

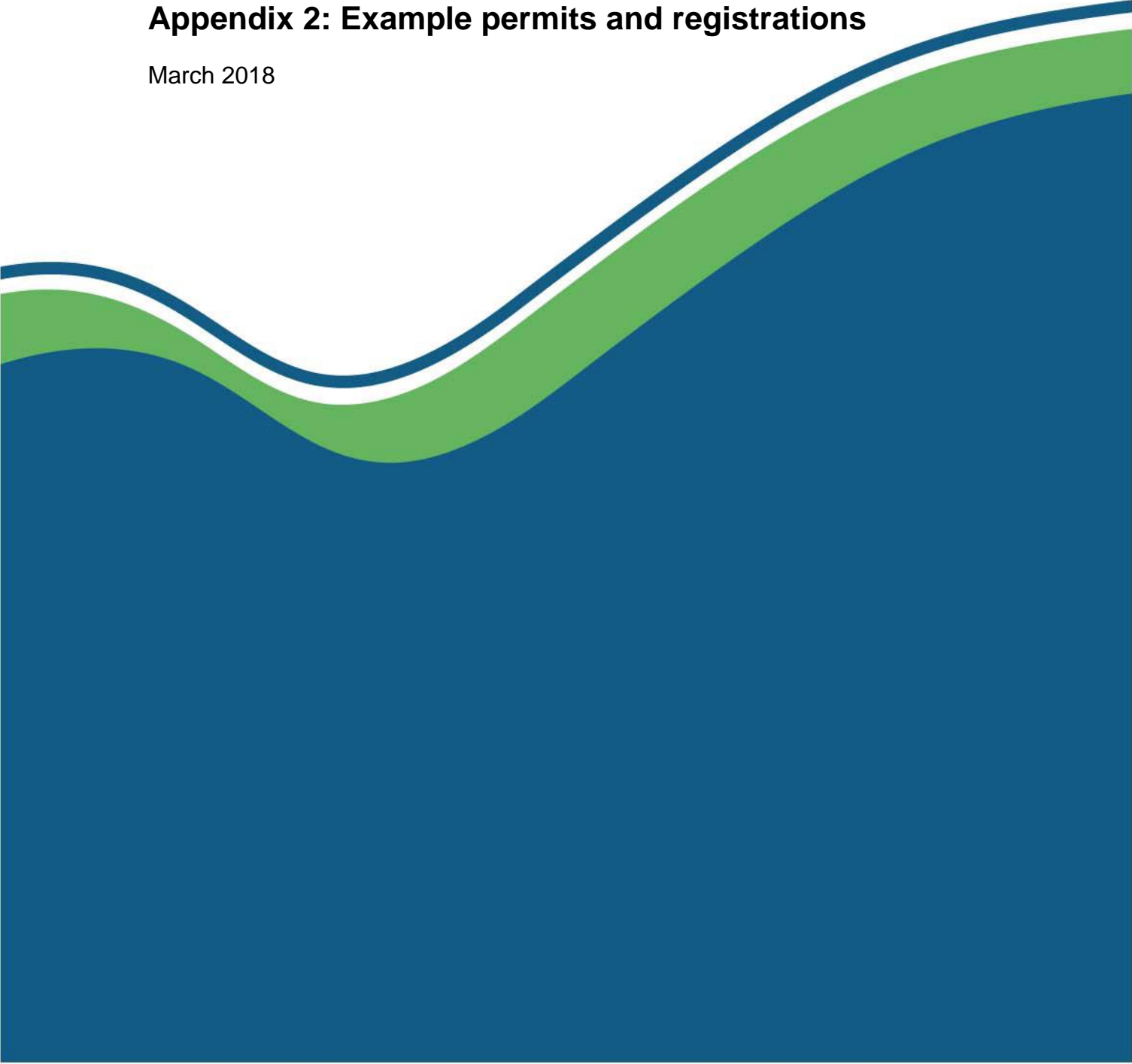
Better Environmental Regulation Programme

Environmental Authorisations (Scotland) Regulations 2018

Consultation on draft Standard Conditions for radioactive substances authorisations

Appendix 2: Example permits and registrations

March 2018

A decorative graphic at the bottom of the page consists of a dark blue background with a wavy, layered design. The design features a dark blue base, a light green layer on top, and a thin white line separating the green layer from the dark blue top layer. The overall shape is a smooth, undulating curve that rises from left to right.

