

# Economic and Social Council

Distr. GENERAL

TRANS/WP.15/1999/22 10 March 1999

**Original: ENGLISH** 

# ECONOMIC COMMISSION FOR EUROPE

# INLAND TRANSPORT COMMITTEE

<u>Working Party on the Transport</u> <u>of Dangerous Goods</u> (Sixty-seventh session, Geneva, 8-12 November 1999)

# SPECIAL TRAINING OF RADIOGRAPHERS AND OTHER PROFESSIONALS

Submitted by the Government of the Netherlands

# Analytical summary:

The purpose of this document is to exempt radiographers and other professionals only carrying their equipment containing radioactive materials of Class 7 from the provisions of the basic and specialization training of ADR.

Action to be taken: Amendment of marginals 71 315 and 10 381 (2) of ADR.

# **Related documents:**

Appended are:

the list of members of CEOC (Confederation européenne des organismes de contrôle) with their representatives in CEOC;

the list of those members of CEOC who participate in the working group for Non Destructive Testing, with their representatives.

# **Introduction**

As from 1997 drivers of all vehicles carrying radioactive materials are subject to the basic and specialization training of drivers. Marginal 71 315 of ADR states that irrespective of the permissible weight of the vehicle the requirements of marginal 10 315 with regard to approved training and the

GE.9920910

issue of an approved training certificate apply to drivers of vehicles carrying radioactive material covered by one of the Schedules as mentioned in this marginal.

This change in the 1997 edition of ADR had a severe impact on professionals carrying their equipment to the place where they have to carry out their profession (for example radiographers). They are obliged to obtain certification as the driver of the car that takes them to their job. The job itself consists of taking away the shielding material and application of the radiation that is set free.

In most, if not all countries, the possession of radioactive material and equipment that produces ionising radiation is subject to strict regulations resulting from a Nuclear Power Act. This means that the professionals that possess, handle and apply radioactive material must have passed considerable training, examination and certification. This education is either controlled directly by the governmental authorities or indirectly through the legislation on power equipment and the education of personnel according to European Standard 473 for Non Destructive Testing, or by both. Because these regulatory requirements for radioactive material and equipment emitting ionising radiation are different in the various countries, it is impossible for these professionals to carry out their work in another country than that in which they have received their training.

Taking into account that international harmonisation of these requirements is still a long way off, it should be obvious that whatever regulation the ADR prescribes, the result will never be that these people can cross borders with their equipment in order to carry out their activities in another country.

This proposal is endorsed by CEOC. Members of this federation (see annex) are institutes appointed by the governmental authorities that survey the safety of industrial installations in Europe.

# Proposal

Add the following paragraph to marginal 71 315:

(5) If, according to other regulations applicable in the country of a Contracting Party, professionals carrying only their equipment have undergone approved equivalent training and examination under a different regime or for a different purpose covering the subjects referred to in paragraph (2), all training requirements, including certification, applicable to the carriage of dangerous material of Class 7, may be totally or partially dispensed with.

Such training and examination may only be recognized by other Contracting Parties if the competent authority of that Contracting Party has declared this on the certificate issued.

Add the following text to marginal 10 381 (2)b):

The driver's training certificate...... Appendix B.6 and if applicable the certificates as referred to in marginal 71 315 (5).

# **Justification**

# Safety

The safety of the transport of the materials concerned remains the same, because after introduction of the proposed addition, the most demanding of one of two sets of requirements remains valid for every Contracting Party. The fact is that for those Contracting Parties that have a regulation in place for this category of professionals, the present version of ADR adds unnecessary barriers, whereas for those Contracting Parties that have less demanding requirements from other legislation, the present content of ADR sets a minimum safety level.

The radiographers are certified according to a strict regime in which a renewal of certification takes place every 3 or at a maximum 5 years. This ensures that experience and knowledge are always fresh.

The professionals are already trained to take the radioactive material out of the package and to apply the radiation. In that situation the radiation levels are a factor 1000 to 10.000 higher with respect to the levels of the shielded material. Therefore it may be concluded that the expertise of the trained professional is in principle more than sufficient.

