

EPA Webinar Series: The Application of the Ionising Radiation Regulations (IRR19) in Veterinary Medicine

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26/07/2023

Overview

- Enforcement policy
- The Authorisation Process
 - Cost of authorisation/ admin
- Guidance
- Compliance Assurance
 - Vet survey
 - Inspections
- Enforcement
- How to use EDEN
 - Accessing EDEN
 - Amending your Authorisation
 - Responding to Inspection Findings



Radiation Regulation: A Recap

Authorisation to ensure that appropriate safety measures are in place before radiation sources are used

Risk-based regulatory approach

Enforcement to enforce through legal action where necessary Guidance to support undertakings in complying with their legal requirements

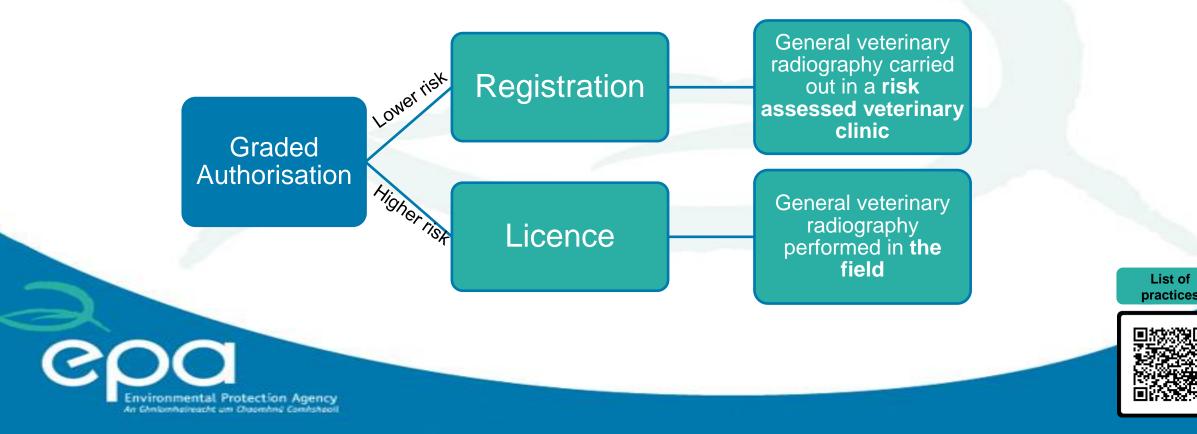
Compliance Assessment to verify ongoing compliance

Environmental Protection Agency

Vet Code of Practice

1. Authorisation

- Authorisation = consent to carry out a radiological practice.
- IRR19 provides for Graded Authorisation (two forms of authorisation commensurate with risk: registration and licensing).



Last Week's Recap

	Registration	Licensing
Radiological practices	X-ray examination of small animals in a defined X-ray area	 Off-site/large animal X-ray examinations Computerised tomography (CT) Fluoroscopy Nuclear medicine (diagnosis or treatment) Use of handheld intra-oral X-ray unit
Duration of authorisation	Indefinite (unless surrendered or revoked)	10 years (renewable)
Schedule of equipment	An up-to-date schedule of equipment must be retained on file by the undertaking	An up-to-date schedule of equipment must be retained on EDEN
RPO/RPA	Up-to-date evidence must be retained on file by the undertaking.	An up-to-date record must be retained on EDEN.
Risk Assessment	A risk assessment should be completed before bringing any new equipment into service. This must be retained on file by the undertaking.	A risk assessment must be completed before bringing any new equipment into service and must be reviewed and updated periodically. It must be submitted with the licence application through EDEN.
Local radiation safety procedures	Not required – compliance with this Code of Practice is sufficient.	Required and must be submitted with the licence application through EDEN.



Last Week's Recap – Statutory Roles

	Definition, as per IRR19
The Undertaking	A natural or legal person with legal responsibility for carrying out the radiological practice. This is usually, but not always, the veterinary practitioner in charge. The undertaking is the person with primary legal responsibility for compliance with the regulations.
Radiation Protection Officer (RPO)	An individual or a unit designated by the undertaking to implement the radiation protection arrangements. This is usually, but not always, a veterinary practitioner or nurse.
Radiation Protection Adviser (RPA)	An individual or a body that meets the competence requirements set out by the EPA to provide radiation protection advice and whose name appears on the RPA register maintained by the EPA.



Registration / License



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Registration

- €300 once-off authorisation fee.
- No annual enforcement fee.
- Indefinite duration (unless surrendered or revoked).
- Do not need to submit equipment inventory or documentation but these must be retained locally.

- Only need to amend the Registration if you wish to:
 - Apply for authorisation of a new practice not covered by the existing registration.
 - Update legal entity or address.



Registration – the Self Declaration Form

Please complete all sections below

I confirm that, prior to the commencement of any registered practice, I have, in accordance with the provisions of Ionising Radiation Regulations 2019 (IRR19):

Completed a risk assessment to assess the nature and magnitude of the risks of exposure to ionising radiation arising from the practice or from potential exposures resulting from the practice for workers and members of the public who may be affected, and to identify the protective measures needed to restrict exposures to ionising radiation (regulation 31 and associated EPA guidance).	
Have implemented the protective measures identified in the radiation risk assessment that will restrict my employees' and other persons' exposure to ionising radiation (regulation 32 and associated EPA guidance)	
Will consult with a suitable Radiation Protection Adviser (RPA) as appropriate (regulation 33 and associated EPA guidance)	
Have designated a Radiation Protection Officer (RPO) to supervise or perform radiation protection tasks (regulations 34 and 80 and associated EPA guidance)	
Will provide appropriate training, information and instruction to any of my employees engaged in work with ionising radiation, and those likely to be affected by that work, and such training will be repeated at appropriate intervals (regulation 35 and associated EPA guidance)	
Have, where required, correctly classified and demarcated any controlled and/or supervised areas (regulations 36 and 37 and associated EPA guidance)	
Have drawn up procedures to be followed in the event of a reasonably foreseeable incident liable to have radiation safety implications as identified in the risk assessment (regulation 32	

I declare that to the best of my knowledge the particulars given in this application for Registration are true, and that I am duly authorised to submit this application for Registration on behalf of the Undertaking.

Signature:

and associated EPA guidance)

Print Name:

