

1970 No. 1827

**ATOMIC ENERGY AND RADIOACTIVE SUBSTANCES**
**The Radioactive Substances (Road Transport Workers)  
 (Great Britain) Regulations 1970**

<i>Made - - - -</i>	<i>4th December 1970</i>
<i>Laid before Parliament</i>	<i>17th December 1970</i>
<i>Coming into operation—</i>	
<i>Regulations 1 to 6 inclusive</i>	<i>19th December 1970</i>
<i>Remainder - - -</i>	<i>5th June 1971</i>

The Secretary of State for the Environment, after consulting with the Advisory Committee established under the Radioactive Substances Act 1948(a), makes these regulations in exercise of his powers under Section 5(2) and (3) of that Act, and under the Radioactive Substances Act 1948 Appropriate Minister Designation (No. 2) Order 1964(b), and of all other enabling powers:—

*Operation and Citation*

**1.**—(1) Regulations 1 to 6 of these regulations shall come into operation on 19th December 1970 and the remainder on 5th June 1971.

(2) These regulations may be cited as the Radioactive Substances (Road Transport Workers) (Great Britain) Regulations 1970.

*Interpretation*

**2.**—(1) The Interpretation Act 1889(c) shall apply for the interpretation of these regulations as it applies for the interpretation of an Act of Parliament.

(2) Reference in these regulations to any enactment shall be construed as including reference to that enactment as re-enacted, amended, extended or applied by any subsequent enactment.

(3) In these regulations, where the context so requires, reference to a radioactive substances transport worker includes reference to a person intending to be a radioactive substances transport worker, reference to a classified worker includes reference to a person intending to be a classified worker and reference to a carrier who employs a classified worker includes reference to a carrier who is intending to employ a classified worker.

(4) In these regulations reference to travelling in a vehicle, to employment in a vehicle, to exposure to radiation in a vehicle, to an attendant in a vehicle, to the personnel compartment in a vehicle, includes, in a case where the vehicle in which any radioactive substance is carried is a trailer, reference to travelling in the vehicle by which the trailer is drawn, to employment in that vehicle, to exposure to radiation in that vehicle, to an attendant in that vehicle or to the personnel compartment in that vehicle (as the case may be).

---

(a) 1948 c. 37.  
 (c) 1889 c. 63.

(b) S.I. 1964/1576 (1964 III, p. 3547).

(5) In these regulations, unless the context otherwise requires:—

- “appointed doctor” means, in relation to a classified worker—
- (a) where for the purpose of these regulations a doctor has been appointed with the approval of the Secretary of State for the Environment for the normal place of employment of the worker, that doctor,
  - (b) where the normal place of employment of the worker is situated on a site for which a nuclear site licence is in force and a doctor has been appointed for that site in pursuance of that licence, that doctor,
  - (c) in any other case, such doctor as would be the appointed doctor for the purposes of the Factories Regulations if the normal place of employment of the worker were a factory for the purposes of the Factories Act and the worker were for the purposes of the Factories Regulations a classified worker employed in that factory;
- “approved dosimeter” means a dosimeter of a type approved by the Secretary of State for the Environment for the purpose of these regulations;
- “approved laboratory” means a laboratory approved by the Secretary of State for the Environment for the purpose of these regulations, or by the Secretary of State for Trade and Industry for the purpose of a nuclear site licence, or by HM Chief Inspector of Factories for the purpose of the Ionising Radiations (Sealed Sources) Regulations 1969(a) or the Ionising Radiations (Unsealed Radioactive Substances) Regulations 1968(b);
- “approved scheme of work” and “approved scheme worker” have the meanings respectively assigned to those expressions in Regulation 7;
- “calendar quarter” means the period of three months beginning with the 1st January, the 1st April, the 1st July or the 1st October in any year;
- “the Carriage by Road Regulations” means the Radioactive Substances (Carriage by Road) (Great Britain) Regulations 1970(c);
- “classified worker” has the meaning assigned to that expression in Regulation 7;

(a) S.I. 1969/808 (1969 II, p. 2296).  
(c) S.I. 1970/1826 (1970 III, p. 5953).

(b) S.I. 1968/780 (1968 II, p. 2153).

