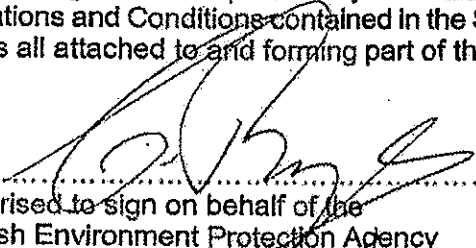


RSA/A/079

**SCOTTISH ENVIRONMENT PROTECTION AGENCY**  
**RADIOACTIVE SUBSTANCES ACT 1993 (AS AMENDED) ("the Act")**  
**CERTIFICATE OF AUTHORISATION UNDER SECTION 13**

**CERTIFICATE NO** : RSA/A/0070116  
**NAME** : British Energy Generation Limited  
**ADDRESS** : Barnet Way  
Barnwood  
Gloucester  
GL4 3RS

The Scottish Environment Protection Agency, in accordance with Section 13(1) of the Act hereby authorises British Energy Generation Limited, company registration number 03076445 (the "Authorisation Holder") to dispose of radioactive waste on or from Torness Power Station, Dunbar, East Lothian, EH42 1QS, more particularly described in Schedule 1 (the "Authorised Premises") of this Authorisation for the purposes of its Undertaking as more particularly described in said Schedule 1 all subject to the Limitations and Conditions contained in the Schedules 1 to 10 and to the Interpretation of Terms all attached to and forming part of this Authorisation.

  
.....  
Authorised to sign on behalf of the  
Scottish Environment Protection Agency

Date: 1 May 2007

Effective date of Authorisation: 1 June 2007

Under Section 26(1) of the Act you have a right of appeal to the Scottish Ministers against any of the conditions attached providing they have not been applied as a result of a Direction to the Scottish Environment Protection Agency from the Scottish Ministers. The procedures to be followed in the event of an appeal are set out in the Radioactive Substances (Appeals) Regulations 1990. Any appeal must be made within 2 months of the date of this Authorisation.



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## INTERPRETATION OF TERMS

(1) In this Authorisation:

Except where otherwise specified, words and expressions defined in the Radioactive Substances Act 1993 shall have the same meanings when used in this Authorisation as they have in that Act;

"the Act" means The Radioactive Substances Act 1993 as amended;

"activity", expressed in becquerels, means the number of spontaneous nuclear transformations occurring in a period of one second;

"aqueous waste" means radioactive waste in the form of a continuous aqueous phase together with any entrained solids, gases and non-aqueous liquids;

"Authorisation" means an Authorisation issued under the Radioactive Substances Act 1993 or the Radioactive Substances Act 1960;

"Authorised Person" means a person who is authorised in writing by SEPA under Section 108 of the Environment Act 1995 to exercise the powers specified in that Section;

"the Authorised Premises" are the premises defined in Schedule 1;

"best practicable environmental option" means the radioactive waste management option, for a given practice, that provides the most benefit or least damage to the environment as a whole in the long term as well as in the short term, taking into account operational doses and risks, and social and economic factors.

"Bq", "kBq", "MBq", "GBq", "TBq" and "PBq" are used as abbreviations meaning becquerel, kilobecquerel, megabecquerel, gigabecquerel, terabecquerel and petabecquerel respectively;

"calendar year" means a period of 12 consecutive months beginning on 1 January;

"consignment" means an individual shipment of radioactive waste not greater in volume than 40 cubic metres or such lesser volume as specified in writing by SEPA;

"decommissioning" means the process whereby a facility, at the end of its economic life, is taken permanently out of service and its site made available for other purposes and includes any remediation carried out by the Authorisation Holder in the locality of the Authorised Premises;

"environment" means all, or any, of the media of air, water (to include sewers and drains) and land;

"Environmental Operating Rule" means a mandatory restriction on operation, established by the Authorisation Holder, which is necessary to ensure compliance with this Authorisation;

"gaseous waste" means radioactive waste in the form of gases and associated mists and particulate matter;

"LLWR" means the Low Level Waste Repository at Drigg in Cumbria.

"LLWR Waste" means solid radioactive waste, including any immediate package, intended by the Authorisation Holder for final disposal at Low Level Waste Repository site at LLWR;

"Low Level Waste Repository Site Operator" means the current holder of the license issued under the Nuclear Installations Act 1965 for the Low Level Waste Repository at LLWR at Drigg in Cumbria;

"maintenance instructions" means instructions, established by the Authorisation Holder, for carrying out any maintenance that may have an effect on compliance with this Authorisation;

"maintenance schedule" means a programme, established by the Authorisation Holder, for maintenance of all systems and equipment that contribute to achieving compliance with this Authorisation;

"month" means calendar month (i.e. 1-31 January, 1-28/29 February, 1-31 March, etc);

"operating instructions" means instructions, established by the Authorisation Holder, for carrying out any operation that may have an effect on compliance with this Authorisation;

"organic liquid waste" means radioactive waste in the form of liquid, not being aqueous waste, containing one or more organic chemical compounds;

"package" includes any sack, drum, container or wrapping;

"Qualified Expert" means a person or persons having the knowledge and training necessary to advise the Authorisation Holder on the principles of health protection of the population in the area of radiation protection and in particular for the Authorisation Holder to carry out the following tasks with regard to the disposal of radioactive waste under this Authorisation:

- a) achieving and maintaining an optimal level of protection of the environment and the population;
- b) checking the effectiveness of technical devices for protecting the environment and the population;
- c) acceptance into service, from the point of view of surveillance of radiation protection, of equipment and procedures for measuring and assessing, as appropriate, exposure and radioactive contamination of the environment and the population;
- d) regular calibration of measuring instruments and regular checking that they are serviceable and correctly used;

whose capacity to act as a Qualified Expert with respect to the provisions of this Authorisation is recognised by SEPA.

"quarter" means any period of three consecutive months;

"samples" includes samples that have been prepared or treated to enable measurements of activity to be made;

"Schedule" means a Schedule forming part of this Authorisation;

"Sellafield Site Operator" means the current holder of the licence issued under the Nuclear Installations Act 1965 for the Sellafield Site;

"SEPA" means the Scottish Environment Protection Agency;

"Site Plan" means the map attached at Schedule 11, Appendix 1;

"the Undertaking" means the undertaking defined in Schedule 1;

"week" and any derived words (e.g. monthly, quarterly) shall be interpreted accordingly, means a period of 7 consecutive days commencing at a day and time to be notified in writing to SEPA by the Authorisation Holder at 01 June 2007 before any disposal of radioactive waste is made under the terms of this Authorisation, any subsequent change being notified in writing to SEPA at least 7 days in advance;

"Winfrith Site Operator" means the current holder of the license issued under the Nuclear Installations Act 1965 for the Winfrith Site;

"year" means any period of 12 consecutive months;

(2)(a) In this Authorisation the Interpretation Act 1978 shall apply as it does to an Act of Parliament and in particular words in the singular include the plural and words in the plural include the singular.

(b) Any reference to a numbered Condition, Limitation, Schedule, Table, Appendix, Figure or Paragraph is a reference to a numbered Condition, Limitation, Schedule, Table, Appendix, Figure or Paragraph in this Authorisation;

(c) Except where otherwise specified in this Authorisation, and reference to an enactment or statutory instrument includes a reference to it as amended (whether before or after the date of this Authorisation) and to any other enactment, which may, after the date of this Authorisation, directly or indirectly replace it, with or without amendment.