Environmental Protection Agency

Licence

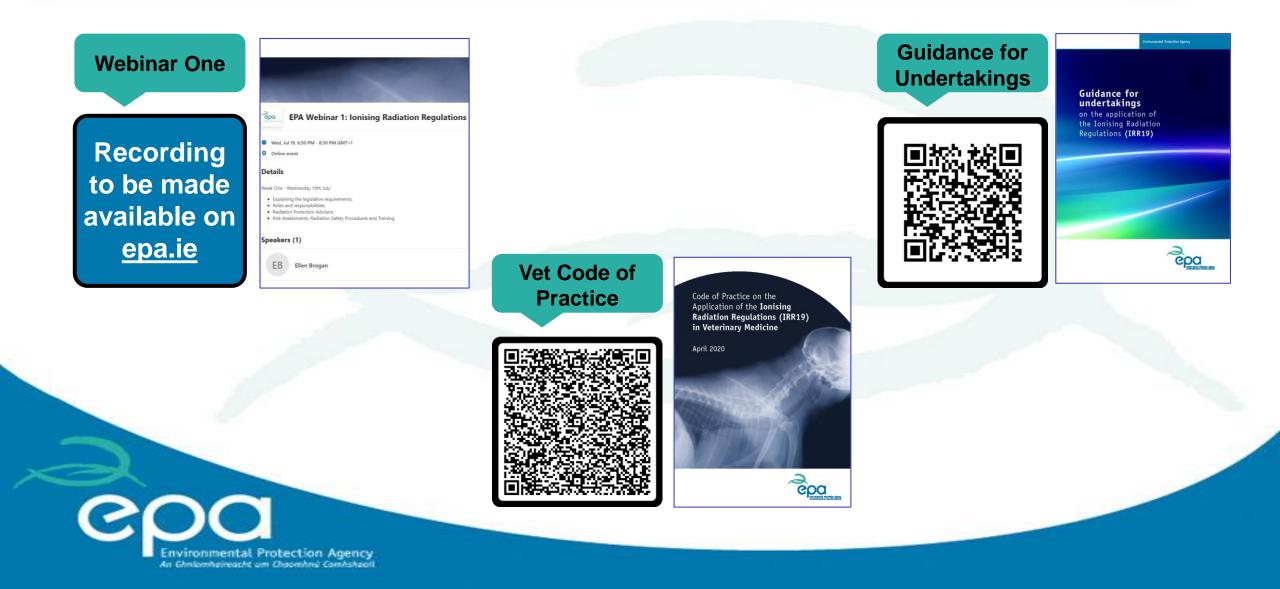
- €1000 once-off authorisation fee.
- €528 annual enforcement fee.
- 10-year duration with a €250 renewal fee.
 - Application reviewed by an Inspector.
 - Must submit details of the premises, personnel, equipment inventory, RA/RSPs, and documentation.

- Need to amend the Licence if you wish to :
 - Apply for authorisation of a new practice not covered by the existing Licence.
 - Update equipment inventory.
 - Update RPO/ RPA.
 - Update legal entity or address.

Note: if you have both registerable and licensable practices the higher form of authorisation, i.e., licensing, applies.



2. Guidance



3. Compliance Assurance

- 1. Surveys/Self Assessment Questionnaires/Audits of documentation
 - Sectoral surveys
 - Registration verification of self-declaration
- 2. Review of Safety Documentation
- 3. Inspections
 - Announced or unannounced
 - Annual Inspection Programme
 - Risk-based i.e. designed to ensure that those licensees, where a greater radiological risk exists, are inspected most frequently
 - Planned or reactive

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- Accredited to ISO 17020:2012 standard for our inspection activities
- 4. Remote Compliance Assessments



Authorisation

Compliance

Assessment

Enforcement

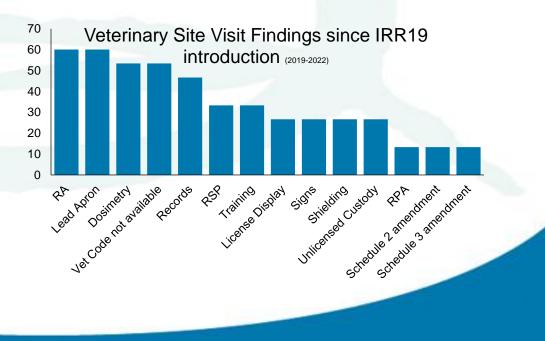
Guidance

Online Compliance Assessment – the Vet Survey

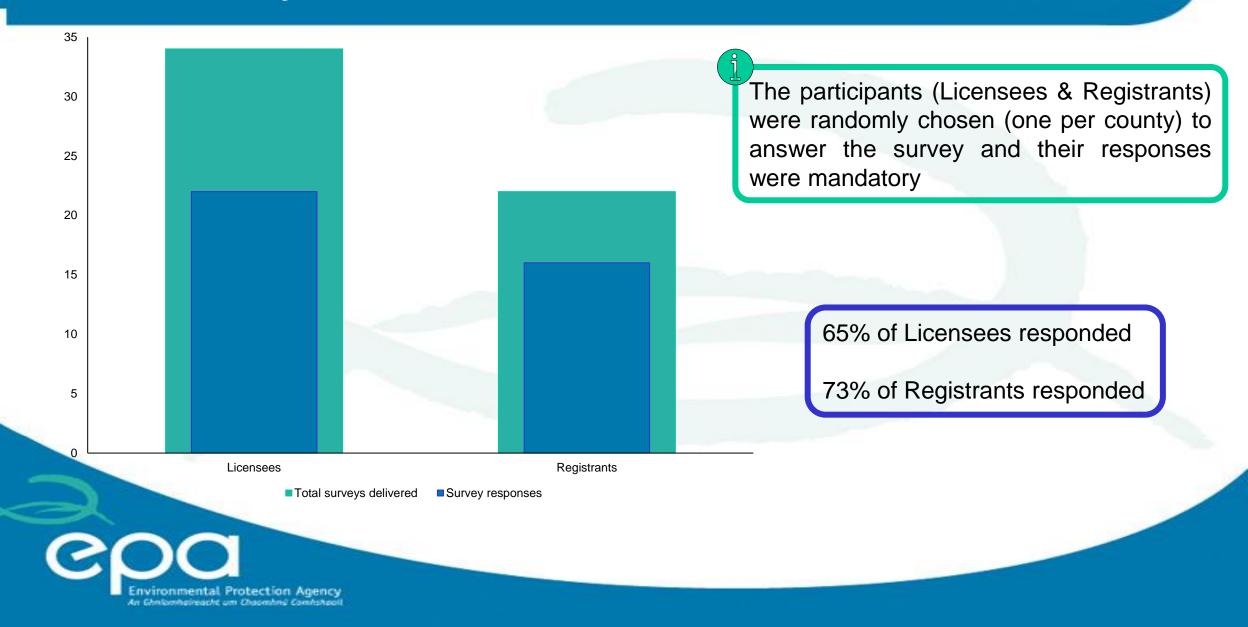
- 36 Questions for Licensees 30 Questions for Registrants.
- Survey Questions were divided into sections:
 - Risk Assessment
 - Categorisation of Workers & Dosimetry
 - Radiation Safety Procedures
 - Governance and Responsibilities which included RPO/RPA arrangements
 - Radiation Protection Training
 - Personal Protective Equipment (PPE)
 - X- ray Equipment Inventory
 - Maintenance Of X- Ray Equipment
 - Quality Assurance

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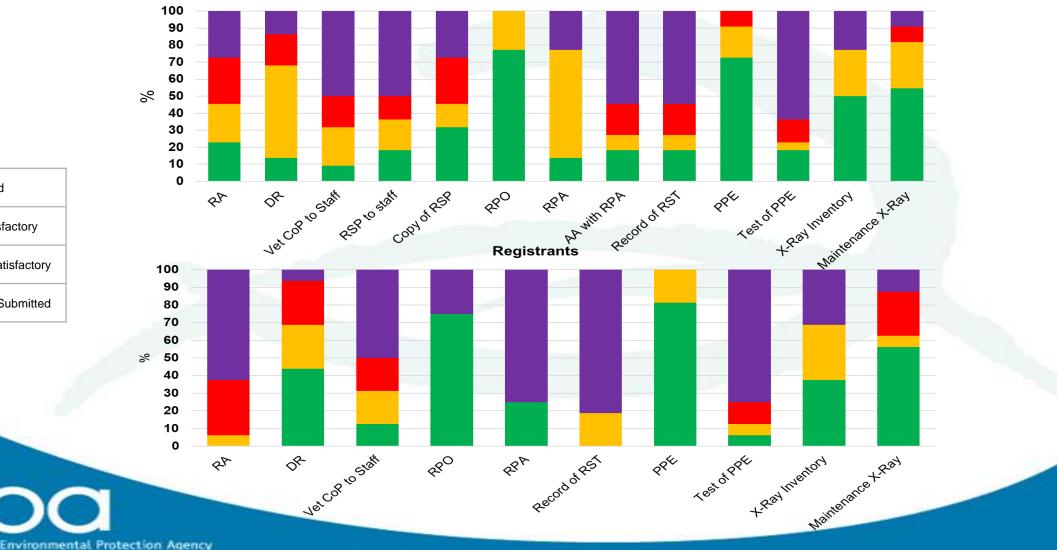
Survey sent on: 20/07/2022 Survey closed on: 10/10/2022 83 days in total (Or 2 months, 21 days)



