

Policies

Country: CANADA

Reporting Year: 2011

National Systems

| Policy | (Yes;Partially;No) |
|---|--------------------|
| Q14 Has your Country implemented a national policy for radioactive waste management? | Yes |
| Comment # 7486: P-290 | |
| Managing Radioactive Waste. Policy of the Canadian Nuclear Safety Commission put in place July 2004 | |
| Comment # 7487: P-223 | |
| Protection of the Environment: Policy of the Canadian Nuclear Safety Commission relating to environmental protection from nuclear activities. Put in place February 2001 | |
| Comment # 7488: R-71 | |
| Deep Geological Disposal of Nuclear Fuel Waste: Regulatory Policy document of the Canadian Nuclear Safety Commission, January 1985 | |
| Comment # 7489: R-85 | |
| Radiation Protection Requisites for Exemption of Certain Radioactive Materials from further Licensing Upon Transerral for Disposal. Regulatory Policy document of the Canadian Nuclear Safety Commission, August 1989 | |
| Comment # 7490: R-72 | |
| Geological Considerations for Siting a Repository for Underground Disposal of High-Level Radioactive Waste. Regulatory Policy document of the Canadian Nuclear Safety Commission, September 1987. | |
| Comment # 9821: Policy Framework for Radioactive Waste | |
| Radioactive waste policy framework that will guide Canada's approach for radioactive waste disposal-1996 Natural Resources Canada | |
| Comment # 9822: G-320 | |
| Draft guide of the Canadian Nuclear Safety Commission entitled "Assessing The Long Term Safety of Radioactive Waste Management" April 2005 | |

| Strategies | (Yes;Partially;No) |
|---|--------------------|
| Q15 Has your country developed strategies to implement a national policy? | Yes |

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| Requirements | | (Yes;Partially;No) |
|--------------|---|--------------------|
| Q17 | identified the parties involved in the different steps of radioactive waste management | Yes |
| Q18 | specified a rational set of safety, radiological and environmental protection objectives | Yes |
| Q19 | implemented a mechanism to identify existing and anticipated radioactive wastes | Yes |
| Q20 | implemented controls over radioactive waste generation | Yes |
| Q21 | identified available methods and facilities to process, store and dispose of radioactive waste on an appropriate time-scale | Partially |
| Q22 | taken into account interdependencies among all steps in radioactive waste generation and management | Yes |
| Q23 | implemented appropriate research and development to support the operational and regulatory needs | Yes |
| Q24 | implemented a funding structure and the allocation of resources that are essential for radioactive waste management | Yes |
| Q25 | implemented formal mechanisms for disseminating information to the public and for public consultation | Yes |

Comment # 7501: relevant legislation

These requirements are covered in federal legislation, the Nuclear Safety and Control Act, and regulations.

| Responsibilities | | (Complete;Incomplete) |
|------------------|---|-----------------------|
| Q28 | establish and implement a legal framework for the management of radioactive waste | Complete |
| Q29 | establish or designate a regulatory body that has the responsibility for carrying out the regulatory function with regard to safety and the protection of human health and the environment. | Complete |
| Q30 | define the responsibilities of waste generators and operators of waste management facilities | Complete |
| Q31 | provide for adequate resources | Complete |
| Q33 | enforce compliance with regulatory requirements | Complete |
| Q34 | implement the licensing process | Complete |
| Q35 | advise the government | Complete |
| Q37 | identify an acceptable destination for the radioactive waste | Complete |
| Q114 | comply with legal requirements | Complete |

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| Activities | | (Yes;Partially;No) |
|-------------------|--|---------------------------|
| Q43 | perform safety and environmental impact assessments for radioactive waste management facilities | Yes |
| Q44 | ensure adequate radiation protection for workers, the general public and the environment | Yes |
| Q45 | ensure suitable staff, equipment, facilities, training and operating procedures are available to perform the safe radioactive waste management steps | Yes |
| Q46 | establish and implement a quality assurance programme for the radioactive waste generated or its processing, storage and disposal | Yes |
| Q47 | establish and keep records of appropriate information regarding the generation, processing, storage and disposal of radioactive waste, including an inventory of radioactive waste | Yes |
| Q48 | provide surveillance and control of activities involving radioactive waste as required by the regulatory body | Yes |
| Q49 | collect, analyze and, as appropriate, share operational experience to ensure continued safety improvements in radioactive waste management | Yes |
| Q50 | conduct or otherwise ensure appropriate research and development to support operational needs in radioactive waste management | Yes |

| Clearance | | (Yes;No) |
|------------------|---|-----------------|
| Q128 | Does your country have "clearly defined clearance levels based on radiological criteria, with policy statements that material below those levels can be recycled or disposed of with non-radioactive wastes"? | No |
| Q129 | Has your country ever used a "case-by-case" approach to clearing radioactive wastes (excluding spent/disused sealed radioactive sources)? | Yes |
| Q130 | Has your country ever used clearance levels to dispose of, reuse or recycle radioactive waste as non-radioactive waste or as a non-radioactive resource (excluding spent/disused sealed radioactive sources)? | No |