(3)(a) In determining whether particular means are the "best practicable" for the purposes of this Authorisation, the Authorisation Holder shall not be required to incur expenditure whether in money, time or trouble which is, or is likely to be, grossly disproportionate to the benefits to be derived from, or likely to be derived from, or the efficacy of, or likely efficacy of, employing them, the benefits or results produced being, or likely to be, insignificant in relation to the expenditure.

(b) Where reference is made to the use of "best practicable means" in this Authorisation, the means to be employed shall include:

(i) the provision, maintenance and manner of operation of any relevant plant, machinery or equipment;

(ii) the supervision of any relevant operation.

(4) Where reference is made to radiological effects on the environment in this Authorisation it includes the effects on any living organism supported by the environment.

**1. LIMITATIONS AND CONDITIONS RELATING TO THE AUTHORISED PREMISES AND THE UNDERTAKING**

**1.1 Description of Undertaking**

1.1.1 The Undertaking is the generation of electricity from two Advanced Gas-cooled Reactors.

**1.2 The Authorised Premises**

1.2.1 The Authorised Premises are as shown delineated in red on the Site Plan forming Appendix 1 of this Authorisation and at the date of this Authorisation having postal address Torness Power Station, Dunbar, East Lothian, EH42 1QS.



## **2. GENERAL LIMITATIONS AND CONDITIONS**

### **2.1 Disposal**

- 2.1.1 The Authorisation Holder shall use the best practicable means to minimise the total radioactivity in radioactive waste produced that will require disposal under this Authorisation.
- 2.1.2 For each of the relevant waste types and disposal routes specified in Table 3.1 in Schedule 3, the Authorisation Holder shall use the best practicable means to:
  - 2.1.2.1 minimise the radioactivity of gaseous and aqueous radioactive waste disposed of by discharge to the environment; and
  - 2.1.2.2 minimise the volume of radioactive waste disposed of by transfer to other premises; and
  - 2.1.2.3 dispose of radioactive waste at times, in a form, and in a manner so as to minimise the radiological effects on the environment and members of the public.
- 2.1.3 The Authorisation Holder shall maintain in good repair the systems and equipment provided:
  - 2.1.3.1 to meet the requirements of paragraphs 2.1.1 and 2.1.2 in this Schedule; and
  - 2.1.3.2 for the disposal of radioactive waste under this Authorisation.
- 2.1.4 The Authorisation Holder shall check, at an appropriate frequency, the effectiveness of systems, equipment and procedures provided:
  - 2.1.4.1 to meet the requirements of paragraphs 2.1.1 and 2.1.2 in this Schedule; and
  - 2.1.4.2 for the disposal of radioactive waste under this Authorisation.

### **2.2 Management**

- 2.2.1 The Authorisation Holder shall have a management system, organisational structure, procedures and resources which are sufficient to achieve compliance with the limitations and conditions of this Authorisation and which include, without restricting the generality of the requirement under paragraph 2.2.1.
  - 2.2.1.1 written arrangements specifying how the Authorisation Holder will achieve compliance with each limitation and condition of this Authorisation, to include arrangements for control of modifications to the design and operation of systems and equipment;
  - 2.2.1.2 provision for appointment of and consultation with such suitable Qualified Expert as is necessary for the purpose of advising the Authorisation Holder as to compliance with the relevant limitations and conditions of this Authorisation and, in particular, on matters addressed in paragraphs 2.1.1, 2.1.2, 2.1.4, 2.3.5 and 2.3.6 in this Schedule;
  - 2.2.1.3 written Environmental Operating Rules and operating instructions;

- 2.2.1.4 a written maintenance schedule and instructions;
- 2.2.1.5 adequate supervision of the disposal of radioactive waste by suitably qualified and experienced persons, whose names shall be clearly displayed with each copy of this Authorisation that is posted on the Authorised Premises as required by Section 19 of the Act;
- 2.2.1.6 adequate supervision by suitably qualified and experienced persons of the operation and maintenance of the systems and equipment provided to meet the requirements of paragraphs 2.1.1 and 2.1.2 in this Schedule and for the disposal of radioactive waste;
- 2.2.1.7 internal audit and review of the Authorisation Holder's management system.
- 2.2.2 The Authorisation Holder shall inform SEPA in writing by 01 June 2007 or such shorter period agreed by SEPA before the first disposal of radioactive waste is made under the terms of this Authorisation, of the organisational structure and resources, together with the whole management system or such parts of the management system as SEPA specifies in writing, provided to achieve compliance with the limitations and conditions of this Authorisation.
- 2.2.3 The Authorisation Holder shall inform SEPA, at least 28 days in advance or, where this is not possible, without delay, of any change in the management system, organisational structure or resources, which might have, or might reasonably be seen to have, a significant impact on how compliance with the limitations and conditions of this Authorisation is achieved.
- 2.3 Sampling, measurements, tests, surveys and calculations**
- 2.3.1 The Authorisation Holder shall take samples and conduct measurements, tests, surveys, analyses and calculations to determine its compliance with the limitations and conditions of this Authorisation.
- 2.3.2 The Authorisation Holder shall undertake a programme to monitor the levels of radioactivity and ionising radiation in the environment and food caused by the disposal of radioactive waste on or from the premises by taking such samples, conducting such measurements, tests, surveys, analyses and calculations, including environmental measurements and assessments, as are necessary to continuously assess the effectiveness of the measures taken by the Authorisation Holder to comply with paragraphs 2.1.1, 2.1.2, 2.1.3 and 2.1.4 of this Authorisation.
- 2.3.3 The Authorisation Holder shall inform SEPA in writing by 01 June 2007 or such shorter period agreed by SEPA before the first disposal of radioactive waste is made under the terms of this Authorisation, of the programme being undertaken to satisfy paragraph 2.3.1 of this Authorisation.
- 2.3.4 The Authorisation Holder shall inform SEPA, at least 28 days in advance or, where this is not possible, without delay, of any change in the programme being undertaken to satisfy paragraph 2.3.1 of this Authorisation.

- 2.3.5 The Authorisation Holder, not later than 90 days after the end of each 3 month period or within such longer period as SEPA may approve in writing, shall in respect of the programme being undertaken to satisfy paragraph 2.3.2 of this Authorisation provide to SEPA in writing the results of the said programme and a report assessing the results in respect of the radiation exposure of humans and trends in radioactivity concentration in the environment.
- 2.3.6 The Authorisation Holder shall use the best practicable means when taking samples and conducting measurements, tests, surveys, analyses and calculations to determine its compliance with the limitations and conditions of this Authorisation, unless particular means are specified in this Authorisation.
- 2.3.7 The Authorisation Holder shall, unless agreed otherwise by SEPA in writing, keep any non-gaseous sample or a sub sample taken as a requirement of paragraphs 2.3.1 and 2.3.2 of this Authorisation for a minimum period of six months from the date of sampling and in sufficient quantity that the analysis carried out by the Authorisation Holder can be repeated, and shall provide any of the samples or sub samples, on request, to an Authorised Person or to such other person as an Authorised Person specifies; and if required by SEPA dispatch samples for tests at a laboratory and ensure that the samples or residues thereof are collected from the laboratory within three months of receiving written notification that testing and repackaging in accordance with the appropriate transport regulations are complete.
- 2.3.8 The Authorisation Holder shall provide and at all times maintain in good repair systems and equipment for:
- 2.3.8.1 carrying out any monitoring and measurements necessary to determine compliance with the limitations and conditions of this Authorisation; and
- 2.3.8.2 measuring and assessing exposure of members of the public and radioactive contamination of the environment.
- 2.3.9 The Authorisation Holder shall have and comply with appropriate criteria for the acceptance into service of systems, equipment and procedures for:
- 2.3.9.1 carrying out any monitoring and measurements necessary to determine compliance with the limitations and conditions of this Authorisation; and
- 2.3.9.2 measuring and assessing exposure of members of the public and radioactive contamination of the environment.
- 2.3.10 The Authorisation Holder shall carry out:
- 2.3.10.1 regular calibration, at an appropriate frequency, of systems and equipment provided for:
- 2.3.10.1.1 carrying out any monitoring and measurements necessary to determine compliance with the limitations and conditions of this Authorisation; and
- 2.3.10.1.2 measuring and assessing exposure of members of the public and radioactive contamination of the environment;
- 2.3.10.2 regular checking, at an appropriate frequency, that such systems and equipment are serviceable, accurate and effective and correctly used at all times.

