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Revision of Krško NPP Quality Assurance Plan

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Krško Nuclear Power Plant Vrbina 12, 8270 Krško, Slovenia igor.fifnja@nek.si, romeo.biscan@guest.nek.si International standards from nuclear power plant operation area are being frequently upgraded and revised in accordance with the continuous improvement philosophy. This philosophy applies also to the area of Quality Assurance, which has also undergone significant improvement since the early 1950's. Besides just nuclear industry, there are also other international quality standards that are being continuously developed and revised, bringing needs for upgrades also in the nuclear application.

Since the beginning of Krško NPP construction, the overall Quality Assurance program and its applicable procedures were in place to assure that all

planned and systematic actions necessary to provide adequate confidence that an item or service will satisfy given requirements to quality, are in place. The overall requirements for quality as one of the major objectives for Krško NPP operation are also set forth in the Updated Safety Analyses Report, the document that serves as a base for operating license.

During more than 30 years of Krško NPP operation, the quality requirements and related documents were revised and upgraded in several attempts. The latest revision 6 of QD-1, Quality Assurance Plan was issued during the year 2011. The bases for the revision were:

- Changes of the Slovenian regulatory requirements (ZVISJV, JV5, JV9, ...),
- Changes of Krško NPP licensing documents (USAR section 13, ...),
- SNSA inspection requirements,
- Changes of international standards (IAEA, ISO, ...),
- · Conclusions of first PSR,
- Implementation of ISO standards in Krško NPP (ISO14001, ISO17025),
- Changes of plant procedures, etc.

One of the most obvious changes was the enlargement of the QA Plan scope to cover interdisciplinary areas defined in the plant management program MD-1, such as Safety culture, Self-assessment, Human performance, Industrial Safety etc. The attachment of the QA Plan defining relationships between certain standards was also updated to provide matrix for better correlation of requirements of various standards: 10CFR50 App. B, IAEA GS-R-3, JV5 and ISO9001.

Krško NPP will continue to develop its internal quality assurance processes and requirements also in the future. The most important objective of the entire organization - to protect the safe and efficient power plant operation, will continue to be also the most important goal to the quality assurance program.

Keywords: NPP Krško, quality assurance, Safety Analysis Report, QA plan scope