

Radiation Protection Act 2005

**Guide for Suppliers Licensed to Sell, Service, Repair
and Install Sealed Radiation Sources in Tasmania**

This guide contains:

- **A checklist outlining the steps involved when selling** a sealed radiation source and its associated container/housing in Tasmania.
Following the checklist will assist suppliers to comply with the legislation and their licence conditions.
- **An example certificate of compliance.**
A licensed supplier is authorised by the *Radiation Protection Act 2005* to issue certificates of compliance for new radiation sources. All radiation sources containing sealed radiation sources in Tasmania must have a current certificate of compliance in order for them to be authorised for use.
- **An extract of the “sell” licence conditions.**
This extract is provided to draw attention to the specific requirements relating to selling sealed radiation sources; however the full licence document and conditions must be complied with.

For assistance please phone:

Radiation Protection Unit: (03) 6222 7256

Email: radiation.protection@dhhs.tas.gov.au

**Radioactive Source Identification Numbers (RSINs) may be requested by
phone or email**

Templates and Standards may be found at:

Web: www.dhhs.tas.gov.au/peh/radiation_protection

Checklist for a supplier licensed to “Sell, Service, Repair and Install” Sealed Radiation Sources in Tasmania

Step	Explanation	Outcome
<p>1 - The supplier must verify that the Tasmanian customer has a licence to possess the sealed radiation source.</p>	<p>The supplier’s licence conditions prohibit sale to unauthorised persons.</p> <p>Note: it is most likely the customer will need to seek an amendment to their existing licence to authorise the acquisition of the new sealed radiation source.</p>	<p>Yes - The customer provided a 6 digit Tasmanian licence number of the form L/123456 with an expiry date of 31 August 20YY. Proceed to step 2.</p> <p>No - The supplier should advise the customer to contact Radiation Protection Unit to arrange the necessary licence or amendment to licence. (03) 6222 7256 radiation.protection@dhhs.tas.gov.au</p> <p>Supplier must wait until the customer has their licence or licence amendment approved before proceeding to step 2.</p>
<p>2 - The supplier must check that the particular type of gauge/sealed radiation source is authorised on the supplier’s licence.</p>	<p>The supplier’s licence can authorise many types of gauges/sealed radiation sources. Any model not listed on the supplier’s licence is currently not authorised for sale.</p>	<p>Yes - The supplier has verified that this make and model of gauge and sealed radiation source are authorised on the supplier’s licence. Proceed to step 3.</p> <p>No - The supplier needs to seek an amendment to their licence to sell this particular gauge/sealed radiation source type.</p> <p>The supplier must wait until the supplier’s licence amendment is approved before proceeding to step 3.</p>

Step	Explanation	Outcome
<p>3 - The supplier must check that the person(s) who will be installing the gauge/sealed radiation source is –</p> <p>EITHER authorised on the supplier’s licence to service repair and install that type of gauge/sealed radiation source</p> <p>OR holds an individual licence in Tasmania which allows them to service, repair and install that type of gauge/sealed radiation source.</p>	<p>The supplier’s licence can authorise many people under the single licence document. If changes in staff have occurred it may be that some staff are not currently authorised on the supplier’s licence.</p>	<p>Yes - The supplier has verified that the person(s) who will install the gauge is either authorised on the supplier’s licence or holds an individual licence. Proceed to step 4.</p> <p>No - The supplier needs to seek an amendment to their licence to include this person(s) as being authorised to “sell, service repair or install” (as the case may be) on the supplier’s licence, or the person applies for an individual licence. The supplier must not permit any person to install the gauge/sealed radiation source until the supplier’s licence amendment is approved.</p>
<p>4 - The supplier must notify the Radiation Protection Unit of the intended sale to the Tasmanian licence holder.</p>	<p>The supplier’s licence conditions require such notification.</p>	<p>The supplier can do this by phone or email: (03) 6222 7256 radiation.protection@dhhs.tas.gov.au</p>
<p>5 - The supplier has obtained the details from the source supplier for the radiation source that will be used in this particular gauge. The details required are:</p> <ul style="list-style-type: none"> . Material (eg Cs 137) . Activity . Encapsulation . Special Form number/certificate leak test report 	<p>This is required in order for the gauge and sealed radiation source to comply with the “CERTIFICATE OF COMPLIANCE: STANDARD FOR SEALED RADIATION SOURCE - (particular type named here)”.</p>	<p>Yes – The supplier must forward these documents to the Radiation Protection Unit and ask for a “Radioactive Source Identification Number – RSIN”. This is a Tasmanian registration number for the gauge housing and the sealed radiation source combination. Proceed to step 6.</p> <p>No - The supplier must wait until the sealed radiation source information has been forwarded to the Radiation Protection Unit before proceeding to step 6.</p>