## **2.4 Records**

**2.4.1** The Authorisation Holder shall, subject to paragraph 2.4.5:

**2.4.1.1** make and retain true, accurate and legible records sufficient to demonstrate whether the limitations and conditions of this Authorisation are and have been complied with; and

**2.4.1.2** retain all records made in accordance with all previous Authorisations issued to the Authorisation Holder and related to the Authorised Premises covered by this Authorisation; and

**2.4.2** retain all records transferred to the Authorisation Holder by all predecessor Authorisation Holders which were made in accordance with any previous Authorisation related to the Authorised Premises covered by this Authorisation.

**2.4.3** The Authorisation Holder, not later than 28 days after the end of each month or within such longer period as SEPA may approve in writing, shall in respect of all disposals of radioactive waste to which this Authorisation applies made during that month:

**2.4.3.1** make a record of each measurement, analysis, test, survey and calculation conducted for the purpose of this Authorisation in relation to those disposals; and

**2.4.3.2** make a record which shows clearly, accurately and legibly:

**2.4.3.2.1** the type of radioactive waste and its disposal route; and

**2.4.3.2.2** the name of each radionuclide or group of radionuclides, specified in the relevant Table in the relevant Schedule, which is present in the radioactive waste; and

**2.4.3.2.3** the total activity of each such radionuclide or group of radionuclides; and

**2.4.3.2.4** for aqueous waste, the activity of each such radionuclide or group of radionuclides per cubic metre of the radioactive waste, unless otherwise agreed in writing by SEPA beforehand; and

**2.4.3.2.5** for aqueous waste, the total volume in cubic metres, unless otherwise agreed in writing by SEPA beforehand; and

**2.4.3.2.6** for gaseous waste, the total mass in tonnes; and

**2.4.3.2.7** for LLWR waste, the activity of each such radionuclide or group of radionuclides per tonne of the waste, unless otherwise agreed in writing by SEPA; and

**2.4.3.2.8** for LLWR waste, the total mass in tonnes; and

**2.4.3.2.9** the date and time on which or period during which the disposal took place.

**2.4.4** If the Authorisation Holder amends any record made in accordance with this Authorisation the Authorisation Holder shall ensure that the original entry remains clear and legible.

- 2.4.5 The Authorisation Holder shall at all times keep the records referred to in paragraph 2.4.2 in this Schedule in paper form, unless otherwise agreed in writing with SEPA beforehand on the Authorised Premises at a location notified to SEPA.
- 2.4.6 The Authorisation Holder shall retain the records referred to in paragraphs 2.4.1 and 2.4.2 in this Schedule until notified in writing by SEPA that the records no longer need to be retained and these records shall without delay be provided, on request, to an Authorised Person.
- 2.5 Provision of information**
- 2.5.1 The Authorisation Holder shall supply to SEPA such information in such format and within such time as specified in Schedule 9 of this Authorisation and other such information to determine the efficacy of this Authorisation as SEPA may periodically specify in writing.
- 2.5.2 The Authorisation Holder shall inform SEPA in writing by 01 June 2007 before the first disposal of radioactive waste is made under the terms of this Authorisation, of the techniques being employed to determine the activity of radioactive waste disposals and shall inform SEPA in writing in advance of any modifications to those techniques.
- 2.5.3 The Authorisation Holder shall inform SEPA without delay if the Authorisation Holder has reason to believe that disposal of radioactive waste is occurring, has occurred or might occur which does not comply with the limitations and conditions of this Authorisation, and shall report the circumstances in writing to SEPA as soon as practicable thereafter.
- 2.5.4 The Authorisation Holder shall notify in writing to the address specified by SEPA the name of any appointed Qualified Expert within 21 days of the effective date of this Authorisation and at the same time submit to SEPA the information that the Authorisation Holder evaluated in making the appointment. Should the appointed Qualified Expert change the Authorisation Holder shall notify SEPA of the name of any replacement Qualified Expert, in writing, at the address specified by SEPA, at least 21 days prior to the appointment of the replacement Qualified Expert, or as soon as is reasonably practicable, and at the same time submit to SEPA the information that the Authorisation Holder evaluated in making the new appointment.
- 2.6 Improvements**
- 2.6.1 The Authorisation Holder shall carry out the improvements specified in Schedule 10 of this Authorisation and within such times as specified in Schedule 10.

### 3. RADIOACTIVE WASTE TYPES AUTHORISED FOR DISPOSAL AND AUTHORISED DISPOSAL ROUTES

#### 3.1 Disposal of radioactive waste

3.1.1 Subject to paragraph 3.2.1 in this Schedule, the Authorisation Holder is authorised to dispose only of the types of radioactive waste arising from the Undertaking at the Authorised Premises, only of the types of radioactive waste identified in Table 3.1 in this Schedule, and only by the relevant disposal routes specified in Table 3.1.

#### 3.2 National Arrangements for Incidents Involving Radioactivity (NAIR)

3.2.1 The Authorisation Holder may dispose of radioactive waste, not being waste otherwise authorised to be disposed of, which is collected as a result of the user's participation in the National Arrangements for Incidents Involving Radioactivity provided that the Authorisation Holder:

3.2.1.1 transfers the waste to a person whom SEPA has agreed in writing may receive that waste; and

3.2.1.2 as soon as practicable provides all available details in writing of the nature of the radioactive waste, the radionuclides present, their activities and the manner and date of disposal.

Table 3.1

Radioactive Waste Type	Disposal Route
Gaseous Waste	Discharge to the environment
Aqueous Waste	Discharge to the environment
Solid Combustible and Organic Liquid Combustible Waste	Transfer to the holder of an authorisation to dispose of radioactive waste under Section 13 of the Act by burning at the incinerator at Charleston Road, Hardley, Hythe, Southampton, Hampshire S045 3ZA for disposal in that incinerator by burning
LLWR Waste	Transfer to the Sellafield Site Operator for the purpose of treatment prior to transfer to the Low Level Waste Repository Site Operator for final disposal
	Transfer to the Low Level Waste Repository Site Operator for the purpose of final disposal
LLWR Waste, Sludges, Resins and Spent Sand Filter Media	Transfer to the Winfrith Site Operator for the purpose of treatment prior to transfer to the Low Level Waste Repository Site Operator for the purpose of final disposal

