

# Local Rules: Ionising Radiation Regulations 2017

## Marischal College Museum Basement, University of Aberdeen

Radiation Protection Supervisor: Caroline Dempsey

Radiation Protection Adviser: Dr Stephen McCallum, Radiation Protection Service,  
NHS Grampian (01224 553109)

Radiation Protection Service: 01224 553209/552515/551155

### Keyholders:

Name	Office	Phone
Caroline Dempsey (Conservator)	UoA Museums Collections Centre	4300

### **Working Instructions Staff MUST Follow in relation to radioactive items**

1. The RPS is responsible for ensuring all staff in the museum are aware of these rules and follow them, for keeping the inventory of radioactive items up-to-date and liaising with the RPA as appropriate.
2. The items in the collection that are radioactive are Radium and Uranium. These items do not present a significant health risk as long as the following rules are followed.
3. All radioactive items in the museum collection that are not on display should be stored in the 'Radioactive Material Cupboard' and marked as radioactive.
4. The cupboard must be locked at all times.
5. Only staff who have read these rules and have the permission of the RPS are allowed access to the cupboard.
6. Work within 1m of any item should be limited to 2 hours total in any one year. If this limit is likely to be exceeded then contact the RPA for advice.
7. Disposable gloves must be worn when handling any item.
8. All items must remain intact. They should not be opened, disassembled or cleaned without prior advice from the RPA.
9. No item should be put on public display without prior consultation with the RPA.
10. An up-to-date inventory should be kept of all items in the form given in Appendix 1.
11. If new items are acquired or found then contact the RPA who will assess each item and assist in updating the inventory.
12. The inventory must be checked at least every 4 months to ensure all items are accounted for.
13. If any item is not required it should be disposed of – contact the RPA for advice.
14. **If there is any possibility that the radioactive material has become dispersed (e.g. following a breakage) then the area should be evacuated and the Radiation Protection Service contacted.**

Issue Date:	31/1/2021	Review Date:	31/01/2023
Issued By:	LM	Version:	1.3

## Appendix 1 – Inventory of Radioactive Items

Item and catalogue number	Radionuclide	Registered/Exempt/out-of-scope	Explanation
1. Quality street tin containing two boxed items. a. Scintilloscope box b. Double cotton box	Ra226	Exempt	Individual sources less than 4MBq, total activity of all items less than 200MBq
2. Large clock (not yet catalogued)	Ra226	Exempt	
3. Radium Vita Compress 4. (ABDUA:17729)	Ra226	Exempt	
5. Radium Ring (ABDNP:202030a)	Ra226	Exempt	
6. Uranium decanter and glasses (ABDNP:201525a)	Uranium isotopes	Exempt	
7. 6 Uranium glass Geissler tubes (ABDNP:201538a)	Uranium isotopes	Exempt	
8. Uranium glass Block (ABDNP:205588a)	Uranium isotopes	Exempt	
9. 4 Uranium glassware assumed discharge tubes (ABDNP 200123f ABDNP:203105a ABDNP 203103a ABDNP 200123e )	Uranium isotopes	Exempt	

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