

**SCOTTISH ENVIRONMENT PROTECTION AGENCY**

**ENVIRONMENTAL AUTHORISATIONS (SCOTLAND) REGULATIONS 2018**

The Scottish Environment Protection Agency grants this permit in exercise of its powers under Regulation 23 of the Environmental Authorisations (Scotland) Regulations 2018. The terms used in this permit, unless otherwise specified, are the same as in the Environmental Authorisations (Scotland) Regulations 2018 and in the standard conditions for radioactive substances activities.

<b>Authorisation Type</b>		<b>Permit</b>
<b>Permit reference</b>		<b>EAS/P/1173596</b>
<b>Authorised Person</b>	<b>Name</b>	EDF Energy Nuclear Generation Limited
	<b>Registered Office</b>	Barnett Way, Barnwood, Gloucester, GL4 3RS
	<b>Company Number</b>	03076445
<b>Authorised Activities</b>		The management of radioactive substances
<b>Authorised Place</b>		The place delineated in red on the Site Plan forming schedule 2 to this authorisation and having postal address: <b>Hunterston B Power Station, West Kilbride, Ayrshire, KA23 9QJ</b>
<b>Conditions to which this permit is subject</b>		The conditions in sections A, B, C, G, H and J of the standard conditions for radioactive substances activities.  The conditions in schedule 1 of this permit.
<b>Effective Date</b>		01/04/2019
<b>Date permit ceases to have effect</b>		Until surrender or revocation

[Redacted Signature]

Date: 22 March 2019

Authorised to sign on behalf of the  
 Scottish Environment Protection Agency

## **SCHEDULE 1 – Conditions Specific to this Authorisation**

### **1. Receipt of radioactive waste**

- 1.1 You are authorised to receive Low Level Waste from Torness Power Station.
- 1.2 You must transfer from the authorised place any Low Level Waste transferred from Torness Power Station to the authorised place no later than 6 months after it leaves Torness Power Station.

### **2. Authorised disposals**

- 2.1 You are authorised to dispose of the radioactive wastes described in column 1 of Table 1 by the disposal route specified in column 2 of the same row of Table 1.

### **3. Manner of aqueous radioactive waste disposals**

- 3.1 You must ensure that aqueous radioactive waste is only discharged:
  - a. when the nominal flow of cooling water is no less than 7m<sup>3</sup>/s;
  - b. when the cooling water is discharging to the Firth of Clyde at National Grid Reference NS 1773 5176; and
  - c. during the interval commencing one hour after high-tide and ending one hour before low tide.

### **4. Discharges exceeding or likely to exceed a Weekly Advisory Level**

- 4.1 If, in any week, the activity in gaseous waste of any radionuclide or group of radionuclides specified in Table 2 exceeds, or is likely to exceed, the relevant Weekly Advisory Level (where specified) in that table, you must:
  - a. without delay, inform SEPA and the Food Standards Scotland; and
  - b. as soon as reasonably practicable, advise SEPA and the Food Standards Scotland of the circumstances leading to the release and the possible impact of any deposition of radioactivity on pasture or crops in the vicinity of the authorised place, including any measurements made.

### **5. Additional information requirements**

- 5.1 For each calendar year, you must provide SEPA with a full report of your efforts to reduce gaseous, aqueous, waste oil disposals and Low Level Waste and Intermediate Level Waste transfers from the authorised place, having regard to standard conditions in sections B.2.1, G.1.4 and G.1.5 not later than 31 March of the next calendar year.

**Table 1 Authorised Disposals**

Description of authorised radioactive waste	Specified disposal routes	Authorised discharge limits	
		Radionuclides or groups of radionuclides	Annual activity limit (GBq)
Gaseous other than from the incineration of radioactive waste oil	Gaseous Disposal Outlets specified in Table 3	Tritium	15,000
		Carbon-14	4500
		Sulphur-35	500
		Argon-41	150,000
		Iodine-131	2
		Beta emitting radionuclides associated with particulate matter	0.5
Gaseous waste arising from the incineration of radioactive waste oil	Waste oil burner located at National Grid Reference NS 1864 5153 with stack discharging 14 metres above ground level	Tritium	3
		Carbon-14 and Sulphur-35	1
		Any non-alpha emitting radionuclides taken together excluding those listed individually in this table	0.8
		Alpha emitting radionuclides	0.02
Aqueous	Siphon seal pit at National Grid Reference NS 1845 5158  Minor routes for aqueous waste which it is not reasonably practicable to discharge via the siphon seal pit	Tritium	700,000
		Sulphur-35	6000
		Cobalt-60	10
		Alpha emitting radionuclides	1
		Any non-alpha emitting radionuclides taken together excluding those listed individually in this table	150

**Table 2 Gaseous Weekly Advisory Levels**

Radionuclides or Group of Radionuclides	Weekly Advisory Level (GBq)
Tritium	1500
Carbon-14	450
Sulphur-35	50

**Table 3 Authorised gaseous outlets**

Name of authorised gaseous outlet (all in place at the date of this permit unless otherwise stated)	Height Above Ground Level (m)
Reactor main blowdown system	67
Auxiliary CO <sub>2</sub> blowdown system	46
Charge machine emergency cooling contaminated ventilation	67
Central contaminated ventilation- east	67
Central contaminated ventilation- west	67
Pond contaminated ventilation- east	67
Pond contaminated ventilation- west	67
Reactor 3 pile-cap interspace contaminated ventilation	67
Reactor 4 pile-cap interspace contaminated ventilation	67
IFD cell 2 contaminated 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 contamination ventilation system	5
Metallurgy laboratory fume cupboard system	3
Reactor 3 pressure vessel relief valves	67
Reactor 4 pressure vessel relief valves	67

## SCHEDULE 2- Site Plan

**KEY**  
LICENCED SITE  
BOUNDARY  
GREEN AREAS –  
BUILDINGS  
DARK BROWN  
AREAS –  
CONCRETED  
AREAS/ROADWAYS  
OTHER AREAS –  
GRASS

### B Station showing licensed site boundary

(Taken from Drawing C24/60500/BEG/328880)



