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ELI Beamlines - Requirements Control Process (RCP)

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The ELI research center is designed to install and operate an intense laser system with peak powers of 10 PW and focused intensities up to 1024 W/cm² offering unique sources of radiation and particle beams.

In accordance with ISO 9000, the Quality is defined as “degree to which a set of inherent characteristics of an object fulfils requirements”, where requirement means “need or expectation that is stated”, e.g. in documented form. To satisfy user needs and in the context of the standardized practice, the quality based on RCP has been established and is maintained. This RCP is basically focused on capturing, documenting and evaluation of requirements for each science-based technology and their verification in line with a technology lifecycle. The mentioned activities are realized at the Teamcenter SW built on systems engineering principles customised for ELI needs. The ELI experience in practical application of RCP and SW solution tailored for operation objectives will be presented.

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