



FER
FIRE BRIGADE



FOREWORD



**”When nature shows its power
Keep this three in mind:
Strong arm, brave heart, brotherly love
You did what you had to and this
is the reward”**

(Firemen credo)

Greetings to the readers interested in the recent activities of FER Fire Brigade.

Since our last publication in 2008 responsibilities of FER have been greatly changed and it has justified the edition of a new brochure. The purpose of this publication is to inform you about our diversified activities and the main directions of our growth and development.

In the first period following the set-up of FER Fire Brigade, performance of fire protection tasks in the protected facilities was our exclusive activity. We focused our attention on the characteristics of the protected areas, facilities and technologies. This was the time for replacing our fire-fighting equipment, improving our intervention tactics, and training our personnel as our most important objectives.

As time went by, the previously characteristic quantitative approach has gradually been replaced by a qualitative development philosophy at FER: with regard to our equipment pool we began applying the most advanced technical solutions available; regarding our specialists' education and training preference was dedicated to guarantee efficient response and enhance the safety of our owners and partners.

The most important feature of our current development phase is that we have extended the radius of the protected areas, our activities, i.e. the framework of the tasks traditionally delegated onto the so-called industrial fire brigades. We have joined into the interventions for external sites; e.g. we give support to the professional fire brigades in the surrounding settlements;

we meet the owner's request and take part in pipeline emergency responses, we keep the liquefied gas emergency transloading system in readiness, and we take part also in a several other activities that require intervention or supply of information.

Parallel to the above mentioned trends FER has left the geographical frameworks of its operation. Today, beyond the one in Százhalombatta, we operate further five fire brigades for the protection of MOL industrial facilities in Komárom, Algyő, Csepel, Szajol and Tiszaújváros sites, and we also take part in the operation of the standby unit in Zala Refinery.

Though FER provides to its partners an ever increasing range of additional services, we still consider the full and highest possible level performance of our core duties as our key responsibility.

Me and my colleagues are proud of our predecessors and traditions. With the improvement of our professional personnel and resources we wish to meet both present and future challenges. At FER continuous efforts are made to improve efficiency, identify the partners' needs, enhance safety, and constantly develop our technical equipment, tactical solutions and introduce new extinguishing materials as well.

Wherever the world goes, our main task will remain the same; to protect and support individuals and communities.

*László Pimper
CEO – Fire Chief*



CORE ACTIVITY IN THE FOCUS

ORGANIZATION AND MANAGEMENT

Total headcount at FER Fire Brigade and Service Ltd. exceeds 200 people. Full-time firefighters perform the standby duty in 24/48-hour shifts; while others who are responsible for certain managerial or supporting professional areas coordinate the fire brigades' operations in day-time shifts. Every standby team has a team leader; who is also the Incident Commander in case of interventions.

The Chief Executive Officer is the no. 1 manager of the Company, who is the Fire-Chief of FER Fire Brigade Ltd. as well. Százhalombatta, Tiszaújváros, Algyő, Komárom, Csepel and Szajol branches and also the fire brigade in Zala Refinery are managed by the local industrial fire-chiefs.

TWO MAIN GROUPS OF OUR CORE ACTIVITY: FIRE-FIGHTING AND TECHNICAL RESCUE

SPECIAL FIRE-FIGHTING AREAS:

- » Fighting process fires
- » Fighting large pool fires with foam
- » Tank fire fighting
- » High capacity powder fire-fighting
- » Combined fire-fighting
- » Fighting fires of hazardous materials

TECHNICAL RESCUE:

- » Traditional technical rescue operations; such as, protection of human life and health, assets and properties in case of
 - » natural disasters
 - » irregular technological processes
 - » accidents or release of hazardous materials
- » Rescue people from height, depth and confined spaces
- » Operations where hazardous materials are involved
- » Detection, localization and dispersion of explosive and poisonous gas/vapour clouds
- » Sealing and closing leakages on pipelines and appliances
- » Recovery of damages caused to living water
- » Cooperation in the emergency response actions to pipeline incidents
- » Cooperation in urgent transloading of liquefied gases in case of emergency