The Vet Survey



The Vet Survey – Compliance Results



Licensees

An Ghnlemheireacht um Chaomhné Comhsheoll

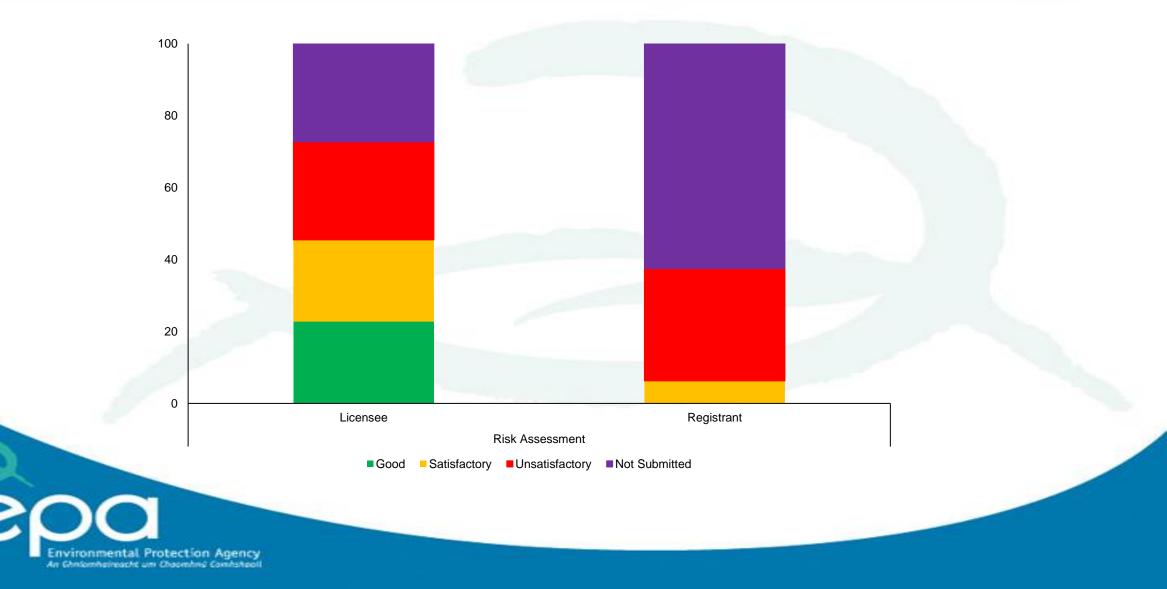
Good

Satisfactory

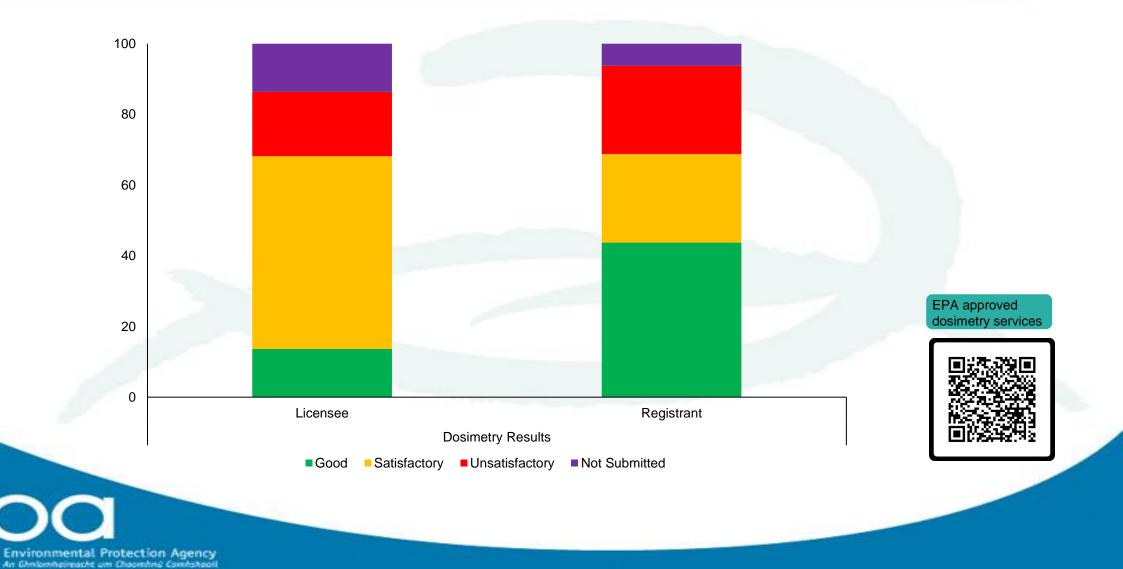
Unsatisfactory

Not Submitted

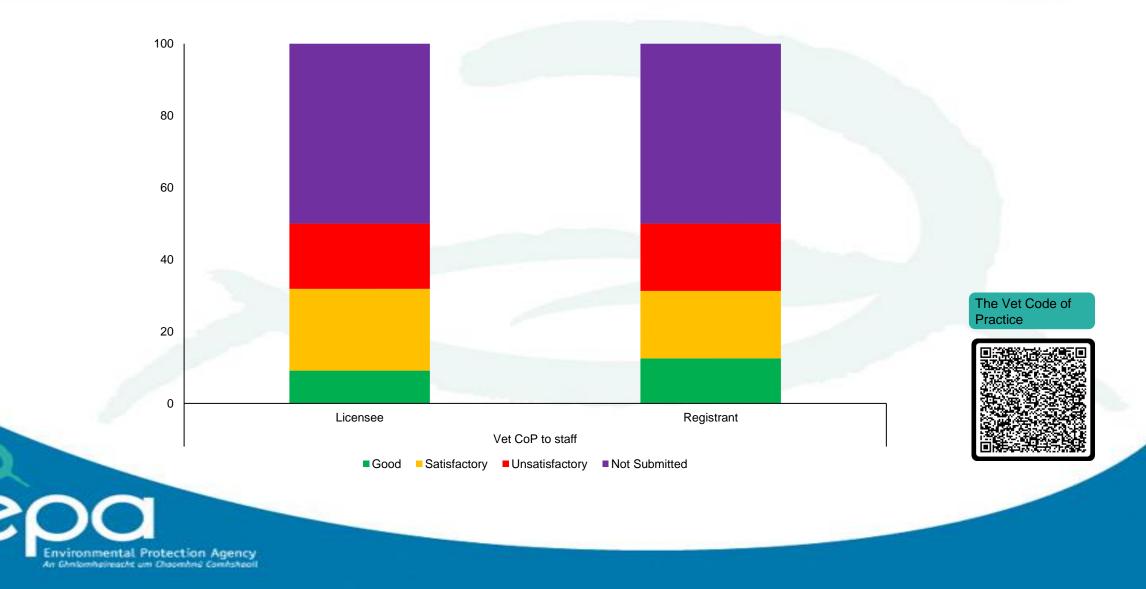
Compliance Results – the Risk Assessment



