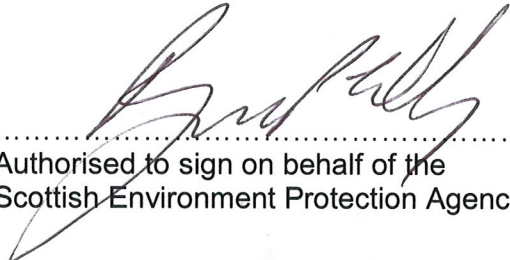


SCOTTISH ENVIRONMENT PROTECTION AGENCY
RADIOACTIVE SUBSTANCES ACT 1993 (AS AMENDED) ("THE ACT")
CERTIFICATE OF REGISTRATION UNDER SECTION 7

Certificate No: RSA/C/0070130
Name: University of Dundee
Address: Nethergate
Dundee
DD1 4HN

The Scottish Environment Protection Agency, in accordance with Section 7 of the Act hereby Registers the University of Dundee ("the Registered Person") to keep and use the Registered Substances, more particularly described in Schedule 2 to this Registration, at or on the University of Dundee, Dundee ("the Registered Premises") more particularly described in Schedule 1 to this Registration for the purposes of its Undertaking as more particularly described in said Schedule 1 subject to the Limitations and Conditions contained in Schedules 1 to 3 and to the Interpretation of Terms all attached to and forming part of this Registration.


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

Date: 10 May 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 Certificate of Registration.

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INTERPRETATION OF TERMS

For the purposes of this Registration, and unless the context requires otherwise, the following definitions shall apply:

“the Act” means the Radioactive Substances Act 1993, as amended;

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

“the ionising radiation symbol” means the symbol as defined by the British Standards Institute as at the date of this Registration or as subsequently defined by the British Standards Institute;

“sealed source” means a source with structure such as to prevent under normal conditions of use any dispersion of radioactive material into the environment;

“radionuclide” means a species of atom characterised by its mass number and atomic number and subject to radioactive decay;

“SEPA” means the Scottish Environment Protection Agency;

“radioactive material” has the same meaning as in Section 1 of the Act;

“radioactive waste” has the same meaning as in Section 2 of the Act;

“the Registered Premises” are the premises defined in Schedule 1;

“Registered Substance” means radioactive material consisting of solid or liquid or gaseous substances containing one or more of the radionuclides as specified in Schedule 2 but does not include a sealed source;

“Site Plan” means the plan attached at Appendix 1;

“the Undertaking” means the undertaking defined in Schedule 1;

Any reference to a numbered Condition, Schedule, Table, Appendix, Figure or Paragraph is a reference to a numbered Condition, Schedule, Table, Appendix, Figure or Paragraph bearing that number in this Registration.

Except where specified otherwise in this Registration:

- “day” means any period of 24 consecutive hours
- “year” means any period of 12 consecutive months

In this Registration quantities of radioactivity are expressed in the SI unit becquerels, or multiples, thereof.

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

1 REGISTERED PREMISES AND DESCRIPTION OF UNDERTAKING

1.1 Registered Premises and Description of Undertaking

1.1.1 The Undertaking is teaching and research.

1.1.2 The Registered Premises are shown delineated in red on the Site Plan forming Appendix 1 of this Registration and comprise the buildings known at the date of this Registration as:

Building 1 MSI/WTB/SJB Complex, DD1 5EH
Building 2 Biological Sciences Institute Building, DD1 4HN
Building 3 Jute Shed, DD1 4HN
Building 4 Fleming Gymnasium, DD1 4HN
Building 5 OMS/Carnelly Complex, DD1 4HN
Building 6 Frankland Building, DD1 4HN
Building 7 Dental Hospital, DD1 4HR

Respectively marked A, B, C, D, E, F and G on the Site Plan.

2 REGISTERED SUBSTANCES

2.1 Registered Substances

- 2.1.1 The Registered Substances shall contain only the radionuclides listed in Column 1 of the Table and any of their decay products produced within each Registered Substance, and shall have the maximum quantity of radioactivity specified in Column 2 of the Table.
- 2.1.2 The radionuclides listed in Column 1 of the Table below may be kept and used on or in the Registered Premises subject to the maximum quantity for each type of radionuclide as listed in Column 2 of the Table.
- 2.1.3 The Registered Substances shall only be used for the purposes specified in Column 3 of the Table.
- 2.1.4 When calculating the maximum quantity of radioactivity as listed in Column 2 of the Table, no account shall be taken of the quantity of any radionuclide that is present solely as a result of radioactive decay of the radionuclides contained in the Registered Substances listed in Column 1 of the Table.

Table of Registered Substances

<i>Column 1</i>	<i>Column 2</i>	<i>Column 3</i>
Radionuclides contained in the Registered Substances	Maximum quantity of radioactivity of each radionuclide in all of the Registered Substances	Purpose for which the Registered Substances are to be kept or used
Tritium	75 000 MBq	Research and teaching
Carbon 14	5 000 MBq	Research and teaching
Phosphorus 32	20 000 MBq	Research and teaching
Phosphorus 33	5 000 MBq	Research and teaching
Sulphur 35	20 000 MBq	Research and teaching
Iodine 125	7 500 MBq	Research and teaching
Lead 210	1 kBq	Research and teaching
All other non alpha emitting radionuclides taken together	4 000 MBq	Research and teaching
Alpha emitting radionuclides taken together	12 kBq	Research and teaching

