



University of  
St Andrews

## Radiation Local Rules & Site-Specific Information

Site Name: School of Earth Sciences, Irvine Building

<b>Document type</b>	<b>Policy</b>
<b>Scope (applies to)</b>	Staff and students
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<b>Approver</b>	Head of EHSS
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<b>School / unit</b>	Environmental Health and Safety Services
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<b>Purpose</b>	Compliance with Ionising Radiations Regulations 2017 legislation

<b>Version number</b>	<b>Purpose / changes</b>	<b>Document status</b>	<b>Author of changes, role and school / unit</b>	<b>Date</b>
v1.0	New Document	Approved	Dr Paul Szawlowski	12/07/2021



## Radiation Local Rules & Site-Specific Information

Site Name: School of Earth and Environmental Sciences

*This document constitutes the Local Rules under Regulation 18 of the Ionising Radiations Regulations 2017 (IRR17) for the above site and must always be kept up to date. The contents of this document and its references must be brought to the attention of all personnel affected by them.*

### Site Appointees – Radiation Protection Supervisors (RPSs)

The RPSs appointed under the IRR17 have roles including the responsibility for ensuring that St. Andrews University complies with these Local Rules and the associated Radiation Work Instructions as identified in Work Instruction 1 (WI 1)

Name	Date Training Completed	Date Next Refresher Due (At least every 3 years)
Dr Timothy Kinnaird	14, 21, 28th April 2021	April 2024

### Radiation Protection Advisers

The Radiation Protection Advisers employed by Aberdeen Radiation Services act as RPAs to St. Andrews University. They can be contacted as below:

Working Hours: **01224 749784**  
**ARPS @aberdeenradiation.co.uk**

Outside working hours (emergency contact):  
**01224 518020**

### Radiation Protection Officer

The Radiation Protection Officer for St. Andrews University, Dr Paul Szawlowski, is responsible for the routine advice regarding IRR17 and the implementation of these Local Rules. He can be contacted as below:

Working Hours: **01334 462753 or 07715 843061**  
Outside Working Hours: **01333 450014 or 07715 843061**

### Dose Investigation Level

The St. Andrews University whole-body effective dose investigation level is **0.5 mSv** in a calendar year or **0.5 mSv** in a two-month period.

Where workers are issued with finger TLDs the dose investigation level is **0.5 mSv** in any two-month wear period.

## Contingency Arrangements

Section 2.6 of the Work Instructions has identified the contingency arrangements for foreseeable incidents happening within the laboratories in this area. Emergency incident posters will be located in rooms where there is radioactive work. The detailed emergency arrangements can be found in the Work Instructions attached to this document

Description	Doc. Ref
Radiation Area Incidents due to Sealed Radioactive Sources	Work Instruction 2.6.4
Contamination Monitoring	Work Instruction 6
Lost Sealed Source	Work Instruction 2.6.4

It is vital to maintain training for the response to such incidents are practiced. An annual training session will be arranged by the URPO.

## Written Arrangements for Non-Classified Workers

Please refer to the job specific Radiation Work Instructions; these set out the arrangements in place to restrict an exposure to ionising radiation, including the use of PPE and restrictions on the type of work, dose rates and the time spent in the area. All written arrangements must be approved by the RPA. If the arrangements are not adequately defined in the Radiation Work Instructions, contact the RPA to assist with the preparation of a suitable written arrangement.

## Controlled Radiation Areas:

Controlled area have been identified around the Uranium and thorium ore storage containers within the geology store in the Grage at the North of the Irvine Building

Location: Geology Store - Local Exposure to Uranium and Thorium Ores

## Supervised Radiation Areas:

1. Location: Room 207, Irvine Building, North Street - - This is for sealed sources within the shielding of the RISO and ELSEC machines

## Temporary Radioactive Waste Storage Areas

Location(s) used: N/A

## Permanent Radioactive Waste Storage Area

Location: Radioactive waste store - The Scores, University of St Andrews, St Andrews, Fife

Access Arrangements: Key available from University Radiation Protection Officer, Dr Paul Szawlowski

Telephone No.: Work 01334 462753 or 07715 843061  
Home - 01333 450014 or 07715 843061

## Designated Areas for X ray equipment

Location: N/A

## Small (exempt) Source Store Locations

Test: N/A

Other: N/A

### Designated Areas – Supervised Areas

All areas where unsealed sources are manipulated. All areas where Geological specimens are handled or worked with. All other areas where the risk assessment identifies that a radiation dose of greater than 1 mSv but less than 6 mSv may be received in a year.

### Designated Areas – Controlled Areas

All areas where a dose rate in excess of 7.5 µSv/h exists or the risk assessment identifies that a dose of greater than 6 mSv per year may be received.

### Radiation Work Instructions

The following Radiation Work Instructions (RWI) and generic risk assessments apply at this site. These must be used in conjunction with the contents of the St. Andrews University Radiation Policy & Guidance Document (.....).

RWI No.	RWI Title (see .....)	Applies	IRR17- Risk Assessments which apply
<b>Management</b>			
01	Management of Work with Ionising Radiations at the University of St Andrews	<input checked="" type="checkbox"/>	
02	Radiation Area Incidents	<input checked="" type="checkbox"/>	
03	Radiation Record Keeping	<input checked="" type="checkbox"/>	
<b>Laboratory Radioactive Materials Operations</b>			
04	Handling unsealed radioactive solutions	<input type="checkbox"/>	
05	Radioactive Waste	<input checked="" type="checkbox"/>	
06	Contamination Monitoring	<input checked="" type="checkbox"/>	
07	Use of Unsealed radioactive sources for undergraduate work	<input type="checkbox"/>	
08	Use of small sealed sources for teaching	<input type="checkbox"/>	
09	Use of HASS Sealed Source	<input type="checkbox"/>	
10	Use of Radioactive Sources for Luminescence Dating	<input checked="" type="checkbox"/>	USE OF RISO DA-15 and DA-20 OSL/TL READERS FOR LUMINESCENCE MEASUREMENTS IN GEOLOGICAL APPLICATIONS  USE OF ELSEC AUTOMATIC IRRADIATORS FOR DOSING SAMPLES FOR TL AND OSL ANALYSIS
<b>Sealed Sources and Radiation Generators</b>			
11	X-Ray Crystallographic Units	<input type="checkbox"/>	
<b>Geological Specimens</b>			
17	Radon	<input checked="" type="checkbox"/>	Risk Assessment for the Notification to work in Radon Atmosphere Under the Ionising Radiations Regulations 2017
18	Handling Specimens	<input checked="" type="checkbox"/>	
<b>Animal Experiments</b>			
19	Seal studies in pool	<input type="checkbox"/>	

Detailed additional project-specific risk assessments and written arrangements can be found on the relevant Radiation Protection Management Programme RadProt at URL: <https://portal.st-andrews.ac.uk/radprot/open/>

**Approved**

**Name** Dr Paul Szawlowski

**Position** University Radiation Protection Officer and Deputy Director of Environmental Health and Safety Services, University of St Andrews



**Signature**.....

**Date** ..... 12/07/2021

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