- 4. LIMITATIONS AND CONDITIONS RELATING TO DISPOSAL OF RADIOACTIVE GASEOUS WASTE BY DISCHARGE TO THE ENVIRONMENT**
- 4.1 Discharge of radioactive gaseous waste**
- 4.1.1** The Authorisation Holder shall discharge radioactive gaseous waste to the environment only by means of the outlets identified in Table 4.1 in this Schedule.
- 4.1.2** The Authorisation Holder shall not in any year discharge gaseous waste in which the activity of any radionuclide or group of radionuclides specified in Table 4.2 in this Schedule exceeds the relevant Annual Limit.
- 4.1.3** The Authorisation Holder shall use the best practicable means to exclude all entrained solids and mists from radioactive gaseous waste prior to discharge to the environment.
- 4.2 Discharges exceeding or likely to exceed a Weekly Advisory Level**
- 4.2.1** If, in any week, the activity in gaseous waste discharged of any radionuclide or group of radionuclides specified in Table 4.2 in this Schedule exceeds, or is likely to exceed, the relevant Weekly Advisory Level (where specified), the Authorisation Holder shall:
- 4.2.2** without delay, inform SEPA and the Food Standards Agency; and
- 4.2.3** as soon as reasonably practicable, advise SEPA and the Food Standards Agency 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 Premises, including any measurements made.
- 4.3 Discharges exceeding a Quarterly Notification Level**
- 4.3.1** If, in any quarter, the activity in gaseous waste discharged of any radionuclide or group of radionuclides specified in Table 4.2 exceeds the relevant Quarterly Notification Level (where specified), the Authorisation Holder shall provide SEPA with a written submission which includes:
- 4.3.2** details of the occurrence; and
- 4.3.3** a description of the means used to minimise the activity of gaseous waste discharged; and
- 4.3.4** a review of those means having regard to paragraphs 2.1.1 and 2.1.2 in this Authorisation not later than 14 days from making the record which demonstrates such excess.
- 4.4 Measurement of total beta activity of particulate samples**
- 4.4.1** For the purposes of demonstrating compliance with the limitations and conditions of this Authorisation relating to "beta-emitting radionuclides associated with particulate matter", the Authorisation Holder shall measure the total beta activity of all particulate samples collected for these purposes, after an appropriate period for decay of radon daughters, by using either:

- 4.4.1.1 a 710 lead castle with Geiger Muller tube or scintillation probe connected to a suitable scaler/ratemeter, and the system is set up in accordance with the manufacturers requirements, and the counter is calibrated for detection efficiency using a chlorine-36 standard traceable to a National Standard.
- 4.4.1.2 or, any other suitable counting system, which has been agreed in writing by SEPA

Table 4.1

<b>Authorised Gaseous Discharge Outlets</b>	<b>Height of Outlet Above Ground (m)</b>
In Service Inspection and fuelling machine maintenance workshop contamination ventilation system	76.75
Fuel Handling Building contaminated ventilation system	48.25
Active Solid Waste Building contaminated ventilation system	48.25
Active Effluent Treatment Plant contamination ventilation system	22.00
Fuel Pond contamination system	48.25
Gas Circulator Maintenance Workshop contamination ventilation system	18.00
Reactor 1 Common Discharge stack	76.75
Reactor 2 Common Discharge stack	76.75
Auxiliary Blowdown contaminated ventilation system	75.75
Reactor 1 Vessel Access Air Extract System	75.00
Reactor 2 Vessel Air Extract System	75.00
Reactor 1 Blowdown discharge stack	76.75
Reactor 2 Blowdown discharge stack	76.75



Table 4.2

<b>Radionuclide or Group of Radionuclides</b>	<b>Annual Limit (GBq)</b>	<b>Weekly Advisory Level (GBq)</b>	<b>Quarterly Notification Level (GBq)</b>
Tritium	11000	1100	2750
Carbon-14	4500	450	1125
Sulphur-35	300	30	75
Argon-41	75000	Not specified	18750
Iodine-131	2	Not specified	0.5
Beta-emitting radionuclides associated with particulate matter	0.4	Not specified	0.1

**5. LIMITATIONS AND CONDITIONS RELATING TO DISPOSAL OF RADIOACTIVE AQUEOUS WASTE BY DISCHARGE TO THE ENVIRONMENT**

**5.1 Discharge of radioactive liquid waste**

5.1.1 The Authorisation Holder shall:

5.1.1.1 discharge radioactive aqueous waste to the environment only at the location specified in Table 5.1 in this Schedule and through the systems specified in that Table;

5.1.1.2 discharge radioactive aqueous waste to the environment via the cooling water discharge outfall only during the interval commencing three hours before high-tide and ending three hours after high-tide;

5.1.1.3 use the best practicable means to exclude all entrained solids, gases and non-aqueous liquids from radioactive aqueous waste prior to discharge to the environment.

5.1.2 The Authorisation Holder shall not in any year discharge radioactive aqueous waste in which the activity of any radionuclide or group of radionuclides specified in Table 5.2 in this Schedule exceeds the relevant Annual Limit.

**5.2 Discharges exceeding a Quarterly Notification Level**

5.2.1 If, in any quarter, the activity in radioactive aqueous waste discharged of any radionuclide or group of radionuclides specified in Table 5.2 in this Schedule exceeds the relevant Quarterly Notification Level (where specified), the Authorisation Holder shall provide SEPA with a written submission which includes:

5.2.1.1 details of the occurrence;

5.2.1.2 a description of the means used to minimise the activity of radioactive aqueous waste discharged;

5.2.1.3 a review of those means having regard to paragraphs 2.1.1 and 2.1.2 in this Authorisation;

5.2.1.4 not later than 14 days from making the record which demonstrates such excess.

**5.3 Measurement of other radionuclides not otherwise specified**

5.3.1 For the purposes of demonstrating compliance with the limitations and conditions of this authorisation relating to "any non alpha emitting radionuclides together excluding tritium, sulphur-35, cobalt-60 and alpha emitting radionuclides" in aqueous waste, the Authorisation Holder shall measure the gross activity, excluding tritium, sulphur-35, cobalt-60 and alpha-emitting radionuclides of all samples collected for these purposes by either:

- 5.3.1.1 Evapourating the samples to remove tritium and dissolving the residues in dilute nitric acid, summing the activities of the radionuclides in the dissolved residues, as derived from measurements using triple label scintillation counting using the external standard quench correction method, and subtracting the sulphur-35, cobalt-60 and alpha emitting nuclide activities.
- 5.3.1.2 or, using any suitable method, which has been agreed in writing by SEPA.

Table 5.1

<b>Authorised Aqueous Discharge System</b>
System, as described by drawing number TS1747SNL011993, Rev 007 Rev Date 14/07/04, provided by the Authorisation Holder for the discharge of cooling water from the nuclear power station on the Torness Power Station site to the North Sea at National Grid Reference NT 7522 7505

Table 5.2

<b>Radionuclide or Group of Radionuclides</b>	<b>Annual Limit (GBq)</b>	<b>Quarterly Notification Level (GBq)</b>
Tritium	700 000	175 000
Sulphur-35	3 000	750
Cobalt-60	10	2.5
Alpha emitting radionuclides	0.5	0.125
Any non-alpha emitting radionuclides taken together excluding this listed individually in this schedule	150	37.5

6. **LIMITATIONS AND CONDITIONS RELATING TO DISPOSAL OF RADIOACTIVE WASTE BY INCINERATION ON THE AUTHORISED PREMISES**

Not authorised under this Authorisation

**7. LIMITATIONS AND CONDITIONS RELATING TO DISPOSAL OF COMBUSTIBLE RADIOACTIVE WASTE BY TRANSFER TO AN OFF-SITE INCINERATOR**

**7.1 Limits on activity and volume**

7.1.1 The Authorisation Holder shall not in any calendar year transfer radioactive waste in the form of solid combustible and organic liquid combustible waste:

7.1.1.1 to a person specified in Table 7.1 in which, in total, the activity of any radionuclide or group of radionuclides exceeds the relevant Annual Activity Limit;

7.1.1.2 in which, in total, the volume of the radioactive waste exceeds the Annual Limit specified in Table 7.2 in this Schedule.

