

5 Use of closed sources *continued*

- 5.1 Detection and analysis – Use of sealed sources for analysis
- 5.2 Detection and analysis – Use of beta sources for gas chromatography detectors
- 5.3 Detection and analysis – Use of radioactive sources for leak detection, chemical and explosives detection
- 5.4 Detection and analysis – Use of neutron sources for activation analysis
- 6.1 Elimination of static electricity – Use of radioactive sources to eliminate static electricity
- 7.1 Illumination – Use and repair of gaseous tritium light sources for illumination, in safety signs and equipment, sighting and location markers, watches and instruments
- 7.2 Illumination – Use of radioluminous paint (tritium and promethium-147) for the luminising of timepieces and the repair of radioluminised timepieces
- 8.1 Electronic apparatus – Use of electronic apparatus containing
- 9.1 Safety devices – Use of ionising radiation in smoke and fire detectors and other safety instruments
- 10.1 Security screening – Use of gamma rays or neutron sources to examine packages, baggage, containers or vehicles
- 10.2 Security screening – Use of gamma rays to detect people seeking illegal entry to the UK in vehicles or freight
- 10.3 Security screening – Use of back-scatter imaging for the detection of concealed items on the person
- 10.4 Security screening – Use of gamma rays or neutron sources to detect concealed items in buildings
- 11.1 Radioactive tracers – Use of radioactive tracers in industrial process controls
- 11.2 Radioactive tracers – Use of radioactive tracers for medical or biological techniques
- 11.3 Radioactive tracers – Use of radioactive tracers for environmental tests
- 12.1 Diagnosis – medical – Use of ionising radiation in radiography, fluoroscopy, computed tomography, In-vivo nuclear medicine and in-vitro nuclear medicine
- 13.1 Treatment – medical – Use of ionising radiation in interventional radiology; in-vivo nuclear medicine; teletherapy; brachytherapy; radiography (for planning purposes); fluoroscopy (for planning purposes); computed tomography (for planning purposes)
- 14.1 Occupational health screening – Use of ionising radiation in radiography and in-vitro nuclear medicine
- 15.1 Health screening – Use of ionising radiation in radiography and in-vitro nuclear medicine
- 16.1 Medical and biomedical research – Use of ionising radiation in radiography; fluoroscopy; interventional radiography; computed tomography; in-vivo nuclear medicine; in-vitro nuclear medicine, teletherapy; brachytherapy and neutron activation analysis
- 17.1 Medico-legal procedures – Use of ionising radiation in radiography; fluoroscopy; interventional radiography; computed tomography and in-vivo nuclear medicine
- 18.1 Diagnosis and therapy – veterinary – Use of ionising radiation in radiography, fluoroscopy, computed tomography, in-vivo nuclear medicine, in-vitro nuclear medicine, teletherapy and brachytherapy
- 19.1 Teaching, including further and higher education and training – Use of radioactive sources and substances
- 20.1 Research and development – Operation of nuclear fission or fusion reactors for R & D purposes
- 21.1 Ionising radiation metrology – Use of all types of radiation sources to support National Measurement System and use of calibration sources in the testing of equipment
- 22.2 Storage in transit of radioactive materials
- The numbers between 23 and 49 have been left for future use*
- Use of NORM – as a chemical reagent
- 50.2 Use of NORM – as a balance weight
- 50.3 Use of NORM – as radiation shielding
- 50.4 Use of NORM – Adventitious arising from gas and oil production
- 50.5 Other uses of NORM
- NORM means naturally occurring radioactive material*
- 51.1 Use by MOD or the armed services
- 51.2 Use for military purposes by a contractor to the MOD

5 Use of closed sources *continued*

5.2 For which purposes are sources to be kept or used?

Please tick each relevant box

- Storage in transit (for keeping only, not using)
- Manufacture
- Repair
- Maintenance
- Supply
- Assembly
- Handling
- Holding
- Testing (operation and QA)
- Research and development
- Use
- Decommissioning and waste disposal
- Other *please give details in up to 20 words*

5.3 Please describe how and why you intend to use the sources.

We need to know

- if you can justify why you need the sources
- why you cannot use sources of lower activity

5 Use of closed sources *continued*

5.5 Where will you store the closed sources when they are not in use?

Give general details of the building, room, security measures, fire alarm systems and proximity of inflammable materials etc.

Distribution of sources from the premises

5.6 Do you intend to lend or let sources on hire

No

Yes *please give brief details*

Registration number of hirer *if known*

Distribution of sources from the premises

5.7 Do you intend to sell, distribute (other than by letting or lending on hire), or transfer radioactive materials from the premises?