Step	Explanation	Outcome
<p>6 - The supplier must provide a written guarantee to accept return of the sealed radiation source when it is no longer required by the Tasmanian licence holder. This guarantee must be traceable to the original manufacturer of the source.</p>	<p>The supplier's licence conditions require this.</p>	<p>Yes - The supplier must forward a copy of this guarantee to the Radiation Protection Unit. Proceed to step 7.</p> <p>No - The supplier must wait as the supplier is not fulfilling their conditions of licence. The supplier must seek advice from the Radiation Protection Unit.</p>
<p>7 - The supplier notifies the Radiation Protection Unit and then transports the sealed radiation source to Tasmania.</p>	<p>The supplier must transport the source in accordance with regulations.</p> <p>The supplier must notify the Radiation Protection Unit of the transport of the sealed radiation source.</p> <p>The supplier's licence conditions require notification of transport.</p>	<p>Yes – Transport proceeds. Proceed to step 8.</p> <p>No – Transport cannot proceed until the Radiation Protection Unit has been notified.</p>
<p>8 - The authorised person, on behalf of the supplier, installs the sealed radiation source/gauge and certifies it.</p>	<p>The <i>Radiation Protection Act 2005</i> provides for a licensed supplier to issue the first certificate of compliance for a new sealed radiation source/gauge.</p> <p>The licensed supplier can do this if they have information that the sealed radiation source/gauge complies with the Tasmanian Standard.</p> <p>The Radioactive Source Identification Number (RSIN) is basically a Tasmanian registration number for the gauge and sealed radiation source. It needs to be obtained from the Radiation Protection Unit and is required for completing the certificate of compliance.</p>	<p>The supplier can prepare and issue a certificate of compliance for this particular gauge and sealed radiation source combination if the supplier has information indicating the housing, installation and sealed radiation source comply with the requirements of:</p> <p>“CERTIFICATE OF COMPLIANCE: STANDARD FOR SEALED RADIATION SOURCE - (particular type named here)”.</p> <p>Compliance standards are based on the international and national Standards.</p> <p>Give the certificate to the Tasmanian customer and submit a copy to the Radiation Protection Unit.</p> <p>See over page for an example certificate of compliance.</p>

Example of a Certificate of Compliance for Static Radiation Gauge

The *Radiation Protection Act 2005* provides for a licensed supplier to issue the first certificate of compliance for a new radiation gauge. The licensed supplier can do this if they have information that the gauge type and the sealed radiation source comply with the Tasmanian Standard. The Standards are available at:

http://www.dhhs.tas.gov.au/peh/radiation_protection/publications/standards_for_certificates_of_compliance

Tasmanian Radiation Protection Act 2005 Section 17(1)(a)

Certificate of Compliance: Sealed Radiation Source

Issued by **<INSERT SUPPLIER COMPANY NAME>** as a company licensed in Tasmania to sell **<INSERT NAME of MANUFACTURER/ PARENT COMPANY>** gauge and sealed radiation source

