

Operational Support of Power Facilities Department Integrity and Technical Engineering Division



FLOW ACCELERATED CORROSION

An elbow ruptured due to the flow accelerated corrosion

Value for customers

- A properly implemented ageing management programme for the degradation mechanism of flow-accelerated corrosion (FAC) enables cost-effective and safe operation of steam pipelines
- The implementation of ageing management programme enables prediction of the remaining service life of pipeline components and the planning of their replacements
- Maximum availability of pipelines and systems without the risk of jeopardizing safety or production

Application

- Steam pipelines susceptible to FAC which are part of the conventional and nuclear power plants (NPPs), heating plants, HRSGs, chemical factories etc.

What we offer

- Comprehensive implementation of all activities associated with the ageing management programme, including:
 - Development of ageing management programme

Contact details

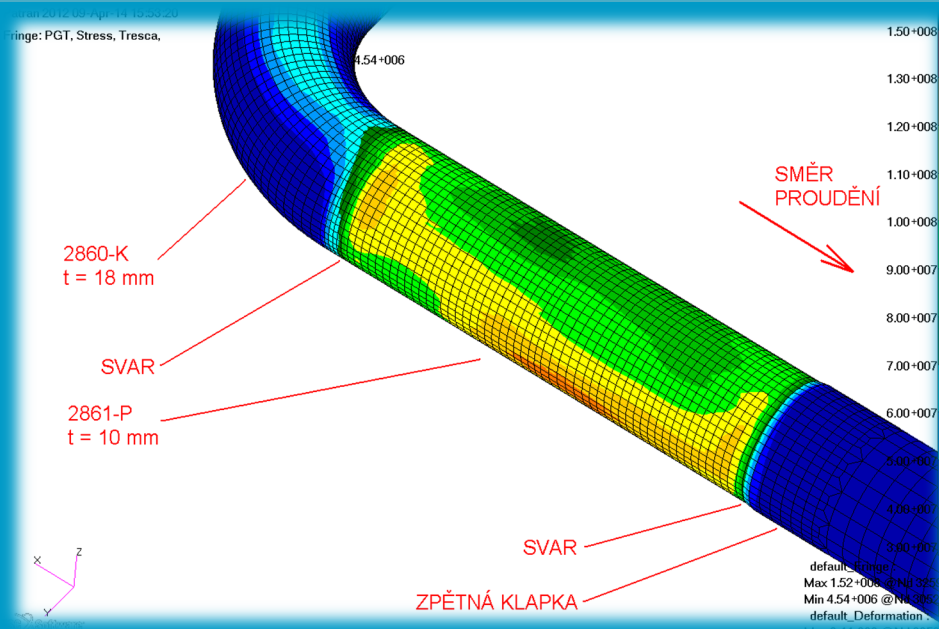
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- Development of methodologies and work procedures
- Flow modeling
- Strength calculations
- Prediction of residual thickness of unmeasured components based on the model
- UT measurement of residual thickness of pipeline components
- Chromium content measurement
- Recommendations for planning component replacements
- Laboratory evaluation of removed components for program feedback
- Team of experts with extensive FAC experience
- Testing laboratory accredited by the Czech Institute for Accreditation and using established procedures in accordance with the principles of good laboratory practice
- Established quality assurance system according to the ČSN EN ISO/IEC 17025 standard and ISO 9001
- Software code CHECWORKS-SFA™ by EPRI
- EPRI CHECWORKS Users Group Membership

Our references

- Complex services provided for Dukovany and Temelin NPPs
- Consultations for ČEZ in the area of FAC for planned newbuild Dukovany unit 5
- Development of methodology, measurement and evaluation of FAC at the Gas Power Station Pocerady



Strength calculation of the piping segment