

Regulations of 13 January 1986 for the use of radioactive sources on board Norwegian drilling platforms and other mobile drilling units

Nr. 32

Laid down by the Norwegian Maritime Directorate pursuant to the Act of 9 June 1903 No 7 relating to Public Control of the Seaworthiness of Ships, etc. §§ 1 and 42.

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Forskr

§ 1

Definitions

1. For the purpose of these regulations, the following definitions shall apply:
 - 1.1. *Drilling platform*: A mobile unit equipped for drilling for petroleum resources.
 - 1.2. *Platform manager*: The senior person in command on board a drilling platform.
 - 1.3. *The Directorate*: The Norwegian Maritime Directorate or whosoever the Directorate authorizes.

§ 2

Application

These regulations apply to drilling platforms with installations and equipment, which are registered or will be registered in the Norwegian register of Ships.

§ 3

Responsibility

It is incumbent on the owner and any person carrying out work for him either personally or through employees, independent contractors or subcontractors, to ensure that these regulations are complied with in the activity.

422

Kilde: Sjøfartsdirektoratet: "Regler for flyttbare innretninger" 1989-utg. (utkommer år 115)

§ 4

Application for permission concerning the transportation, storage and use of radioactive sources on board drilling platforms

1. The owner shall obtain a written permission from the Directorate before the transportation, storage and use of radioactive sources on board a drilling platform. The application for permission shall reach the Directorate well in advance, and at the latest 4 weeks before the date when the transportation, storage and use of radioactive sources is expected to take place for the first time.
2. The following drawings, specifications etc. are to be enclosed with the application:
 - 2.1. A general plan showing the location of the storage room for radioactive sources.
 - 2.2. A complete plan for the transportation, storage and use of the radioactive equipment with a full description of the safety measures which will be taken.

§ 5

Transportation, storage and use of radioactive sources

1. General.
 - 1.1. The transportation, storage and use of radioactive equipment shall be carried out with due care and attention in order to avoid harmful effects on human life, animal life and plant life.
2. Transportation.
 - 2.1. Transportation to and from a drilling platform shall normally be effected by ship.¹
 - 2.2. Transportation containers shall satisfy the IAEA requirements.
 - 2.3. During transfer of transportation containers from supply vessels to drilling platforms or vice versa, special precautions shall be made in order to prevent the loss of containers. The platform manager shall make certain that the transfer is carried out under special supervision.
 - 2.4. If transportation has to be effected by helicopter,² the sources shall be placed as decided by the Civil Aviation Administration in order to make landing or take off possible.
3. Storage.
 - 3.1. Radioactive equipment/sources shall be stored as decided by the Directorate. The Directorate will stipulate requirements concerning the design of spaces for such storage.
 - 3.2. Radioactive sources for subsea measurement are not allowed to be stored on board for longer periods than necessary to carry out the measurement programme.
 - 3.3. The storage room shall be kept locked and marked with the standard warning sign against ionizing radiation with appropriate text. The minimum distance between the storage room and the nearest work area or off-duty quarters shall comply with the provisions in the International Maritime Dangerous Goods Code (IMO) p. 7014-1, where it is shown that this minimum distance, where conventional radioactive equipment is used, shall as a rule be 3 metres.
 - 3.4. The platform manager shall be informed by the person in charge of use of radioactive equipment on board, see subsection 4.1 below, about storage and use of radioactive equipment on board. It is also his duty to keep informed about such storage and use.
4. Use.
 - 4.1. A person representing the owner or the sub-contractor shall be appointed to supervise all use of radioactive sources. He must have the necessary knowledge of radiation protection. The Directorate will stipulate what is further to be required of the person in charge.

- 4.2. Before the sources are removed from the transportation containers, the person in charge, cf. subsection 4.1. above, shall assure himself that no unauthorized person is in the area susceptible to radiation hazard. There shall be a guard on duty and some form of barrier, as well as signs and warning lamps to the extent necessary to keep unauthorized persons away from the radiation area.
- 4.3. The mounting of the sources on the measurement sonde shall be effected speedily and accurately, and only with the aid of longhandled instruments. It must be ascertained that the sources are securely fastened to the measurement sonde before it is lowered into the well.
- 4.4. After use, a special radiation monitor shall be employed to check that the sources are in place in the containers.

¹ Transportation of radioactive sources to and from a drilling platform by ship is regulated in Regulations of 30 November 1979 concerning Carriage by Ship of Special or Dangerous Cargoes in Bulk or as Packaged Goods. § 42, subsection 2.1. decides: «As far as the carriage of radioactive substances, Class 7, is concerned, the master or the owner shall obtain supplementary information from the State Institute of Radiation Hygiene prior to loading». Ref. IAEA: «Regulations for the safe Transport of Radioactive Materials». Transport containers shall comply with the requirements of IAEA.

With regard to helicopter transportation, regulations concerning the conveyance of goods in aircraft, laid down by the Civil Aviation Administration on 15 May 1979 (latest amendments: 23 October 1984), shall apply. It is specially referred to subsection 7.5 concerning dangerous goods. It is otherwise referred to ICAO doc. 9284 - AN/905: «Technical instructions for the safe transport of dangerous goods by air».

§ 6

Training and protection of personnel

The personnel used in connection with the transportation, storage and use of radioactive equipment shall be specially trained for this work. The number of persons who participate in this work or who may otherwise be exposed to radiation hazard shall be restricted to a minimum.

All necessary protective measures shall be taken to prevent harmful effects for the above-mentioned persons and for the crew in general on board the platform.

§ 7

Individual dosimetry

When work including use of radioactive sources is carried out, anyone participating in the measurement work shall wear his own individual dosimeter. (Film, in some cases also pocket chamber).

§ 8

Contamination control

At regular intervals contamination samples (smear-tests) shall be taken of isotope containers and measurement sondes.

§ 9

Accidents

1. If a radioactive source is mislaid, or if a dispersion of radioactive elements may be expected as a result of fire, explosion or a similar occurrence, the Directorate shall be informed immediately.
2. It is the duty of the person in charge, cf. § 5, subsection 4.1., to take steps which aim at preventing further damage as a result of dispersed radioactivity (blocking off the area, monitoring etc.).

§ 10

Withdrawal of permission

1. In the event of serious or repeated violations of the provisions in these regulations, the Directorate may decide to withdraw the permission to use radioactive sources on board.
2. It may also be decided to withdraw permission if the owner, cf. § 3, obstructs an inspector from the Directorate or denies him access to check installations.
3. Where violations are of a less serious nature, the decision to withdraw permission may be made if the circumstances complained of are not put right within a reasonable time limit stipulated by the Directorate.

§ 11

Shutdown of activities

Where the continuation of operations might entail serious risk to life or health, for example in the event of contamination of larger areas on the platform, orders may be given by an inspector from the Directorate direct to the platform manager for a complete or partial shutdown until the necessary control-measurements are made and, where appropriate, decontamination is effected.

§ 12

Deviations

The Norwegian Maritime Directorate may make these regulations more stringent or deviate from the regulations where special reasons make this necessary or reasonable.

§ 13

Penal provisions

Wilful or negligent violation of these provisions shall be punished with fines pursuant to the General Civil Penal Code of 22 May 1902, No. 10, Section 339, subsection 2, provided that a stricter penalty is not applicable pursuant to any other statutory provision.

§ 14

Entry into force

These regulations enter into force on 15 February 1986.

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