---

“depot”	means any garage or other place from which a carrier operates any vehicle used by him for regulated transport operations and from or at which any radioactive substances transport worker operates or is employed;
“enactment”	includes a provision of an order or regulations made under an Act of Parliament;
“the Factories Act”	means the Factories Act 1961(a);
“the Factories Regulations”	means the Ionising Radiations (Sealed Sources) Regulations 1969 or the Ionising Radiations (Unsealed Radioactive Substances) Regulations 1968;
“health register”	means the register referred to in Regulation 16;
“licensing authority”	means a licensing authority for the purposes of Part IV of the Road Traffic Act 1960(b) and reference to the appropriate licensing authority, as respects any depot, is a reference to the licensing authority for the traffic area (as defined in the said Act) in which the depot is situated, and as respects any classified worker, to the licensing authority for the traffic area in which the normal place of employment of the classified worker is situated;
“normal place of employment”	means, in relation to a classified worker, the depot from which he normally operates or, where he does not operate from any depot, the place at which he normally works;
“nuclear site licence”	means a licence issued under the provisions of the Nuclear Installations Act 1965(c);
“protected employment”	means employment as respects which requirements for recording the radiation doses received by the persons employed are for the time being imposed under the Factories Act or by virtue of a condition attached to a nuclear site licence;
“radiation”	means any such ionising radiations as follows—beta particles, gamma radiation, X-radiation, electrons, positrons or neutrons;
“radioactive substances transport worker”	has the meaning assigned to that expression in Regulation 3;
“regulated transport operation”	has the meaning assigned to that expression in Regulation 3;
“Regulation”	means one of these regulations;

---

(a) 1961 c. 34.  
(c) 1965 c. 57.

(b) 1960 c. 16.

“scheme of work”	means an arrangement of work which will limit in relation to every radioactive substances transport worker to whom it applies the number of hours spent by him in travelling (whether as a driver, attendant or otherwise) in any vehicle used for the performance of regulated transport operations and the extent of his exposure to radiation in the course of such travel or otherwise;
“transfer record”	means a record, prepared on the termination of any person’s employment, of radiation doses received by him, being a record prepared in accordance with requirements for the time being imposed under the Factories Act or the Factories Regulations, or a nuclear site licence, or these regulations.

(6) In these regulations, unless the context otherwise requires, the following expressions shall have the same meanings as in the Carriage by Road Regulations:—“carrier”, “driver”, “full load consignment”, “personnel compartment”, “road”, “specially approved consignment”, “transport index” and “yellow label package”.

#### *Application*

3.—(1) Subject to the provisions of paragraph (2) of this regulation, these regulations shall apply as respects the carriage of any radioactive substance in a vehicle by road in Great Britain, being carriage where—

- (a) the radioactive substance is contained in a yellow label package and any yellow label package in the vehicle is carried nearer to any personnel compartment in the vehicle than the distance specified in the table set out in Schedule 1 to these regulations as appropriate in relation to the sum of the transport indexes specified on the labels on every yellow label package in the vehicle, or
- (b) the radioactive substance is contained in a full-load consignment or a specially approved consignment,

and in either case the radiation dose rate anywhere on any interior surface of any personnel compartment in the vehicle exceeds or is likely to exceed 2 millirem per hour at any time during the course of the carriage, and any such carriage as respects which these regulations apply is in these regulations referred to as a “regulated transport operation” and any person who in the course of his employment as an employed person, or in the course of his business as a self-employed person, acts as a driver of or an attendant on a vehicle used for the performance of a regulated transport operation, or otherwise travels in such a vehicle, is in these regulations referred to as a “radioactive substances transport worker”.

(2) These regulations shall not apply as respects the carriage of a radioactive substance where the carriage is one to which any exemption contained in Part III of the Carriage by Road Regulations applies.

#### *General Prohibitions and Requirements*

4.—(1) Except in an emergency and then so long only as is necessary in consequence of the emergency, a carrier shall not permit any person, other than a radioactive substances transport worker, to travel in any vehicle used by the carrier for the performance of regulated transport operations.

(2) No person shall be exposed to radiation as a radioactive substances transport worker unless he has received such instruction as may be appropriate, having regard to the circumstances, concerning the hazards involved and the precautions to be observed.

(3) Without prejudice to the other requirements of these regulations, a carrier shall do all that is reasonably practicable to restrict the extent to which radioactive substances transport workers who travel (whether as drivers, attendants or otherwise) in vehicles used by him for the performance of regulated transport operations are exposed to radiation; and no such worker shall expose himself to radiation to a greater extent than is reasonably necessary for the purposes of his work.

