

## LICENCE HOLDER QUARTERLY REPORT For Sources and Prescribed Radiation Facilities

To be completed in conjunction with REGULATORY GUIDE: Reporting Compliance

<b>Licence No:</b>	S0002	<b>Licence Holder:</b>	ARPANSA RHS Branch		
<b>Facility/Division:</b>	Radiation Health Services Branch		<b>Site/Location:</b>	619 Lower Plenty Road, YALLAMBIE VIC 3085	
<b>Reporting Person Name:</b>	Andrew Yule		<b>Position:</b>	Radiation Safety Officer	
<b>Reporting Period:</b>	01-Oct-2018	to	31-Dec-2018	<b>Report Date:</b>	25-Jan-2019

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4 Were there any sources acquired?

*Regulation 52 requires the licence holder to report changes*

Yes

16 drums of soil potentially containing small amounts of radium-226 were transferred to ARPANSA from the University of Melbourne. This follows the drums received in Q3. Please see attached SIW for details.

S 22

Released by ARPANSA under the Freedom of Information Act

## LICENCE HOLDER QUARTERLY REPORT For Sources and Prescribed Radiation Facilities

To be completed in conjunction with REGULATORY GUIDE: Reporting Compliance

<b>Licence No:</b>	S0002	<b>Licence Holder:</b>	ARPANSA RHS Branch	
<b>Facility/Divison:</b>	Radiation Health Services Branch	<b>Site/Location:</b>	619 Lower Plenty Road, YALLAMBIE VIC 3085	
<b>Reporting Person Name:</b>	Andrew Yule	<b>Position:</b>	Deputy Radiation Safety Officer	
<b>Reporting Period:</b>	01-Apr-2018	to	30-Jun-2018	<b>Report Date:</b> 27-Jul-2018

4 Were there any sources acquired?

*Regulation 52 requires the licence holder to report changes*

Yes

Waste transferred from University of Melbourne site. Updated SIW attached.

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<b>Facility/Division:</b>	Radiation Health Services Branch		<b>Site/Location:</b>	619 Lower Plenty Road, YALLAMBIE VIC 3085	
<b>Reporting Person Name:</b>	Andrew Yule		<b>Position:</b>	Radiation Safety Officer	
<b>Reporting Period:</b>	01-Oct-2018	to	31-Dec-2018	<b>Report Date:</b>	25-Jan-2019

S 22

4 Were there any sources acquired?

*Regulation 52 requires the licence holder to report changes*

Yes

16 drums of soil potentially containing small amounts of radium-226 were transferred to ARPANSA from the University of Melbourne. This follows the drums received in Q3. Please see attached SIW for details.

S 22

S 22



# Source Licence

Under section 33 of the *Australian Radiation Protection and Nuclear Safety Act 1998*, (the Act) I, James Scott, Delegate of the CEO of ARPANSA, issue a source licence to


## Australian Radiation Protection and Nuclear Safety Agency (ARPANSA)

authorising the persons identified below to deal with the controlled apparatus and/or controlled material described in Schedule 1 and held by Radiation Health Services Branch subject to the following:

1. Conditions in section 35 of the Act
2. Conditions in Part 5 Division 6 of the Australian Radiation Protection and Nuclear Safety Regulations 2018 (the Regulations)
3. Practices and procedures to be followed in Part 6 of the Regulations
4. Conditions in Schedule 2 of this licence

Persons covered by this licence are the licence holder, employees of the licence holder, Commonwealth contractors, employees of Commonwealth contractors, and Permitted Persons