SUPPLEMENTARY ACTIVITIES, FIRE PROTECTION SERVICES

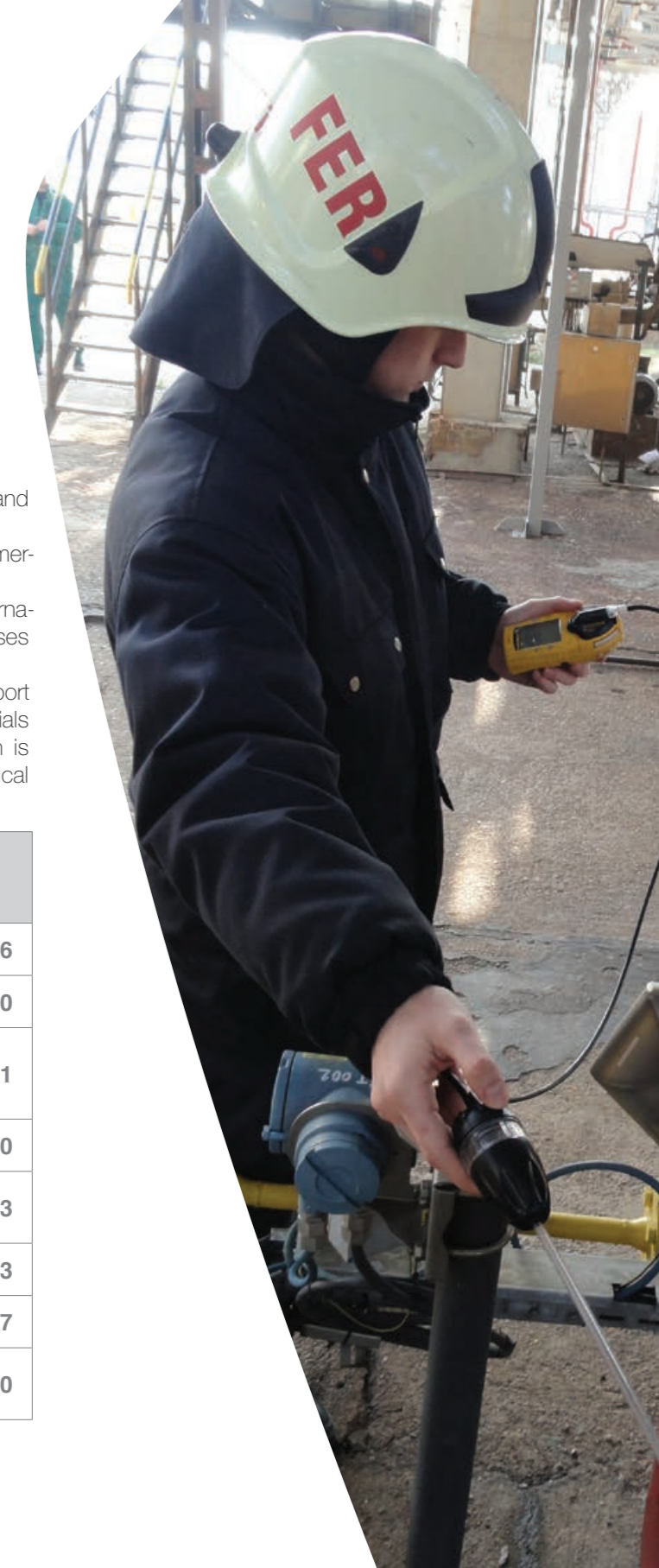
Beyond our core activity we provide also various supplementary services to our owner and partners; the most important are as it follows:

- Gas-tester activity: participation in issuing hot work permits and permits to enter confined spaces; gas detection; ensuring gas-testers' supervision at scheduled overhauls
- Inspection, maintenance and repair of professional equipment: portable fire extinguishers; fire-water sources (surface, sub-surface and wall hydrants) and their accessories; built-in fire protection equipment (semi-fixed foam pourers, foam monitors, dry risers, shell coolers and deluge systems); breathing apparatuses; chemical and heat-resistant clothing; personal gas detectors and concentration meters; first-aid points in the process units
- Providing safety equipment for works
- Works supporting operation continuity
- Environmental protection works, handling hazardous materials
- Sampling raw materials and products, transport of the samples
- Pre-start safety training and examination of the employees; fire protection and first-aid trainings
- Organizing and running special fire safety exams
- Participation in various construction processes (cross-checking with the designing engineer, design review, technical takeover, start-up)
- Assistance in the preparation and update of internal safety plans and regulations

