

Policies

Country: NORWAY

Reporting Year: 2006

National Systems

| Policy | | (Yes;Partially;No) |
|---------|---|--------------------|
| Q14 | Has your Country implemented a national policy for radioactive waste management? | Partially |
| Comment | # 7300: Long lived waste | |
| | Discussions have started to find a solution for the SNF, long lived waste and other wastes that cannot be disposed of in Himdalen. | |
| | A (new) centralised storage facility is under evaluation. | |
| | The Norwegian authorities are at present considering the overall future radioactive waste and spent fuel management policy. Important aspects are future needs for new nuclear facilities (i.e storage and disposal capacities), optimal use of existing facilities,organisational structures, financing and public confidence. | |

| Strategies | | (Yes;Partially;No) |
|------------|--|--------------------|
| Q15 | Has your country developed strategies to implement a national policy? | Partially |
| Comment | # 7301: Strategy | |
| | The discussions have started to find a policy and strategy that will cover all waste arisings and to have an optimised system. Return (reexport) of Spent SRS will be an important part of the discussion and will have an impact on the inventories of waste in Norway. | |

| 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 | Partially |
| Q19 | implemented a mechanism to identify existing and anticipated radioactive wastes | Partially |
| Q20 | implemented controls over radioactive waste generation | Partially |
| 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 | Partially |
| Q23 | implemented appropriate research and development to support the operational and regulatory needs | Partially |
| Q24 | implemented a funding structure and the allocation of resources that are essential for radioactive waste management | Partially |
| Q25 | implemented formal mechanisms for disseminating information to the public and for public consultation | Yes |

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| Responsibilities | | (Complete;Incomplete) |
|-------------------------|---|------------------------------|
| Q28 | establish and implement a legal framework for the management of radioactive waste | Incomplete |
| 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 | Incomplete |
| Q31 | provide for adequate resources | Incomplete |
| 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 | Incomplete |
| Q114 | comply with legal requirements | Complete |

| 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)? | Yes |

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Disposal Facilities

| Licensing | | (Yes - All;Yes - Some;No) |
|-----------|--|---------------------------|
| Q53 | Environmental Assessment (EA) | Yes - Some |
| Q54 | Environmental Impact Statement (EIS) | Yes - Some |
| 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 - Some |

Comment # 213: Environmental Assessment

An Impact Assessment (covering more issues than the environment) is required by law before the construction of a nuclear facility. The IA is carried out before the licensing process starts. The IA for the Himdalen disposal facility was performed in connection with the site selection process (the IA covered three possible sites).

| Operation | | (Yes - All;Yes - Some;No) |
|-----------|--|---------------------------|
| Q60 | Does your Country have formal, documented waste acceptance criteria for its operating or proposed disposal facilities? | No |

Comment # 215: Waste acceptance criteria

Waste acceptance criteria are not defined in any legal documents. Specific criteria will be established for any new facilities.

For the Himdalen disposal facility the planned/expected waste was described in the safety report (conditioning methods, amount, activity etc). This has now been approved and the waste can be disposed of. Any waste not described in the Safety report, the operator has to apply to NRPA for each package on a case-by-case.

All "old and existing" wastes have now been disposed of in the Himdalen facility, and specific waste acceptance criteria could be developed for future wastes.

| 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? | No |
| Q63 | Does your Country have any written policies to address active institutional controls or passive institutional controls, such as monitoring or access restrictions? | No |

Comment # 9895: Policies Disposal Facilities-Post-Closure

For the Himdalen disposal facility (LILW) it has been decided that an institutional control period of 300-500 years with monitoring and land use restrictions will apply. The facility is planned to be in operation until 2030 and at that time formal procedures and documentation for record keeping and institutional control will be established.

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Processing/Storage

| Policies/Procedures | | (Yes;No) |
|----------------------------|--|-----------------|
| Q73 | waste sorting/segregation | No |
| Q74 | waste minimization | No |
| Q75 | waste storage | No |
| 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)? | Yes |
| Q122 | Will some or all of the product(s) of processing/reprocessing be returned to your country? | No |
| Q123 | Currently, are any of your country's wastes (processed or unprocessed, including the products of reprocessing) or spent fuel being stored in another country? | No |
| Q124 | Has your country accepted any wastes or spent fuel from another country for processing (reprocessing for fuel)? | No |

Comment **# 9896: Policies Processing/Storage-Foreign**

In 1969 spent fuel from The Halden Boiling Heavy Water reactor was reprocessed in Belgium. This is the only Norwegian spent fuel that has been reprocessed abroad. The plutonium and uranium gained from the reprocessing was sold for civilian use and the radioactive waste remained in Belgium.

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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 |

Comment # 297: Registres

Each user /license holder is required to have a register of their sources.
Resources are now being put into developing an electronic web-based central register (at NRPA) for radioactive sources.

| 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)? | No |
| 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 |

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 |

| Spent Fuel | | (Yes;No) |
|------------|---|----------|
| Q105 | Does your Country have laws or Regulations restricting either the import or export of spent fuel? | Yes |

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Liquid HLW**Storage****(Yes;No)**

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

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? No

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? No

Q113 Does your Country require a time frame for the decommissioning of non-nuclear fuel cycle facilities once these facilities cease operation? No