

Application Form – Part 1

General information about the undertaking:

Name of undertaking: _____

Organisation number: _____

Visiting address: _____ Post code: _____

Town: _____

Postal address: _____ Post code: _____

Town: _____

Tel.: _____, Fax: _____, E-mail: _____

Internet address: _____

The application relates to:

New authorisation (First-Time Applicant).

Change/addition to existing authorisation(s). Enter authorisation number: _____

Renewal of existing authorisation(s). Enter authorisation number: _____

In the case of a change, addition or renewal, this should be specified in a separate attachment, unless it is covered by part 2 or 3 of the form.

I, the undersigned, apply, pursuant to the Regulations on Radiation Protection and Use of Radiation (Radiation Protection Regulations) Section 9, for authorisation for the following category/ies:

- a) Acquisition, use and maintenance of industrial radiography equipment.
- b) Acquisition and use of radiation sources for irradiation of animals, other biota, materials, products etc. for treatment, sterilisation, hardening or other purposes. This does not apply to closed X-ray facilities complying with the requirements in Section 24, paragraph 3.
- c) Acquisition and use of sealed radioactive sources for logging operations, or accelerators for the characterisation of structures around boreholes.
- d) Extensive, non-medical radiation use for research.
- e) Acquisition and administration of radiopharmaceuticals or substances in connection with medical and veterinary diagnostics and therapy.
- f) Acquisition and use of equipment for radiotherapy on humans.
- g) Acquisition and use of X-ray diagnostic apparatus within the health sector, including ordinary X-ray radiography and fluoroscopy, angiography and intervention procedures, computed tomography (CT) and mammography. The acquisition and use of simple X-ray diagnostic equipment giving low doses is exempt from the authorisation requirement.
- h) Acquisition and non-medical use of accelerators, except electron microscopes.
- i) Manufacture and import of radiopharmaceuticals.
- j) Addition of radioactive substances to products, and/or sale of such products. The sale of consumer products mentioned in Section 2, paragraph five is exempt from the authorisation requirement.
- k) Manufacture of radioactive radiation sources.
- l) Acquisition and use of open radioactive sources for tracer examinations outside the laboratory.
- m) Acquisition and use of sealed radioactive sources with activity levels greater than 2×10^6 times the exemption limits stated in the appendix to this regulation.
- n) Acquisition and use of open radioactive sources requiring type A isotope laboratory; cf. Section 27.

- o) Acquisition and use of ionising radiation to check persons and use of radiological equipment for non-medical purpose.
- p) Import and export of high activity radioactive radiation sources.
- q) Extraction of radioactive substances in connection with mining operations.
- r) Sale and leasing of radiation sources. Authorisation requirements do not apply to radiation sources and areas of use mentioned in Section 2, paragraphs five and six.
- s) Acquisition and use of magnetic resonance imaging (MR) for medical purposes.
- t) Import or manufacture of solariums for cosmetic purposes.

Radiation Protection Coordinator (cf. Section 17):

The undertaking may have several radiation protection coordinators. One of them must be designated as the central radiation protection coordinator.

Name of (central) radiation protection coordinator: _____

Postal address: _____ Post code: _____

City: _____

Tel. (Direct): _____, E-mail: _____

Short description of competence (education, experience, training, etc.): _____

Application form Part 2 for relevant categories (a-t) is attached to the application: Yes No

Number of Part 2 application forms attached to the application:

Application form Part 3 for relevant categories (a-t) is attached to the application: Yes No

Number of Part 3 application forms attached to the application:

Attachments:

Number of other attachments:

Date: _____

Signature: _____

(General manager of the undertaking)

In block letters:

APPLICATION FOR AUTHORISATION - PART 2

CATEGORY C – WELL LOGGING OPERATIONS

Part 2 shall be completed in addition to Part 1. Requested information/documentation shall be attached to this application. Please add comments if questions cannot be answered with "Yes". Section references refer to the Radiation Protection Regulations, which can be found at www.dsa.no.

Additional information about the undertaking:

Name and address of department, local office, etc., if applicable:

Organisation chart:

Organisation chart is attached in attachment No. _____

Type of well logging activity (Section 9 (c)):

Type of well logging activity (tick one or more boxes):

LWD

Wireline

Other: _____

Are oil well marker sources handled? Yes No

Are other types of ionising radiation sources handled? Yes No

If so, which types:

Statistical information:

Number of calibration facilities	
Number of Am-241/Be well logging sources permanently located in Norway	
Number of Cs-137 well logging sources permanently located in Norway	
Number of other types of well logging sources permanently located in Norway	
Number of well logging assignments with sources per year in Norway (approx.)	
Number of marker sources installed per year in Norway (approx.)	
Total number of people handling radiation sources	
Total number of persons associated with radiation sources, but does not handle them	

Radiation Protection Coordinator (Section 17):

The undertaking may have several radiation protection coordinators. One of them must be designated as the central radiation protection coordinator (specified in Part 1). The central radiation protection coordinator has the coordinating responsibility for all local radiation protection contacts.