No

Yes *please give brief details*

Disposal of closed sources

5.8 How do you intend to dispose of closed sources when they are no longer needed?

Please tell us if you have any agreements with suppliers to take sources back, or if you have arrangements for them to be received elsewhere.

6. Security of Source s

The Northern Ireland Environment Agency now has regulatory powers over protective security of certain sealed sources. Consideration of security is required for high-activity sources and where the activity level of sources, in the opinion of the Northern Ireland Environment Agency, constitutes a similar level of potential hazard, to that arising from high-activity sources. It is our opinion that any source, or aggregation of sources in a single premises, which falls in any of source categories 1 to 4 in the scheme set out in the NSAC Requirements constitutes a similar level of potential hazard to a HASS. All users, applicants and other interested parties who need to see the NSAC document should ask their Police Force Counter Terrorism Security Adviser for a copy.

Where sources are not considered to constitute a similar level of potential hazard to that from high-activity sources, the NIEA will be requiring users to take simple precautions to protect radioactive sources.

You do not need to complete part G if your premises are located on a nuclear licensed site.

6.1 Please confirm that you hold a copy of NSAC Document "Security Requirements for Sites and Sectors working with Radioactive Substances", October 2005 and that you understand its requirements

This is available from your local Police Counter Terrorism Security Adviser

No

Yes

6.2 Please provide the following details of the location and maximum holding of radioactivity of sealed sources

Building or Facility name or number on the main premises	Radionuclide(s) and Practice(s) from Table 1 of NSAC document see note	Maximum total activity of each radionuclide GBq	Security Category (1-5) see note	Security Group (A – D) see note

Note – Security Requirements for Radioactive Sources (October 2005), NSAC

6. Security of Sources *continued*

The NSAC Requirements describes how to calculate the category and relevant security group. You should do this on the basis of aggregating all the sealed sources that may be held in a single building on the premises at any one time. If you hold HASS or sources of similar level of potential harm, then we will need to consider whether or not all of your sources are vulnerable to the same hazard, and our assessment of security group may differ from your initial one. If this means that you need additional security measures, we will give you the opportunity to amend your application. If your assessment of the category of your sources indicates that you need significant expenditure to meet the NSAC Requirements, or if your sources are distributed around more than one building on the premises, you may consider discussing your situation with your local Police Counter Terrorism Security Adviser before completing this form.

6.3 If you consider your premises to be in Security Groups A, B or C, have you met all of the requirements of the NSAC Security Requirements for the security group you consider your premises to be?

No

Yes

6.4 Please indicate if you have the following security measures in place for the sources both when they are in use and when they are being stored while not being used.

General measures to prevent loss of the sources, ie care of sources

Physical security:

Fence

Building

Room

Store

Security provided by source container

Access control

Storage of information and databases

Security of essential utilities (eg electricity)

Site procedures and security plan to:

Prevent unauthorised access to or loss of theft of the sources

Detect unauthorised access to or loss or theft of the sources

Include options to upgrade the site security plan in response to increased threat

Information security plan covering:

Unauthorised access to information on the sources

Unauthorised access to information on the security measures taken

Detection:

Patrols

Alarms

CCTV

Response to detection:

Local

Police

Documentary evidence of measures taken

Other measures

The NASC Requirements specify how to determine which of these security features are desirable at premises in Security Groups A, B or C.

You should not include details of your security measures with your application.

7 High-Activity Sealed Sources

Completion of part 7 of this form indicates that you are applying to have those sources registered as high-activity sealed sources (HASS).

You must complete part 7 if you intend to hold a new HASS. You do not need to complete part 7 if you have no plans to hold HASS (see NIEA Guidance for definition of a new HASS).

If you intend to hold a new HASS but already hold, or intend to hold, an existing HASS (see Guidance), then you must complete part 7 in respect of all such sources. The HASS provisions will apply to all such sources, except that financial security and end-of-life arrangements will not be required for existing HASS until 1 January 2008.

If you are making this application prior to 1 September 2007 and you do not intend to hold a new HASS but hold, or intend to hold, an existing HASS, you may choose to complete part 7 if you want to minimise the number of variations to your registration. If you choose not to complete part 7 for such sources now, you will need to apply again before 1 September 2007 to include them.

7.1 Are any of the sources High-Activity Sealed Sources?

No If not there is no need to complete Part 7

Yes

7. High-Activity Sealed Sources *continued*

7.2 Which of the sources are High-Activity Sealed Sources?

Radionuclide	Number of sources	Maximum activity of each source <i>In gigabecquerels</i>

7.3 Management of HASS – Please confirm you have a management system, organisational structure and resources adequate to achieve compliance with the limitations and conditions of any registration issued by the NIEA, resulting from this application.