**7.2 Transfer of waste**

7.2.1 The Authorisation Holder shall:

7.2.1.1 Ensure that the person to whom waste is transferred receives at the time of transfer of each consignment a clear and legible note signed on the Authorisation Holder's behalf stating the total activity in the consignment of each relevant radionuclide or group of radionuclides listed in Table 7.1; and

7.2.1.2 obtain a record signed on behalf of the person to whom waste is transferred, at the time of transfer, stating that the transfer has taken place.

**7.3 Radioactive waste found following the transfer not to be in accordance with the limitations and conditions of the Authorisation**

7.3.1 If required by SEPA, the Authorisation Holder shall ensure that any consignment or part of any consignment of waste found, following transfer, not to be in accordance with the limitations and conditions of this Authorisation:

7.3.1.1 is packaged in accordance with the appropriate transport regulations; and

7.3.1.2 is returned as soon as reasonably practicable to the Authorised Premises.

**7.4 Radioactive waste which cannot be disposed of due to non-delivery**

7.4.1 If any disposal of radioactive waste cannot be completed by reason of non-delivery for any reason, the Authorisation Holder shall ensure that the radioactive waste is returned to the Authorised Premises forthwith.

Table 7.1

Person to whom waste may be transferred	Radionuclide or group of radionuclides	Annual Activity Limit (MBq)
The holder of the authorisation to dispose of radioactive waste under Section 13 of the Act by burning at the incinerator at Charleston Road, Hardley, Hythe, Southampton, Hampshire, SO45 3ZA	Tritium	50 000
	Carbon-14	1 000
	Sulphur- 35	25 000
	Any non alpha emitting radionuclides taken together excluding those listed individually in this Schedule	6 000
	Alpha emitting radionuclides in total	10

Table 7.2

Annual Limit (cubic metres)
Not specified

**8. LIMITATIONS AND CONDITIONS RELATING TO THE TRANSFER OF WASTE FOR THE PURPOSE OF TREATMENT AND FOR FINAL DISPOSAL TO THE LOW LEVEL WASTE REPOSITORY SITE OPERATOR**

**8.1 Limits on activity and volume of LLWR Waste**

8.1.1 The Authorisation Holder shall not:

8.1.1.1 transfer any consignment of LLWR Waste in which the activity of alpha emitting radionuclides exceeds 4 gigabecquerels per tonne or the activity of all other radionuclides exceeds 12 gigabecquerels per tonne;

8.1.1.2 in any calendar year transfer LLWR Waste in which, in total, the activity of any radionuclide or group of radionuclides listed in Table 8.1 in this Schedule exceeds the relevant Annual Limit;

8.1.1.3 in any calendar year transfer LLWR Waste in which, in total, the volume of the radioactive waste exceeds the Annual Limit specified in Table 8.2 in this Schedule.

**8.2 Waste that may not be transferred**

8.2.1 The Authorisation Holder shall not transfer LLWR Waste:

8.2.1.1 unless it has been treated or packaged in such a way as to render it, so far as is reasonably practicable, insoluble in water and not readily flammable;

8.2.1.2 which contains any of the following materials, unless otherwise agreed in writing by SEPA beforehand:

8.2.1.2.1 metals and other materials which readily react either with water or air with the evolution of heat or flammable gases;

8.2.1.2.2 explosive materials;

8.2.1.2.3 liquids with flashpoint less than 21°C absorbed on solid materials;

8.2.1.2.4 strong oxidising agents;

8.2.1.2.5 pressurised gas cylinders or pressurised aerosol containers;

8.2.1.2.6 materials which generate or are capable of generating toxic gases, vapours or fumes harmful to persons handling the waste;

8.2.1.2.7 chemical complexing or chelating agents.

**8.3 Transfer of LLWR waste**

8.3.1 The Authorisation Holder shall:

8.3.1.1 ensure that the person to whom LLWR Waste is transferred receives at the time of transfer of each consignment a clear and legible note signed on the Authorisation Holder's behalf stating:

- 8.3.1.1.1 that the activity of alpha emitting radionuclides in the consignment does not exceed 4 gigabecquerels per tonne and that the activity of all other radionuclides does not exceed 12 gigabecquerels per tonne;
- 8.3.1.1.2 the total activity in the consignment of each radionuclide or group of radionuclides listed in Table 8.1 in this Schedule;
- 8.3.1.2 obtain a record signed on behalf of the person to whom LLWR Waste is transferred, at the time of transfer, stating that the transfer has taken place.
- 8.4 Radioactive waste found following the transfer not to be in accordance with the limitations and conditions of the Authorisation**
- 8.4.1 If required by SEPA, the Authorisation Holder shall ensure that any consignment or part of any consignment of LLWR Waste found, following transfer not to be in full compliance with the limitations and conditions of this Authorisation:
- 8.4.1.1 is packaged in accordance with the appropriate transport regulations;
- 8.4.2 is returned as soon as is reasonably practicable to the Authorised Premises;
- 8.4.3 If any disposal of radioactive waste cannot be completed by reason of non-delivery for any reason the Authorisation Holder shall ensure that the radioactive waste is returned to the Authorised Premises forthwith.
- 8.4.4 If required by SEPA, the Authorisation Holder shall ensure that any consignment or part of any consignment of radioactive waste found, following removal from the Authorised Premises, not to be in accordance with the limitations and conditions of this Authorisation is returned as soon as is reasonably practicable to the Authorised Premises.
- 8.5 Radioactive waste which cannot be disposed of due to non-delivery**
- 8.5.1 If any disposal of radioactive waste cannot be completed by reason of non-delivery for any reason, the Authorisation Holder shall ensure that the radioactive waste is returned to the Authorised Premises forthwith.

Table 8.1

Radionuclide or Group of Radionuclides	Annual Limit, GBq
Uranium	1.0
Radium-226 plus Thorium-232	0.2
Other alpha emitters <sup>1</sup>	1.3
Carbon-14	5
Iodine-129	0.1
Tritium	1000
Cobalt-60	20
Other radionuclides <sup>2</sup>	100



- 1 "other alpha emitters" means alpha-emitting radionuclides with half-lives greater than three months excluding uranium, radium-226 and thorium-232
- 2 "other radionuclides" means:
  - (a) iron-55 and beta-emitting radionuclides with half-lives greater than three months unless individually specified in this Table and
  - (b) any other radionuclides specified in writing by SEPA

Table 8.2

<b>Annual Limit (cubic metres)</b>
400

**9. ADDITIONAL INFORMATION REQUIREMENTS****9.1 Additional Information requirements**

9.1.1 The Authorisation Holder shall provide the information specified in the Table 9.1 in this Schedule by the relevant completion date.

