

**ELEVENTH REPORT
OF THE STEEL INDUSTRY SAFETY
AND HEALTH COMMISSION**

1979

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1. INTRODUCTION

This, the 11th report of the Steel Industry Safety and Health Commission (SISHC), has been drawn up with a view to informing the European Parliament and the Consultative Committee of the ECSC about the activities of the SISHC during 1979.

The main event of the SISHC's year was the organization of the second Symposium on Accident Prevention on 29 and 30 November, which was attended by more than 200 participants. In addition, all the meetings planned by the SISHC for 1979 actually took place, except for two of them which were postponed until the beginning of 1980, because of the administrative workload of the preparations for the symposium.

Although the overall trend in accident statistics cannot be fully analysed, for the reasons outlined in chapter 7 of this report, it is worth noting that there has been a considerable decline in fatal accidents. In the early 1960 the Community of Six recorded yearly nearly 200 deaths due to industrial accidents among wage-earners in the iron and steel industry. In 1978 there were 66 such accidents in the Community of Nine among personnel as a whole (both wage-earners and salaried staff).

This does not of course mean that the safety aims pursued by the SISHC and the employers' and employees' organizations represented on it - aims which are shared by the industry and its staff, public authorities, compensation bodies, industrial medicine and safety departments and many more besides - have been achieved.

The SISHC sees this trend as proof that accident prevention activities which have been stepped up in the industry since 1960, have in part been effective, and hopes that they will be intensified and improved. The SISHC wishes to state once again that preserving the physical safety of workers remains and will remain a major preoccupation and an essential duty of industry, devolving both on management and on all employees whatever their job or position in the hierarchy, and sincerely hopes that this principle will be put into practice by all sectors of the iron and steel industry even more actively than in the past.

2. MEETINGS OF THE STEEL INDUSTRY SAFETY AND HEALTH COMMISSION

The SISHC did not meet in 1979, owing to a shortage of topics for discussion, due mainly to the fact that none of the working parties had reached definitive conclusions, as to substance and form, on the matters in hand.

The SISHC did however approve its 10th Report on activities in 1978, by written procedure.

This situation is by no means unusual, as the experts' deliberations do not necessarily result in a regular and continuous stream of conclusions. It usually takes some time for definitive conclusions to be reached, especially where the field covered is fairly wide. Moreover, the need to work in several languages in fields which are often highly specialized does create difficulties of understanding which are not insurmountable but which can hold up the experts' work.

The reader will also note from chapter 3 on "Meetings of Working Parties" that in 1979 every working party completed, or almost completed, at least one study.

3. MEETINGS OF WORKING PARTIES

3.1. Working Party on the Organization of Accident Prevention

This working party met twice in 1979, on 14 and 15 February and on 11 and 12 September.

At the first of these meetings, the working party completed its deliberations and prepared its conclusions on the cooperation of workers and their representatives in accident prevention within the enterprise.

The various language versions of the document on this subject were revised by the experts at the second meeting in 1979. This text will be submitted to the SISHC for approval at its meeting in 1980.

The working party also embarked on a study on "The basic principles of making safety an integral part of work - The role of management". Its conclusions will probably be finalized at the second meeting in 1980.

3.2. Working party on Safety - Training

There were two meetings of this working party in 1979, on 13 and 14 March and on 10 and 11 October.

At the meeting in March members finalized the various language versions of its conclusions on safety training of workers' representatives. They will be presented to the SISHC for approval at its meeting in 1980, with the title "General considerations on the training of workers' safety representatives in safety and health matters".

At its second meeting the working party continued its discussion of safety training for first-line supervisors which it had begun in March. Discussion of this subject proved to be particularly difficult, partly because staff functions at different supervisory levels vary from one country to another, and even from one works to another within the same country, and partly for linguistic reasons, as the same job titles may be used in different countries to refer to different levels of responsibility and that despite the apparent similarity of job titles in different languages, the functions to which they refer are different.

Once these points had been clarified, the working party was able to continue its deliberations without further difficulty and it is hoped that its talks on this subject will be completed at the second meeting in 1980.

3.3. Working party on Safety-Gas Lines

This working party met three times in 1979; the first meeting on 27 and 28 February was held to replace a meeting that had been cancelled in 1978.

At that meeting, it continued its examination of gas explosions and prevention, and decided to draw up a special document on gas holders.

At a meeting on 28 and 29 March 1979 the working party continued its discussions on gas explosions by examining the problems of equipotentiality and earthing of lines, and the explosion hazards of gas compressors.

