



PROCEDURE OF QUALITY ASSURANCE IN VR-1 REACTOR OPERATION

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Within the programme of innovation, updating or creation of new operation documentation we prepared a new procedure of quality assurance in VR-1 reactor operation according to requirements of Czech regulatory body and IAEA recommendations.

Quality is the totality of features and characteristics of an item or services that consists in its ability to satisfy a defined requirement. Quality assurance is all those planned and systematic actions necessary to provide adequate confidence that an item or service will satisfy given requirements for quality.

Procedure of quality assurance in VR-1 reactor operation covered four field of operation: conduct of operations; reactor management; operation documentation, operation procedures and operation staff training. Each of them has a specific evaluation system consisting of three quality levels, which are indicated by different colors (green, yellow and red).

Conduct of operation covers:

- university students training
- nuclear power plant operation staff training courses
- research works
- operation staff training
- excursions and public relations

Reactor management covers:

- reactor organization structure
- reactor operation planning
- one-week operation plan
- emergency planning
- procedure of experiment preparation
- procedure of approaching criticality experiment
- technical specification and guidelines for procedures and works

Operation documentation, operation procedures cover:

- creation of operation documentation

- validity of operation documentation
- operation documentation archives
- operation documentation updating and changing evidence
- operation staff examination of the knowledge of operation documentation

Operation staff training cover:

- training requirements
- educational requirements
- training
- training responsibility
- selection of training teachers
- training licence
- training programs
- training recording
- training conclusion

New procedure of quality assurance in VR-1 reactor operation brings some new point of view in the field of increasing nuclear safety on the training reactor VR-1.

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