



in connection with making of this legislation.
Secretary: please complete this copy by
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Legislative Services Section.
Commercial & Drafting Division, Attorney-General's
Department.



Statutory Rules 1986 No. 1

399/

**National Measurement Regulations²
(Amendment)**

I, THE GOVERNOR-GENERAL of the Commonwealth of Australia, acting with the advice of the Federal Executive Council, hereby make the following Regulations under the *National Measurement Act 1960*.

Dated 18th December 1986.

N. M. STEPHEN

Governor-General

By His Excellency's Command,

Barry Jones

Minister of State for Science

Principal Regulations

1. In these Regulations, "Principal Regulations" means the National Measurement Regulations.

2. After Division 34 of Part II of the Principal Regulations the following Division is inserted:

"Division 35—Dose equivalent, dose equivalent index (ionizing radiation)

Units of measurement of dose equivalent and dose equivalent index

"76. (1) The units of measurement of dose equivalent and dose equivalent index are the units specified in Column 2 in Schedule 36.

"(2) A unit of measurement specified in an item in Schedule 36 is related to the sievert as specified in Column 3 of that item in that Schedule.

"(3) A unit of measurement specified in an item in Schedule 36 may be referred to by the symbol specified in Column 4 of that item in that Schedule.

The sievert

“76A. The sievert is the dose equivalent or dose equivalent index where—

- (a) an absorbed dose of ionizing radiation equal to one gray is delivered to a biological material; and
- (b) the conditions under which the dose is delivered satisfy the formula—

$$Q \times N = 1$$

where—

Q is a factor that is the quality factor representing the effect on the detriment of the microscopic distribution of absorbed energy; and

N is a factor that is the product of all other modifying factors specified by the International Commission on Radiological Protection as at the commencement of these Regulations,

being in each case a factor having the value specified by that Commission as at the commencement of these Regulations.”.

Verifying authorities

3. Regulation 77 of the Principal Regulations is amended by omitting from paragraph (2) (a) “or a State or Territory of the Commonwealth” and substituting “, a State or a Territory”.

Verification, &c., of standards of measurement to which section 9 of the Act applies

4. Regulation 79 of the Principal Regulations is amended by omitting from paragraph (2) (d) “of this sub-regulation”.

Schedule 36

5. The Principal Regulations are amended by adding at the end the following Schedule:

SCHEDULE 36

Regulation 76

UNITS OF MEASUREMENT OF DOSE EQUIVALENT AND DOSE EQUIVALENT INDEX (IONIZING RADIATION)

Column 1	Column 2	Column 3	Column 4
Item	Name of unit	Dose equivalent or dose equivalent index in sieverts	Symbol
1	megasievert	10 ⁶	MSv
2	kilosievert	10 ³	kSv
3	sievert	1	Sv
4	millisievert	10 ⁻³	mSv
5	microsievert	10 ⁻⁶	μSv
6	nanosievert	10 ⁻⁹	nSv
7	picosievert	10 ⁻¹²	pSv
8	gigarem	10 ⁷	Grem
9	megarem	10 ⁴	Mrem
10	kilorem	10	krem
11	rem	10 ⁻²	rem
12	millirem	10 ⁻⁵	mrem

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NOTES

1. Notified in the *Commonwealth of Australia Gazette* on 1 1986. 12 January/ 7/
2. Statutory Rules 1961 No. 142 as amended to date. For previous amendments *see* Note 2 to Statutory Rules 1986 No. 172 and *see also* Statutory Rules 1986 No. 172.