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## **Future of Safeguards: Use of New Information Technologies to Improve Information Exchange Between Canada and the International Atomic Energy Agency**

Canada has one of the largest fuel cycles subject to a Comprehensive Safeguards Agreement and an Additional Protocol in the world. The Canadian Nuclear Safety Commission (CNSC), as the State Regulatory Authority (SRA) for Canada, is responsible for ensuring that the International Atomic Energy Agency (IAEA) receives the large number of reports and documents required to support safeguards in the country. These reports and documents include nuclear material accountability State reports, design information, operational reports, Additional Protocol declarations, as well as near real-time accountability information to support Short Notice Random Inspection (SNRI) regimes across much of the fuel cycle. As a result of the need to process such information, the CNSC is interested in leveraging technology to the extent possible. In this paper, we review the use of innovative technologies and tools. In many instances, Canada has played an important role either in supporting development and/or being an early implementer. The technologies and tools on which this paper will focus include: the IAEA's State Declarations Portal (SDP), Protocol Reporter 3 (PR3) software for Additional Protocol declarations, and Digital Declaration Site Maps (DDSM). Canada will review its experience with these tools and with its own domestic tools (including development of its own e-business suite for nuclear material accountability reporting) in improving information exchange between the IAEA and an SRA.

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

SGI2.5

### **Topics**

SGI2

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