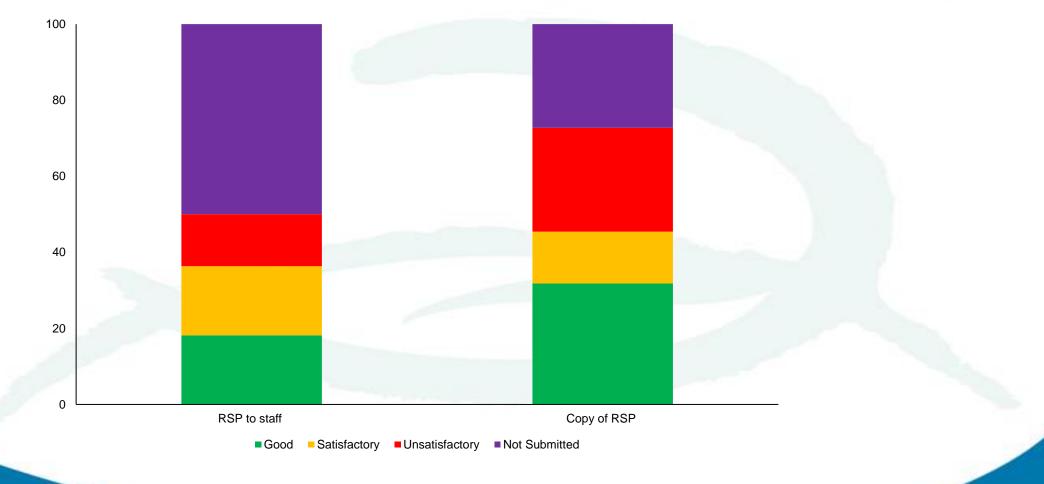
Compliance Results – Dosimetry Results Records



Compliance Results – Vet Code of Practice to staff

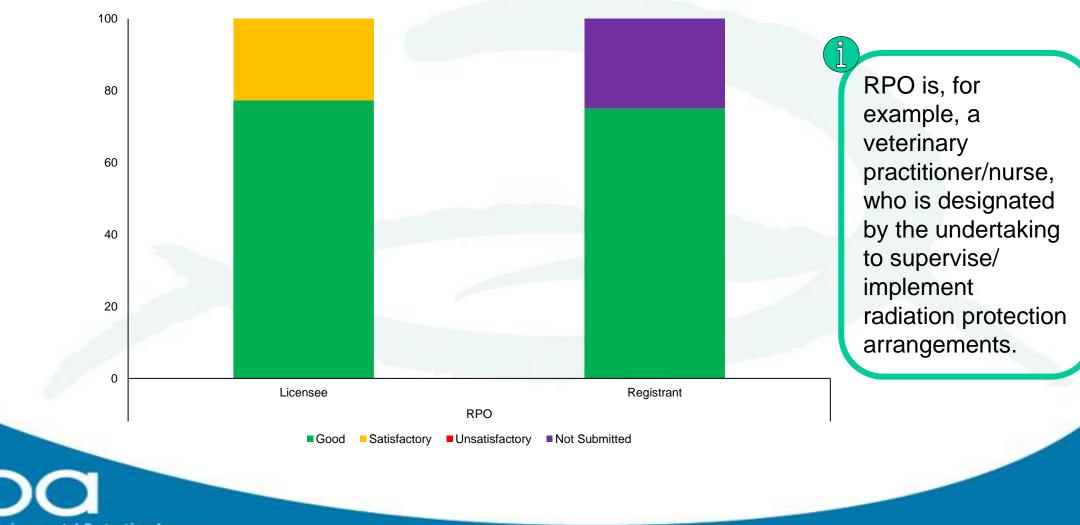


Licensee Compliance Results – Radiation Safety Procedures



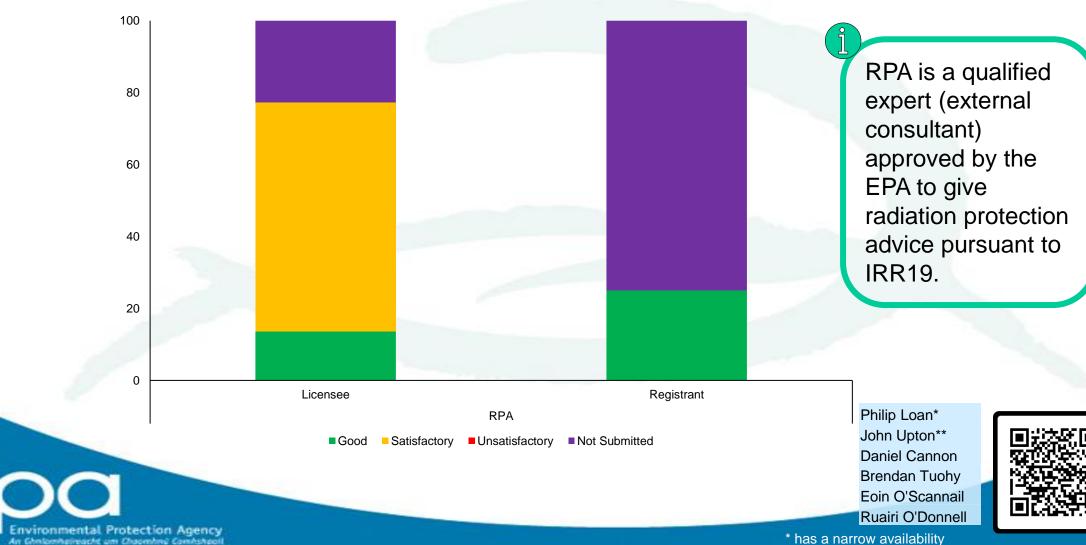


Compliance Results – Radiation Protection Officer (RPO)



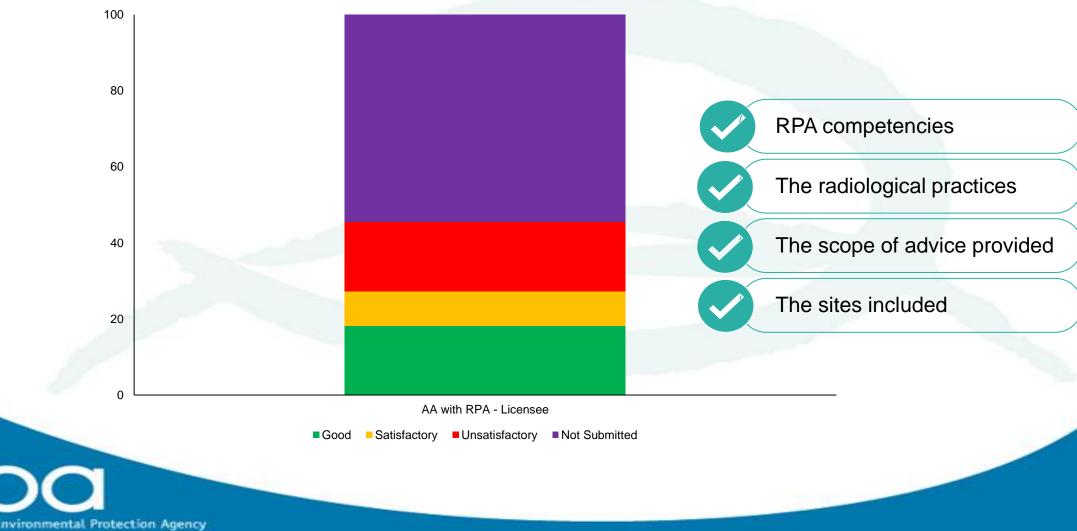
An Chalomheireacht um Chaomhail Comhshaol