# Feasibility

Those professionals working with radioactive materials in different places within the country of a Contracting Party, as well as their employers, are affected by the proposed addition to ADR. The number of industrial radiographers in the member states of the European Union only exceeds 5000. This category probably forms the majority. The proposed addition exempts these professionals from training hours, the cost of training, the cost of certification and re-certification and from the effort of studying and passing the examination.

All radiographers have to comply with an international training and examination scheme. A radiographer carrying out his work independently must have passed examinations RT1 and RT2. For each level, 8 hours have to be spent on radiation safety and carriage. The level of the examination is harmonised by the International Committee for Nondestructive Testing in the Requirements of Technical Knowledge of NDT-Personnel of Recommendation ICNT WH 17-85, part. 9.5.

In the Netherlands, radiographers have also to undergo a course entirely on radiation protection, including transport regulations. This course consists of 32 hours theory, 8 hours practice and 4 hours examination. The cost involved for this course is approximately \$2500 per person.

The cost of training for the ADR basic and specialisation courses is about 3600 \$ per person. This could be avoided if this proposal were adopted.

# Enforcement

The radiographers should carry on the transport unit their radiographers certificate RT2 and the diploma of the course on radiation protection.

The government authorities themselves supervise the training of the professionals. Therefore they are in a good position to judge whether the training of these professionals is in accordance with the above proposed paragraph (5) of marginal 71 315 of ADR. If this is not the case the regulations of the special training as referred to in marginal 10 315 and the other paragraphs of marginal 71 315 of ADR are fully applicable to these professionals.

# CEOC MEMBERS AND REPRESENTING PERSONNEL

Astbury, Philip Plant Safety (SAFed) Parklands, 825a Wilmslow Road, Didbury MANCHESTER M20 2RE UNITED KINGDOM

Aupetit, Philippe Apave 17, rue Salneuve 75017 PARIS FRANCE

Backersgård, Jörgen SAQ Kontroll AB Manufakturgatan 7 417 07 GÖTEBORG 100 29 SWEDEN

Bartolome Gullon, Pedro ATISAE San Telmo, 28 28016 MADRID SPAIN

Bauerschlag, Detlef Dr TÜV Hannover / Sachsen-Anhalt E.V. Am TÜV 1 30519 HANNOVER GERMANY

Bengtsson, Anette SAQ Kontroll AB Box 49306 100 29 STOCKHOLM SWEDEN Cannerozzi, Matteo I S P E S L Via Alessandria 220/E 00198 ROMA ITALY

Clement, Bertrand Apave de l' Ouest 5, rue de la Johardiere 44803 ST-HERBLAIN CEDEX FRANCE

Dahlberg, Lars SAQ Kontroll AB Box 49306 STOCKHOLM SWEDEN

de Kazinczy, Ferenc SAQ Kontroll AB Box 49306 100 29 STOCKHOLM SWEDEN

Dell Piane, Raffaele I S P E S L Via Urbana 167 00184 ROMA ITALY

Deschesne, Jean Apave 191, rue de Vaugirard 75015 PARIS FRANCE Cancellieri ISPESL I Via Alessandria, 220 00124 ROMA ITALY

Gareis, Klaus VdTÜV Kurfürstenstraße 56 45138 ESSEN GERMANY

Giacobbo Scavo, Paolo I S P E S L Via Alessandria, 220/E 00186 ROMA ITALY

Gizycki, Grzegorz Urzad Dozoru Technicznego u1. Szczesliwicka 34 02-353 WARSZAWA POLAND

Grassmuck, Jochem VdTÜV Kurfürstenstraße 56 45138 ESSEN GERMANY

Hagberg, Nils-Olof SAQ Kontroll AB Box 49306 100 29 STOCKHOLM SWEDEN

Harris, Alan British Engine Insurance Longridge House MANCHESTER, M60 4DT UNITED KINGDOM TRANS/WP.151999/22

page 5

Di Giovanni, Domenico S P E S L Via Alessandria, 220 00124 ROMA ITALY

Hayes, Malcolm Eagle Star Engineering 54 Hagley Road Edgbaston BIRMINGHAM B16 8QP UNITED KINGDOM

Hedelin, Jean Louis Apave de l' Ouest 5, rue de la Johardiere Z.I.L. – B.P. 289 44803 ST-HERBLAIN CEDEX FRANCE

