



INSPECTION REPORT

Licence Holder: National Museum of Australia	Licence Number: S0077
Location inspected: 90 Vicars St, Canberra, ACT	Date of inspection: 2 March 2012
	Record No: R12/02582

This inspection was conducted under Part 7 of the *Australian Radiation Protection and Nuclear Safety Act 1998* (the Act). The purpose of the inspection was a routine audit of National Museum of Australian (the Museum) Group 2 Unsealed Sources.

The inspection consisted of the following:

- Discussions with Museum representatives
- Review of Museum quarter yearly reports to ARPANSA
- Verification that work procedures are in place
- Verification of radiation survey meter calibration records
- Review of radiological measurements of some collection items
- Physical inspection of some museum collection items, including taking appropriate photographs.

Findings:

- Quarter year reports containing information about compliance were submitted to ARPANSA within a reasonable time.
- The radiation survey meter used by the Museum was found to be within calibration.
- Appropriate work procedures were being continuously improved and were available for use by museum staff.
- A recent radiation measurement of the Gull Six aircraft showed that it contained a pioneer turn and bank indicator with 0.8 MBq of Ra-226 and a compass with 0.4 MBq of Ra-226 in the form of radioluminescent paint. ARPANSA verified these measurements to be accurate using the ARPANSA Exploranium GR-135. The ARPANSA Polimaster PM1401K with built in multichannel analyser capabilities provided positive identification of Radium 226. These unsealed sources are categorised as Group 2 unsealed sources. The Museum continues to provide information in respect of its Source Licence Application No. A0253, relevant to the safe storage of these collection items.
- Personal protective equipment for the UV handheld lamps is available for Museum staff as per Museum Standard Work Instructions.

Conclusion:

No evidence of non-compliance was identified.