- Continuous supervision of fire alarm and gas detection centres
- Operation of MOL Hungary Plc. Emergency Dispatcher Centre
- Organizing and running national/international JOIFF accredited training courses for industrial fire-fighters
- Country-wide assistance at transport accidents involving hazardous materials (under the umbrella of VERIK, which is the Hungarian abbreviation for "Chemical Industry Alert Centres")

Supplementary activities in numbers - 2014

Inspection and maintenance of portable extinguishers (pcs)	45 196
Inspection of fire water sources (pcs)	9 540
Testing of breathing apparatuses, cleaning and inspection of face masks, inspection of chemical protective clothing (number of tests/inspections)	2 781
Sampling, transport of the samples (number of sampling)	4 010
Participation in issuing hot work permits and permits to enter confined spaces, gas detection (pcs)	26 423
Testing of personal gas detectors (number of tests)	10 333
Theoretical and practical training of external fire-fighters (number of trainings)	197
Number of employees participating in prior-to-work labour safety training and examination (persons)	13 220





INTRODUCTION OF THE BRANCHES

01 | FER FIRE BRIGADE SZÁZHALOMBATTA

FER Fire Brigade Százhalombatta branch started its operation on the 1st of January 1995 for providing fire protection for MOL Plc. Duna Refinery and Dunamenti Power Plant Plc.

The headcount of the standby duty is 18 full-time industrial fire-fighters.

The following trucks are on standby for performing their duties as an industrial fire brigade:

- 2 pcs rapid intervention combined vehicles
- 2 pcs high capacity foam tenders
- 1 pc technical-chemical rescue truck
- 1 pc hydraulic platform truck
- 4 pcs container carrier trucks with hook lifter
- 13 pcs multiple-function roll-off containers
- 1 pc emergency ambulance car

The rapid intervention combined vehicles have a specific feature that the response / rescue operation can immediately start with water, powder or foam upon their arrival at the scene of a fire. One of them has an extinguishing boom equipped with a 15-meter operation height with a HydroChem monitor mounted on the top. The monitor can be deployed with any selected extinguishing materials or with a combined application thereof.

The high capacity foam tenders can ensure continuous operation of the rapid intervention vehicles as well as feeding the built-in semi-fixed systems with solution; however, they are also capable of solo intervention.

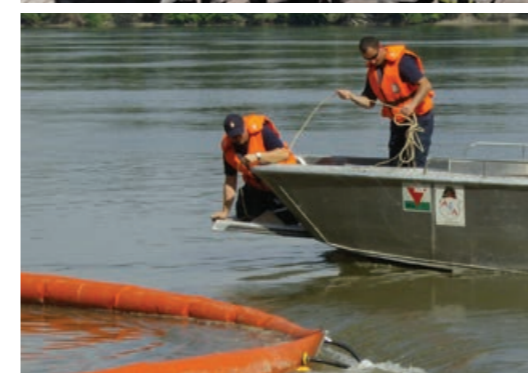
One of the container carrier trucks is designed for off-road operation, allowing the transport of all necessary tools and equipment to the scene in case of pipeline incidents.

Among the fire-fighting roll-off containers the Tank Fire Fighting Units are particularly important. These units have 20.000 l/min solution capacity each, and they include both the full technical background and the extinguishing materials necessary for high capacity foam fire-fighting; only the fire water supply has to be ensured on the scene of interventions.

To provide continuously the sufficient amount of fire water required for high capacity fire-fighting, a 40.000 l/min capacity mobile diesel-fuelled fire water pump and a hose layer container are available. This latter unit enables to lay out and retrieve a 4.500-metre long 150-mm diameter hose line.

The containers also include units packed with equipment for pumping and transporting hazardous materials, for eliminating the harmful effects of pipeline incidents, and for urgent transloading of liquefied gases in case of emergency.