At a third meeting (on 18 and 19 October) the working party arrived at certain conclusions on the safe use of gas compressors which will be outlined in a special document, as the explosion hazards involved are just one aspect of the safety problems linked with the use of these machines.

Members also decided to draw up a code of practice on specifications for automatic safety systems installed on steel industry gas production equipment.

3.4. Working party on Safety-Oxygen

It was only possible to hold one meeting of this working party in 1979; the second meeting scheduled for November had to be cancelled to allow for the preparation of the second Symposium on Accident Prevention described in another section of this report.

The meeting which did take place was held on 4 and 5 April and was devoted to a discussion of the final part of the study on the use of oxygen in the iron and steel industry, dealing with the use of large-diameter oxygen lances at LD, LDAC and KALDO furnaces.

The study was a particularly complex one because of the wide range of uses of oxygen in iron and steel works.

The various language versions of the conclusions of the study will be examined at a meeting to be held in January 1980.

3.5. Working party on Health-Electric Furnaces

Like the working party on Safety-Oxygen, this working party was only able to meet once in 1979, owing to the organization of the second Symposium on Accident Prevention.

At the meeting on 25 and 26 April members discussed the various language versions of the working party's conclusions on noise in electric arc melting shops. This document will be submitted to the SISHC for approval at its meeting in 1980.

Furthermore, the working party completed its deliberations on pollutant emissions from electric arc melting shops, and the various language versions will be scrutinized by the working party at its first meeting in 1980.

3.6. Working party on Health-Rolling Mills

The two meetings held in 1979 (on 1 and 2 February and on 13 and 14 June) enabled the working party to round off its talks on the subject of pollution problems in rolling mills.

However, the working party still has to draw up a chapter on general aspects of pollution and then to revise the various language versions of its conclusions.

It is to be hoped that the whole of this study will be submitted to the SISHC for approval in 1981.

4. EXAMINATION OF THE 10th ANNUAL REPORT OF THE SISHC BY THE EUROPEAN PARLIAMENT AND THE CONSULTATIVE COMMITTEE OF THE ECSC

The 10th Report was not examined by the European Parliament. It would appear, from an oral communication to the SISHC Secretariat, that the Parliament Committee on the Environment, Public Health and Consumer Protection has decided to examine the SISHC's activities every two or three years.

On the other hand, the Consultative Committee of the ECSC, at its plenary session on 18 December 1979, decided to refer the report to its Committee on Labour Problems, meeting on 5 February 1980.

5. SECOND SYMPOSIUM ON ACCIDENT PREVENTION

As part of the work of the Steel Industry Safety and Health Commission, the Commission of the European Communities held the Second Symposium on Accident Prevention in Luxembourg on 29 and 30 November 1979. One of the aims of the symposium was to publicize the studies completed by the SISHC since the first Symposium held in 1970.

A list of the speakers and topics is given below :

- Opening address : Mr DEGIMBE, Director-General for Employment and Social Affairs, Chairman of the Steel Industry Safety and Health Commission.
- Accident prevention policy in the United Kingdom : Mr CATTON, Manager Safety, Health and Welfare, British Steel Corporation.
- Integration of safety measures in France : Mr CAVE¹, Délégué "Sécurité" du C.N.P.F. et Conseiller auprès de la présidence, Union des Industries Métallurgiques et Minières.

- The accident prevention programme (recommendation of the SISHC) :
Mr VAL POL, Chef Veiligheidsdienst, Hoogovens Ijmuiden BV.
- Belgian legislation on the annual safety programme : Mr THISSEN,
Responsable du service Sécurité, hygiène et médecine du travail
de la Centrale chrétienne des Métallurgistes de Belgique.
- IG-METALL's training activities : Mr BETHMAN, Industriegewerkschaft
Metall, Bildungszentrum Spröckhövel.
- FALCK S.p.A.'s training activities : Mr DABALA', Dirigente Centro
Ecologia e Prevenzione, Acciaierie e Ferriere Lombarde Falck.
- Accident at Scunthorpe : Mr HOYLE, Manager, Accident Prevention,
Scunthorpe Division, British Steel Corporation.
- Blast furnace tapping : Mr RAUCHS, Ingénieur, Chef de service Sécurité
du travail, ARBED.
- First aid and rescue : Dr VOLTZ, hauptamtlicher Werkarzt, Thyssen
Ederlsthahlwerke AG, Werk Witten.
- Water seals and drain seal pots in gas pipes : Mr WEENINK, Adjunct
Bedrijfschef Hoogovens, Hoogovens Ijmuiden.
- Oxygen - Recent studies conducted by the SISHC : Mr ARRAGON, Doc-
teur en sciences, Ingénieur.
- Conclusions presented by Mr LEMOINE, Head of the Department for
safety problems in the coal and steel industries, - Directorate-
General for Employment and Social Affairs.

