Application for an environmental permit Part RSR-B4 – New bespoke radioactive substances activity permit (open sources and waste from open sources)



Please read through this part of the form and the	part
RSR-B4 guidance notes before you fill it in.	

It will take less than three hours to fill in this part of the application form.

If you are applying for a new bespoke permit for a radioactive substances activity involving open sources and/or radioactive waste from open sources on a non-nuclear site, fill in this part of the form, together with parts RSR-A and RSR-F. If you also want to make on-site disposals of solid waste to land, also fill in part RSR-B5. If you need a permit to store radioactive materials in transit complete part RSR-B2.

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For security this part of t	reasons, do not refer to sealed sources on the form. There is a separate part (RSR-B2) for substances activities involving sealed sources.	
1a Have you reother than for a No	pplications ecently made, or do you intend to make, an application for an environmental permit to operate a radioactive substances activity, on the premises? he activities	a regulated facility,
Schedule 23 Part 2 paragraph reference	levant boxes to show which radioactive substances activities you are applying for Description	
11(2)(a)	Keep or use radioactive material on premises used for the purposes of an undertaking	
11(2)(b)	Dispose of radioactive waste on or from premises used for the purposes of an undertaking	
11(2)(c)	Accumulate radioactive waste on or from premises used for the purposes of an undertaking	
11(4)(a)	Receive radioactive waste for the purposes of disposing of it	
11(5)(a)	Keep or use mobile radioactive apparatus for testing, measuring or otherwise investigating any of the characteristics of substances or articles	
11(5)(b)	Keep or use mobile radioactive apparatus for releasing quantities of radioactive material into the environment or introducing such material into organisms	
2b Describe h	ow and why you intend to use the open sources	

2 About the activities, continued			
2c Where and how will you store the open sources when they are not in use?			
 3 Using open sources on the premises Only answer this section if you are applying for an activity describinvolving open sources. 3a Give details of the open sources that you will keep or use on t 			
Radionuclide	Maximum activity at any one time (in becquerels)		
4a Enclose your assessment of how you plan to use the 'best available techniques' to reduce the amount of radioactive waste you create and have to dispose of Document reference			
5 Accumulation of radioactive waste from open so	urces		
5a Why do you plan to accumulate radioactive waste? 5b How do you plan to accumulate radioactive waste?			

Accumulation of radioactive waste from open sources, continued Give the chemical and physical details of the radioactive waste				
5d How will you measure the activity of all	the types of the radioad	ctive waste?		
5e Give the following details of the gaseou	s waste you will accum	ulate		
Radionuclides	Activity limits		Maximum period	
Sf What is the maximum volume of gaseous waste you will accumulate at any time? Cubic metres Sg Give the following details of the aqueous liquid waste you will accumulate Radionuclides Activity limits Maximum period				
5h What is the maximum volume of aqueou	us waste you will accun	nulate at any time?		
5i Give the following details of the organic	liquid waste you will a	ccumulate		
Radionuclides	Activity limits Maximum period		Maximum period	
5j What is the maximum volume of organic	c liquid waste you will a	accumulate at any time	?	
Cubic metres 5k Give the following details of the very lov				
Cubic metres Maximum period				

5 Accumulation of radioactive waste from open sources, continued If you plan to accumulate the VLLW for more than two weeks before you dispose of it tell us why you need the extra time				
5l Give the following details of low-level so	olid waste (other than VLLW) you will accumu	ılate		
Radionuclides	Activity limits	Maximum period		
5m What is the maximum volume of low-lev	el waste you will accumulate at any time?			
Cubic metres				
6 Wasta disposal				
6 Waste disposal				
Note that the guidance for part RSR-B4 is especified below. Tick all relevant boxes:	becially important for this section. This secti	on covers the types of radioactive waste		
Gaseous waste				
Aqueous waste				
Solid waste to be incinerated on the premises				
Organic liquid waste to be incinerated on the	e premises \square			
6a Provide a description of your arrangeme	nts for disposing of radioactive waste by the	e above means		
Document reference				
See guidance notes.				
-				
Discharge of radioactive gas or aqu		te on the premises		
6b Indicate which discharge points or route	s you plan to use			
Tick all relevant boxes:	_			
A chimney				
A fume cupboard vent				
Other gaseous discharge				
An incinerator stack				
A public sewer				
A lake pand or receiver				
A lake, pond or reservoir				
An estuary The sea				
Your own sewage treatment works				
Other aqueous disposal				
6c Provide your assessment of the risk of ra	ப adiation from the waste you plan to dischare	e		
Document reference	, and the second			
DOCUMENT ICICICITE				

Waste disposal, continState the limits you need for d			
Radionuclides	Daily disposal lim	its	Annual disposal limits
	, ,		
6e State the limits you need for d	ischarge of aqueous waste		
Radionuclides		Monthly disposal limi	ts
Disposal of waste by incineration of What type(s) of incinerator do			
6g What will you do if your incined	rator breaks down?		
6h Give the following details of or	rganic liquid waste you will in	ncinerate	
Radionuclides	Daily disposal lim	its	Monthly disposal limits
6i Give the following details of so	olid waste you will incinerate		
Radionuclides	Daily disposal lim	its	Monthly disposal limits

