

ZERO DEFECT LEVEL IN VVER 1000



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INTRODUCTION



- Dream: Problems free operation
- Current Fuel:
 - cost effective,
 - flexible fuel cycle,
 - operational flexibility,
 - defect free reliable,
- What shall we do?
- TVEL initiative
 - 2012: Driving to zero level defect
 - 2013: 4 + 1 participants

PROJECT SCOPE 1



- 4-party Memorandum: Fuel supplier TVEL + Project administrator ALVEL
 - + ČEZ, a.s, (Czech Republic)
 - + NAEK Energoatom, (Ukraine)
 - + Kozloduj NPP (Bulgaria)
- Project structure
 - Steering Committee
 - Executive Committee
 - Working Groups (WG)
 - Design
 - Manufacturing
 - Operation
- Intergroup communication.
 - Executive Committee
 - Joint meetings

PROJECT SCOPE 2



- Defect / fuel failure
 - leakers
 - any deviation from design
- Stages
 - 1: 2013-2014

Analysis of situation and root cases of fuel failures definition

- 2: - 2014-1015

Development of organizational and technical actions for fuel failures elimination

- 3: 2015-2017 г. г.

Implementation and monitoring of actions at Participant's and fuel developer's enterprises

CURRENT STATUS



- Approved Project regulations
- Approved WG schedules
- Project Success Criteria
- Fuel types specifics
- Operational conditions specification
- Fuel assemblies of interest

CONCLUSION



- Operation safety increase
- Operation reliability increase
- Spent fuel amount decrease
- Rad waste decrease
- Maintenance staff exposure decrease
- Operation economy increase

Thank you for your attention

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