

---

SCOTTISH STATUTORY INSTRUMENTS

---

**2000 No. 100**

**The Radioactive Substances (Basic Safety Standards) (Scotland) Regulations 2000**

**Amendment of the Radioactive Substances Act 1993**

2.—(1) In section 15(1) (further exemptions from sections 13 and 14) of the Radioactive Substances Act 1993(1) after the words “clocks or watches” (where those words first appear) there shall be inserted the following:—

- “(a) where the total quantity taken together of each of the radionuclides listed in column 1 of Table A below present in the clocks and watches on any premises does not exceed the amount set out in column 2—

**TABLE A**

<i>Radioactive material</i>	<i>Relevant value</i>
Tritium	10 <sup>9</sup> becquerels
Promethium 147	10 <sup>7</sup> becquerels
Radium 226	10 <sup>4</sup> becquerels

or

(b) where

- (i) the total quantity of the radionuclides listed in column 2 of Table B below present in each such clock or watch of the type listed in column 1 of that table does not exceed the amount set out in column 3—

**TABLE B**

<i>Type of clock or watch</i>	<i>Radioactive material</i>	<i>Relevant value (becquerels)</i>
(i) Luminised time measurement instruments(2)	Tritium	2.8 × 10 <sup>8</sup>
	Promethium 147	5.5 × 10 <sup>6</sup>
(a) worn or carried on the person	Tritium	3.7 × 10 <sup>8</sup>
	Promethium 147	
(b) not worn or carried on the person	Tritium	3.7 × 10 <sup>8</sup>
	Promethium 147	

---

(1) 1993 c. 12.

(2) ISO 3157: 1991(E), “Radioluminescence for time measurement instruments – Specifications”.

<i>Type of clock or watch</i>	<i>Radioactive material</i>	<i>Relevant value (becquerels)</i>
		$7.4 \times 10^6$
(ii) Special luminised time measurement instruments(3)	Tritium	$9.3 \times 10^8$
	Promethium 147	$1.9 \times 10^7$
(iii) Watches containing gaseous tritium light sources(4)	Tritium	$7.4 \times 10^9$
(iv) Radium luminised timepieces(5)	Radium 226	$3.7 \times 10^3$
(a) wristwatches		
(b) alarm clocks	Radium 226	$5.5 \times 10^3$
(c) special time measurement instruments	Radium 226	$5.6 \times 10^4$

and

- (ii) no more than five items falling within Table B which constitute radioactive waste are present on any premises”.

(3) ISO 3157: 1991(E), “Radioluminescence for time measurement instruments – Specifications”.

(4) NEA, “Radiation Protection Standards for Gaseous Tritium Light Devices” (1973).

(5) IAEA, “Radiation Protection Standards for Radioluminous Timepieces” (1967).