7 Transfer of waste to another person				
This section covers the types of radioactive waste specified below.				
Tick all relevant boxes:				
Organic liquid waste				
Solid waste				
Very low-level waste				
Solid waste for the Low-Level Waste Repository (LLWR) at Drigg				
7a Provide a description of your arrangements for transferring rad	ioactive waste to another person			
Document reference				
See guidance notes.				
Organic liquid and solid wasto				
Organic liquid and solid waste	duveste			
7b Give the following details of your plans to transfer organic liqui	u waste			
Radionuclides	Annual disposal limits			
7c Give the following details of your plans to transfer solid waste	(excluding VLLW)			
Radionuclides	Annual disposal limits (in becquerels)			
7d Confirm whether you have contracts in place for another organ (excluding VLLW)	isation to receive all of your organic liquid and solid waste			
Yes 🗆				
No 🗆				
7e Describe contingency arrangements should your planned trans	sfer routes for organic liquid or solid waste become unavailable			
7f Do you intend to transfer solid waste (excluding VLLW) to a lan	dfill site?			
Yes	unit site.			
No □				
If you do then we will contact you for further details of your proposa	al. See guidance notes.			
Disposal of organic liquid or solid waste by other mea	nns			
7g Describe any other method you intend to use to dispose of liqu	id organic or solid waste			
Attach your description and radiological assessment.				
Document reference				

7 Transfer of waste to another person, continued				
Disposal of very low-level waste				
7h What is the maximum amount of VLLW you plan to dispose				
of in a month with your normal rubbish?	cubic metres			
7i Tell us how you plan to dispose of the VLLW				
It will go to a landfill site under my control A local authority (or their contractor) will collect it				
Another contractor will take it to landfill				
Other				
Give details below; for example, tell us who will accept it and what $% \left(1\right) =\left(1\right) \left(1\right$	they will do with it			
Disposal of solid wastes by transfer for the purposes (LLWR) at Drigg	of final disposal at the Low-Level Waste Repository			
7j Confirm that you have attached a document of agreement from	the site operator to receive your waste			
Confirmed				
Document reference				
7k Will any consignment of waste for the LLWR contain alpha-emit	tting radionuclides in excess of 4 gigabecquerels per tonne or all			
other radionuclides in excess of 12 gigabecquerels per tonne? Yes □				
No 🗆				
71 What is the chemical and physical nature of the waste for the L	LWR?			
Document reference				
7m What is the maximum annual disposal activity (at the time of to	ransfer) for the LLWR for each of the following?			
Radionuclides	Annual activity limit (in becquerels)			
Uranium				
Radium 226 plus thorium 232				
Other alpha-emitters ¹				
Carbon 14				
lodine 129				
Tritium				
Cobalt 60				
Others ²				

¹ 'Other alpha-emitters' in this section means alpha-emitting radionuclides with half-lives greater than three months, excluding uranium, radium 226 and thorium 232. ² 'Others' in this schedule means: beta-emitting radionuclides with half-lives greater than three months, excluding carbon 14, iodine 129 and tritium and any other radionuclides specified in writing by Natural Resources Wales.

8 Receipt of waste				
8a Provide details of the origin, manage and dispose of it	nature and quantity of waste from open sou	rces to be accepted onto the premises, and how you will		
Do not answer this question if the your participation in NAIR or RAD		e from elsewhere is that which may arise as a result of		
Document reference				
9 Use of mobile radioac	tive apparatus in the form of open s	sources		
		edule 23, Part 2, paragraph 5(5)(a) or 5(5)(b).		
9a Fill in the table below with de	etails of the radioactive material that you wil	l use in mobile form		
Radionuclides	Maximum amount ¹	Maximum daily release		
1 This is the total radioactivity of the specific	ed radionuclide to be used for the environmental study.			
9b Where will the mobile radioa	ctive apparatus be used (address or Ordnan	ce Survey map reference if none)?		
Oc. Is it within a Elem radius of a	ny environmentally sensitive site?			
For example, an SSSI, SAC or SPA				
No □	•			
Yes ☐ Please give details				
_ 0				
9d What is the size of the area w	where the radioactivity is to be used?			

9 9e	Use of mobile radioactive apparatus in the form of open sources, continued Which council or unitary authority is the area in?
9f	How long will the source be used for?
9g	Give the frequency of use over the period
9h No Yes	
9i	What measures will be in place to avoid human or animal contact with the radioactive materials when being used?
9j env	Provide your assessment of the risk of radiation from the use of mobile radioactive apparatus to release radioactivity to the vironment
Dod	cument reference
Nov	w fill in part RSR-F.
	How to contact us ou need help filling in this form, please contact the person who sent it to you or contact us as shown below. one: 0300 065 3000

Email: RSRpermitting@naturalresourceswales.gov.uk Website: www.naturalresourceswales.gov.uk

Feedback			
(You don't have to answer this part of the form, but it wil	ll help us improve our forms	if you do.)	
We want to make our forms easy to fill in and our guidan comments you may have about this form or the guidance		d. Please use the space below to	give us any
How long did it take you to fill in this form?			
We will use your feedback to improve our forms and guid	dance notes, and to tell the	Government how regulations cou	ıld be
made simpler.			
Would you like a reply to your feedback?			
Yes please			
No thank you			