If one or more local radiation protection coordinators have been appointed, state their name, area of responsibility, telephone number (direct), e-mail, education and competence in a separate attachment.

Are there any designated local radiation protection coordinators? Yes No

If yes, indicate how many:

Are the competence requirements laid down in Section 17 of the Regulations fulfilled? Yes

Overview and organisation of local radiation protection coordinators are given in attachment no: _____

Instructions and procedures (Sections 16 and 18)

Are instructions and procedures updated and in compliance with the requirements of the Radiation Protection Regulations? Yes

Are written instructions and procedures prepared according to the requirements of Sections 16 and 18 of the Regulations? Yes

Instructions / Procedure	Available	Dated	Comment
For radiation protection coordinator			
For users/employees who handle the sources			
Training			
Work/operations			
Maintenance/inspection of equipment			
Wipe test of sources			
Calibration and testing of radiation protection monitors			
Storage of radioactive sources			
Transport of radioactive sources			
Accidents and incidents – Notification and reporting			
Accidents and incidents – Response and management			

Please use your own sheet if you prefer.

Instructions and procedures, including dates, are listed in attachment no: _____

Risk assessment and physical protection/security measures in compliance with the requirements in Section 18 are described in attachment no. _____

Comments:

Overview of the radiation sources (Section 21):

A complete overview of the radiation sources is presented in attachment no. _____

For sealed radioactive sources, the overview must contain information about the manufacturer, model/type designation, serial number, year of manufacture, isotope, source activity on a given date (kBq, MBq, GBq), and date of the acquisition of the equipment.

Is there an overview of all radioactive sources accessible at all times? Yes

Provide a description of the undertaking's system for keeping track of the radiation sources. (Please use your own sheet if you prefer; attachment no.: _____)

Comments:

Non-conformance and incident reporting (Section 20):

Does the undertaking have written procedures for reporting accidents or abnormal events involving radiation?

Yes

Comment:

Selection of radiation source - Substitution requirement (Section 23)

Has the undertaking assessed the use of alternative radiation sources? Yes

What is the basis for the undertaking's choice of radiation sources?

Comment:

Requirements concerning radiation sources (Section 22)

Devices and equipment containing radioactive sources are marked with the standard warning symbol for ionising radiation, as well as information on source type and activity rate on a specific date. Details of manufacturer and serial number are also given. Yes

Comment:

Storage of radiation sources (Section 25)

Are the storage requirements provided in Section 25 of the Regulations fulfilled? Yes

Comment:

Shielding and safety equipment (Sections 26, 6)

Tick to indicate whether different types of radiation shielding and other safety equipment such as personal protective equipment and technical security systems are in place where required:

Equipment	Exists	Not required	Taken offshore (yes/no)
Dose rate meters for γ radiation			
Dose rate meters for neutrons			
Acoustic alarm unit			
Barrier tape			
Warning signs			
Long handling tongs			
Emergency container			
Collar shield for well logging tool			

APPLICATION FOR AUTHORISATION - PART 2
CATEGORY C – WELL LOGGING OPERATIONS

If relevant, please add your own list of safety equipment. This is provided in attachment no. _____

Is the use of radiation and shielding planned and prepared such that the dose to members of the public is kept below the dose limit of 0.25 mSv/year, cf. Section 6 of the Regulations: Yes

Description of the calibration facility:

Maximum dose rate on the outside: Measured Estimated _____

Description of security system. (Please use your own sheet if you prefer, see attachment no. _____).

Comment:

Is a drawing of the calibration facility attached: Yes No

Comments:

Classification and labelling (Section 30):

Description of how controlled and supervised areas are classified, including how it is intended to label the areas, is contained in attachment no. _____

Personal dosimetry (Section 33):

Workers working within a controlled or supervised area are equipped with personal dosimeters: Yes

The following personal dosimetry scheme is used:

Comment:

Disposal of radiation sources (Section 14):

Describe the undertaking's system for disposing of disused radioactive sources:

Confirmation:

I confirm documentation showing that the regulatory requirements are complied with is held within the undertaking and is available to the Norwegian Radiation and Nuclear Safety Authority for inspection/supervisory purposes.

Date: _____, Signature: _____

In block letters: _____