Table 9.1

<b>Specified information</b>	<b>Completion Date</b>
1. The Authorisation Holder shall provide to SEPA a monthly summary report of the records being made under conditions 2.4.3.2.1 to 2.4.3.2.9. of Schedule 2 and a 12 monthly rolling total compared to the relevant annual limit.	Not later than 28 days after the end of each month and at the same interval thereafter unless SEPA otherwise specifies in writing.
2. The Authorisation Holder shall provide SEPA with a full report of a comprehensive review of whether any proposed treatment of LLWR Waste other than high force compaction or incineration is the best practicable environmental option for disposal of that waste.	Six months before any such treatment or transfer for treatment or other such period as SEPA specifies in writing.
3. For each calendar year the Authorisation Holder shall provide the Agency with a full report of its efforts to reduce gaseous, aqueous, solid combustible and organic liquid combustible, LLWR waste, LLWR waste, resins, sludges and spent sand filter media disposals from the Station, having regard to conditions 2.1.1 and 2.1.2 of Schedule 2.	Not later than 31 March of the next calendar year.
4. The Authorisation Holder shall provide SEPA with a full report of a comprehensive review of whether the current disposal routes continue to represent the best practicable environmental option for radioactive waste disposal from the Authorised Premises, together with a programme for carrying out any necessary changes identified by the review.	3 years from the effective date of this Authorisation and at the same intervals thereafter unless SEPA otherwise specifies in writing.
5. The Authorisation Holder shall provide SEPA with a full report of a comprehensive review of national and international developments in best practice for minimising all radioactive waste disposals, together with a strategy for achieving reductions in such disposals.	3 years from the effective date of this Authorisation and at the same intervals thereafter unless SEPA otherwise specifies in writing.
6. The Authorisation Holder shall provide SEPA with a full report of a comprehensive review of the means used to assess the activity of radionuclides in disposals and to determine compliance with this Authorisation including consideration of national and international	3 years from the effective date of this Authorisation and at the same intervals thereafter unless SEPA otherwise specifies in writing.

developments in best practice.	
7. The Authorisation Holder shall provide SEPA with a full report of a detailed investigation of the radionuclide composition of all waste being disposed of under this Authorisation.	3 years from the effective date of this Authorisation and at such Intervals thereafter as SEPA specifies in writing.

**10. IMPROVEMENT REQUIREMENTS**

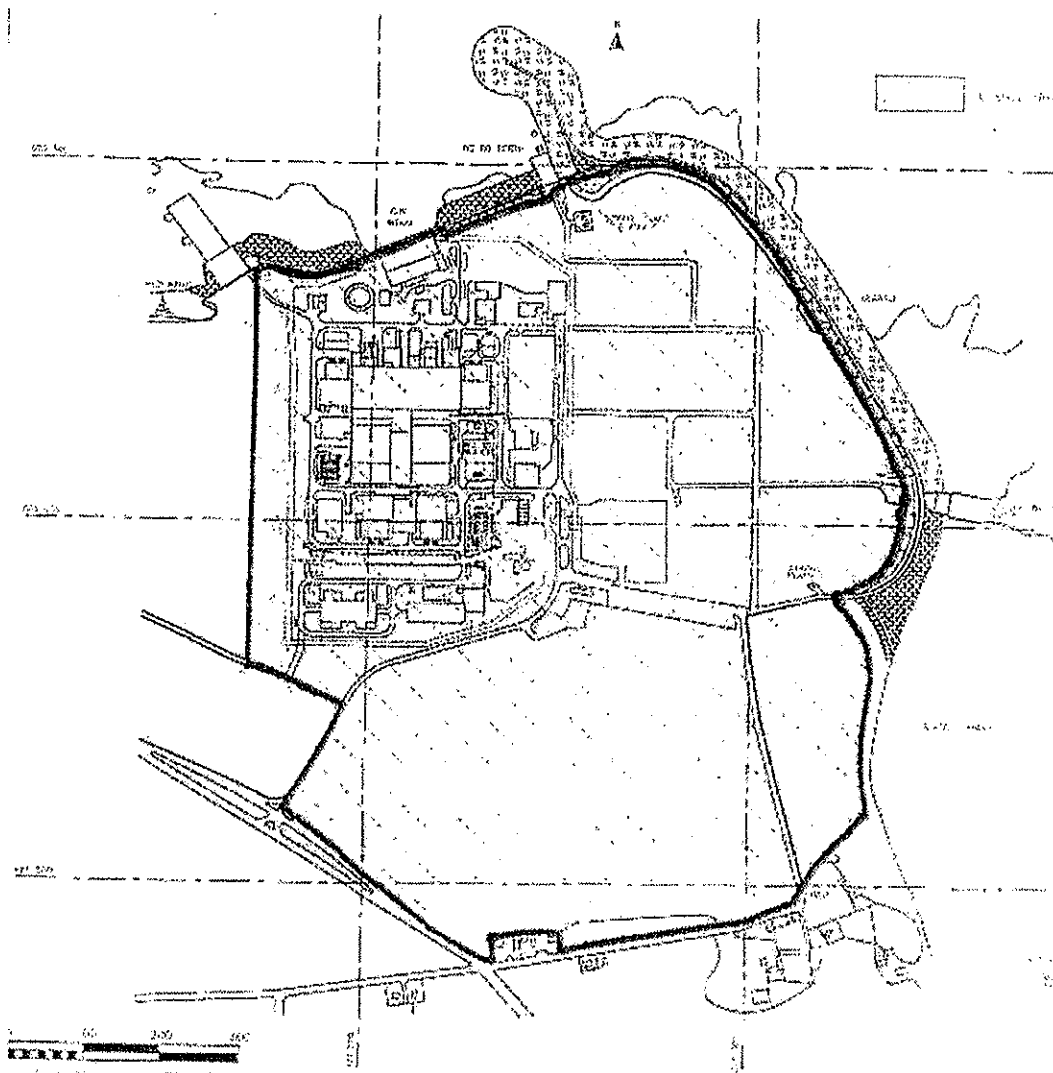
**10.1 Improvement Requirements**

10.1.1 The Authorisation Holder shall complete the specified improvements in the Table 10.1 in this Schedule by the relevant completion date and, shall notify SEPA, in writing.

Table 10.1

<b>Specified improvements</b>	<b>Completion Date</b>
1. Not specified.	

11. APPENDIX 1 – SITE PLAN

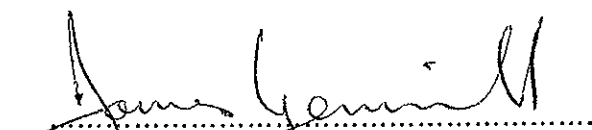




**SCOTTISH ENVIRONMENT PROTECTION AGENCY**  
**RADIOACTIVE SUBSTANCES ACT 1993 (AS AMENDED)("the Act")**  
**NOTICE OF VARIATION UNDER SECTION 17 OF THE ACT**

**NOTICE NUMBER** : RSA/A/0070116/VN01  
**NAME** : British Energy Generation Limited  
**ADDRESS** : Barnet Way  
Barnwood  
Glouster  
GL4 3RS

Notice is hereby given to British Energy Generation Limited, company registration number 03076445 that Authorisation with number RSA/A/0070116 is varied as specified in Schedule 1 attached to and forming part of this Notice of Variation by the Scottish Environment Protection Agency ("SEPA"), as the appropriate Agency as defined in section 47(1) of the Act, in exercise of its powers under section 17 (2) of the Act. This Variation has effect from 4 February 2011.

