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## REINFORCING NUCLEAR SAFEGUARDS EFFECTIVENESS THROUGH COOPERATION

The Brazilian-Argentine Agency for Accounting and Control of Nuclear Materials (ABACC) was created on July 1991, within the Agreement between the Republic of Argentina and the Federative Republic of Brazil for the Exclusively Peaceful Use of Nuclear Energy (Bilateral Agreement). On December 1991, the Quadripartite Agreement was signed between the Republic of Argentina, the Federative Republic of Brazil, the Brazilian-Argentine Agency for Accounting and Control of Nuclear Materials (ABACC) and the International Atomic Energy Agency (IAEA) for the Application of Safeguards in both countries.

Since the signature of the Quadripartite Agreement, the application of safeguards in Argentina has made great progress, mostly based on the cooperation activities. ABACC, IAEA and the Nuclear Regulatory Authority of Argentina (ARN), which is the responsible organization for the safeguards activities within the country, work in close association to strengthen the safeguards implementation. This cooperative based scheme has proven to be a fundamental pillar in safeguards, improving the effectiveness of its application in the country and in the region.

This paper describes the application of safeguards in Argentina, the improvements implemented in the recent years, the incorporation of new technologies to meet technical safeguards objectives in a more efficient manner, the test of new techniques like the 2D-Laser curtain barrier, and the development of new methodologies such as the ABACC-Cristallini method for UF<sub>6</sub> sampling. A status of the ongoing cooperation activities and future challenges are also presented.

### Which "Key Question" does your Abstract address?

SGI1.1

### Which alternative "Key Question" does your Abstract address? (if any)

SGI1.4

### Topics

SGI1

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