



Australian Government

Department of Industry, Science,
Energy and Resources

**National
Measurement
Institute**

**Appointment as a Certifying Authority
for
Reference Materials**

In accordance with Regulation 73 of *National Measurement Regulations 1999* (Cth), in force under the *National Measurement Act 1960* (Cth), the Chief Metrologist hereby appoints:

**Australian Nuclear Science and Technology Organisation (ANSTO)
New Illawarra Road,
Lucas Heights NSW 2234
ABN (47 956 969 590)**

to be a Certifying Authority for the certification of reference materials under regulation 48 of the *National Measurement Regulations 1999* (Cth) for the following reference material(s):

Radionuclides

This appointment is for the period from 01 April 2021 to 01 April 2024 and is limited to the range specified in the attached schedule, and the use of procedures approved by the Chief Metrologist.

Dated this First day of April 2021

Signed

James Cantrill
For Dr Richard Bruce Warrington
Chief Metrologist
National Measurement Institute

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Schedule to Appointment as a Certifying Authority for Reference Materials

Australian Nuclear Science and Technology Organisation (ANSTO)
New Illawarra Road,
Lucas Heights NSW 2234
ABN (47 956 969 590)

Reference material	Type and range of properties		Least uncertainty
	Activity (Bq)	Activity Concentration (Bq g ⁻¹)	
1. Fluorine-18	1.00E+04 to 1.00E+10	1.00E+04 to 1.00E+12	1.6% (<i>k</i> =1)
2. Gallium-68	1.00E+04 to 1.00E+9	1.00E+04 to 1.00E+12	1.0% (<i>k</i> =1)
3. Germanium-68/ Gallium-68	1.00E+04 to 1.00E+9	1.00E+04 to 1.00E+12	1.0% (<i>k</i> =1)
4. Iodine-131	4.00E+04 to 1.00E+10	1.00E+04 to 1.00E+12	1.0% (<i>k</i> =1)
5. Lutetium-177	3.00E+05 to 1.00E+11	1.00E+04 to 1.00E+12	1.2% (<i>k</i> =1)
6. Strontium-89	2.00E+06 to 1.00E+10	1.00E+04 to 1.00E+12	1.0% (<i>k</i> =1)
7. Strontium-90/ Yttrium- 90	2.00E+06 to 1.00E+08	1.00E+04 to 1.00E+12	1.0% (<i>k</i> =1)
8. Technetium-99m	8.00E+04 to 1.00E+10	1.00E+04 to 1.00E+12	1.2% (<i>k</i> =1)
9. Tritium	2.00E+06 to 1.00E+13	1.00E+04 to 1.00E+12	1.0% (<i>k</i> =1)
10. Yttrium-90	2.00E+06 to 1.00E+10	1.00E+04 to 1.00E+12	1.0% (<i>k</i> =1)

James Cantrill
 For Dr Richard Bruce Warrington
 Chief Metrologist
 National Measurement Institute

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Signatories

The following persons are the permitted signatories under this appointment:

Name	Reference Material	Range
Freda van Wyngaardt	as per the scope of this schedule	as per the scope of this schedule
Michael Smith	Fluorine-18, Gallium-68, Germanium-68/ Gallium-68, Iodine-131, Lutetium-177 and Technetium-99m	as per the scope of this schedule

Statutory Conditions

This appointment as a certifying authority for reference materials under regulation 73 of the *National Measurement Regulations 1999* (Cth) is subject to the conditions stated in regulation 77 of the *National Measurement Regulations 1999* (Cth) as amended. At the time of appointment regulation 77 contains the following conditions:

- (a) That the authority participate in training, related to the performance of the duties of an authority, required by the Chief Metrologist;
- (b) That the authority report, as required by the Chief Metrologist, about its performance of its duties;
- (c) That the authority, and any responsible agent or employee of the authority, comply with the *National Measurement Act 1960* (Cth) and the *National Measurement Regulations 1999* (Cth) and any condition stated in the instrument of appointment.
- (d) That the authority comply with any determinations applying to the authority under regulation 52 of the *National Measurement Regulations 1999* (Cth).

James Cantrill
For Dr Richard Bruce Warrington
Chief Metrologist
National Measurement Institute

Additional Conditions

In addition to the statutory conditions of appointment of authorities contained in regulation 77 of the *National Measurement Regulations 1999* (Cth) this appointment is also subject to the following conditions:

- (i) Continuing third party accreditation against AS/NZS ISO 9001:2008 *Quality Management Systems – Requirements* and the maintenance of a quality system that satisfies the requirements of the International Bureau of Weights and Measures (BIPM) for participation in the BIPM Mutual Recognition Arrangement (BIPM-MRA);
- (ii) The authority shall take appropriate steps during the term of this appointment, towards obtaining accreditation against AS ISO/IEC 17025 *General requirements for the competence of testing and calibration laboratories* in the form of NATA accreditation.
- (iii) The authority shall not engage a responsible agent or arrange for any reference material to be certified by an agent or anyone under its supervision without obtaining the prior consent of the Chief Metrologist in writing;
- (iv) Discharge of all financial obligations to the National Measurement Institute in respect of this appointment;
- (v) Compliance with the formatting and/or any other requirements of the Chief Metrologist and/or the National Measurement Institute with respect to certificates of certification of reference materials;
- (vi) During the term of this appointment each signatory under this appointment must attend a legal metrology seminar conducted by the Policy and Regulatory Services Section of the Legal Metrology Branch of the National Measurement Institute;
- (vii) This appointment revokes and replaces any previous appointments and/or any extensions granted to any previous appointments.

Notes: Nil.

James Cantrill
For Dr Richard Bruce Warrington
Chief Metrologist
National Measurement Institute