  
.....  
Authorised to sign on behalf of the  
Scottish Environment Protection Agency

Date: 4 February 2011

**Under Section 26 of the Act you have a right of appeal to the Scottish Ministers against the terms of this notice, except where it relates to a Direction given to SEPA by the Scottish Ministers. Any appeal must be made within 2 months of the date of this notice. Note that there is no right of appeal against the revocation of a condition or limitation subject to which the Authorisation has effect.**





**RADIOACTIVE SUBSTANCES ACT 1993 (AS AMENDED)("the Act")**

**SCHEDULE 1 TO NOTICE OF VARIATION UNDER SECTION 17 OF THE ACT**

This is Schedule 1 attached to and forming part of the Notice of Variation number RSA/A/0070116/VN01.

The Authorisation with number RSA/A/0070116 is varied as follows:

1. In the INTERPRETATION OF TERMS the following is deleted:

"Winfrith Site Operator" means the current holder of the licence issued under the Nuclear Installations Act 1965 for the Winfrith Site

"LLWR Waste" means solid radioactive waste, including any immediate package, intended by the Authorisation Holder for final disposal at the Low Level Waste Repository

2. To the INTERPRETATION OF TERMS the following is added:

"Desiccant" means the drying agent used to control moisture levels in reactor coolant

"Hythe Incinerator Operator" means the holder of the environmental permit authorising the disposal of radioactive waste at the incinerator at Charleston Road, Hardley, Hythe, Southampton, Hampshire S045 3ZA.

"Low Level Waste" means solid radioactive waste having a radioactive content not exceeding four gigabecquerels per tonne (GBq/te) of alpha or 12 GBq/te of beta/gamma activity;

"Winfrith Site" means the site at Winfrith in Dorset for which a site licence has been granted under the Nuclear Installations Act 1965

"Environmental Permit" has the meaning given in regulation 13(1) of the Environmental Permitting (England and Wales) Regulations 2010

3. In Schedule 2 Paragraph 2.3.4 is deleted and replaced by:

2.3.4 The Authorisation Holder shall inform SEPA, at least 28 days in advance or, where this is not possible, without delay, of any change in the programme being undertaken to satisfy paragraph 2.3.2 of this Authorisation.

4. In Schedule 2 Paragraph 2.4 in the certificate is deleted and replaced by:

**2.4 Records**

2.4.1 The Authorisation Holder shall make, as soon as is reasonably practicable and retain true, accurate and legible records sufficient to demonstrate whether the limitations and conditions of this Authorisation are and have been complied with.

- 2.4.2 The Authorisation holder shall, after the end of each month, in respect of all disposals of radioactive waste made during that month make a record of each measurement, analysis, test, survey and calculation conducted for the purpose of this Authorisation in relation to those disposals
- 2.4.3 For all radioactive waste disposed the Authorisation Holder shall make a record which shows clearly, accurately and legibly:
- 2.4.3.1 the type of radioactive waste and its disposal route; and
  - 2.4.3.2 the name of each radionuclide or where appropriate the relevant group of radionuclides specified in the tables 4.2, 5.2, and 7.1 which is present in the radioactive waste; and
  - 2.4.3.3 the total activity of each such radionuclide or group of radionuclides; and
  - 2.4.3.4 the total volume of aqueous waste in cubic metres; and
  - 2.4.3.5 the total volume of organic liquid waste in cubic metres; and
  - 2.4.3.5 the total mass in tonnes of any solid waste; and
  - 2.4.3.6 the activity of each radionuclide or group of radionuclides per tonne of the solid waste disposed of and
  - 2.4.3.7 the date and time on which or period during which the disposal took place.
- 2.4.4 The Authorisation Holder shall retain all records made in accordance with all previous Authorisations issued to the Authorisation Holder and related to the Authorised Premises covered by this Authorisation.
- 2.4.5 The Authorisation Holder shall retain all records transferred to the Authorisation Holder by all predecessor Authorisation Holder(s) which were made in accordance with any previous Authorisation related to the Authorised Premises covered by this Authorisation.
- 2.4.6 If the Authorisation Holder amends any record made in accordance with this Authorisation the Authorisation Holder shall ensure that the original entry remains clear and legible.
- 2.4.7 The Authorisation Holder shall at all times keep the records referred to in paragraphs 2.4.1, 2.4.2 and 2.4.3 on the Authorised Premises for not less than five years from the date of it's being made and thereafter preserved at a location previously notified to SEPA if that location is not on the Authorised Premises.
- 2.4.8 The Authorisation Holder shall retain the records referred to in paragraphs 2.4.1, 2.4.2 and 2.4.3 until notified in writing by SEPA that the records no longer need to be retained

2.4.9 The Authorisation Holder shall supply on request and without delay, to any Authorised Person any record made as a requirement of this Authorisation.

5. In Schedule 3 Table 3.1 is deleted and replaced by:

<b>Radioactive Waste Type</b>	<b>Disposal Route</b>
Gaseous Waste	Discharge to the environment
Aqueous Waste	Discharge to the environment
Organic Liquid Waste	Disposal by removal to the Hythe Incinerator Operator
Solid waste	Disposal by removal to the Sellafield Site Operator.
	Disposal by removal to the Hythe Incinerator Operator
	Disposal by removal to the Low Level Waste Repository Site Operator.
	Disposal by removal to the holder of the environmental permit for the disposal of radioactive waste from the B4 complex on the Winfrith Site

6. In Schedule 4 Table 4.1 is deleted and replaced by:

<b>Authorised Gaseous Discharge Outlets</b>	<b>Nominal Height of Outlet Above Ground (m)</b>
In Service Inspection and fuelling machine maintenance workshop contamination ventilation system	77
Fuel Handling Building contaminated ventilation system	48
Active Solid Waste Building contaminated ventilation system	22
Active Effluent Treatment Plant contamination ventilation system	22
Fuel Pond contamination system	48
Gas Circulator Maintenance Workshop contamination ventilation system	18
Reactor 1 Common Discharge stack	77
Reactor 2 Common Discharge stack	77
Auxiliary Blowdown contaminated ventilation system	76
Reactor 1 Vessel Air Extract System	75
Reactor 2 Vessel Air Extract System	75
Reactor 1 Blowdown discharge stack	77
Reactor 2 Blowdown discharge stack	77

7. Schedule 7 is deleted and replaced by:

**7. FURTHER LIMITATIONS AND CONDITIONS RELATING TO THE DISPOSAL OF SOLID RADIOACTIVE WASTE BY TRANSFER TO A NAMED PERSON WITHIN THE UNITED KINGDOM.**

**7.1 Disposal of Radioactive Waste to a Named Individual within the United Kingdom**

7.1.1 The Authorisation Holder is authorised to dispose only of the radioactive waste types identified in Table 7.1 to the relevant person or persons specified in the Table up to the Annual Activity Limit and the Annual Volume limit listed in the Table for each radioactive waste type.

7.1.2 Before each consignment of radioactive waste is disposed of to any person specified in Table 7.1, the Authorisation Holder shall:

7.1.2.1 determine the radioactivity of the radionuclides contained in the radioactive waste;

7.1.2.2 provide to the person to whom the radioactive waste is to be disposed with a written description of the radioactive waste and the radioactivity of the radionuclides contained therein; and

7.1.2.3 obtain confirmation that the person to whom the radioactive waste is to be disposed agrees to accept the radioactive waste for disposal.

7.1.3 All disposals of radioactive waste shall be accompanied at all times by a true and accurate record signed by or on behalf of the Authorisation Holder. This record shall detail the physical description of the radioactive waste, the radionuclides contained in the radioactive waste, the volume of the radioactive waste and the activity of each of the radionuclides in the radioactive waste. A copy of this record shall be provided to the person to whom the waste is removed at the time of disposal and a copy shall be retained by the Authorisation Holder.