More than 200 people attended the Symposium, and 24 participants took part in the discussions.

The discussions drew attention to various problems, including :

- the desire for mutual information on the causes and prevention of
very serious accidents;

- the wish for a research programme on work safety in the iron and steel industry;
- the distribution of a list of treatment centres throughout the Community for cases of severe burns;
- the desire for a stepping-up of SISHC activities;
- the need for wider distribution of SISHC recommendations.

These matters will be submitted to the SISHC for discussion at its meeting in 1980.

6. STUDIES

6.1. Study on accident statistics

Readers are reminded that the SISHC Secretariat carried out a study in 1974-76 on the significance of industrial accident statistics, in conjunction with 16 Community iron and steel works. This study showed that the frequency rate commonly used - i.e. the number of accidents leading to at least one day's lost time per million hours of work - was essentially influenced by accidents that did not cause permanent disability and entailed only a short period of absence from work. The study also showed that the works with the lowest frequency rate of all 16 works considered poor results for very serious accidents, while the works with the lowest rate of very serious accidents had one of the highest frequency rates.

The conclusions of this study - the most striking of which are mentioned above - were outlined to the SISHC on 25 January 1977 and the task of examining them in depth and producing proposals on the possibility of continuing the investigation was assigned to an ad-hoc working party.

In 1977 the SISHC agreed by written procedure to adopt the conclusions of the ad-hoc Working party and to conduct a three-year pilot survey, beginning in 1978, with works which had volunteered to participate, in an attempt to devise new types of statistical coverage and to gain a better understanding of the "accident situation" in works.

The form to be filled in annually by these works is reproduced in the 10th Report (1978).

Thanks to the support of SISHC members, there was an excellent response to this pilot survey; figures for 1978 were forwarded to the SISHC Secretariat by 54 different works.

It is already clear that several new concepts presented difficulties for certain works. A thorough examination of the information available has shown that 33 of the 54 sets of results were usable, and 15 others could be used in part.

At its meeting in 1980, the SISHC will hear the conclusions drawn from the analysis of the results in the first year of the survey and will then have to decide on the follow-up required.

6.2. Study of very serious accidents

This study deals with the causes of very serious accidents (those causing permanent disability of more than 10% or fatalities) which took place between 1970 and 1976 in a number of steel mills in Lorraine. Its first two stages were entrusted to the Association pour la formation en sidérurgie under the sponsorship of ASSIMILOR (Association de la sidérurgie et des mines de fer lorraines). The first of these stages consisted of drawing up, on the basis of a sample of accidents, the standard questionnaire for all accidents of this type occurring in the participating steel mills during the years concerned. It was carried out in 1976 and 1977.

The second stage, the aim of which was to draw up a report based on the standard questionnaire for each accident which occurred, was carried out between September 1977 and the end of 1978.

In January 1979, the person responsible for the study submitted over 650 accident reports to the Secretariat of the SISHC. However, it was soon found that in each case, a member of questions had not been answered, because the reports had been drawn up "a posteriori", i.e. they referred to accidents which has occurred several years previously.

The estimated cost of computer processing was very high because of the large number of replies required (replies to approximately 330 questions, most of which could be answered by "yes", "no" or "no reply"). The expense was not justifiable, especially as the processing programmes would not have been re-used (it was decided that many of the questions would have to be amended in the future because, despite the precautions taken, they had not been universally understood in the same way).

Individual analysis of each report and statistical processing without the aid of a computer were therefore necessary, and this was carried out by the Secretariat with the assistance of the ASSIMILOR representatives.

This lengthy task was completed in January 1980 and the conclusions of the study will be submitted to the SISHC at its meeting in 1980.

6.3. Study of safety during replacement of blast furnace tuyeres

At its meeting of 26 April 1978, the SISHC recommended that a study be carried out on the methods and precautions required for safe replacement of blast furnace tuyeres. An expert undertook this study in August 1979 and it is hoped that it will be completed at about the same time in 1980.

7. ACCIDENT STATISTICS

As stated in the 10th Report of the SISHC, the structure of the industrial accident statistics for the iron and steel industry compiled annually by the Statistical Office of the European Communities was modified from 1977 onwards.