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Disposal Facilities

| Licensing | | (Yes - All;Yes - Some;No) |
|--------------|--|---------------------------|
| Q53 | Environmental Assessment (EA) | Yes - All |
| Q54 | Environmental Impact Statement (EIS) | Yes - All |
| Q55 | Performance Assessment (PA) | Yes - All |
| Q56 | Quality Assurance (QA) | Yes - All |
| Q57 | Safety Assessment (SA) | Yes - All |
| Q59 | If Quality Assurance is part of your Country's current, waste disposal facility licensing policy, does the QA Program conform to international standards (such as the ISO9000 series)? | Yes - All |
| Operation | | (Yes - All;Yes - Some;No) |
| Q60 | Does your Country have formal, documented waste acceptance criteria for its operating or proposed disposal facilities? | Yes - All |
| Post-Closure | | (Yes;No) |
| Q61 | Does your Country have any written policies to address the maintenance of records that describe the design, location and inventory of waste disposal facilities? | Yes |
| Q62 | If the answer to the previous question was YES, does your Country have any policies, laws or regulations that prescribe what records are to be maintained? | Yes |
| Q63 | Does your Country have any written policies to address active institutional controls or passive institutional controls, such as monitoring or access restrictions? | Yes |
| Q65 | access restrictions | Yes |
| Q66 | drainage and/or leachate collection system(s) | Yes |
| Q67 | leachate treatment systems | Yes |
| Q68 | environmental monitoring | Yes |
| Q69 | facility monitoring | Yes |
| Q70 | surveillance | Yes |
| Q71 | plans for intervention measures during active institutional control if there is an unplanned release of radioactive materials from the disposal facility | Yes |

Comment **# 7502: specification in licenses**

These requirements are generally noted in the General Nuclear Safety Regulations and are specifically addressed in each individual licence for a waste management facility.

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Processing/Storage

| Policies/Procedures | | (Yes;No) |
|----------------------------|--|-----------------|
| Q73 | waste sorting/segregation | No |
| Q74 | waste minimization | No |
| Q75 | waste storage | Yes |
| Q76 | processing and/or storing and/or disposing of nuclear fuel cycle waste separately from non-nuclear fuel cycle waste (also known as nuclear applications waste) | No |
| Q78 | Does your country have any legislation, regulation, or policy that waste processing must take place prior to storage (see following note) | No |
| Implementation | | (Yes;No) |
| Q80 | In your Country are there any waste processing facilities at the same location where the waste is generated? | Yes |
| Q81 | In your Country are there any centralized waste processing facilities? | Yes |
| Q82 | In your Country are there any mobile waste processing facilities? | No |
| Foreign | | (Yes;No) |
| Q121 | Has your country sent any wastes or spent fuel to another country for processing (reprocessing for fuel)? | No |
| Q124 | Has your country accepted any wastes or spent fuel from another country for processing (reprocessing for fuel)? | No |

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Spent/Disused SRS

| Registration | | (Yes;No) |
|--------------------|---|----------|
| Q84 | Is there a national level registry? | Yes |
| Q85 | If answer was yes, is the registry used only for disused/spent SRS? | No |
| Q87 | Are there regional-level registries (one or more)? | No |
| Q90 | Are there local-level registries (one or more)? | No |
| Procedures | | (Yes;No) |
| Q91 | Does your Country have documented procedures in place to ensure that sealed radioactive sources (SRS) are transferred to secure facilities in a timely manner after their user declares them to be spent? | Yes |
| Agreements | | (Yes;No) |
| Q93 | Government to Government agreements | No |
| Q94 | Government - Supplier agreements | No |
| Q95 | Supplier-User agreements | Yes |
| Q97 | Do any agreements include suppliers that are outside of your Country? | Yes |
| Release / Disposal | | (Yes;No) |
| Q99 | Does your Country have any regulations to free-release spent sealed radioactive sources (SRS)? | Yes |
| Q100 | Has your Country disposed of spent SRS in existing disposal facilities for LILW or HLW waste? | Yes |
| Q101 | Does your Country plan to dispose of spent SRS in existing or planned disposal facilities for LILW or HLW waste? | Yes |
| Q102 | Has your Country implemented dedicated disposal facilities for spent SRS? | No |
| Q103 | Does your Country have plans to implement dedicated disposal facilities for spent SRS? | No |

Comment **# 7504: federal regulations**

Federal regulations cover release and disposal of all radioactive materials: General Nuclear Safety and Control Regulations and the Radiation Protection Regulations.

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Import-Export

Radioactive Waste

(Yes;No)

Q104 Does your Country have laws or Regulations restricting either the import or export of radioactive waste (excluding spent fuel)? Yes

Comment # 7492: Import-Export

Nuclear Non-Proliferation Import and Export Control Regulations made pursuant to the Canadian Nuclear Safety and Control Act. Administered by the Canadian Nuclear Safety Commission.

Spent Fuel

(Yes;No)

Q105 Does your Country have laws or Regulations restricting either the import or export of spent fuel? Yes

Comment # 7503: relevant regulations

Federal regulations made pursuant to legislation: Nuclear Non-Proliferation Import and Export Control Regulations

Liquid HLW

Storage

(Yes;No)

Q106 Does your Country have high-level liquid wastes in storage? Yes

Processing

(Yes - All;Yes - Some;No)

Q107 If your Country has high-level liquid wastes in storage, are there documented plans in place to process these liquids? No

Timeframe

(Yes - All;Yes - Some;No)

Q108 If your Country has high-level liquid wastes in storage, are there plans to have this waste be processed within a specified time frame? No

UMMT

Responsibility

(Yes;No)

Q110 Does your Country have any Uranium Mine and Mill Tailings sites that do not have a designated authority to manage them? No

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Decommissioning**Funding****(Yes - All;Yes - Some;No)**

Q111 Does your Country require that funds should be set aside in support of future waste management activities, such as decommissioning activities? Yes - Some

Facilities**(Yes;No)**

Q119 Does Your Country have any nuclear fuel cycle facilities? Yes

Q120 Does Your Country have any nuclear applications facilities (non fuel cycle facilities)? Yes

Timeframe**(Yes - All;Yes - Some;No)**

Q112 Does your Country require a time frame for the decommissioning of nuclear fuel cycle facilities once these facilities cease operation? Yes - All

Q113 Does your Country require a time frame for the decommissioning of non-nuclear fuel cycle facilities once these facilities cease operation? Yes - All