# Senate Standing Committee Foreign Affairs, Defence and Trade

### Radioactive Waste at Woomera

## RESPONSE TO REQUEST FOR INFORMATION

## Department of Defence

### Outcome:

#### **Question Number:**

Senator: Rex Patrick

**Question Format:** Written

Committee Due Date: 20 February 2019

#### Question:

A brief should be prepared for each sites within the WPA for each site (circa 1-2 page each):

- Name/Identifier
- Rough location
- Rough description of facility (building, shed, bunker etc) and, if possible, a photo
- Who's Responsibility for the site
- Who 'owns' the waste
- Total quantities, also broken down into:
- o Ownership
- o Level low or intermediate
- History of the facility
- History of where the waste originated and a high level description of the waste
- Security and safety
- Any current ongoing activities
- Annual cost
- Future plans e.g. will remain, will go to NRWMF, will go elsewhere

#### Answer:

Two tables are provided below that set out the requested information in relation to the Koolymilka Radioactive Waste Storage Facility and the Commonwealth Scientific and Industrial Research Organisation waste at the Hanger 5 Annex.

Koolymilka Radioactive Waste Storage Facility	
Rough location	The facility is located adjacent the Technical Area at Koolymilka, within the Rangehead complex of E-Range, which forms the south eastern part of the Woomera Prohibited Area. This area is approximately 50 kilometres west of the Woomera Village.
Rough description of facility	Repurposed explosives storage facility constructed from brick and concrete.
Responsibility for the site	Defence owns the land and the building.
Who 'owns' the waste and total quantities	Defence owns a small proportion (5.68 cubic metres) of the total volume (59.68 cubic metres) of waste that is stored at the facility. The remaining 54 cubic metres is legacy waste that is owned by other Government agencies, but is managed by Defence (this is referred to as Defence administered waste).
Level – low or intermediate	Low and intermediate level waste is held.
History of the facility	The facility was established under an Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) Facility Licence F0213, which was issued on 22 December 2009.
History of where the waste originated and a high level description of the waste  Security and safety	The radioactive waste stored at the facility originated from two earlier Defence radioactive waste storage facility sites: Launch Area 5, at the Woomera Prohibited Area (ARPANSA Facility Licence F0084) and Building 16, Edinburgh, South Australia (ARPANSA Facility Licence F0117). The Launch Area 5 waste was originally stored at St Mary's in New South Wales, and was moved to the Woomera Prohibited Area for storage on Commonwealth owned land at the Woomera Rangehead, under a Cabinet Direction in 1995. No waste has been held at Launch Area 5 since 2010.  The facility is licensed by ARPANSA. It operates as a Category 2 facility under the ARPANSA Code of Practice for the Security of Radioactive Sources. As such, it has its own Source Security Site Plan, which has been authorised by ARPANSA. This plan is classified.
Any current ongoing activities	Nil apart from continuing maintenance of the facility, site inspections by Defence personnel and regulatory inspections by ARPANSA. The facility is licensed as a closed facility, and only stores radioactive waste. It is not licensed to operate and to accept new waste.
Annual cost	Defence fixed costs are \$100,000 per annum, with an annual variable cost of \$200,000.
Future plans	As the facility is only licensed for the temporary storage of radioactive waste, and not its final disposal, Defence is required to arrange for the final disposal of all the waste held under licence. It is anticipated that the waste will be transfered to the National Radioactive Waste Management Facility, once established.

Commonwealth Scientific and Industrial Research Organisation waste – Hanger 5 Annex	
Rough location	Waste owned by the Commonwealth Scientific and Industrial
	Research Organisation (CSIRO) is held in the Hanger 5 Annex
	within the Woomera Prohibited Area. This facility is separate
	to the Koolymilka Radioactive Waste Storage Facility.
Rough description of	The Hanger 5 Annex is the responsibility of CSIRO through a
facility	Memorandum of Understanding with Defence.
Responsibility for the	The Hanger 5 Annex is the responsibility of CSIRO through a
site	Memorandum of Understanding with Defence.
Who 'owns' the waste	As stated on CSIRO's public website, CSIRO owns the waste
and total quantities	that is held within the Hanger 5 Annex, which equates to
	10,000 210 litre drums of waste.
Level – low or	As stated on CSIRO's public website, initial gamma imaging
intermediate	conducted by the Australian Nuclear Science and Technology
	Organisation indicates very low levels of activity in those
	drums scanned. CSIRO expect a large portion of the waste will
	be so low in radiation it will not require any controls, and can
	be disposed of in an appropriate landfill. Some material will be
	low level radioactive waste and a very small amount may be
	intermediate level waste. Measures will be taken to ensure the
	material is safely stored to meet ARPANSA regulations until a
	final disposal pathway has been identified.
History of the facility	Defence does not hold this information. CSIRO are best placed
	to provide this information.
History of where the	As stated on CSIRO's public website, almost 10,000 210-litre
waste originated and a	drums of waste came from the clean-up of a former research
high level description of	site at Fisherman's Bend, Melbourne, in the early 1990s, and
the waste	comprises of mainly soil and building materials.
Security and safety	CSIRO is responsible for all aspects of security and safety of the
	radioactive waste stored within the Hanger 5 Annex under
	ARPANSA license S0013.
Any current ongoing	Defence does not hold this information. CSIRO are best placed
activities	to provide this information.
Annual cost	Defence does not hold this information. CSIRO are best placed
	to provide this information.
Future plans	As stated on CSIRO's public website, CSIRO are investigating
	the best options to prepare waste material stored at the
•	Woomera Prohibited Area for transfer and acceptance at the
	proposed National Radioactive Waste Management Facility.