

3.1-P08. Development of a mobile noble gas system for On-Site Inspections in support of CTBT with direct support from the EU Commission

The technical research and development of the most advanced equipment in support of the CTBT verification regime is to a large extent multilateral international affairs in coordination with CTBTO and involving institutions and technical experts from all over the world. One of the organisations significantly supporting CTBTO since many years and in a variety of technical fields is the European Commission. This presentation provides an overview of the R&D process, final prototype, tests and verification of the first CTBTO owned mobile noble gas processing and detection system especially developed for On-Site Inspections (OSI) and funded by the EU Commission. The presentation will in technical terms and some detail describe the new OSI noble gas system, i.e. the OSI-SAUNA (Swedish automated unit for noble gas acquisition) developed by FOI (Sweden), the special requirements on such systems for the intended use in OSI, the development process, the technical tests and verification measures taken by the CTBTO and a short discussion of the deployment in CTBTO's large Integrated Field Exercise in Jordan in November 2014 (IFE14) together with outlooks for the future developments for the OSI noble gas processing systems.

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