7.1.4 The Authorisation Holder shall not make any disposal of radioactive waste from the Authorised Premises unless a receipt is obtained from the person (or his agent) who removes such waste from the Authorised Premises.

7.1.5 The Authorisation Holder shall obtain written confirmation as soon as is reasonably practicable from the person to whom such waste is removed that they have received such waste.

7.1.6 If any disposal of radioactive waste cannot be completed by reason of non-delivery for any reason the Authorisation Holder shall ensure that the radioactive waste is returned to the Authorised Premises forthwith.

Table 7.1

COLUMN 1 Person to whom waste may be disposed	COLUMN 2 Waste Type	COLUMN 3 Annual Activity Limits		COLUMN 4 Annual Volume Limit, cubic metres
		Radionuclide	Limit (GBq)	
Sellafield site operator	Low Level Waste	Uranium	1.0	400
		Radium -226 plus	0.2	
		Thorium -232		
		Other alpha emitters <sup>1</sup>	1.3	
		Carbon- 14	5	
		Iodine -129	0.1	
		Tritium	1000	
		Cobalt 60	20	
	Other radionuclides <sup>2</sup>	100		
Low Level Waste Repository Site Operator	Low Level Waste	Uranium	1.0	400
		Radium -226 plus	0.2	
		Thorium -232		
		Other alpha emitters <sup>1</sup>	1.3	
		Carbon- 14	5	
		Iodine -129	0.1	
		Tritium	1000	
		Cobalt 60	20	
	Other radionuclides <sup>2</sup>	100		
Hythe Incinerator Operator	Low level Waste and Organic Liquid Waste	Tritium	50	Not Limited
		Carbon 14	1	
		Sulphur 35	25	
		Any non alpha emitting radionuclides taken together excluding Tritium, Carbon 14 and Sulphur 35	6	
		Alpha emitting radionuclides in total	0.01	
The holder of the Environmental Permit for the B4 complex on the Winfrith Site	Low Level Waste	Not limited		400
The holder of the Environmental Permit for the B4 complex on the Winfrith Site	Desiccant	Not limited		80

<sup>1</sup> "Other alpha emitters" means alpha-emitting radionuclides with half lives greater than three months excluding uranium, radium-226 and thorium 232.

<sup>2</sup> "Other radionuclides" means:

- (a) iron-55 and beta emitting radionuclides with half lives greater than three months unless individually specified in this Table and
- (b) any other radionuclides specified in writing by SEPA

8. Schedule 8 is deleted and replaced with

**8. FURTHER CONDITIONS AND LIMITATIONS RELATING TO THE DISPOSAL OF RADIOACTIVE WASTE BY REMOVAL TO A NAMED PERSON OUTWITH THE UNITED KINGDOM**

Not authorised under this Authorisation.

9. In Schedule 9 Table 9.1 in the Certificate is deleted and replaced by:

Specified Information	Completion Date
1. The Authorisation holder shall provide to SEPA a monthly summary report of the records being made under conditions 2.4.3 of schedule 2 and a 12 month rolling total compared to the relevant annual limit.	Not later than 28 days after the end of each month unless SEPA otherwise specifies in writing.
2. For each calendar year the Authorisation Holder shall provide the Agency with a full report of its efforts to reduce the disposal of all the waste types specified in table 3.1 from the Authorised Premises having regard to 2.1.1 and 2.1.2 of schedule 2.	Not later than 31 March or the next calendar year.
3. The Authorisation Holder shall provide SEPA with a full report of a comprehensive review of whether the current disposal routes continue to represent the best practicable environmental option for radioactive waste disposal from the Authorised Premises, together with a programme for carrying out any necessary changes identified by the review.	3 years from the effective date of this Authorisation and at the same intervals thereafter unless SEPA otherwise specifies in writing.
4. The Authorisation Holder shall provide SEPA with a full report of a comprehensive review of national and international developments in best practice for minimising all radioactive waste disposals, together with a strategy for achieving reductions in such disposals.	3 years from the effective date of this Authorisation and at the same intervals thereafter unless SEPA otherwise specifies in writing.
5. The Authorisation shall provide SEPA with a full report of a comprehensive review of the means used to assess the activity of radionuclides in disposals and to determine compliance with this Authorisation including consideration of national and international developments in	3 years from the effective date of this Authorisation and at the same intervals thereafter unless SEPA otherwise specifies in writing.

best practice.	
6. The Authorisation Holder shall provide SEPA with a full report of a detailed investigation of the radionuclide composition of all waste being disposed of under this Authorisation.	3 years from the effective date of this Authorisation and at such intervals thereafter as SEPA specifies in writing.

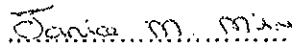
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**SCOTTISH ENVIRONMENT PROTECTION AGENCY**  
**RADIOACTIVE SUBSTANCES ACT 1993 (AS AMENDED)("the Act")**  
**NOTICE OF VARIATION UNDER SECTION 17 OF THE ACT**

**NOTICE NUMBER:** RSA/A/0070116/VN02  
**NAME:** EDF Energy Nuclear Generation Limited  
**REGISTERED OFFICE:** Barnett Way  
Barnwood  
Gloucester  
GL4 3RS  
**REGISTERED NO:** 03076445  
(the "Authorised Holder")

Notice is hereby given to the EDF Energy Nuclear Generation Limited that Authorisation with Certificate Number RSA/A/0070116 is varied as specified in Schedule 1 attached to and forming part of this Notice of Variation by the Scottish Environment Protection Agency ("SEPA"), in exercise of its powers under section 17(2) of the Act. This Variation has effect from 18 May 2012.

  
.....  
Authorised to sign on behalf of the  
Scottish Environment Protection Agency

Date: 18 May 2012.

**Under Section 26 of the Act you have a right of appeal to the Scottish Ministers against the terms of this notice, except where it relates to a Direction given to SEPA by the Scottish Ministers. The procedures to be followed in the event of an appeal are set out in the Radioactive Substances (Appeals) Regulations 1990. Any appeal must be made within 2 months of the date of this notice. Note that there is no right of appeal against the revocation of a condition or limitation subject to which the Authorisation has effect.**

**RADIOACTIVE SUBSTANCES ACT 1993 (AS AMENDED)("the Act")**

**SCHEDULE 1 TO NOTICE OF VARIATION UNDER SECTION 17 OF THE ACT**

This is Schedule 1 attached to and forming part of the Notice of Variation number RSA/A/0070116/VN02.

The Authorisation with Certificate Number RSA/A/0070116 is varied as follows:

1. Table 4.1 is deleted and replaced by:

<b>Authorised Gaseous Discharge Outlets</b>	<b>Height of Outlet Above Ground Level (m)</b>
In Service Inspection and Fuelling machine maintenance workshop contamination ventilation system	77
Fuel Handling Building contaminated ventilation system	48
Active Solid Waste Building contaminated ventilation system	22
Active Effluent Treatment Plant contamination ventilation system	22
Fuel Pond contamination system	48
Gas Circulator Maintenance Workshop contamination ventilation system	18
Reactor 1 Common Discharge Stack	77
Reactor 2 Common Discharge Stack	77
Auxiliary Blowdown contaminated ventilation system	76
Reactor 1 Vessel Air Extract System	75
Reactor 2 Vessel Air Extract System	75
Reactor 1 Blowdown Discharge Stack	77
Reactor 2 Blowdown Discharge Stack	77
Reactor 1 Reactor Vessel Relief Valves	77
Reactor 2 Reactor Vessel Relief Valves	77