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Euratom Safeguards: Improving Safeguards by Cooperation in R&D and Implementation

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Euratom Safeguards, implemented on the basis of the Euratom Treaty by the European Commission's Directorate Nuclear Safeguards, is the largest Regional Safeguards System and involved in many R&D activities of its own, often in close cooperation with external partners. Most of the results of these activities are shared with or offered to the IAEA. The work described in this paper is complementary to the projects run by the European Commission Cooperative Support Programme (ECSP) to the IAEA. The ECSP activities will be described elsewhere at this conference.

The present paper will provide an overview on R&D activities run in addition to the ECSP, and will attempt to link them to the capabilities discussed by the IAEA in the Long Term R&D Plan.

The range of topics will include work on unattended data acquisition systems (hard- and software), advanced data analysis tools, news from seals related technology, containment and design verification applications of 3D lasers, activities to keep standard measurement technologies sustainable etc. Work done with the IAEA in preparation of new facilities and facility types will be discussed briefly. The paper will also highlight some current challenges and make suggestions how to address them.

Country or International Organization

European Commission, DG Energy, Nuclear Safeguards, and JRC ITU

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