Appendix 2: Example Permits & Registrations

SEPA is in the process of finalising the template for permits and registrations under EASR18. In order to give you an idea of how the proposed standard conditions will work in practice, we have included a number of examples covering the most common types of authorisations.

Please note that since SEPA is still finalising the templates to be used, the style, language and wording are subject to change.

The example authorisations are in the following order:

1. Nuclear Permit for an operational power station
2. Non-Nuclear Permit for a hospital
3. Mobile High-activity Sealed Source (HASS) Permit
4. Offshore Registration

1. Nuclear Permit for an operational power station

ENVIRONMENTAL PERMIT TO MANAGE RADIOACTIVE WASTE

Authorised Person

Name: UK Nuclear Energy Generation Limited
Registered Office: Radionuclide House, Simpson Way, London SW19 2LL
Registered No: 0101010

1. Authorised Activities

1.1 You are authorised to manage radioactive waste, subject to the limitations and conditions set out in this authorisation and all applicable Standard Conditions.

2. Authorised Place

2.1 You are authorised to carry out your authorised activity at:

South of Scotland Power Station
Anytown
Scotland
XX1 2YY

3. Standard Conditions

3.1 The conditions specified in section A, B, C, G, H and J of the Standard Conditions are applicable to your Permit.

4. Bespoke conditions

4.1 You are authorised to discharge to the environment the radioactive wastes described in column 1 of table 1.

4.2 You must only discharge radioactive aqueous waste to the environment:

4.2.1 When the nominal flow of cooling water is no less than 7m³/s;

4.2.2 When the cooling water is discharging to the sea at National Grid Reference XX 123 456; and

4.2.3 During the interval commencing one hour after high-tide and ending one hour before low tide.

4.3 You are authorised to receive low level radioactive waste from North of Scotland Power Station only for the purpose of consolidation and onward shipment.

4.4 Any low level radioactive waste received from North of Scotland power station must be transferred off the authorised place within 6 months of receipt.

5. Effective Date

5.1 The effective date of this permit is 1 April 2019.

Table 1

Description of Authorised Radioactive Waste	Specified disposal routes	Authorised discharge limits		Weekly Advisory Level (GBq)
		Radionuclides or Group of Radionuclides	Annual Activity Limit (GBq)	
Gaseous	Authorised Gaseous Disposal Outlets specified in Table 2	Tritium	15000	1500
		Carbon-14	4500	450
		Sulphur-35	500	50
		Argon-41	150000	Not specified
		Iodine-131	2	Not specified
		Beta emitting radionuclides associated with particulate matter	0.5	Not specified
Aqueous	System provided for the collection, conveyance and discharge or radioactive aqueous waste to the siphon seal pit at National Grid Reference XX 123 456	Tritium	700000	Not specified
		Sulphur-35	6000	Not specified
		Cobalt-60	10	Not specified
		Alpha emitting radionuclides	1	Not specified
		Any non-alpha emitting radionuclides taken together excluding those listed individually in this table.	150	Not specified

Table 2

Authorised Gaseous Outlet	Height Above Ground Level (m)
Reactor Main Blowdown System	67
Auxiliary CO ₂ Blowdown System	46
Charge Machine Emergency Cooling Contaminated Ventilation	67
Central Contaminated Ventilation- East	67
Central Contaminated Ventilation- West	67
Pond Contaminated ventilation System- East	67
Pond Contaminated ventilation System- West	67
Reactor 3 Pile-cap Interspace Contaminated Ventilation	67
Reactor 4 Pile-cap Interspace Contaminated Ventilation	67
IFD Cell 2 Contamination Ventilation	67
Low Level Waste Facility Contaminated Ventilation	13
Active Laundry Contaminated Ventilation System	10
Radiochemistry Laboratory Fume Cupboard System	67
Instrument Calibration Facility Source Store Roof Fan Ventilation System	7
Gas Circulator Workshop Contamination Ventilation System	6, 3 and 12
Heavy Decontamination Centre Contaminated Ventilation System	5
Metallurgy Laboratory Fume Cupboard System	3
Reactor 3 Pressure Vessel Relief Valves	67
Reactor 4 Pressure Vessel Relief Valves	67