Heron, Claude-Henri Apave Normande 2 Rue des Mouettes BP 98 76132 MONT-SAINT-AIGNAN CEDEX FRANCE

Hjelmare, Christer SAQ Kontroll AB Bråddgatan 7 602 22 NORRKÖPING SWEDEN

Hoebler, Jean Coprec c/o Bureau Veritas 92077 PARIS LA DEFENSE CEDEX FRANCE

Holmegaard, Poul Arbejdstilsynet Kastanievej 19 3480 FREDENSBORG DENMARK

Hassi, Simo Technical Inspectorate Centre P.O. Box 204 00181 HELSINKI FINLAND

Malouines, Philippe Gapave 191, rue de Vaugirard 75015 PARIS FRANCE

Mathé, Joel Apave de l'Ouest 5, rue de la Johardiere Z.I.L. – B.P. 289 44803 ST-HERBLAIN CEDEX FRANCE

Mazzocchi, Vittorio I S P E S L Via Alessandria, 220/E 00198 ROMA ITALY

Miles, Malcolm Safety Assessment Federation 54 Hagley Road, Edgbaston BIRMINGHAM B16 8QP UNITED KINGDOM

Moccaldi I S P E S L Via Alessandria, 220/E 00124 ROMA ITALY

Morgan, Richard Safety Assessment Federation Nutmeg House, 60 Gainsford Street, Butlers Warf LONDON SE1 2NY UNITED KINGDOM Ianneello I S P E S L Via Alessandria, 220 00124 ROMA ITALY

Oechsel, Jean-Pierre Gapave 191, rue de Vaugirard 75015 PARIS FRANCE

Pagano, Gionvanni I S P E S L Via Alessandria, 220/E 00188 ROMA ITALY

Poli, Ugo I S P E S L Via Urbana 167 00184 ROMA ITALY

Posner, Tamar Safety Assessment Federation Nutmeg House, 60 Gainsford Street, Butlers Wharf LONDON SE1 2NY UNITED KINGDOM

Rauch, Pierre Apave Alsacienne 2 Rue Thiers 68100 MULHOUSE FRANCE

Riad Said, Roby ATISAE San Telmo, 28 28016 MADRID SPAIN Musgrave, Tony National Vulcan St. Mary's Parsonage MANCHESTER M60 9AP UNITED KINGDOM

Taylor, Norman British Engine Insurance Longridge House MANCHESTER, M60 4DT UNITED KINGDOM

Tennant, Malcolm Plant Safety (SAFed) Parklands, 825a Wilmslow Road, Didsbury MANCHESTER M20 2RE UNITED KINGDOM

Tesar, Jaroslav ITI Praha e Smeckach 29 PRAHA 1 CZECH REPUBLIC

Tollstén, Anders SAQ Kontroll AB Box 49306 100 29 STOCKHOLM SWEDEN

Vaccari I S P E S L Via Alessandria, 220 00124 ROMA ITALY

Walczak, Marek Urzad Dozoru Technicznego Dr ul. Szczesliwicka 34 02-353 WARSZAWA POLAND TRANS/WP.151999/22

page 7

Rimmer, Knud Force Institute Park Alle 345 2605 BRÖNDBY DENMARK 3

Van den Berghe, Etienne APRAGAZ Rue des Quatre Vents, 11 1080 BRUSSELS BELGIUM

Wessely, Lutz K Dr VdTÜV Kurfürstenstraße 56 45138 ESSEN GERMANY

Whiteaker, Clive Lloyd's Register Lloyd's Register House, 29 Wellesley Road CROYDON CR0 2AT UNITED KINGDOM

Vire, Sylvestre Institut de Soudre BELGIUM

Wisniewski, Gracjan Urzad Dozoru Technicznego ul. Szczesliwicka 34 02-353 WARSZAWA POLAND

Witt, Werner Dr TÜV NORD E.V. Grosse Bahnstraße 31 22525 HAMBURG GERMANY

Wallace, Robin Dr Safety Assessment Federation 54 Hagley Road, Edgbaston BIRMINGHAN B16 8QP UNITED KINGDOM Völzow, Michael CEOC Rue de Commerce 20-22 1040 BRUSSEL BELGIUM