This decision was taken by the Statistical Office's Working Party on Industrial Accidents in the Iron and Steel Industry, for various **cogent** reasons which are set out in the 10th Report. The modifications affected :

- the scope of annual surveys (which now cover both salaried staff and wage-earners, whereas previously they referred only to wage-earners);
- the definition of a fatal accident;
- the classification of technological branches.

The improvement has been considerable and will contribute to better comparability of statistics in the future and a more safety-oriented analysis of them.

However, the change in structure means that the analysis of accident trends given in the first nine reports of the SISHC cannot be pursued, for lack of an adequate chronological series of annual results. It is also essential that the agreed definitions be applied in all countries. That is not yet the case, for the Statistical Office's publication on "Social Statistics - Industrial accidents - Iron and Steel - 1977-1978" indicates that :

- Belgium has not yet forwarded data, and the results for the Community as a whole therefore refer only to 8 member States, excluding Belgium;
- in the case of the German data, salaried staff (non-manual workers) belonging to iron and steel departments are included under the "Administration" heading;

- the United Kingdom statistics include apprentices;
- for Denmark and the Netherlands the technological department "Finishing and storage departments for rolled products" is included in "Rolling mills, tinning, leadcoating and galvanizing work shops".

In these circumstances, it is difficult to analyse these statistics and the SISHC will refrain from doing so, at least for the moment.

However, for information, a table of the various statistical data is given below, divided into technological departments, for the Community as a whole (excluding Belgium).

It is clear from this table that it is in the "hot" departments (coking plants, blast furnaces and melting shops) that most fatalities occur, followed by the transport department. But accidents with at least one day's lost time are most frequent in the "melting shops" and "finishing and storage of rolled products" departments, followed by the other "hot" departments and the "Rolling mills, tinning, leadcoating and galvanizing departments.

Given the present doubts about statistical comparability, further analysis is impossible, but the SISHC sincerely hopes that the existing discrepancies due to the recent change in the rules for recording and classifying accidents will soon be eliminated.

		- Häufigkeitsgrad - Frequency rate - Taux de fréquence		
		* F $\boxed{+}$	** F $\boxed{\geq 1}$	*** F $\boxed{> 3}$
- Betriebsabteilung - Technological department - Service technologique				
- Hüttenkokereien - Coking plants - Cokeries sidérurgique	1977 1978	0,16 0,19	74 79	61 64
- Hochöfen - Blast furnace - Hauts fourneaux	1977 1978	0,16 0,15	75 77	64 65
- Stahlwerke - Steelworks - Aciéries	1977 1978	0,16 0,11	112 111	89 89
- Walzwerke - Rolling-mills, etc. - Laminoirs, etc.	1977 1978	0,04 0,02	76 76	63 64
- Zurichterei und Stapelung - Finishing and Storage - Parachèvement et emmagasinage	1977 1978	0,08 0,13	112 109	96 94
- Instandhaltung - Maintenance - Entretien	1977 1978	0,07 0,09	57 58	47 48
- Transport	1977 1978	0,12 0,13	66 66	52 53
- Sonstige Hilfsbetriebe - Other auxiliary departments - Autres services auxiliaires	1977 1978	0,05 0,03	36 37	30 31
- Verwaltung - Administration	1977 1978	0 0	8 10	7 8
- Gemeinschaft (ohne Belgien) - Community (without Belgium) - Communauté (sans Belgique)	1977 1978	0,07 0,06	57 57	47 47

* Frequency rate of fatal accidents

** Frequency rate of non-fatal accidents with absence from work of at least one day

*** Frequency rate of non-fatal accidents with absence from work of more than three days

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LIST OF DOCUMENTS OF THE
STEEL INDUSTRY SAFETY AND HEALTH COMMISSION

Those documents in the list marked (*) can be obtained from :
Commission of the European Communities
DG IX - Service diffusion des documents
Bâtiment Jean Monnet
Plateau du Kirchberg
LUXEMBOURG

and those marked (**) can be obtained from :
Commission of the European Communities
DG XIII- Directorate A
Bâtiment Jean Monnet
Plateau du Kirchberg
LUXEMBOURG