#### *Notification to Licensing Authority*

5.—(1) Where at the date of the commencement of this regulation (that is to say, at the expiration of 14 days from the making of these regulations) a carrier is operating from a depot vehicles used for the performance of regulated transport operations, the carrier shall give notice in writing to that effect to the appropriate licensing authority not later than one month after such date.

(2) A carrier shall give previous notice in writing to the appropriate licensing authority which, except in cases of emergency, shall not be less than one month's notice or such shorter notice as that authority may agree to accept, before beginning to operate from a depot for the first time after the said date of commencement or for the first time after a notice under paragraph (3) of this regulation has been given in respect of the depot, vehicles used for the performance of regulated transport operations.

(3) A carrier shall either before or within seven days after ceasing to operate from a depot (otherwise than merely temporarily) vehicles used for the performance of regulated transport operations give notice in writing to that effect to the appropriate licensing authority.

#### *Contents of Notice*

6.—(1) The notice given by a carrier under paragraph (1) or (2) of Regulation 5 shall state—

- (a) the number of vehicles used, or likely to be used, by him for the performance of regulated transport operations,
- (b) the type, or types, of such vehicles,
- (c) the registration numbers of such vehicles (if motor vehicles) so far as such numbers are known, and
- (d) the depot or depots from which such vehicles operate or are to operate.

(2) The said notice shall also contain—

- (a) a statement by the carrier whether he proposes to establish a scheme of work for some or all of the radioactive substances transport workers who will travel (whether as drivers, attendants or otherwise) in the said vehicles, and, if so, a statement of his proposals for establishing such a scheme together with details of the scheme proposed and of the workers to whom it will apply, and
- (b) where no scheme of work is proposed, or where the scheme of work proposed does not extend to all of the said workers, a statement by the carrier of the reasons why no scheme of work, or no scheme of work extending to all the said workers, can be made by him.

(3) Paragraph (2) of this regulation shall not apply in relation to any radioactive substances transport worker who is for the time being in protected employment, and where for that reason the said paragraph (2) does not apply as respects any carrier he shall include a statement of that fact in the notice given under the said Regulation 5.

*Approval of Schemes of Work*

7.—(1) Where proposals for establishing a scheme of work have been submitted by a carrier to the appropriate licensing authority (whether under Regulation 6 or otherwise) and that authority is satisfied that the operating and working conditions and the system of control and instruction provided for by the scheme will be such, in relation to each radioactive substances transport worker who works in accordance with the scheme, that the sum ascertained—

- (a) by determining for each hour to be spent by the worker in any calendar quarter in travelling (whether as driver, attendant or otherwise) in any vehicle used for the carriage of radioactive substances the number of millirem per hour which represents the maximum radiation level likely to occur anywhere on the interior surface of the personnel compartment of any such vehicle in which he will travel in that hour, and
- (b) by aggregating the numbers so determined for all the hours to be so spent by the worker in that calendar quarter, and
- (c) by adding thereto the number of millirem which the worker may receive during that calendar quarter in the course of his employment otherwise than while travelling as aforesaid,

will not exceed 375, then that authority may approve the scheme of work for the purpose of these regulations.

(2) Any such approval of a scheme of work—

- (a) shall be given in writing, and
- (b) may be given for a limited period only.

(3) A scheme of work in respect of which an approval by the appropriate licensing authority is in force under this regulation is referred to in these regulations as “an approved scheme of work”, a radioactive substances transport worker who works in accordance with an approved scheme of work is referred to in these regulations as “an approved scheme worker” and a radioactive substances transport worker who does not so work or to whom such a scheme does not apply is referred to in these regulations as a “classified worker”.

*Approved Schemes—Operation*

8.—(1) Where an approved scheme of work is in operation by a carrier, the carrier shall—

- (a) keep in respect of each approved scheme worker to whom the scheme applies records to show—
  - (i) the dates on which he travels in any vehicles carrying radioactive substances,
  - (ii) the vehicles on which he travels as aforesaid,
  - (iii) the length of time he travels in any such vehicle on each journey,
  - (iv) the estimated maximum radiation dose rate anywhere on the interior surface of the personnel compartment during each journey, and
  - (v) the radiation doses recorded or estimated as having been received by him in the course of his employment otherwise than while travelling as aforesaid,

- (b) maintain such records up to date,
- (c) preserve such records for at least two years after the latest event or matter recorded, and
- (d) make such records available at all reasonable times to the appropriate licensing authority, or to any person acting on behalf of such authority, for inspection and for copying or extracting.