ISSUED at Sydney this 17<sup>th</sup> day of June, 2019



James Scott  
Delegate of the CEO of ARPANSA

## Schedule 1

### Controlled Apparatus and Controlled Material

Group <sup>1</sup> & Item No	Kind of controlled apparatus and/or controlled material
G1-1	Sealed source used for calibration purposes with activity of 40 MBq or less
G1-6	Sealed source that:(a) is in storage and awaiting disposal; and (b) has a nuclide with a maximum activity of not more than $10^9$ times the activity value for that nuclide in Part 1 of Schedule 1
G1-8	Unsealed source, or sources, in a laboratory or particular premises, having nuclides such that when the maximum activity of each nuclide in the source, or sources, is divided by the activity value for that nuclide set out in Part 1 of Schedule 1, the total of the results for all nuclides in the source, or sources, is not more than $10^2$
G1-22	Optical source, other than a laser product, emitting ultraviolet radiation, infra-red or visible light
G1-23	A laser product with an accessible emission level more than the accessible emission limit of a Class 3R laser product as set out in AS/NZS IEC 60825.1:2014
G1-25	Sealed source not mentioned in another item of this table or in the definition of Group 2 or Group 3, dealings with which do not have the potential for accidental exposure likely to exceed the dose limits mentioned in sections 77 and 79 of the Regulations (a) Sealed source for training and education purposes of activity 40 MBq or less
G2-1	Sealed source for calibration purposes of activity of more than 40 MBq
G2-7	Unsealed source, or sources, in a laboratory or particular premises, having nuclides such that when the maximum activity of each nuclide in the source, or sources, is divided by the activity value for that nuclide set out in Part 1 Schedule 1 of the Regulations, the total of the results for all nuclides in the source, or sources, is more than $10^2$ but not more than $10^4$
G2-14	Sealed source not mentioned in another item of this table or in the definition of Group 1 or Group 3, dealings with which have the potential for accidental exposure likely to exceed a dose limit mentioned in sections 77 and 79 of the Regulations but unlikely to result in acute effect (a) Sealed source for training and education purposes of activity more than 40 MBq
G3-6	Unsealed source, or sources, in a laboratory or particular premises, having nuclides such that when the maximum activity of each nuclide in the source, or sources, is divided by the activity value for that nuclide set out in Part 1 of Schedule 1 of the Regulations, the total of the results for all nuclides in the source, or sources, is more than $10^4$ but not more than $10^6$

<sup>1</sup> Group and Item as set out in section 4 of the Regulations



## Schedule 2

### Licence Conditions

1. The licence holder must maintain effective control of all sources authorised by this licence; this includes maintaining an accurate inventory in a form acceptable to the CEO of ARPANSA.
2. The licence holder must provide to the CEO of ARPANSA, within twenty-eight (28) days of the end of each quarter, information about compliance with the Act, the Regulations and licence conditions for the previous quarter year.
3. The licence holder must comply with relevant parts of the codes and standards applicable to the sources described in Schedule 1 of this licence. Applicable codes and standards can be found on the ARPANSA website at:  
[www.arpansa.gov.au/regulation-and-licensing/licensing/information-for-licence-holders/licence-conditions/applicable-codes-and-standards](http://www.arpansa.gov.au/regulation-and-licensing/licensing/information-for-licence-holders/licence-conditions/applicable-codes-and-standards)
4. The licence holder must, at least once every three (3) years, conduct a self-assessment against each applicable code and standard to ensure compliance.
5. The licence holder must ensure that any person who deals with sources authorised by this licence, including repair or maintenance of the sources, has received appropriate training in radiation safety and training with respect to their use or operation.



Australian Government

Australian Radiation Protection and Nuclear Safety Agency

S0002

# Source Licence

Under Section 33 of the *Australian Radiation Protection and Nuclear Safety Act 1998*, (the Act) I, Martin Dwyer, Delegate of the CEO of ARPANSA, issue a source licence to:

## Australian Radiation Protection and Nuclear Safety Agency

that authorises the persons identified below to deal with the controlled apparatus and controlled material described in Schedule 1 and held by Radiation Health Services, subject to the following:

1. Conditions in section 35 of the Act
2. Conditions in Part 4 Division 4 of the Australian Radiation Protection and Nuclear Safety Regulations 1999 (the Regulations)
3. Practices to be followed in Part 5 of the Regulations
4. Conditions in Schedule 2 of this licence.

Persons covered by this licence are the licence holder, employees of the licence holder, Commonwealth contractors and employees of Commonwealth contractors.