3 FURTHER LIMITATIONS AND CONDITIONS

3.1 Keeping and Use of Registered Substances

- 3.1.1 The Registered Person shall take all practicable measures to ensure that unnecessary radioactive waste is not generated as a result of the keeping or use of the Registered Substances.
- 3.1.2 The Registered Person shall prevent access to the Registered Substances by any person not authorised by the Registered Person.
- 3.1.3 The Registered Person shall ensure that only suitably qualified and experienced persons shall have access to and be permitted to use the Registered Substances.
- 3.1.4 The Registered Person shall ensure that the Registered Substances are not dispersed recklessly.
- 3.1.5 When not in use the Registered Substances shall be kept so as to prevent the dispersal of any radionuclide contained in any of the Registered Substances as a consequence of fire, corrosion, explosion or any other hazard.
- 3.1.6 The ionising radiation symbol and the word "Radioactive" shall be displayed at all times at the immediate location where any of the Registered Substances are kept or used.
- 3.1.7 The floor, ceiling, walls, furniture and fittings in any part of the Registered Premises where Registered Substances are kept or used shall be constructed and maintained in such a condition that they can be decontaminated in a manner which results in the generation of the minimum amount of radioactive waste.
- 3.1.8 Following each use of any Registered Substance the Registered Person shall take all practicable measures to ensure that the area in which the Registered Substance was used is free from contamination.
- 3.1.9 Whenever there are grounds for believing or suspecting that any radionuclide contained in a Registered Substance has been or may be dispersed in a manner not intended by the Registered Person all necessary measures shall immediately be taken to prevent (or where that is not practicable) to restrict any further dispersal of any such radionuclide.
- 3.1.10 All practicable measures shall be taken so as to prevent the loss or theft whether on or from the Registered Premises of any Registered Substances.
- 3.1.11 Whenever the Registered Person has any grounds for believing or suspecting that any of the Registered Substances have been lost or stolen the Registered Person shall immediately ascertain whether they are lost or stolen and immediately take measures to recover them, in so far as practicable.

- 3.1.12 The Registered Person shall, on ceasing occupation of the Registered Premises or on ceasing to carry on the Undertaking, and subject to the provisions of the Act, remove all of the Registered Substances from the Registered Premises.

3.2 Identification of Registered Substances

- 3.2.1 All containers used for the keeping and use of Registered Substances shall be suitably identified so that the radionuclides and their quantities in the Registered Substance are known at all times.

3.3 Procedures

- 3.3.1 The Registered Person shall, at all times from the date of this Registration, have in place and implement written procedures to ensure compliance with the limitations and conditions specified in this Registration. The written procedures shall include a procedure for monitoring, reviewing and updating the written procedures as required in response to changes in circumstances. The procedures shall be made available, when required, for examination by an Authorised Person.

3.4 Records and Reporting

- 3.4.1 The Registered Person shall maintain at all times a true, accurate and legible record detailing:
- 3.4.1.1 the date upon which any Registered Substance was brought on to the Registered Premises;
 - 3.4.1.2 the names, description of and quantities of the radionuclides contained in any Registered Substance at the time it was brought on to, kept on or removed from the Registered Premises and the form of the Registered Substance;
 - 3.4.1.3 the markings and locations of all containers used for the keeping and use of Registered Substances;
 - 3.4.1.4 the dates upon which any Registered Substance was used and the purpose for which it was used;
 - 3.4.1.5 the date upon which any Registered Substance was removed from the Registered Premises, the address of the premises to which it was removed and the name of the occupier thereof;
 - 3.4.1.6 the dates upon which any Registered Substance on the Registered Premises ceases to be radioactive material within the meaning of Section 1 of the Act and
 - 3.4.1.7 such other information as SEPA may specify in writing.

- 3.4.2 Every record made in compliance with any condition of this Registration shall be preserved for not less than five years from the date of its being made. Every such record shall be kept at the Registered Premises for not less than one year from the date of its being made and thereafter preserved at a location, previously notified to SEPA in writing, if that location is not in or on the Registered Premises. The records shall be made available, when required, for examination by an Authorised Person.
- 3.4.3 The Registered Person shall provide copies of the records made in compliance with any limitation or condition of this registration, at such frequency and such format as SEPA may reasonably specify.
- 3.4.4 Upon notification by SEPA of any address or telephone number specified for the purpose of paragraphs 3.5.1, 3.5.2 and 3.5.3 of this registration the Registered Person shall record these details and they shall be clearly displayed with each copy of the Registration that is posted on the Registered Premises as required by section 19 of the Act.

3.5 Notifications

- 3.5.1 Whenever there are grounds for believing or suspecting that any Registered Substance has been lost or stolen, notification to that effect shall without delay be given by the Registered Person to the local police force and to SEPA, by telephone, without delay. The Registered Person shall confirm the verbal notification to SEPA in writing by first class post or fax by the next working day after the verbal notification.
- 3.5.2 Whenever there are grounds for believing or suspecting that any radionuclide contained in a Registered Substance has been or may be dispersed in a manner not intended by the Registered Person, notification to that effect shall be given by the Registered Person to SEPA by telephone without delay. The Registered Person shall confirm the verbal notification to SEPA in writing by first class post or fax by the next working day after the verbal notification.
- 3.5.3 Prior to vacating the Registered Premises or ceasing to carry on the Undertaking at or on the Registered Premises the Registered Person shall give notification to SEPA by telephone and shall confirm the verbal notification to SEPA in writing by first class post or fax at least 28 days prior to vacating the Registered Premises or ceasing to carry on the Undertaking or, where this is not possible, without delay.
- 3.5.4 All notifications required by any of the limitations or conditions of this Registration shall be made to SEPA in the manner specified in that limitation or condition to the telephone number, fax number or address specified in any explanatory notes accompanying this Registration or to such other address and/or telephone number as may be specified by SEPA in writing.

4 APPENDIX 1 - SITE PLAN