(2) If at any time it appears to the appropriate licensing authority that any approved scheme worker has been, or is likely to be, exposed to radiation to a greater extent than is envisaged by the approved scheme of work applicable to him, then that authority may serve on the carrier operating the scheme a written notice revoking the approval of the scheme or declaring that the worker in question is excluded from the scheme.

(3) Where the approval of a scheme of work is revoked under paragraph (2) of this regulation, or where the period for which the approval has been given expires, the approved scheme workers to whom the scheme applied shall (if they remain radioactive substances transport workers) become classified workers for the purpose of these regulations, and their employment as such by the carrier shall be regarded as beginning on the date of the revocation of the approval or the expiry of the period (as the case may be).

(4) Where an approved scheme worker is declared to be excluded from the scheme under paragraph (2) of this regulation, he shall (if he remains a radioactive substances transport worker) become a classified worker for the purpose of these regulations, and his employment as such by the carrier shall be regarded as beginning on the date of the declaration of exclusion.

(5) Where for any other reason a radioactive substances transport worker ceases to work in accordance with an approved scheme of work but remains a radioactive substances transport worker, he shall become a classified worker for the purpose of these regulations and his employment as such by the carrier shall be regarded as beginning on the date of such cessation.

#### *Tests of Personal Exposure to Radiation—Classified Workers*

9.—(1) A carrier shall make suitable arrangements to ensure that every classified worker employed by him wears on an appropriate part or parts of his person, during the full working period in which the worker is liable to be exposed to radiation, either a suitable photographic film or films in an appropriate holder or holders, or a suitable approved dosimeter or dosimeters.

(2) It shall be the duty of every classified worker to wear in a proper manner during the full working period aforesaid any film or dosimeter provided for him in pursuance of this regulation.

(3) The carrier shall obtain the films and film holders and the dosimeters from an approved laboratory and shall arrange for the films or dosimeters identified by reference to the particular wearer, to be returned at appropriate intervals to the laboratory for examination, and for the issue to the carrier, by the director or other responsible person at the laboratory, of certificates containing particulars as to any radiation dose received by the wearer as indicated by the results of the examination of each film or dosimeter.

*Radiation Dose Records for Classified Workers*

10.—(1) A carrier shall, in relation to every classified worker employed by him—

- (a) keep as respects that worker a radiation dose record containing particulars of—
  - (i) the maximum permissible radiation doses for that worker,
  - (ii) the radiation doses received by him while a classified worker as shown by the certificates from time to time issued in respect of him under paragraph (3) of Regulation 9, and
  - (iii) the radiation doses received by him as shown on any transfer record produced to or obtained by the carrier, and
- (b) keep that record up-to-date and make it open to inspection by the worker at all reasonable times.

(2) For the purposes of this regulation reference to the maximum permissible radiation doses in the case of a worker is reference to the maximum permissible radiation doses specified in Schedule 2 to these regulations.

(3) For the purpose of the radiation dose record a dose received during any period as indicated by a certificate issued in pursuance of paragraph (3) of Regulation 9 which did not fall wholly within one calendar quarter shall, if the appropriate licensing authority so permits, be deemed to have been received in the calendar quarter in which the certificate is issued but shall in all other cases be deemed to have been received at a uniform rate on all the days (whether working days or not) throughout that period.

(4) If at any time a carrier has reason to believe that a radiation dose received by a classified worker employed by him is substantially greater or less than is shown by the relevant certificate issued in respect of him under paragraph (3) of Regulation 9, he shall arrange for the circumstances to be suitably investigated, shall notify the appropriate licensing authority in writing of the result of the investigation and of the particulars of the radiation dose which the worker is estimated to have actually received and shall enter the result of that investigation and those particulars on that worker's radiation dose record.

(5) If at any time it appears to the appropriate licensing authority that a classified worker has received a radiation dose substantially greater or less than is shown by the relevant certificate issued in respect of him under paragraph (3) of Regulation 9, that authority may direct the carrier by whom the worker is employed to investigate the matter and the carrier shall thereupon arrange for the circumstances to be investigated as provided in the last foregoing paragraph of this regulation and shall comply with the other requirements of that paragraph.

