vuje

NPP Training Center

EVERYTHING UNDER ONE ROOF

Peter Drobny

NERS 2024

1979 vuje 45 YEARS

Slovakia Power Generation Mix

Nuclear Power Industry

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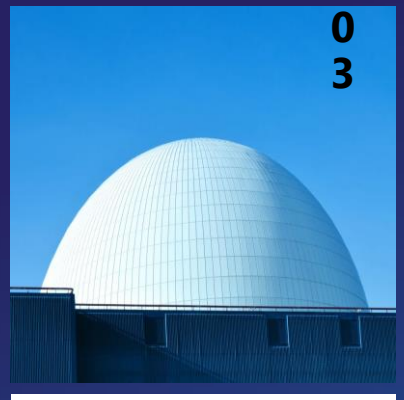
STUDY

Pre-design analyses, feasibility studies

DESIGN

Construction proceeding, safety documentation and regulations, project management



CONSTRUCTION

Design, delivery, assembly, initialization, physical & power start-up, assessment of the equipment

OPERATION

Operation safety & reliability, personnel training, diagnostics, NDT inspections, development of manipulators

DECOMMISSIONING

NPP decommissioning RAW management, On-site works

VUJE - History and Key Events

01. 01. 1977

Establishment of the state-owned company „Výskumný ústav jadrových elektrární š. p. Jaslovské Bohunice (Nuclear Power Research Institute)

01. 03. 1979

Establishment of NPP Training center – First Clasroom Training

01. 11. 1994

Privatization and transformation into the joint-stock company VÚJE Trnava, a.s.

15. 08. 2000

Transformation into the engineering company VÚJE Trnava, a.s. – engineering, design and research organization

09. 07. 2004

Change of company name to VUJE, a.s.

VUJE NPP Training Center

- Energy Sector Workforce training
- NPP Workforce Training according „Slovak Atomic law“
- Classroom Training – Initial and Continuing training
- Operation of NPP Full Scope Simulator
- Full Scope Simulator Training
- Development of Training Simulators (Full scope Control room replicas, Display simulators, Part task trainers, desktop simulators)
- Training of Power distribution Grid Operators
- Low voltage Trainings (live-line works) up to 1000 V
- Operation of live-line work training polygon

VUJE NPP TRAINING CENTER
Achievements

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45 years
of experience

77 174
overall trained people

1706
people passed through TC from new Unit MO34

NEW training system
development for NEW NPPs

New NPP personnel training
unique in Central Europe

New Training Center
Design, construction, organization, management

New Full Scope Simulator
Delivery, operation and maintenance

Digital learning tools
Simulators, E-learning, VR

Full Scope Simulator NPP EBO V2

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Display simulator NPP EBO V2

Pic.1: Display simulator NPP V2

Pic.2: Safety Systems visualization

CONSTRUCTION OF THE NEW NPP MO34
Training Solutions:

- Training needs analysis for professional training according Atomic Law
- Design of Training programs according SAT methodology
- Development of Training plans and schedules
- Training materials development and modernization
- Training performance according Training programs
- Instructors certification

CONSTRUCTION OF THE NEW NPP MO34

Training Solutions:

- Implementation of preparation for verification of professional competence of NPP Workforce
- Verification of professional competences
- Evaluation of professional training
- Coordination and cooperation of On-site training and On the job training

Simulation Solutions:

- Full Scope Simulator Upgrade
- Full Scope Simulator Maintenance

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NPP WORKFORCE Challenges

- Workforce ageing and retiring
- Lack of people on the labor market
- Young Generation is not interested in Technical fields, including Nuclear Industry
- Quality of education in general falls down
- People are learning in different ways
- New Generation - People are communicating in new ways

NPP WORKFORCE KNOWLEDGE Solutions

- Attracting the next generation of the nuclear workforce will require the industry to “win the hearts and minds” of the youth population.
- We should take advantage of today’s social networks and communications systems to help young people gain a better appreciation of the positive contribution of nuclear energy.
- Ensure continuation of science, technology, engineering and math programmes in grade schools to foster interest in nuclear technology and related fields.
- Actions are needed now to educate, attract, and retain the next generation of nuclear workers - getting the right people at the right place at the right time

NPP WORK FORCE KNOWLEDGE Solutions

- Perform Education, Training and Qualification of a Nuclear Workforce – knowledge, skills and abilities needed to perform all duites.
- Government support for human resource development is critical, and active intervention may be requried.
- New ways of proffesional training - advanced Digital Learning Tools and Methodologies (E-learning, 3D virtual models, e.t.c.)