PREVENTION

- Memorandum on the prevention of accidents in the Swedish iron and steel industry - 1966
(DE. FR. IT. NL.) out of print
- Report of the information seminar held on 29 and 30 November 1966 - 1967
(DE. FR. IT. NL.) (*)
- Application of the principles of accidents prevention in the United Kingdom - 1968
(DE. FR. IT. NL.) (*)
- Adoption and regular use of individual means of protection - 1971
(DE. EN. FR. IT. NL.) (*)
- Principles of accident prevention - 1973
(DE. EN. FR. IT. NL.) (*)
- The accident prevention policy on the British Steel Corporation - 1973
(DE. FR. IT. NL.) out of print
- Check questionnaire of the accident prevention organisation within the enterprise - 1974
(DE. EN. FR. IT. NL.) (*)
- Accident prevention programme - 1977
(EUR 5922 - DE. EN. FR. IT. NL.) (**)
- Trends in industrial safety at "Cockerill-Liège" 1956 - 1974 - Analysis and conclusions - 1977
(EUR 5927 - DE. EN. FR. IT. NL.) (**)

TRAINING

Principles of training in industrial safety - 1969
(DE. FR. IT. NL.) out of print

Training of industrial safety advisers
(EUR 6091 - DE. EN. FR. IT. NL.) (**)

Integration into an industrial environment
of unskilled production workers. The experience
of the Forges de Basse-Indre (**)
(EUR 6205 - DE. EN. FR. IT. NL.)

OVERHEAD TRAVELLING CRANES

Access to the cabin of an overhead travelling crane
1968 out of print
(DE. FR. IT. NL.)

Selection and training of crane-drivers - 1970 out of print
(DE. FR. IT. NL.)

TAPPING THE BLAST

Blast furnace tapping - 1977 (**)
(EUR 5896 - DE. EN. FR. IT. NL.)

MAINTENANCE AND REPAIR WORK ON GAS LINES AND
APPARATUS

Construction requirements - 1968 (*)
(DE. FR. IT. NL.)

- Personal protection; monitoring and detection of gases
1970 (*)
(DE. FR. IT. NL.)
- Insulating and degassing lines - 1973 (*)
(DE. FR. IT. NL.)
- Water seals and drain seal pots - 1978 (**)
(EUR 6048 - DE. EN. FR. IT. NL.)

OXYGEN

- Oxygen pipe connections - 1969 (**)
(DE. FR. IT. NL.)
- Shut-off and control devices - 1970 out of print
(DE. FR. IT. NL.)
- The design, construction, location and operation
of fittings in oxygen installations - 1971 (*)
(DE. FR. IT. NL.)
- Filters, intermediate storage vessels, measurement
equipment of importance for safety, lubrication,
degreasing of oxygen lines and equipment - 1973 (*)
(DE. FR. IT. NL.)
- Flexible pipes - 1974 (*)
(DE. EN. FR. IT. NL.)
- Precautions to be taken in the preparation of plant
and equipment - 1977 (**)
(EUR 5923 - DE. EN. FR. IT. NL.)
- Oxygen enriched atmospheres - 1978 (**)
(EUR 6047 - DE. EN. FR. IT. NL.)

MISCELLANEOUS

- Symposium on accident prevention - Luxembourg
21, 22 and 23 October 1970 - 1972 (*)
(DE. EN. FR. IT. NL.)
- Information seminar in Dortmund, on 20 and 21
October 1973 (*)
(DE.)
- Comprehensive accident control for preventing
accidents causing injury - 1977 (**)
(EUR 5926 - DE. EN. FR. IT. NL.)
- First aid and rescue - 1978 (**)
(EUR 5928 - DE. EN. FR. IT. NL.)
- Hydrogen in the iron and steel industry -
safety aspects (**)

BIBLIOGRAPHES

- Problems of lifting, the use of explosives
in the blast furnace - 1967 out of print
(DE. FR. IT. NL.)
- ECSC Publications, problems of the iron and
steel industry, anti-collision devices for
overhead travelling cranes, handling cost
of accidents - 1968 out of print
(DE. FR. IT. NL.)
- Noise out of print
(DE. FR. IT.)
- Transport and handling out of print
(DE. FR. IT.)