No

Yes

See the NIEA Guidance for details.

7.4 Please confirm that the management system includes:

- Specification responsibilities
- Specification of competencies
- Provision of information and training
- Operating procedures
- Maintenance of sources and associated equipment including leakage tests
- Emergency procedures

If unable to confirm any of these please give details

Before you bring any HASS onto the premises (except an existing HASS prior to 1 January 2008) you need to have suitable arrangements in place for each source to cover Financial Provision and safe management of disused sources as specified in 7.5 to 7.7.

7.5 Please confirm you have met the requirements of the Defra guidance on Financial Provision for each high-active source.

No

Yes

7.6 Which of the possible mechanisms for financial provision are you using?

You will need to include with the application, sufficient documentation to enable the NIEA to assess whether you are satisfying the Defra guidance.

7.7 Please specify which of the following arrangements you have in place for the safe management of high-activity sources, when you no longer have any use for them. Do you intend to send them to:

- a manufacturer
- a supplier
- another registered or authorised user
- a nuclear site licensee?

If none of these, please describe how you intend to manage high-activity sources you no longer have any use for

7. High Activity Sealed Sources *continued*

7.8 Do you manufacture HASS?

We need to know if you manufacture HASS sources because we need to include additional conditions into your registration if you do.

No

Yes *please give brief details*

You should tick Yes even if manufacture is incidental to your main practice, eg irradiation of cyclotron targets.

8 Data protection notice

Northern Ireland Environment Agency is responsible for regulating environmental protection. It has a duty to discharge its functions to protect and enhance the environment and to promote conservation.

The information provided will be processed by Northern Ireland Environment Agency to deal with your application, to monitor compliance with the licence/permit/registration conditions, to process renewals and for maintaining the relevant public register(s).

We may also process and/or disclose it in connection with the following:

- ? offering/providing you with our literature/services relating to environmental matters.
- ? consulting with the public, public bodies and other organisations (eg Health and Safety Executive, local authorities, emergency services, on environmental issues)
- ? carrying out statistical analysis, research and development on environmental issues
- ? providing public register information to enquirers
- ? investigating possible breaches of environmental law and taking any resulting action
- ? providing breaches of environmental law
- ? assessing customer service satisfaction and improving our service
- ? reporting to the European Commission on the experience gained in implementing Council Directive 2003/122/Euratom
- ? exchanging information and co-operation with European Union Member States or relevant international organisations.

We may pass it on to our agents/representatives to do these things on our behalf.

8 Data protection notice *continued*

You should ensure that any persons named on this form are informed of the contents of this data protection notice.

You should be aware that even where information has been excluded from one of the public registers held by the NIEA, it does not necessarily follow that the NIEA will not release this information should a request be made for it. Any information the NIEA holds may have to be released as a result of the obligations imposed on it under the Freedom of Information Act 2000 and the associated Environmental Information Regulations 2005.

These pieces of legislation place the NIEA under a general obligation to make the information it holds available to the public, should a request be made for it. Although there are a number of exemptions/exceptions to this general principle allowing the Agency to withhold information, these pieces of legislation impose a regime which is heavily biased towards the release of information. The exemptions, on the whole, can only be relied on to withhold information where in all the circumstances it is in the public interest to rely on that exemption and withhold that information. The majority of the information submitted as part of an RSA 93 application will be environmental information and any release would fall to be dealt with under the Environmental Information Regulations. These regulations are particularly stringent, and the circumstances in which environmental information can be withheld from the public are very limited. The NIEA has been directed by Government under RSA 93 to withhold certain information on sealed sources from public access.

The NIEA may be able to withhold environmental information which is commercially confidential in nature, but only where the public interest rest favours withholding the information. Because of the application of the public interest test, the NIEA can never guarantee that it will always withhold information of a commercially confidential nature.

Commercial in confidence

8.1 Absence of relevant processes and trade secrets.

I accept that the information contained in the application form will form part of the publicly available information held by the NIEA and relevant public registers.

Signature

Name

Authorised on behalf of

Date

National Security

8.2 Is there any information in the application which you believe should be restricted on the grounds of national security?

No

Yes *Please enclose a copy of any application for a Direction which you have made to the Secretary of State.*

8 Data protection notice *continued*

9 Payment for your application

9.1 Amount enclosed.

Please make cheques payable to 'Department of the Environment' and endorsed 'A/C Payee only.' Not negotiable. We cannot accept payment by bank giro or credit card.

You can find details of how much to pay in the fees and charges on the web www.ni-environment.gov.uk

10 Application for registration

I declare that the information given in this application is correct, to the best of my knowledge and belief.

Signature

Name

Position

Date