Compliance Results – Radiation Protection Adviser (RPA)



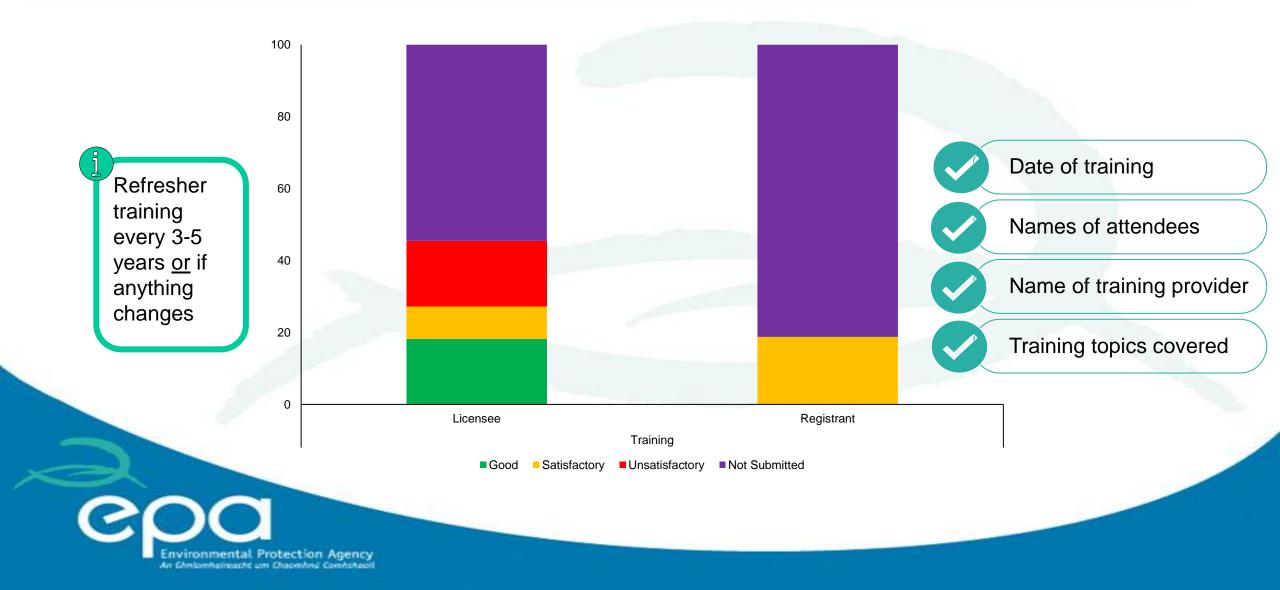
** service available for the southern part of the country

Licensee Compliance Results – Agreed Arrangements with RPA

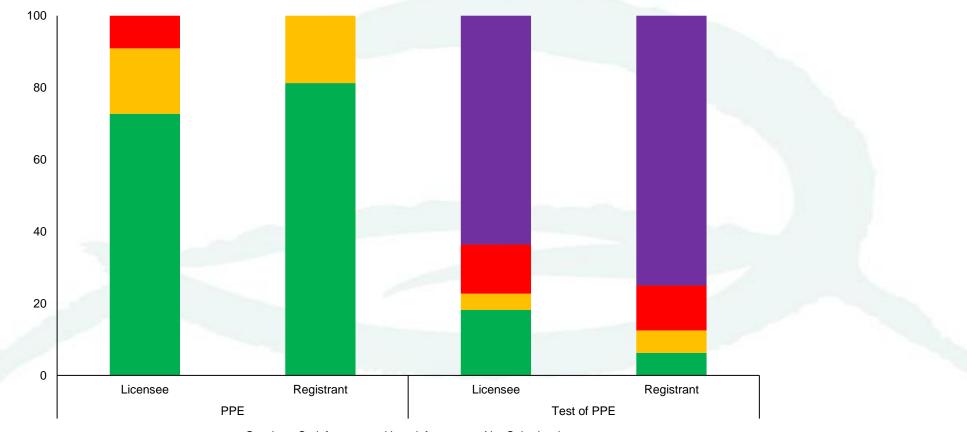


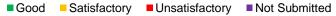
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Compliance Results – Radiation Safety Training



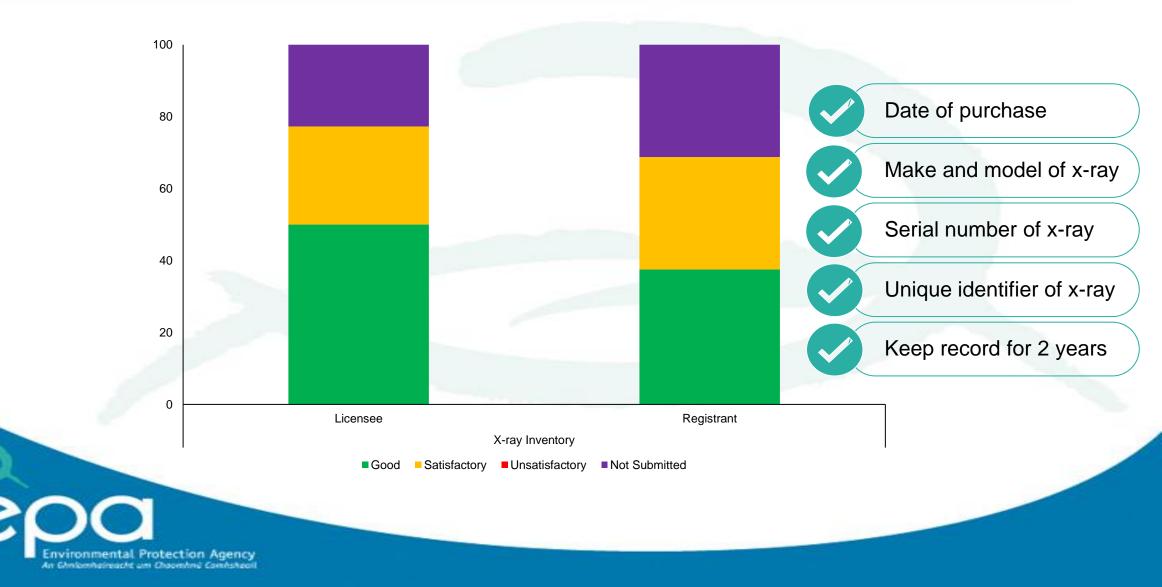
Compliance Results – Personal Protective Equipment