2. Non-Nuclear Permit for a hospital

ENVIRONMENTAL PERMIT TO MANAGE RADIOACTIVE SUBSTANCES

Authorised Person

Name: NHS Central Belt Health Board
Registered Office: 1 Hospital Street, Stirling FK9 0HS

1. Authorised Activities

- 1.1 You are authorised to keep and use radioactive material and manage radioactive waste, subject to the limitations and conditions set out in this authorisation and all applicable Standard Conditions.

2. Authorised Place

- 2.1 You are authorised to carry out your authorised activity at:

Stirling Royal Hospital
Bruce Road
Stirling
FK9 3SG

3. Standard Conditions

- 3.1 The conditions specified in section A, B, C, G, H and I of the Standard Conditions are applicable to your permit.

4. Bespoke Conditions

- 4.1 You are authorised to keep and use the radioactive material described in column 1 of Table 1.
- 4.2 You are authorised to discharge to the environment the radioactive wastes described in column 1 of Table 2.

5. Effective Date

- 5.1 The effective date of this authorisation is 1 April 2019.

Table 1

Column 1	Column 2	Column 3
Authorised radionuclides	Maximum quantity of radioactivity of each radionuclides in all of the authorised radionuclides (MBq)	Purpose for which the authorised radionuclides are to be kept or used
Technetium-99m	8000	Medical diagnosis, treatment and research
Iodine-131	2500	Medical diagnosis, treatment and research

Table 2

Column 1	Column 2	Column 3	
Description of authorised radioactive waste	Specified disposal routes	Authorised discharge limits	
		Radionuclides or groups of radionuclides	Monthly activity limit (MBq)
Liquid	Normal foul drainage to the sewer	Technetium-99m	1000

3. Mobile High-activity Sealed Source (HASS) Permit

ENVIRONMENTAL PERMIT TO MANAGE SEALED RADIOACTIVE SOURCES

Authorised Person

Name: Joe Bloggs Testing Limited
Registered Office: 123 Main Street, Brigadoon
Registered No: XYZ 456789.

1. Authorised Activities

1.1 You are authorised to manage sealed radioactive sources, subject to the limitations and conditions set out in this authorisation and all applicable Standard Conditions

2. Authorised Place

2.1 You are authorised to carry out your authorised activity at any location within Scotland.

3. Standard Conditions

3.1 The conditions specified in section A, B, C, D, E and F of the Standard Conditions are applicable to your authorisation

4. Bespoke Conditions

4.1 The only types of HASS sources that you are authorised to manage are described the rows of table 1.

4.2 You must only use the HASS sources for the purposes described in Table 1.

Table 1

Radionuclide content	Maximum activity in each HASS	The maximum activity in all HASS	Purposes for which each HASS source may be used
Cobalt-60	15 GBq	15 GBq	Non-destructive testing

5. Effective Date

5.1 The effective date of this permit is 1 April 2019.

4. Offshore Registration

ENVIRONMENTAL REGISTRATION TO MANAGE RADIOACTIVE SUBSTANCES

Authorised Person

Name: Offshore Oil Limited
Registered Office: 27-28 Westminster Street, London, W1W 8DH
Registered No: SC001111

1. Authorised Activities

- 1.1 You are authorised to keep and use radioactive material and manage radioactive waste, subject to the limitations and conditions set out in this authorisation and all applicable Standard Conditions.

2. Authorised Place

- 2.1 You are authorised to carry out your authorised activity at the Penguin Alpha installation located in block number 10/19 of the Scottish area and any wells or tie-backs directly linked to the installation.

3. Standard Conditions

- 3.1 The conditions specified in sections A, B, C, G and K of the Standard Conditions are applicable to your registration.

4. Bespoke Conditions

- 4.1 No Bespoke Conditions have been specified.

5. Effective Date

- 5.1 The effective date of this authorisation is 1 April 2019.