

# RPS Services



## On and Offshore RPS

As Scotland's premier onshore facility licensed for the removal and disposal of NORM (Naturally Occurring Radioactive Material) waste, Scotoil Services has amassed a wealth of experience in Radiological Protection Supervision.

This expertise is available to our clients both on and offshore, whenever and wherever it is required.

We have provided RPS services to major oil and gas companies, the chemical industry, Universities and the Ministry of Defence.

These services have included baseline surveys, well workovers, process equipment cleanout and platform decommissioning projects.

The locations have ranged from the Norwegian and UK sectors of the North Sea, Mainland UK and as far afield as Pakistan and the Middle East.

At the outset of any supervision task we will provide your personnel with induction training on NORM, looking at the hazards that may be encountered and the precautions that must be taken.

We can also supply all the necessary PPE (Personal Protective Equipment).

## NORM Awareness Training

Scotoil offer training courses on NORM Awareness.

This covers a range of topics which include -  
Where & Why NORM Occurs, Radiation Types found in NORM, Hazards & Precautions, use of Detection Equipment, Overview of Current Legislation

These courses, whilst they can be held at the client's premises if required, Scotoil recommend that for the optimum benefit they are best held at our premises.

Here the delegates have the opportunity to acquire hands on experience in the use of detection equipment. In our controlled area they will have access to a range of topside and downhole NORM contaminated equipment from offshore.



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For further advice or information on our services, please contact:

Davidson House, Miller Street, Aberdeen, AB11 5AN, Scotland, UK  
T: +44 (0) 1224 571 491 F: +44 (0) 1224 580 861 E: enquiries@scotoil.co.uk

[www.scotoil.co.uk](http://www.scotoil.co.uk)



# Radiological Instrumentation

## Calibration

Current legislation establishes the requirement that all operational radiation contamination monitors and dose rate meters should, as a minimum, be subject to an annual inspection and test.

Scotoil Services Ltd provides an efficient and professional service for the repair, testing and calibration of gamma dose rate and alpha/beta contamination monitors.

All equipment is calibrated in accordance with the requirements laid down in The Examination, Testing and Calibration of Portable Radiation Protection Instruments - Measurements and Good Practice Guide . Produced by the National Physical Laboratory.

Scotoil Services has been assessed and found to be compliant with:-

- ISO 9001 : 2001
- ISO 14001 : 2004

In January 2007, Scotoil Services opened its purpose built instrumentation facility, which enables us to carry out calibration with certification on a complete range of contamination monitors and dose rate meters.

With the introduction of the new facility we are able to offer competitively priced calibrations with an unprecedented turn around time.

Key features of our service include:-

- Typical turn-around of 3 days on inspection and calibration.
- Express service available on request.
- Fast turn around on standard repairs usually 7 days.
- Calibration of contamination monitors against a range of isotopes.
- High Precision Dual Source Calibration Rig with fail-safe locks
- Dose rate meter saturation testing.

## Sales and Hire

Scotoil Services carries a range of monitors and dose rate meters in stock for sale and hire.

This equipment is suitable for use within the oil and gas industry as well as other industrial, research and teaching facilities.

## Instrumentation Repairs

Our fully trained and experienced staff carry out general maintenance and a comprehensive range of repairs on portable contamination monitors and dose rate meters at our fully equipped instrumentation facility, situated within our headquarters in Aberdeen.



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# Equipment Decontamination

For over 25 years Scotoil Services Ltd has operated Scotland's premier onshore facility authorised for the removal and disposal of NORM scale (Naturally Occurring Radioactive Material).

Over a period of time, NORM scale builds up in oilfield pipework, valves and equipment. Ultimately this would render the equipment inoperable and could require costly replacement.

NORM forms when large quantities of water are injected into the reservoir to displace the oil and lift it to the production platform. In moving through the reservoir, injected seawater comes into contact with the formation water in the reservoir rock structure. This formation water contains solutions of a number of naturally occurring mineral salts.

Contact with seawater can cause several salts - notably barium and strontium and also the element radium - to come out of solution. This can build up over time to form a scale on the inside of tubulars and equipment and must be removed. As radium may be contained in minute concentration in this scale and, because it is naturally radioactive, the scale itself can be classed as radioactive under UK legislation.

Equipment is decontaminated using high pressure water jetting to remove the NORM scale before the scale is disposed of in accordance with current legislation and the site authorisation.

At the Scotoil facility, all equipment is cleaned and decontaminated to natural background radiation levels, before being returned to clients. Thus allowing reuse of many high valued, critical pieces of equipment.

NORM scale is also becoming a major issue facing contractors working on the decommissioning of oil and gas installations. Legislation demands that all equipment is decontaminated before disposal.

Scotoil Services NORM scale removal and disposal operations are carried out in accordance with a comprehensive Safety Management System. The service is certified by LRQA to BS EN ISO 9001:2000 and 14001.

Scotoil Services are also an affiliate of the Water Jetting Association.

For further information on equipment decontamination, water jetting and NORM scale disposal, please contact the Operations Manager at Scotoil Services.



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# Scotoils Services

## Project Management

Scotoil Services Ltd has over the past 25 years amassed a wealth of experience in the decontamination, disposal and management of NORM (Naturally Occurring Radioactive Material).

This experience enables us to offer a comprehensive Project Management Service. Whether you require a review of existing procedures or a complete design, build and commissioning of a decontamination facility, then Scotoil Services can help.

## Design/Build

Over the last 25 years Scotoil Services has continually strived to improve its systems for decontamination of equipment, with the result that we operate an efficient and cost effective decontamination facility, capable of completely removing NORM contaminated scale from virtually all types of oil and gas production equipment.

With this expertise we are able to offer a complete design, build and installation service. This can be for anything from a single lance tubular decontamination system, to a full decontamination facility capable of cleaning all types of equipment commonly found in the oil and gas industry.

Following commissioning of the equipment, Scotoil Services is available to either run the facility on your behalf or train your own operatives in its use.

## Procedures

Scotoil Services team can review existing procedures and risk assessments to ensure that they are fit for use and comply with local and international legislation. Also in conjunction with our RPA (Radiological Protection Advisor) we can create procedures and risk assessments for new tasks and areas where NORM has been identified.

## Auditing

To complete the project management service, Scotoil Services is available to audit your systems, procedures and risk assessments, on a regular basis, to ensure compliance with local and international legislation, with regards to ionising radiation as well as SHEQ (Safety, Health, Environment and Quality Management).



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