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# of Testing Technology Program for On-Site Inspections equipment

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The Preparatory Commission is tasked to make all necessary preparations, in fulfilling the requirements of the Treaty and its Protocol, for the support of on-site inspections (OSIs) from the entry into force of the Treaty. The OSI Technology Testing Program (TTP) is meant to support these preparations. The specific challenges and the unique nature of an inspection is making the synergy between equipment, infrastructure, human resources and procedures very important. The TTP is addressing this synergy through the implementation of a continuous and interrelated development process. Also, the structure of the program has been designed to formalize the processes in place by describing expected inputs and outputs. From the definition of user requirements, functional design, prototyping to field testing, and propositions of new technical specifications for the list of equipment, the poster will present the different development phases. The iterative and incremental approach will be exposed with concrete examples. They also show that the OSI capabilities must remain suitable and fit for purpose as technology evolves and innovations emerge. Hence, they must be subject to ongoing review with constant attention to their availability and appropriateness which is being considered in the OSI TTP.

Promotional text

The poster intends to support the exchange of knowledge and ideas between the CTBTO and the broader scientific community. Systems Engineering methods are here used in a nuclear test monitoring and verification improvement context.

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