*Initial Medical Examination for Classified Workers*

11.—(1) Subject to paragraphs (2) and (4) of this regulation, no person shall be employed by a carrier as a classified worker unless—

- (a) within the period of fourteen months immediately preceding his first employment by the carrier as a classified worker, he has been examined by the appointed doctor and has, by signed entry by the appointed doctor in the health register kept by the carrier or by a previous employer, been certified fit for employment as a classified worker, and



(b) he has at any time undergone a blood examination under the provisions of these regulations, or a similar blood examination under the provisions of some other enactment, and an adequate report of the results of such examination is available and known to the appointed doctor.

(2) In the case of any person who, at the date of the coming into operation of this regulation, is employed by the carrier as a classified worker, paragraph (1) of this regulation shall not apply until his next first employment by the carrier as a classified worker, but that person shall not continue to be employed by the carrier as a classified worker for a period exceeding fourteen months from the coming into operation of this regulation unless within that period he is examined by the appointed doctor, by an examination which shall include a blood examination unless an adequate report of the results of an earlier blood examination under the provisions of these regulations or of some other enactment is available and known to the appointed doctor, and is, by signed entry by the appointed doctor in the health register, certified fit for employment as a classified worker.

(3) In the foregoing provisions of this regulation the expression "first employment by the carrier as a classified worker" means, in relation to a classified worker, either his first employment by that carrier as such a worker or his re-employment by that carrier as such a worker following any cessation of such employment by that carrier for a period exceeding fourteen months.

(4) In the case of a person who becomes a classified worker in the employment of a carrier by virtue of paragraph (3), (4) or (5) of Regulation 8, paragraph (1) of this regulation shall not apply, but that person shall not continue to be employed by the carrier as a classified worker for a period exceeding fourteen months, or if the licensing authority so directs in relation to that person, four months, from the date on which he became a classified worker as aforesaid unless within that period he is examined and certified fit for employment as a classified worker, in the manner indicated in paragraph (2) of this regulation.

#### *Medical Supervision of Classified Workers*

**12.—(1)** A carrier shall make arrangements for the medical supervision by the appointed doctor of every classified worker employed by the carrier, including specific arrangements for medical examination as provided in this regulation.

(2) The carrier shall arrange for every such worker, so long as his employment by the carrier as a classified worker continues, to be examined by the appointed doctor—

(a) in the first calendar quarter of any calendar year immediately following a calendar year in which, according to the worker's radiation dose record, he has received radiation doses in excess of three tenths of the maximum permissible radiation doses specified in Schedule 2 to these regulations, and

(b) at such other times as the appointed doctor may reasonably request.

(3) If at any time it appears from the certificates issued in pursuance of paragraph (3) of Regulation 9, or otherwise, that a classified worker has received radiation doses in excess of the maximum permissible radiation doses specified in Schedule 2 to these regulations, then—

(a) the carrier employing him shall forthwith notify the appropriate licensing authority,

(b) the worker shall undergo without delay a medical examination by the appointed doctor, and

(c) that worker shall not, pending that examination, travel in any vehicle used for the performance of regulated transport operations.

*Medical Examinations of Classified Workers*

13.—(1) Any medical examination by the appointed doctor for the purposes of these regulations shall be carried out at such place within the district for which the doctor is the appointed doctor as he may reasonably specify (except where otherwise directed by the appropriate licensing authority), and reasonable notice of the date, time and place of the examination shall be given by the appointed doctor to the carrier who employs the classified worker to be examined.

(2) It shall be the duty of the carrier so notified to arrange for the classified worker to be examined and of the classified worker to submit himself for examination by the appointed doctor in accordance with the notification.

(3) As respects any medical examination for the purposes of these regulations, the appointed doctor may at his discretion require an examination of the blood or any other special medical examination intended to ascertain the state of health of a person who has been, or will be, exposed to radiation.

(4) Every blood examination for the purposes of these regulations shall be made by an approved laboratory and shall be in accordance with the requirements of the appointed doctor.

(5) The report of every blood examination shall be sent to the appointed doctor.

*Recommendations by Appointed Doctor*

14.—(1) In relation to a classified worker examined by him under these regulations the appointed doctor may recommend by written certificate in the health register signed by him that the worker be suspended from employment as a classified worker and the recommendation shall draw the attention of the carrier employing him to the provisions of Regulation 8 of the Carriage by Road Regulations (which obliges consignors and carriers of radioactive material to exercise reasonable care to secure that the material shall not in the course of carriage cause injury to the health of any person).

(2) The appointed doctor shall forthwith notify the appropriate licensing authority whenever a recommendation is made under this regulation in relation to a classified worker.