ISSUED at Sydney, this 23<sup>rd</sup> day of April 2013

Martin Dwyer

Delegate of the CEO of ARPANSA

This licence continues in force until cancelled or surrendered

**Schedule 1**  
**Controlled Apparatus and Controlled Material<sup>1</sup>**

Group <sup>2</sup>	Item <sup>2</sup>	Kind of controlled apparatus and controlled material
Group 1	1	Sealed source for calibration purposes of activity of 40 MBq or less
	6	Sealed source that: (a) is in storage and awaiting disposal; and (b) has a nuclide with a maximum activity of not more than 10 <sup>9</sup> times the amount mentioned in column 4 of Part 2 of Schedule 2 (of the Regulations) for that kind of nuclide
	8	Unsealed source, or sources, in a laboratory or premises, having nuclides such that when the maximum activity of each nuclide in the source, or sources, is divided by the amount mentioned in column 4 of Part 2 of Schedule 2 (of the Regulations) for that kind of nuclide, the total of the results for all nuclides in the source, or sources, is not more than 100
	22	Optical source, other than a laser product, emitting ultraviolet radiation, infrared or visible light
	23	A laser product with an accessible emission level more than the accessible emission limit of a Class 3R laser product as set out AS/NZS 2211.1:2004 <i>Safety of Laser Products – Equipment Classification, Requirements and User's Guide</i>
	g	Sealed source for training and education purposes of activity 40 MBq or less
Group 2	25	Sealed source for calibration purposes of activity of more than 40 MBq
	31	Unsealed source, or sources, in a laboratory or premises, having nuclides such that when the maximum activity of each nuclide in the source, or sources, is divided by the amount mentioned in column 4 of Part 2 of Schedule 2 (of the Regulations) for that kind of nuclide, the total of the results for all nuclides in the source, or sources, is more than 100 but not more than 10 000
	h	Sealed source for training and education purposes of activity more than 40 MBq
Group 3	43	Unsealed source, or sources, in a laboratory or premises, having nuclides such that when the maximum activity of each nuclide in the source, or sources, is divided by the amount mentioned in column 4 of Part 2 of Schedule 2 (of the Regulations) for that kind of nuclide, the total of the results for all nuclides in the source, or sources, is more than 10 000 but not more than 1 000 000

<sup>1</sup> Source details are specified in the licence holder's inventory of controlled apparatus and controlled material.

<sup>2</sup> Group and item of controlled apparatus or controlled material as set out in Part 1 of Schedule 3C of the Regulations. Where controlled apparatus or controlled material does not match a specific item, group allocation has been made on the basis of assessment of hazard

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## Schedule 2 Licence Conditions

### Source Inventory

1. The licence holder must maintain an up to date, accurate inventory of all controlled apparatus and controlled material in a form acceptable to the CEO of ARPANSA.

### Compliance Reporting

2. The licence holder must provide to the CEO of ARPANSA within twenty-eight (28) days of the end of each quarter, or such other period as determined by the CEO of ARPANSA, and in a form acceptable to the CEO, information about compliance for the previous quarter year.

### Training

3. The licence holder must ensure that any person who deals with the controlled apparatus and controlled material has received appropriate training in radiation safety and training with respect to use or operation of the controlled apparatus and controlled material authorised by this licence.
4. The licence holder must ensure that any person who repairs or maintains controlled apparatus and controlled material has appropriate qualifications and training with respect to the controlled apparatus and controlled material authorised by this licence.

### Work Practices

5. The licence holder must ensure that appropriate work procedures, records and practices in relation to the controlled apparatus and controlled material are documented, maintained, approved by the licence holder's safety committee or radiation safety officer, and followed.

### Standards and Codes of Practice

6. The licence holder must ensure compliance with relevant sections of the following standards and codes of practice as they pertain to the controlled apparatus and controlled material authorised by this licence:

Relevant Standards and Codes of Practice	Item from Schedule 1 to which condition applies
(a) Radiation Protection Series No. 1 <i>Recommendations for Limiting Exposure to Ionizing Radiation (1995) and National Standard for Limiting Occupational Exposure to Ionizing Radiation (republished 2002)</i>	1, 6, 8, 25, 31, 43, g, h
(b) Australian Standard <i>Safety in Laboratories - Ionizing Radiations (1998)</i> (AS 2243.4-1998)	
(c) Radiation Protection Series No. 12 <i>Radiation Protection Standard for Occupational Exposure to Ultraviolet Radiation (2006)</i>	22

**Schedule 2 continued  
Licence Conditions**

Relevant Standards and Codes of Practice	Item from Schedule 1 to which condition applies
(d) Radiation Health Series 13 <i>Code of practice for the disposal of radioactive wastes by the user (1985)</i>	8, 31, 43
(e) Australian/New Zealand Standard <i>Safety in laboratories - Non-ionizing radiations-Electromagnetic, sound and ultrasound (2004) (AS/NZS 2243.5:2004)</i>	22
(f) Australian/New Zealand Standard <i>Safety of laser products Part 1: Equipment classification (AS/NZS IEC 60825-1:2011)</i>	23
(g) Australian/New Zealand Standard <i>Safety of laser products Part 14: A user's guide (AS/NZS IEC 60825-14:2011)</i>	