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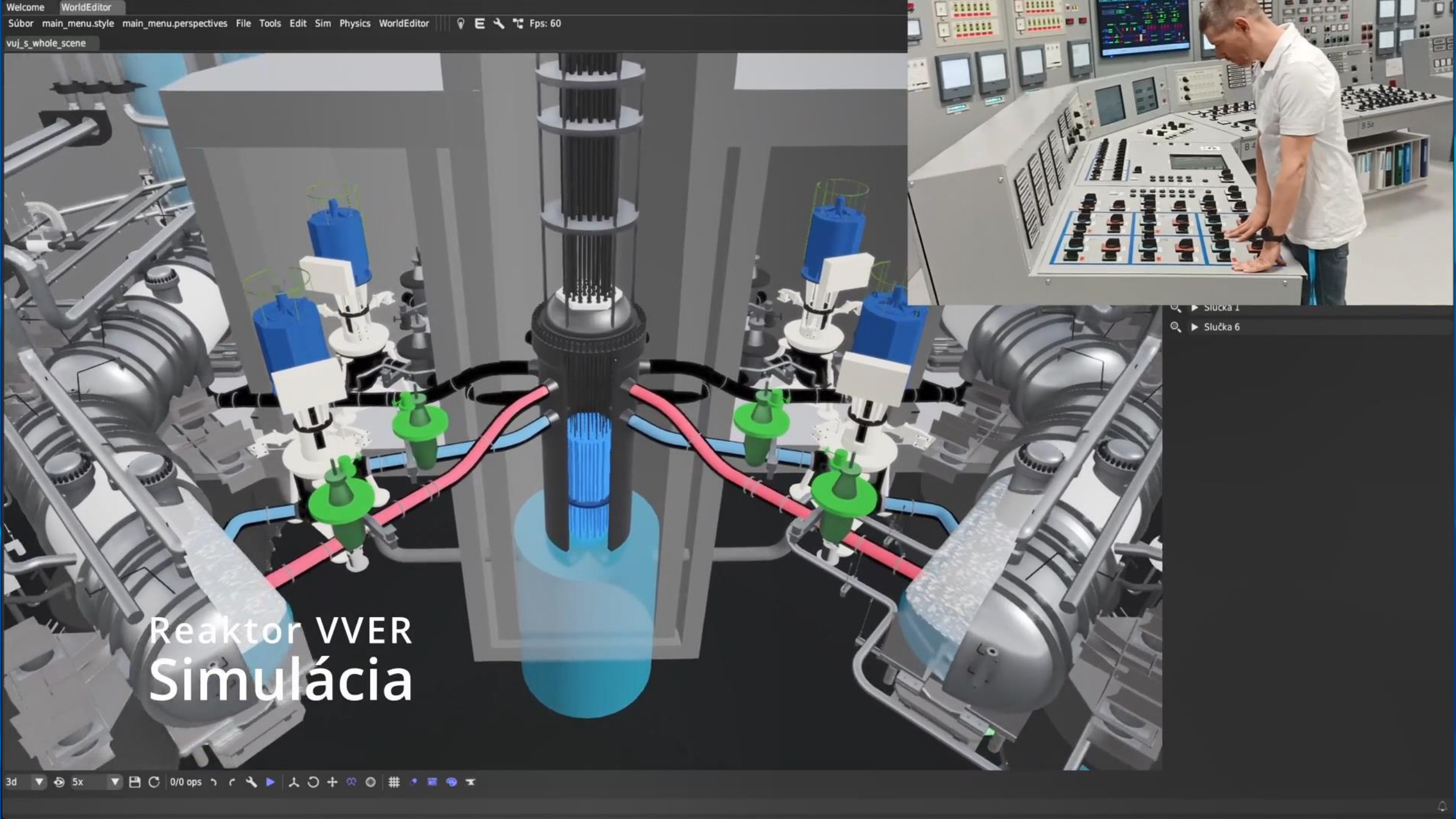
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Slučka 6
Reaktor VVER
Simulácia
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