(3) Whenever a recommendation has been made under this regulation in relation to a classified worker, that worker shall not be further employed as a classified worker without the written approval of the appointed doctor entered in the health register.

*Facilities for Appointed Doctor*

15. A carrier who employs a classified worker shall afford to the appointed doctor adequate facilities for inspecting any vehicle in which the worker is or has been or will be employed as a classified worker and shall furnish to the doctor adequate information as to the methods of work and the working conditions of the worker.

*Health Register*

16. A carrier shall keep at each depot from which he operates vehicles used for the performance of regulated transport operations a health register which shall contain particulars of all classified workers for whom that depot is their normal place of employment, and the appointed doctor shall enter in the health register the dates and results of all examinations of those classified workers. In order to facilitate the making of any such entries, the carrier shall, if so requested by the doctor, send the register to him at the place where an examination is carried out and as soon as may be after making the entries the doctor shall return the register to the carrier.

*Transfer Records*

17.—(1) Where any person ceases to be employed by a carrier by whom he has been employed as a classified worker, the carrier shall forthwith prepare a transfer record containing particulars of the sums of radiation doses received by that person as indicated in his radiation dose record. The carrier, if he knows the whereabouts of that person, shall forthwith supply him with the transfer record and shall in any case forthwith send a copy of it to the licensing authority for the district in which is situated that person's last normal place of employment as a classified worker.

(2) Before any person who was previously in protected employment with another employer or who was previously employed as a classified worker by another employer, is employed, or engaged for employment, as a classified worker by a carrier, that person shall notify the carrier of the said previous employment; and shall, if he has received from his previous employer a transfer record and that record is still in his possession, produce it to the carrier and make it available to the appointed doctor. In the event of that person being employed, or engaged for employment, as a classified worker by the carrier the transfer record shall be retained by the carrier.

(3) When a carrier is aware that a classified worker was previously in protected employment with another employer or was previously employed as a classified worker by another employer and that person does not produce a transfer record in pursuance of paragraph (2) of this regulation, the carrier shall forthwith apply to the appropriate licensing authority for a copy of that record.

*Form and Preservation of Records*

18.—(1) The particulars to be entered in every register, certificate or record to be kept in relation to a classified worker in pursuance of these regulations shall resemble as near as is practicable the corresponding particulars prescribed or approved for similar registers, certificates or records kept for similar purposes by or under the Factories Regulations.

(2) Every register, certificate or record kept in relation to a classified worker in pursuance of these regulations and every transfer record and copy transfer record received in relation to that worker in pursuance of Regulation 17 by the carrier employing him shall be preserved by the carrier employing him, and shall, while the worker is employed by the carrier, be made available for inspection and for copying or extracting to the appropriate licensing authority or to any person acting on behalf of such an authority and to the appointed doctor; and after the worker shall cease to be so employed, shall be made available for inspection to any licensing authority at the principal place of business of the carrier.

(3) Every such register, certificate, record or copy shall be so preserved and made available for such inspection for at least the following periods after the last entry therein, that is to say, two years in the case of a certificate and thirty years in all other cases.

*Exemptions in relation to workers who are otherwise protected*

**19.**—(1) Subject as hereinafter provided, the provisions of Regulations 7 to 18 (inclusive) shall not apply in relation to any radioactive substances transport worker who is for the time being in protected employment.

(2) It shall be the duty of a classified worker who is for the time being in protected employment to wear in a proper manner any film or dosimeter provided for him in pursuance of the Factories Regulations or the nuclear licence (as the case may be) on all occasions when he would have been required by these regulations to wear the films or dosimeters provided in pursuance of these regulations had he not been in such employment.

*Self-employed Persons*

**20.** The provisions of these regulations shall have effect in relation to a radioactive substances transport worker who is a self-employed person as they have effect in relation to a radioactive substances transport worker who is an employed person, but with the following modifications:—

- (a) the obligations imposed by those provisions on the employer of the worker shall be regarded as being imposed upon the worker himself and those obligations shall be additional to those imposed by these regulations upon him as a radioactive substances transport worker;
- (b) references in those provisions to employing or ceasing to employ a person as a classified worker shall be construed as references to acting or ceasing to act as a classified worker and references to being employed or ceasing to be employed as a classified worker or to employment as a classified worker shall be construed similarly; and
- (c) references in those provisions to suspending a person from employment as a classified worker shall be construed as references to ceasing to act as a classified worker.