CEOC Commission on Non Destructive Testing Members

#### Mr Otto Wimmer, OIng.Dipl.-Phys.

TÜV Anlagen- und Umwelttechnik GmbH Postfach 210420 D-80674 MÜNCHEN FEDERAL REPUBLIC OF GERMANY

Tel.		: + 49 89 57 91 18 32
Fax	:	+ 49 89 57 91 18 33

#### Mr J. Dyrla

Groupement des Apave (Gapave) 191, Rue de Vaugirard F-75015 PARIS FRANCE

Tel.	: + 33 1 45 66 99 44
Fax	: + 33 1 45 67 90 47

#### Mr C. de Petris

ISPESL Centro Ricerche XII U.F. / Department Technology of Safety Via Fontana Candida, 1 IT-00040 MONTEPORZIOCATONE (ROMA) ITALY

Tel. : + 39 6 941 81 89 5 Fax : + 39 6 941 94 53

#### Mr G. Ludovisi

ISPESL Via Urbana, 167 IT-00184 ROMA ITALY

Tel.	: + 39 6 482 77 32
Fax	: + 39 6 474 18 31

#### Mr S. Hassi

Technical Inspectorate Centre P.O.Box 204 FIN-00181 HELSINKI FINLAND

Tel.	: + 358 10 521 61 1
Fax	: + 358 10 521 62 11

# Mr Balas

TÜV Austria Deutschstraße 10 A-1230 WIEN AUSTRIA

Tel.	: + 43 1 61 09 10
Fax	$:+43\ 1\ 61\ 09\ 11\ 0$

# Mr P. Astbury, Chief Engineer

Safed Plant Safety Limited Parklands Wilmslow Road 825 a DIDSBURY, MANCHESTER M20 2RE ENGLAND

Tel.	: + 44 161 446 46 55
Fax	: + 44 161 448 80 05

#### Mr H. Hoogstraate

Röntgen Technische Dienst bv Delftweg 144 P.O.Box 10065 NL-3004 AB ROTTERDAM THE NETHERLANDS

Tel.	: + 31	10 208 82 99
Fax	: + 31	10 415 80 22

# Mr D. Martin

CEP Industrie / Bureau Veritas 13/15, rue d'Anjou Z.A. des Béthunes - BP 405 F-95005 CERGY POINTOISE CEDEX FRANCE

Tel.	: + 33 1 34 40 31 31
Fax	: + 33 1 34 40 31 00

# Mr I. Cornelis

AIB-Vinçotte Avenue du Roi 157 BE-1060 BRUSSELS BELGIUM

Tel.: + 32 2 536 83 83Fax: + 32 2 536 84 42

# Dr.In. Gracjan Winiewski

Urzd Dozoru Technicznego ul. Szczliwicka 34 02-353 WARSZAWA POLAND

Tel.	: + 48 22 822 08 93
Fax	: + 48 22 822 72 09

#### Mr Marc Tondeur

Bureau Veritas Benelux Mechelsesteenweg 128/136 BE-2018 ANTWERP BELGIUM

Tel.	$:+32\ 3\ 247\ 95\ 00$
Fax	: + 32 3 247 94 99

# Mr K. Rimmer

Force Institute Park Allé 345 DK-2605 BRONDBY DENMARK

Tel.	$:+45\;43\;26\;70\;00$
Fax	: + 45 43 26 70 11

# Mr K. Rupert

ITI Prague Ve Smeckach 29 11352 PRAGUE 1 CZECH REPUBLIC

Tel.	: + 420 (2) 24 22 81 52
Fax	: + 420 (2) 24 22 83 40

#### Mr B. Sandström

SAQ Kontroll AB Manufakturgatan 7 S-417 07 GÖTEBORG SWEDEN

Tel.: + 46 31 65 52 00Fax: + 46 31 23 58 94

# Mr L. Kaelin

SVTI/EGI Überlandstraße 129 CH-8600 DÜBENDORF SWITZERLAND

Tel.	: + 41 (1) 8 23 40 51
Fax	: + 41 (1) 8 22 01 32

All commission documents for information to:

# Mr M. Völzow CEOC General Secretariat Rue de Commerce, 20 - 22 BE-1000 BRUSSELS BELGIUM

Tel. : + 32 2 511 50 65 Fax : + 32 2 502 50 47