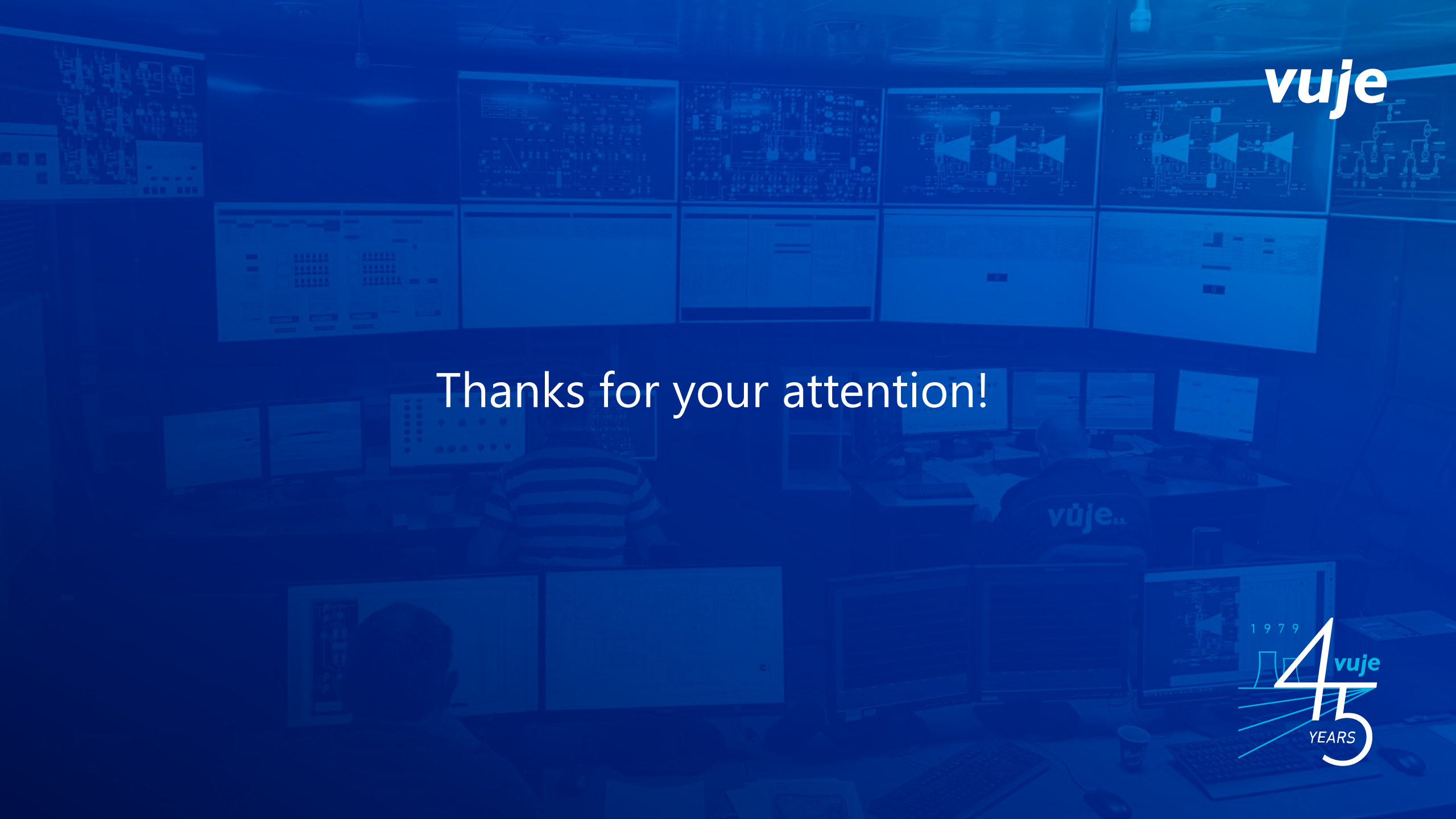
Celková animácia tavenia jadra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Thanks for your attention!
1979
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45
YEARS