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## Australian Radiation Protection and Nuclear Safety Agency (ARPANSA)

that authorises the persons identified below to deal with the controlled apparatus and controlled material described in Schedule 1 and held by Radiation Health Services Branch subject to the following:

1. Conditions in section 35 of the Act
2. Conditions in Part 4 Division 4 of the Australian Radiation Protection and Nuclear Safety Regulations 1999 (the Regulations)
3. Practices to be followed in Part 5 of the Regulations
4. Conditions in Schedule 2 of this licence

Persons covered by this licence are the licence holder, employees of the licence holder, Commonwealth contractors, employees of Commonwealth contractors, and Permitted Persons.

ISSUED at Sydney, this 23<sup>rd</sup> day of November 2018.



James Scott  
Delegate of the CEO of ARPANSA

## Schedule 1

### Controlled Apparatus and Controlled Material

Group 1 <sup>1</sup>	Item No <sup>1</sup>	Kind of controlled apparatus or controlled material
	1	Sealed source for calibration purposes of activity of 40MBq or less
	6	Sealed source that: (a) is in storage and awaiting disposal; and (b) has a nuclide with a maximum activity of not more than 10 <sup>9</sup> times the amount mentioned in column 4 of Part 2 of Schedule 2 for that kind of nuclide
	8	Unsealed source, or sources, in a laboratory or premises, having nuclides such that when the maximum activity of each nuclide in the source, or sources, is divided by the amount mentioned in column 4 of Part 2 of Schedule 2 for that kind of nuclide, the total of the results for all nuclides in the source, or sources, is not more than 100
	22	Optical source, other than a laser product, emitting ultraviolet radiation, infra-red or visible light.
	23	A laser product with an accessible emission level more than the accessible emission limit of a Class 3R laser product as set out in AS/NZS IEC 60825.1:2011 <i>Safety of Laser Products – Equipment classification and requirements</i>
	24A	Sealed source of controlled material not mentioned in another item of Schedule 3C, part 1 of the Regulations, dealings with which have the potential for accidental exposure but the exposure would be unlikely to exceed the dose limits mentioned in regulations 59 and 62 (1) Sealed source for training and education purposes of activity 40MBq or less
Group 2	25	Sealed source for calibration purposes of activity of more than 40MBq
	31	Unsealed source, or sources, in a laboratory or premises, having nuclides such that when the maximum activity of each nuclide in the source, or sources, is divided by the amount mentioned in column 4 of Part 2 of Schedule 2 (of the Regulations) for that kind of nuclide, the total of the results for all nuclides in the source, or sources, is more than 100 but not more than 10 000
	37A	Sealed source of controlled material not mentioned in another item of this Schedule, dealings with which have the potential for accidental exposure that is likely to exceed a dose limit mentioned in regulations 59 and 62 but that is unlikely to result in acute effects (1) Sealed source for training and education purposes of activity more than 40MBq
Group 3	43	Unsealed source, or sources, in a laboratory or premises, having nuclides such that when the maximum activity of each nuclide in the source, or sources, is divided by the amount mentioned in column 4 of Part 2 of Schedule 2 (of the Regulations) for that kind of nuclide, the total of the results for all nuclides in the source, or sources, is more than 10 000 but not more than 1 000 000

<sup>1</sup> Group and Item of controlled apparatus or controlled material as set out in Part 1 of Schedule 3C of the Regulations.

## Schedule 2

### Licence Conditions

1. The licence holder must maintain effective control of all sources authorised by this licence; this includes maintaining an accurate inventory in a form acceptable to the CEO of ARPANSA.
2. The licence holder must provide to the CEO of ARPANSA, within twenty-eight (28) days of the end of each quarter, information about compliance with the Act, the Regulations and licence conditions for the previous quarter year.
3. The licence holder must comply with the codes and standards applicable to the sources described in Schedule 1 and must, at least once every three (3) years, conduct a self-assessment against each applicable code and standard to ensure compliance. Applicable codes and standards can be found on the ARPANSA website at:  
<http://www.arpansa.gov.au/Regulation/LicenceHolders/conditionscodes.cfm>.
4. The licence holder must ensure that any person who deals with sources authorised by this licence, including repair or maintenance of the sources, has received appropriate training in radiation safety and training with respect to their use or operation.