
of Testing and Calibration Laboratories  
Czech Accreditation Institute

This translation of the Czech original has been issued by: Eliška Frycová

**The Appendix is an integral part of  
Certificate of Accreditation No. 248/2025 of 29/05/2025**

**Accredited entity according to ČSN EN ISO/IEC 17025:2018:**

**ÚJV Řež, a. s.**

CAB number 1093, Mechanical and Corrosion Properties Testing Laboratory  
Hlavní 130, Řež, 250 68 Husinec

**Tests:**

| Ordinal number <sup>1</sup> | Test procedure / method name                                                                                 | Test procedure / method identification <sup>2</sup>                                                                                                                                                                                                           | Tested subject                                                                                                                                                                                     | Degrees of freedom <sup>3</sup> |
|-----------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1                           | Static fracture toughness test on the tensile testing machine Instron 1342 with control console 8800         | PP 2303 023<br>(ČSN 42 0347:1991;<br>ASTM E1820-08;<br>ASTM E1820-11;<br>ASTM E1820-13;<br>ASTM E1820-21;<br>ASTM E1820-24;<br>ASTM E1921-05;<br>ASTM E1921-08;<br>ASTM E1921-09;<br>ASTM E1921-11;<br>ASTM E1921-24;<br>ASTM E399-24;<br>ČSN ISO 12135:2018) | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |
| 2                           | Static fracture toughness test on the tensile testing machine Instron 1342 with control console 8800         | PP 2303 022<br>(ČSN 42 0347:1991;<br>ASTM E1820-08;<br>ASTM E1820-11;<br>ASTM E1820-13;<br>ASTM E1820-21;<br>ASTM E1820-24;<br>ASTM E1921-05;<br>ASTM E1921-08;<br>ASTM E1921-09;<br>ASTM E1921-11;<br>ASTM E1921-24;<br>ASTM E399-24;<br>ČSN ISO 12135:2018) | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |
| 3                           | Static fracture toughness test on the tensile testing machine Zwick Z100 with control console testControl II | PP 2303 021<br>(ČSN 42 0347:1991;<br>ASTM E1820-08;<br>ASTM E1820-11;<br>ASTM E1820-13;<br>ASTM E1820-21;<br>ASTM E1820-24;<br>ASTM E1921-05;<br>ASTM E1921-08;<br>ASTM E1921-09;<br>ASTM E1921-11;<br>ASTM E1921-24;<br>ASTM E399-24;<br>ČSN ISO 12135:2018) | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |

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| Ordinal number <sup>1</sup> | Test procedure / method name                                                                         | Test procedure / method identification <sup>2</sup>                                                                                                                                                                                                                                                   | Tested subject                                                                                                                                                                                     | Degrees of freedom <sup>3</sup> |
|-----------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 4                           | Static fracture toughness test on the tensile testing machine Instron 8802 with control console 8800 | PP 2303 024<br>(ČSN 42 0347:1991;<br>ASTM E1820-08;<br>ASTM E1820-11;<br>ASTM E1820-13;<br>ASTM E1820-21;<br>ASTM E1820-24;<br>ASTM E1921-05;<br>ASTM E1921-08;<br>ASTM E1921-09;<br>ASTM E1921-11;<br>ASTM E1921-24;<br>ASTM E399-24;<br>ČSN ISO 12135:2018)                                         | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |
| 5                           | Static fracture toughness test on the tensile testing machine Instron 5967                           | PP 2303 234<br>(ČSN 42 0347:1991;<br>ASTM E1820-08;<br>ASTM E1820-11;<br>ASTM E1820-13;<br>ASTM E1820-21;<br>ASTM E1820-24;<br>ASTM E1921-05;<br>ASTM E1921-08;<br>ASTM E1921-09;<br>ASTM E1921-11;<br>ASTM E1921-24;<br>ČSN ISO 12135:2018)                                                          | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |
| 6                           | Tensile test on the tensile testing machine Instron 1342 with control console 8800                   | PP 2303 027<br>(ČSN 42 0310:1980;<br>ČSN 42 0312:1987;<br>ČSN 42 0313:1985;<br>ASTM E8/E8M-24;<br>ASTM E21-20;<br>ČSN EN 10002-1:2002;<br>ČSN EN 10002-5:1998;<br>ČSN EN ISO 6892-1:2010;<br>ČSN EN ISO 6892-1:2017;<br>ČSN EN ISO 6892-1:2021;<br>ČSN EN ISO 6892-2:2011;<br>ČSN EN ISO 6892-2:2018) | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |

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| Ordinal number <sup>1</sup> | Test procedure / method name                                                               | Test procedure / method identification <sup>2</sup>                                                                                                                                                                                                                                                   | Tested subject                                                                                                                                                                                     | Degrees of freedom <sup>3</sup> |
|-----------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 7                           | Tensile test on the tensile testing machine Instron 1342 with control console 8800         | PP 2303 026<br>(ČSN 42 0310:1980;<br>ČSN 42 0312:1987;<br>ČSN 42 0313:1985;<br>ASTM E8/E8M-24;<br>ASTM E21-20;<br>ČSN EN 10002-1:2002;<br>ČSN EN 10002-5:1998;<br>ČSN EN ISO 6892-1:2010;<br>ČSN EN ISO 6892-1:2017;<br>ČSN EN ISO 6892-1:2021;<br>ČSN EN ISO 6892-2:2011;<br>ČSN EN ISO 6892-2:2018) | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |
| 8                           | Tensile test on the tensile testing machine Zwick Z100 with control console testControl II | PP 2303 025<br>(ČSN 42 0310:1980;<br>ČSN 42 0312:1987;<br>ČSN 42 0313:1985;<br>ASTM E8/E8M-24;<br>ASTM E21-20;<br>ČSN EN 10002-1:2002;<br>ČSN EN 10002-5:1998;<br>ČSN EN ISO 6892-1:2010;<br>ČSN EN ISO 6892-1:2017;<br>ČSN EN ISO 6892-1:2021;<br>ČSN EN ISO 6892-2:2011;<br>ČSN EN ISO 6892-2:2018) | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |
| 9                           | Tensile test on the tensile testing machine Instron 8802 with control console 8800         | PP 2303 028<br>(ČSN 42 0310:1980;<br>ČSN 42 0312:1987;<br>ČSN 42 0313:1985;<br>ASTM E8/E8M-24;<br>ASTM E21-20;<br>ČSN EN 10002-1:2002;<br>ČSN EN 10002-5:1998;<br>ČSN EN ISO 6892-1:2010;<br>ČSN EN ISO 6892-1:2017;<br>ČSN EN ISO 6892-1:2021;<br>ČSN EN ISO 6892-2:2011;<br>ČSN EN ISO 6892-2:2018) | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |

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| Ordinal number <sup>1</sup> | Test procedure / method name           | Test procedure / method identification <sup>2</sup>                                                                                                                                                                                                                                                                    | Tested subject                                                                                                                                                                                     | Degrees of freedom <sup>3</sup> |
|-----------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 10                          | Impact test on the hammer RKP 450      | PP 2303 041<br>(ČSN ISO 148-1:2010;<br>ČSN EN ISO 148-1:2017;<br>ČSN EN 10045-1:1998;<br>ČSN 42 0381:1979;<br>ČSN 42 0382:1979;<br>ČSN 42 0383:1981;<br>ČSN 42 0350:1988;<br>NTD MCHO IAE 443.51–84;<br>ČSN EN ISO 14556:2001;<br>ČSN EN ISO 14556:2017;<br>ČSN EN ISO 14556:2023;<br>ASTM E1820-13;<br>ASTM E1820-24) | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |
| 11                          | Impact test on the hammer RKP450       | PP 2303 039<br>(ČSN ISO 148-1:2010;<br>ČSN EN ISO 148-1:2017;<br>ČSN EN 10045-1:1998;<br>ČSN 42 0381:1979;<br>ČSN 42 0382:1979;<br>ČSN 42 0383:1981;<br>ČSN 42 0350:1988;<br>NTD MCHO IAE 443.51–84;<br>ČSN EN ISO 14556:2001;<br>ČSN EN ISO 14556:2017;<br>ČSN EN ISO 14556:2023;<br>ASTM E1820-13;<br>ASTM E1820-24) | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |
| 12                          | Impact test on the hammer Amsler RKP50 | PP 2303 040<br>(ČSN ISO 148-1:2010;<br>ČSN EN ISO 148-1:2017;<br>ČSN EN 10045-1:1998;<br>ČSN 42 0381:1979;<br>ČSN 42 0382:1979;<br>ČSN 42 0383:1981;<br>ČSN 42 0350:1988;<br>NTD MCHO IAE 443.51–84;<br>ČSN EN ISO 14556:2001;<br>ČSN EN ISO 14556:2017;<br>ČSN EN ISO 14556:2023;<br>ASTM E1820-13;<br>ASTM E1820-24) | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |

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| Ordinal number <sup>1</sup> | Test procedure / method name                                                                                               | Test procedure / method identification <sup>2</sup>     | Tested subject                                                                                                                                                                                     | Degrees of freedom <sup>3</sup> |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 13                          | Test for the determination of modulus of elasticity on the tensile testing machine Instron 8802 with control console 8800  | PP 2303 029<br>(ASTM E111-17)                           | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |
| 14-15                       | Reserved                                                                                                                   |                                                         |                                                                                                                                                                                                    |                                 |
| 16                          | Hardness test on the hardness tester DuraScan 70 G5                                                                        | PP 2303 045<br>(ČSN EN ISO 6507-1:2024;<br>ASTM E92-23) | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |
| 17                          | Determination of strength characteristics (Punch tests) on the tensile testing machine Instron 5967                        | PP 2303 032<br>(ASTM E3205-20;<br>ČSN EN 10371:2021)    | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |
| 18                          | Determination of fracture toughness (Punch tests) on the tensile testing machine Instron 5967                              | PP 2303 147<br>(ASTM E3205-20;<br>ČSN EN 10371:2021)    | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |
| 19                          | Determination of Fracture Appearance Transition Temperature FATT (Punch tests) on the tensile testing machine Instron 5967 | PP 2303 148<br>(ASTM E3205-20;<br>ČSN EN 10371:2021)    | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |
| 20                          | Instrumented hardness test (determination of strength characteristics) on the tensile testing machine Instron 5967         | PP 2303 033<br>(ISO/TC 164/SC 3:2011)                   | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |

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| Ordinal number <sup>1</sup> | Test procedure / method name                                                                         | Test procedure / method identification <sup>2</sup> | Tested subject                                                                                                                                                                                     | Degrees of freedom <sup>3</sup> |
|-----------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 21                          | Instrumented hardness test (stress deformation analysis) on the tensile testing machine Instron 5967 | PP 2303 222<br>(ISO/TC 164/SC 3:2011)               | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |
| 22                          | Low cycle fatigue test in an elevated temperature environment on the Pluto 6 autoclave               | PP 2303 458<br>(ČSN EN ISO 11782-1:2009)            | Metallic materials for equipment of nuclear power plant, reactors, piping, metal structures, industrial and marine boilers, steam turbines, machines and equipment for chemical and paper industry | -                               |

<sup>1</sup> asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

<sup>2</sup> if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

<sup>3</sup> the laboratory does not apply a flexible approach to the scope of accreditation

**Explanatory notes:**

NTD MCHO IAE Normative technical document of the International Economic Association  
Interatomenergo

ESIS European Structural Integrity Society

CWA CEN (European Committee for Standardization) Workshop Agreement

PP Internal Procedure of the Laboratory

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*"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself."*