Signed by authority of the Secretary of State.

*John Peyton,*  
Minister for Transport Industries  
Department of the Environment.

4th December 1970.

(See Regulation 3)

## SCHEDULE 1

*Table of distances for yellow label packages  
from personnel compartment in vehicle*

<i>Sum of transport indexes</i>	<i>Distance</i>	<i>Metres</i>
Up to 2	3 feet 6 inches	1·0
Over 2, but not over 4	4 feet 6 inches	1·5
Over 4, but not over 8	6 feet	2·0
Over 8, but not over 12	7 feet 6 inches	2·5
Over 12, but not over 20	10 feet 6 inches	3·5
Over 20, but not over 30	12 feet 6 inches	4·0
Over 30, but not over 40	14 feet 6 inches	4·5
Over 40, but not over 50	16 feet 6 inches	5·0

(See Regulations 10(2) and 12)

## SCHEDULE 2

### *Maximum Permissible Radiation Doses*

1. Except as provided in paragraph 4 of this Schedule, in any calendar year the maximum permissible radiation doses for a classified worker shall be—

- (a) 75 rem to the hands, forearms, feet and ankles, of which not more than 40 shall be received in any calendar quarter;
- (b) 15 rem to the lenses of the eyes, of which not more than 8 shall be received in any calendar quarter;
- (c) 30 rem to other parts of the body, of which not more than 15 shall be received in any calendar quarter.

The provisions of sub-paragraph (c) of this paragraph shall be without prejudice to the provisions of paragraph 2 of this Schedule.

2. Except as provided in paragraph 4 of this Schedule, the sum of doses received in any calendar quarter by any classified worker to parts of the body other than the eyes, hands, forearms, feet and ankles from all or any one or more of the following kinds of radiation, that is to say X-rays, gamma rays and neutrons, shall not exceed 3 rem (or in the case of women 1.3 rem), and the number of rem in the total cumulative dose received therefrom to those parts of the body shall not at any time exceed 5 times the number of years from the first day of January of the year in which the worker attained the age of 18. For the purpose of calculating the said doses a part of a year shall be counted as a year.

3. If the carrier who employs a classified worker is aware that he was during any period—

- (a) in protected employment, or
- (b) in employment which, if it had occurred after the coming into operation of any relevant regulations under the Factories Act, or of any relevant nuclear site licence (as the case may be), would have been protected employment, or
- (c) in employment as a classified worker, or
- (d) in employment which, if it had occurred after the coming into operation of these regulations, would have been employment as a classified worker, or
- (e) in any other work involving exposure to radiation,

but no information is available to the carrier as to the doses which that worker received during that period of the kinds of radiation, and to the parts of the body, specified in paragraph 2 of this Schedule, then that worker shall, for the purpose of calculating his total cumulative dose referred to in the said paragraph, be deemed to have received during that period doses at the rate of 5 rem a year to the parts of the body and from the kinds of radiation referred to in that paragraph.

4. In the case of any female classified worker whom the carrier knows, or has reasonable cause to believe, to be pregnant the maximum permissible sum of doses from all or any one or more of the following kinds of radiation, that is to say X-rays, gamma rays and neutrons, during the remaining period of her pregnancy shall be one rem.

## EXPLANATORY NOTE

*(This Note is not part of the Regulations.)*

These regulations impose on carriers and employees engaged in the transport of radioactive materials by road in Great Britain certain requirements additional to those imposed generally (for the purpose of preventing injury to health being caused by such transport) by the Radioactive Substances (Carriage by Road) (Great Britain) Regulations 1970.

These regulations apply only to "regulated transport operations" as defined in Regulation 3. Where any such operations are proposed or being undertaken among other matters—

- (a) the general prohibitions and requirements in Regulation 4 apply;
- (b) the carrier must give prior notice to the appropriate licensing authority (Regulation 5);
- (c) the carrier must establish a scheme of work, if possible, which satisfies the licensing authority and, inter alia, meets the requirements of Regulation 7(1) so as to limit the radiation doses liable to be received by workers on vehicles engaged in such operations (Regulations 5-8);
- (d) in relation to any worker not covered by an approved scheme of work, i.e. a "classified worker", the requirements in Regulations 9-18 are imposed on carriers and workers.

Certain exemptions are given by Regulation 19 and a general adaptation of the regulations to self employed persons is contained in Regulation 20.

SI 1970/1827  
ISBN 0-11-001827-3



780110018270