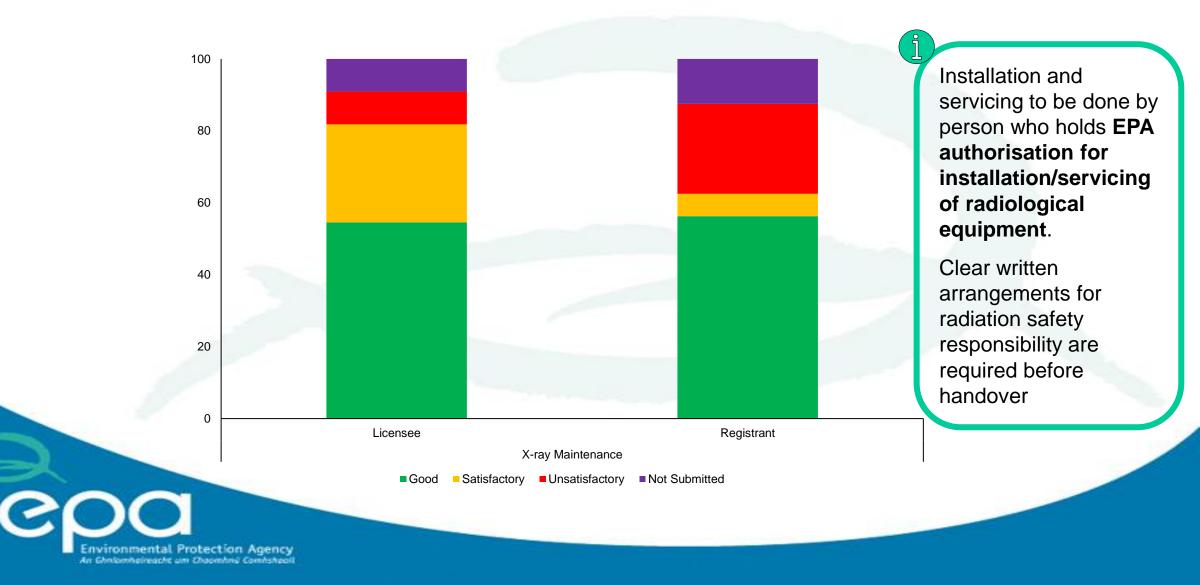




Compliance Results – X-ray Inventory



Compliance Results – X-ray Maintenance



The Inspection Programme

- Ensure the safety of workers and members of the public.
- Assess compliance with IRR19, Authorisation Conditions & the Vet Code of Practice.
- ✓ Assess how radiation protection arrangements are implemented in practice.
- ✓ Assess organisational culture and commitment to radiation protection.
- ✓ Promote good practice.
- Provide an opportunity for licensees to raise issues with the regulatory authority.





Powers of Inspectors

For the purpose of assessing compliance with IRR19 inspectors have the power to:

Section 28 & 29 of the Radiological Protection Act 1991 enter a premises

3

inspect X-ray equipment and radioactive sources

require the production of documentation

take copies or extracts of documents

require a person to give reasonable information for the purpose of assessing compliance

take with them a member of An Garda Síochána (exceptional circumstances e.g. refusing inspector entry to premises)

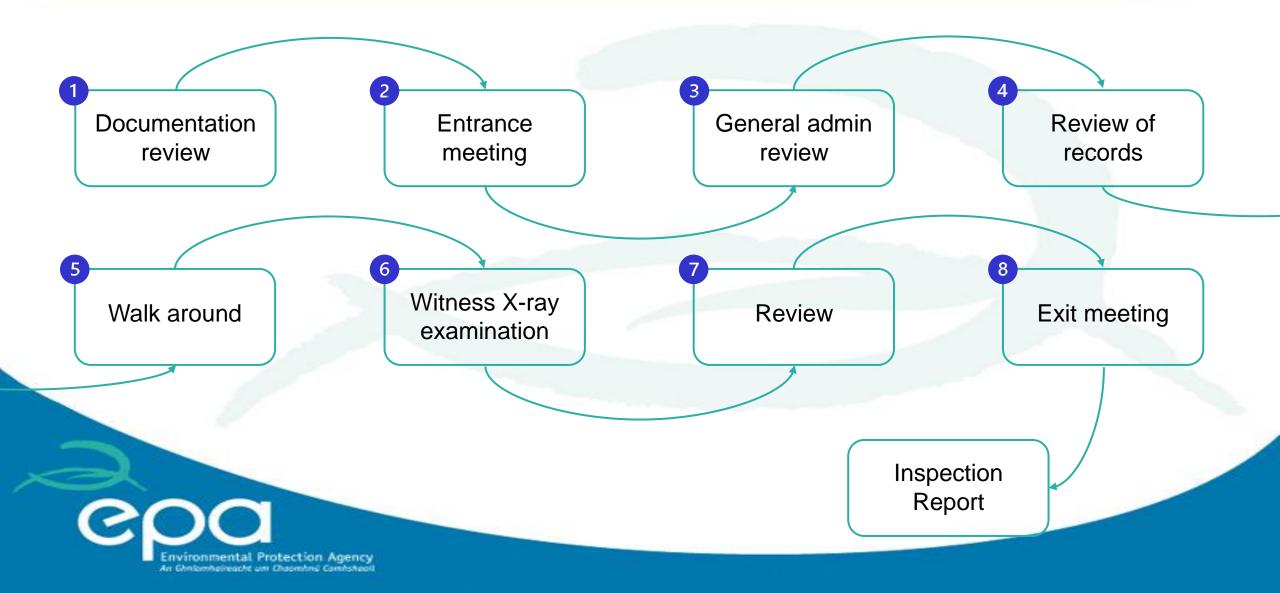
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The Inspection Programme Format

- Announced Inspection: Email notification will be sent of the planned date of inspection
- Unannounced Inspection: There will be no notification of the date of inspection
- Remote compliance assessment: An inspector will complete a desk-based assessment of compliance remotely
- In-person site inspection: An Inspector will assess compliance on-site
 - Duration: ~ 1.5/3hrs
 - Personnel required: Vet Practitioner/RPO (at least one staff member at all times)
 - Facilitate the inspection of radiography performed in the field
 - Records and documents



The Inspection Process



The Inspection Report – LEAP online

- 1. The inspection report
- 2. Inspection findings
- 3. Replying to findings
- 4. https://leap.epa.ie/







Site Visit Report

The site visit process is a sample on a particular day of an organisation's compliance with some of its authorisation conditions. This site visit report and its findings only relate to the scope of the site visit as identified below. Where no finding is raised against a particular condition this should not be construed to mean that there is full compliance with that condition of the authorisation. This site visit report shall not be reproduced, except in full.

The EPA must be notified of the actions to address each individual finding within 28 days unless otherwise specified through the EDEN Portal, <u>www.edenireland.ie</u> (via the Findings and Recommendations option, available through the Notify/Manage menu).

Authorised Body	
Authorised Body	
Authorisation No.	
Contact Name	
Address	
Inspection Location - if different	
Site Visit Reference No.	

Report Details	
Issue date	
Prepared By	Ellen Brog

1.0

Version

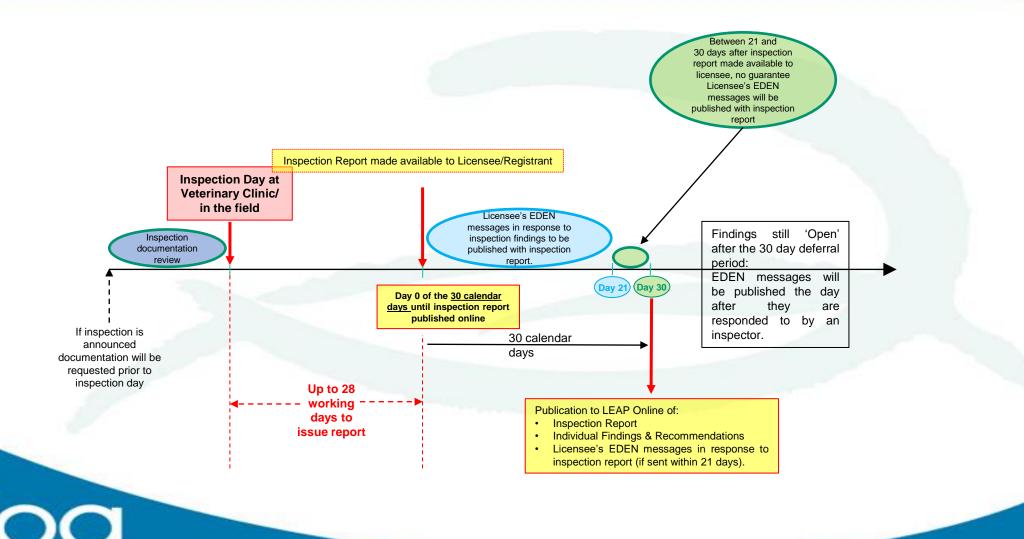
Site	3 62-	24	Del		1
Site	VIS	н.	De	Lau	13