The Serial Numbers: **<INSERT MAKE and MODEL>**
<INSERT SERIAL NUMBERS OF THE GAUGE AND SEALED RADIATION SOURCE>

Supplied to: **<INSERT NAME of LICENCE HOLDER>**

On: **<DD/MM/YYYY>**

Complies with the: **CERTIFICATE OF COMPLIANCE: STANDARD FOR SEALED RADIATION SOURCE - STATIC RADIATION GAUGE**

< INSERT NAME OF MANUFACTURER/PARENT COMPANY>

provided declaration of conformity documents which reference the following standards to which conformity for this device is declared:

ARPANSA RPS 13 - Safe Use of Fixed Radiation Gauges

RPS 2 Code of Practice - Safe transport of radioactive material

RAR Regulatory Authority Requirements – Department of Health and Human Services

These standards are those required for a certificate of compliance for this type of sealed radiation source to be issued under the *Tasmanian Radiation Protection Act 2005*.

Certificate of Compliance number: **20YY - ____ - ____ - ____**

To complete the certificate of compliance a Radioactive Source Identification Number (RSIN) for this particular sealed radiation source needs to be obtained from the Radiation Protection Unit. Format of compliance number is YYYY-MM-DD-RSIN

Expiry date for certificate of compliance (date issued plus 1 year) **____/____/____**

Signed _____ for **< INSERT SUPPLIER COMPANY NAME >**

Date **____/____/____**

Extract of licence condition for SELL

Please consult with the supplier's licence documents to ensure full compliance.

Sell radioactive material: sealed source

Prior notification

The licence holder must notify the Director of Public Health of their intention to sell a sealed source (including for the purposes of demonstration, trialling and/or evaluation) **AT LEAST 28 DAYS** prior to the sale occurring.

Fit for purpose

The licence holder is authorised to sell radioactive material listed in Schedule 1 (*of the seller's licence*) and identified as a sealed source, and associated housing, only for the purpose for which it has been specifically designed.

Compliance with Standards

The licence holder may only sell a sealed radiation source that meets the specifications for the standard for compliance, approved by the Director of Public Health, for that type of sealed radiation source.

Note: *The supplier should, on request, be able to provide the required technical information to demonstrate whether sealed radiation source and associated housing of interest would comply with the relevant standard.*

Should there be no applicable standard for compliance for the type of sealed radiation source and associated housing intended to be sold, then the applicant must notify the Director of Public Health **more than 28 days** prior to the intended sale occurring, to allow for that type of sealed radiation source and associated housing to be assessed and a standard prepared.

Prohibition of selling to an unauthorised person

The licence holder may only sell a sealed radiation source when the purchaser in Tasmanian is authorised by a current licence to acquire that particular sealed radiation source.

Note: *Where the sealed radiation source is being acquired from an interstate or international supplier the licence holder acquiring the sealed radiation source must still comply fully with all of the conditions for "Acquire radioactive material: sealed source".*

Guarantee from supplier to accept return of the sealed source

The licence holder must forward to the Director of Public Health a copy of a written guarantee from the supplier to accept return of any sealed source no longer required by the licence holder. This guarantee must be traceable to the original manufacturer of the source.

Sealed sources within the manufacturer's recommended working life

The licence holder may only sell the sealed source listed in Schedule 1 (*of the seller's licence*) for use in the intended application if it is within the manufacturer's recommended working life, or the licence holder has written approval for its use from the Director of Public Health.

Notification of the transport of sealed source

The licence holder must inform the Director of Public Health in advance of all shipments of sealed sources into and out of Tasmania.

Definition: A sealed source is defined by the International Atomic Energy Agency as: “Radioactive material that is (a) permanently sealed in a capsule or (b) closely bounded and in a solid form. The capsule or material of a sealed source shall be strong enough to maintain leaktightness under the conditions of use and wear for which the source was designed, also under foreseeable mishaps.” In their catalogue, Amersham point out that Iridium-192 wire (hairpins and single pins for temporary interstitial implant treatments) is not classified as a “sealed radiation source” because it is activated by neutron irradiation and so its cladding remains slightly radioactive.

Limitations may apply to the sealed source

The licence holder is authorised to sell a sealed source only under the limitations specified against that material in Schedule 1 (of the seller’s licence).