REPORTS

First report of the Steel Industry Safety and Health Commission - 1969 (DE. FR. IT. NL.)	out of print
Second report of the Steel Industry Safety and Health Commission - 1970	out of print
Third report of the Steel Industry Safety and Health Commission - 1971 (DE. FR. IT. NL.)	out of print
Fourth report of the Steel Industry Safety and Health Commission - 1972 (DE. EN. FR. IT. NL.)	out of print
Fifth report of the Steel Industry Safety and Health Commission - 1973 (DE. EN. FR. IT. NL.)	out of print
Sixth report of the Steel Industry Safety and Health Commission - 1974 (DE. EN. FR. IT. NL.)	out of print
Seventh report of the Steel Industry Safety and Health Commission - 1975 (DE. EN. FR. IT. NL.)	(*)
Eighth report of the Steel Industry Safety and Health Commission - 1976 (DE. EN. FR. IT. NL.)	(*)
Ninth report of the Steel Industry Safety and Health Commission - 1977 (DA. DE. EN. FR. IT. NL.)	(*)
Tenth report of the Steel Industry Safety and Health Commission - 1978 (DA. EN. FR. IT. NL.)	(*)

FORTEGNELSE OVER MEDLEMMERNE AF DET ALMINDELIGE UDVALG
OG DETS ARBEJDSGRUPPER

LISTE DER MITGLIEDER DES ALLGEMEINEN AUSSCHUSSES
UND SEINER ARBEITSGRUPPEN

LIST OF THE MEMBERS OF THE STEEL INDUSTRY SAFETY
AND HEALTH COMMISSION AND ITS WORKING GROUPS

LISTE DES MEMBRES DE LA COMMISSION GENERALE
ET DE SES GROUPES DE TRAVAIL

ELENCO DEI MEMBRI DELLA COMMISSIONE GENERALE
E DEI SUOI GRUPPI DI LAVORO

NAMEN VAN DE LEDEN VAN DE ALGEMENE COMMISSIE
EN VAN HAAR WERKGROEPEN

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1980

COMMISSION GENERALE DE LA SECURITE ET DE LA SALUBRITE DANS LA SIDERURGIE
ALLGEMEINER AUSSCHUSS FUER DIE ARBEITSSICHERHEIT UND DEN GESUNDHEITSSCHUTZ IN DER EISEN- UND STAHLINDUSTRIE
COMMISSIONE GENERALE PER LA SICUREZZA E LA SALUBRITA' NELL'INDUSTRIA SIDERURGICA
ALGEMENE COMMISSIE VOOR DE ARBEITDSVEILICHEID IN DE IJZER-EN STAALINDUSTRIE
STEEL INDUSTRY SAFETY AND HEALTH COMMISSION

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GRUPPO DI LAVORO "ORGANIZZAZIONE DELLA PREVENZIONE"
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GROUPE DE TRAVAIL "SECURITE-FORMATION"
ARBEITSGRUPPE "ARBEITSSICHERHEIT-AUSBILDUNG"
GRUPPO DI LAVORO "SICUREZZA-FORMAZIONE"
WERK GROEP "VEILIGHEID-OPLEIDING"
WORKING GROUP "SAFETY-TRAINING"

DEUTSCHLAND

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GROUPE DE TRAVAIL "SECURITE-CONDUITES A GAZ"
ARBEITSGRUPPE "ARBEITSSICHERHEIT-GASLEITUNGEN"
GRUPPO DI LAVORO "SICUREZZA - CONDOTTE DI GAS"
WERKSGROEP "VEILIGHEID-GASLEIDINGEN"
WORKING GROUP "SAFETY-GAS PIPES"

DEUTSCHLAND

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GROUPE DE TRAVAIL "SECURITE-CONDUITE A OXYGENE"
ARBEITSGRUPPE "ARBEITSSICHERHEIT-SAUERSTOFFLEITUNGEN"
GRUPPO DI LAVORO "SICUREZZA-CONDOTTE DI OSSIGENO"
WERK GROEP "VEILIGHEID-ZUURSTOFFLEIDINGEN"
WORKING GROUP "SAFETY-OXYGEN PIPES"

DEUTSCHLAND

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FRANCE

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CROUPE DE TRAVAIL "SECOURS ET SAUVETAGE"
ARBEITSGRUPPE "ERSTE HILFE UND RETTUNGSWESEN"
GRUPPO DI LAVORO "SOCCORSO E SALVATAGGIO"
WERKGROEP "E.H.B.O. EN REDDINGSWEZEN"
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UNITED KINGDOM

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GROUPE DE TRAVAIL "SALUBRITE-FOURS ELECTRIQUES"
ARBEITSGRUPPE "GESUNDHEITSSCHUTZ-ELEKTROOEFEN"
GRUPPO DI LAVORO "SALUBRITA'-FORNI ELETRICI"
WERK GROEP "GEZONDHEIDSZORG-ELEKTRO-OVENS"
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GRUPPO DI LAVORO "SALUBRITA'-LAMINATOI"
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