Date of Inspection		
lime In		
Scope of Inspection		
PA Inspector/s	Ellen Brogan	
Accompanying Persons		
Authorised body Personnel and Role		
Equipment		

Key Findings
pected
spected
e of the site visit the following site visit findings were discussed with the license

Action

The Inspection Report and Publication Process



Environmental Protection Agency

Some typical inspection findings

- Lack of clear governance arrangements/ responsibilities not defined.
- Inadequate Risk Assessments.
- Radiation Safety Procedures not reviewed/updated/provided to staff.
- Operational practice not matching procedures.
- QA programme not documented or implemented.

- No evidence of equipment service/ maintenance / calibration.
- Signage issues i.e., missing or inappropriate.
- Licence inaccuracies.
- Records not maintained.
- Staff not adequately trained.



4. Enforcement

Prosecutions on indictment

Summary prosecutions

Restrictions & enforcement notices

Warning Notices

Inspections

Advice and guidance





How to create a profile / log in to EDEN





EPA Services 🗸



Welcome to EDEN

EDEN provides an online gateway to Environmental and Radiological Protection Licensing, Monitoring, GIS and Reporting applications for organisations with the EPA and share data with each other.

Vist the EDEN Portal Help section

Single Sign-On

EDEN is based on single sign-on technology to allow users to logon to multiple applications using a single username / password combination.

Note: Requests for new organisations are approved by the EPA, requests for organisation membership and application access are approved by organisation and application administrators.

Please email eden@epa.ie for all technical issues and queries regarding the EDEN system.





What if I forget my password?



Sign in with your EDEN account		EDEN FAQs
someone@example.com Password	Password Reset	
Sign In Forgot Password	Please fix all validation errors - Empty or incorrect capitcha answer New Password	
Use your EDEN username or email address to Sign In.	Your parameter thought be a measure of 8 characters with at least one upper case letter, one lower case letter, one nonther and one special character 3, *, *, *, *, *, *, *, *, *, *, *, *, *,	evenements é das enthurgs notation
	Fin not a robot	Home / Password Reset Password Reset
		New Password Password Your password should be a minimum of 8 characters with at least one upper case letter, one lower case letter, one number and one special character s, *, s Confirm password Confirm Password
		Prove you're not a robot

How to pay your fee

Apply

My Applications Amend/Change Authorisation New Authorisation Review Authorisation Amend Radiation Authorisation Renew Radiation Authorisation New Radiation Authorisation

	Notify/Manage
<	My Authorisations
	Returns
	Incidents
	Compliance
	Site Visits
	Radiation Authorisation Dashboard
	Pay Fee
	Findings and Recommendations
	Radiation Site Visits
	Download Certificate of Authorisation
	Environmental Performance Report

EPA Services

Beaches Catchments EPA Water Maps SEA GIS

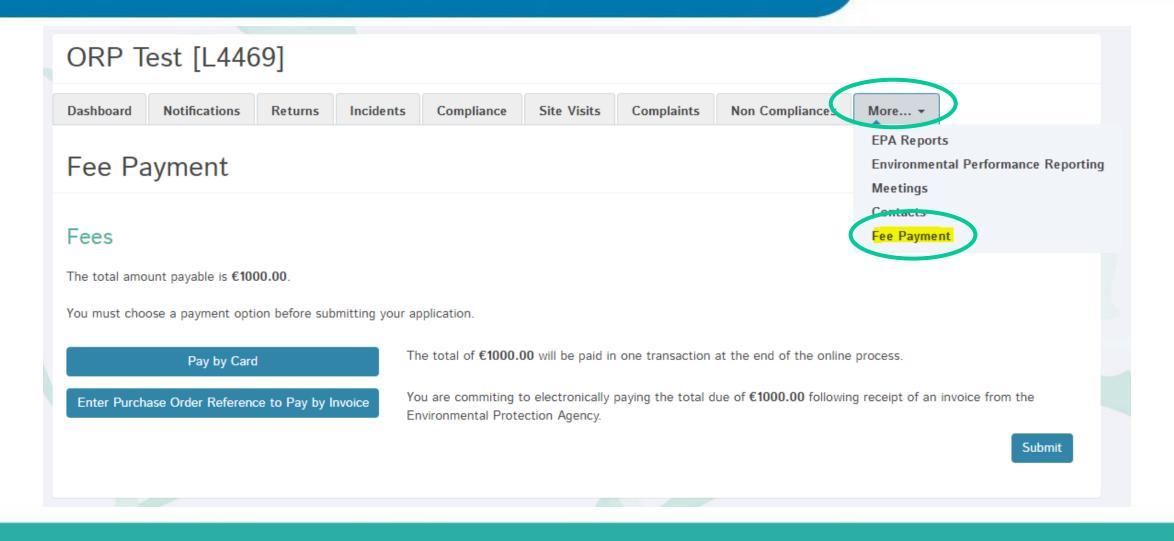
EDEN FAQs

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How to pay your fee





How to access your Authorisation

Apply

My Applications Amend/Change Authorisation New Authorisation Review Authorisation Amend Radiation Authorisation Renew Radiation Authorisation New Radiation Authorisation

EDEN FAQs





Notify/Manage My Authorisations Returns Incidents Compliance Site Visits Radiation Authorisation Dashboard Pay Fee Findings and Recommendations Radiation Site Visits Download Certificate of Authorisation Environmental Performance Report

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EPA Services

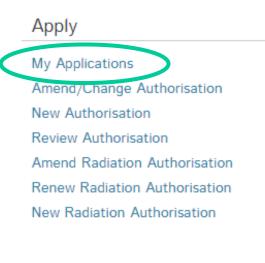
Beaches Catchments EPA Water Maps SEA GIS

> If you <u>have</u> amended any details of your Authorisation, e.g. equipment, then only Schedules 2 - 4 will be visible here. If you want a copy of your Authorisation which also includes tha front cover and Authorisation Conditions contact us via email.

If you <u>have not</u> amended any details of your Authorisation, you will be able to access front cover, Authorisation Conditions, and Schedules 2 - 4 here.



	Registration	Licensing
When is it necessary to make a change/ amendment?	 Change to legal entity or address. Change to the senior management contact or the contact for correspondence. Before carrying out a new veterinary radiology procedure not covered by the existing registration. 	 Change to legal entity or address. Change to the senior management contact, the contact for correspondence, the RPO or the RPA. Change to the schedule of equipment linked to any licensable radiological practice. Before carrying out a new veterinary radiology procedure not covered by the existing licence.



