



Canadian Nuclear
Safety Commission

Commission canadienne
de sûreté nucléaire

Regulation of Sealed Sources in Canada

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Introduction



In Canada, the **Canadian Nuclear Safety Commission (CNSC)** is mandated under the *Nuclear Safety and Control Act* to regulate all aspects of the nuclear industry including security and import/export control

The CNSC is responsible for implementing the Code of Conduct on the Safety and Security for Radioactive Sources



Regulatory Provisions



- CNSC regulates radioactive sources on the cradle to grave principle to include import/export controls
- Compliance verifications through on site inspections and desk top reviews
- Tracking of high risk sources as they are being transferred between licensees
- Incident/Event reporting requirements

Sealed Sources Tracking



- Licensees retain responsibility for safety and security
- Sealed Source Tracking System for Category 1 & 2 and a significant number of Category 3 sources
- National Sealed Source Registry

Recycling of Disused Sealed Sources



- Legal and legitimate transfer of sources between licensees is allowed
- Servicing must be authorized by CNSC
- Certification process to ensure safety and integrity of sources and devices are maintained
- No regulatory provisions prohibiting the importation of disused sealed sources as long as safety provisions are demonstrated by the licensee (Importer)

Detection of Orphan Sources



- Border Monitoring
- Scrap metal facilities monitoring
- Compliance inspections
- Co-operation with Law enforcement and border services



Orphan Sources - Options for Gaining Control



- Returned to licensee
- Returned to manufacturer
- Disposal at licensed facility

Long-term Management of Disused Sealed Sources



- Clear government policy on waste management under which the owner is responsible for the long-term management
- Disused sources declared as waste must be sent to licensed waste facility
- Atomic Energy of Canada Limited (AECL) is requested by Government to offer source disposal on a fee-for-service basis

Issues



- Financial guarantees are being considered to cover the cost of decontamination and the long-term management of disused sealed sources
- Long-term management of disused sealed sources transferred to AECL to be dealt with under the Nuclear Legacy Liabilities Program

Issues (cont.)



- Reliance on the importing state to ensure that the licensed facility has adequate provisions in place for the long-term management
- Need for international system to deal with sources that become “OUTSIDE REGULATORY CONTROL”
- Canada sees a significant role for the IAEA in this regard



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Thank you

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