



NUCLEAR
RESEARCH
INSTITUTE

Investment Projects and Business Development Department Integrity and Technical Engineering Division



CONTAINMENT TENDON SYSTEM

10m test stand for tensile loading test up to 12,5 MN

Value for customers

- Service and maintenance of the containment prestressing system including production and delivery of new components

Applications

- Demonstration of long-term service life and reliability of the containment prestressing systems
- Maintenance of prestressing systems
- Modernization and technological improvements of prestressing systems
- Completion of prestressing cables for VVER-1000 containments according to the original Russian project
- Completion of prestressing cables for the VVER-1000 containments according to approved Ukrainian procedures

What we offer

- Tendons production from high-strength wire of 5 mm shaped in a loop
- Controlled production process and materials
- Pulling out and installation of tendons

Contact details

Petr Kadecka
Head of Investment Projects and
Business Development Department
phone: +420 602 117 163
e-mail: petr.kadecka@ujv.cz

ÚJV Řež, a. s., Hlavní 130, Řež, 250 68 Husinec,
Czech Republic
tel.: +420 266 172 000, e-mail: sales@ujv.cz
Integrity and Technical Engineering Division
phone: +420 266 173 445, e-mail: integrity@ujv.cz
www.ujv.cz

- Tests of individual wires (wires taken from the removed prestressing cables)
- Load tests of the tendons to 12,5 MN
- Load of wires until the end of its planned life (60 years) simulation by means of a cyclic tensile load

Our references

- VVER-1000 Temelin NPP, Czech Republic - carrying out maintenance work on the prestressing system since 2008
- VVER-1000 Rivne NPP, Ukraine
- Participation of our specialists in IAEA expert missions for Ukrainian NPPs



Pre-stressing of tendons and prestressing force checks (9,5 or 9,1 MN)



Completed tendon for delivery to Ukrainian NPP, 2024