Notify/Manage
My Authorisations
Returns
Incidents
Compliance
Site Visits
Radiation Authorisation Dashboard
Pay Fee
Findings and Recommendations
Radiation Site Visits
Download Certificate of Authorisation
Environmental Performance Report

EPA Services Beaches

Catchments EPA Water Maps

SEA GIS

EDEN FAQs

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Radiation Protection Authorisation

Please note that changes made to any records on your Authorisation (Authorisation Details, Premises, Personnel, Inventory) will not be forwarded to the EPA for approval until you navigate to the COMPLETE step and select the SUBMIT button. Documents to support any changes may be uploaded in the DOCUMENTS step and will only be forwarded to the EPA when the request is submitted. Details Premises Personnel Inventory Documents						
Details for ORP Test						
Welcome to the Radiation Protection Authorisation amendment process. Any changes to the nature of activities or authorised practices detailed below should be included in the Background Information box on the Complete step.						
Sector:	Industry 🗸					
Practices: (please select any additional practices being requested)	 Product inspection/sterilisation/industrial radiography Use of laboratory equipment incorporating sealed sou Use of sealed sources in industry 					
Your approved dosimetry service provider:	Choose 🗸					
Details of approved dosimetry service providers are available on http://www.epa.ie/radiation/regulation/dosimetry/.						
Details of practices and associated fees are available on http://www.epa.ie/radiation/regulation/.						



Radiation Protection Authorisation

Please note that changes made to any records on your Authorisation (Authorisation Details, Premises, Personnel, Inventory) will not be forwarded to the EPA for approval until you navigate to the COMPLETE step and select the SUBMIT button. Documents to support any changes may be uploaded in the DOCUMENTS step and will only be forwarded to the EPA when the request is submitted. Details Premises Personnel Inventory Documents Complete Details for ORP Test Welcome to the Radiation Protection Authorisation amendment process. Any changes to the nature of activities or authorised practices detailed below should be included in the Background Information box on the Complete step. Sector: Industry Practices: (please select any additional practices being requested) × Product inspection/sterilisation/industrial radiography × Use of laboratory equipment incorporating sealed source × Use of sealed sources in industry

Your approved dosimetry service provider:

Choose	~

Details of approved dosimetry service providers are available on http://www.epa.ie/radiation/regulation/dosimetry/.

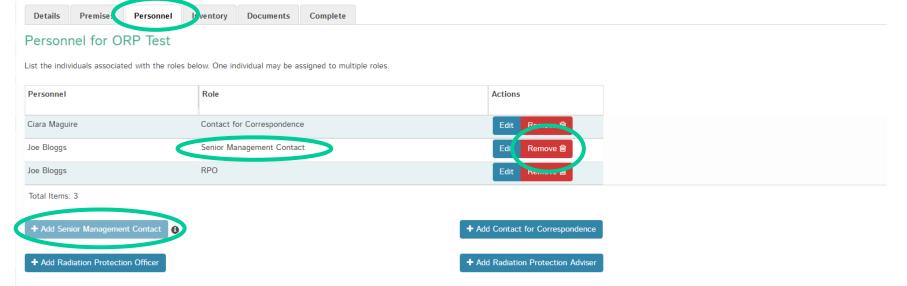
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How to amend your Authorisation - Personnel

Radiation Protection Authorisation

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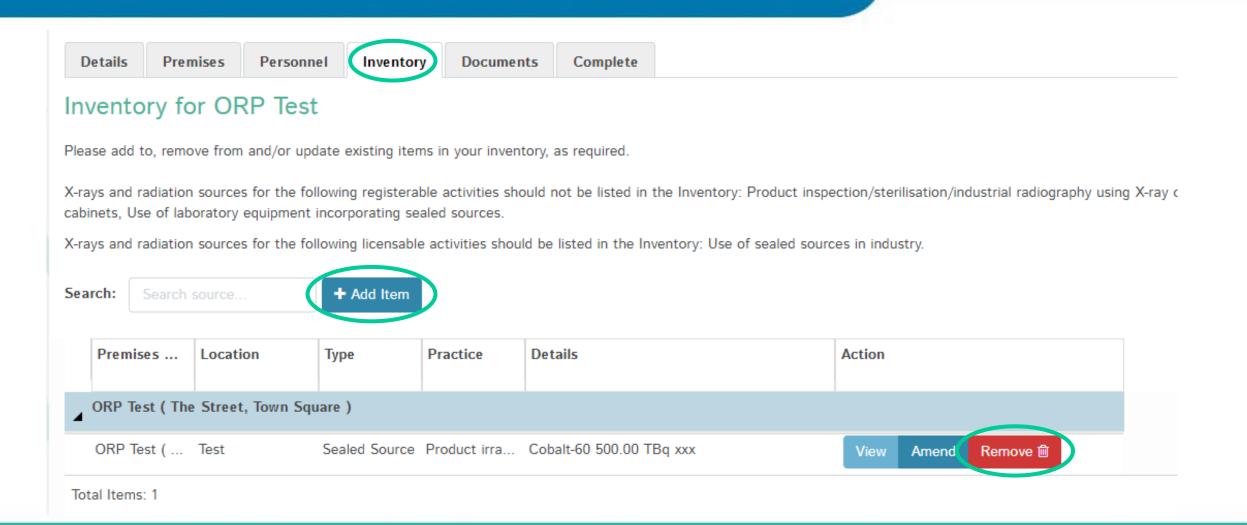


Details of approved Radiation Protection Advisers are available on http://www.epa.ie/radiation/regulation/rpa/rparegister/





How to amend your Authorisation - Inventory



View Inspection Findings

Apply

My Applications Amend/Change Authorisation New Authorisation Review Authorisation Amend Radiation Authorisation Renew Radiation Authorisation New Radiation Authorisation

Notify/Manage My Authorisations Returns Incidents Compliance Site Visits Radiation Authorisation Dashboard Pay Fee Findings and Recommendations Radiation Site Visits Download Certificate of Authorisation Environmental Performance Report

EPA Services Beaches Catchments EPA Water Maps SEA GIS

EDEN FAQs



View Inspection Findings



ORP Test [L4469]								
Dashboard Notifications Returns Incidents	Compliance	Site Visits Complain	Non Compliance	es More •				
Notifications								
Show 10 v entries								
Title 🔻 🗎	Regarding T	Туре 🔻	Issue Date 🔻 🖡	Due Date 🔻	Status 🔻			
9 Update Radiation Safety Procedures	L4469-01	Site Visit Findings	09/01/2023	06/02/2023	Action Required			
9 Schedule 3 and Schedule 4 to be amended	L4469-01	Site Visit Findings	09/01/2023	06/02/2023	Action Required			

View Inspection Findings

Update Radiation Safety Procedures						New Message	×
Authorisation Name: ORP Test Reg No: L4469-01 Open Status: Open Oue Date: 06/02/2023 Status: Open Details: A mechanism for ensuring that the RSP's are distributed to and read by all relevant staff shall be developed and records mintained. A copy of the current records shall be uploaded to EDEN, providince that the updated RSPs have been brought to the attention of, and made available the relevant workers concerned.					•	Message Subject: Message:	
Messages	2					Message Documents There are no documents available	
From 🔻	Subject 🔻	Date Sent		Actions		Upload file	
No Messages were found showing 0 to 0 of 0 entries.				Reply to EPA		Send	Cancel



Technical Issues?

Online Contact Form



ORPedensupport@epa.ie



EPA Services V

A Sign in

? Help

Welcome to EDEN

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General Data Protection Regulation (GDPR)

In line with GDPR requirements the EPA has updated its Privacy Policy and Terms of Use.

By continuing to use this website you have been deemed to have accepted these policies.