The fire brigade also has an emergency ambulance vehicle with a paramedic properly qualified for fire-fighter operations as well. In every alarm and turnout event an ambulance doctor always rushes to the scene travelling by the vehicle.



1995 January 1 At 6 a.m. FER Fire Brigade starts its fire-fighting and technical rescue operation for the protection of Duna Refinery and Dunamenti Power Plant.

Beyond the scope of local tasks, FER Fire Brigade Százhalombatta branch is also performing the following activities:

FER Fire Brigade Ltd. Central Dispatcher, and MOL Plc. Emergency Dispatcher Centre (EDC) tasks

EDC = MOL Plc. Emergency Dispatcher Centre. FER Százhalombatta dispatcher centre works as emergency information "focus point".

Tasks of VERIK National Centre

VERIK = since 1996 FER has been operating the Hungarian National Centre of the VERIK scheme, which is part of a European organization (ICE). Its main objective is to provide assistance at transport accidents involving hazardous materials.

JOIFF accredited professional training courses and drills

JOIFF = is an international organization dealing with Fire Hazard Management (with nearly 400 member organisations). It works to disclose the knowledge, skills and understanding of emergency response personnel by sharing valuable information on the best practices of various professional areas among its member organisations.



INTRODUCTION OF THE BRANCHES

02 | FER FIRE BRIGADE TISZAÚJVÁROS

TMM Fire Fighting and Rescue Ltd., the full-time industrial fire brigade in Tiszaújváros started its operation on the 1st of July, 1995. Its primary task was fire protection of TVK Plc., MOL Plc., AES-Tisza Power Plant Ltd., Columbian Tiszai Carbon Ltd., Akzo Nobel Coatings Plc. and TiszaTextil Ltd. It had operated as an independent company until the 31st of October, 2013, when it merged into FER Fire Brigade Ltd.

The number of the staff of the standby duty is 16 full-time fire fighters.

For performing their fire-fighting, rescue and other response tasks the Fire Brigade has the following trucks in readiness:

- 2 pcs rapid intervention combined vehicles
- 2 pcs high capacity foam tenders
- 1 pc hydraulic platform
- 4 pcs container carrier trucks with hook lifter
- 12 pcs different functions roll-off containers.

The main tools of prompt intervention include the rapid intervention combined vehicles that can be deployed immediately after arrival also with water, foam and/or dry powder.

We also have foam tenders and foam fire-fighting and foam carrier roll-off containers in readiness for killing fires of large surface liquid pools as well as a tank fire fighting unit and several foam-water monitors with different solution capacities. The maximum capacity of the tank fire fighting unit is 18.000 l/min, and except for water it contains both the technical background and the extinguishing agent needed for fire-fighting.

Among the foam-water monitors the trailer mounted ALCO is a unique equipment. During traditional foam-water operation it can apply 30.000 litres per minute, while during HydroChem operation it has the

capacity of 12.000 l/min solution and 30 kg/sec dry powder.

For fire-fighting at and rescue from height we have a 46-metre Bronto hydraulic platform appliance in readiness.

Among the available roll-off containers we have foam and dry powder fire-fighting and technical rescue units as well as other units equipped with HazMat pumps and bulks for their transportation or with equipment necessary for pipeline interventions.



1995 April 1 TMM Fire-fighting and Rescue Ltd. is set up with 5 professional leaders for the fire protection of Tiszaújváros sites of TVK Plc., MOL Plc., AES-Tisza Power Plant Ltd., Columbian Tisza Carbon Ltd., Akzo Nobel Coatings Plc. and TiszaTextil Ltd.

1995 July 1 TMM Ltd. starts the operation of the stand-by duty.

2013 November 1 TMM merges into FER Fire Brigade.





2009 July 1 FER Fire Brigade Algyő starts its operation for the fire protection of the establishments on Algyő site of MOL Plc. – Gas Purifier, Atmospheric PB Storage Facility, Gas Plant, E-10 Tank Yard, Mains Gathering Station, Logistics Base Terminal and its Railway Unit.

2009 January 1 FER Fire Brigade Komárom is established for the fire protection of Komárom and Almásfüzitő sites of MOL Logistics, Rossi Biofuel Plc. and MOL-LUB Ltd.

INTRODUCTION OF THE BRANCHES

04 | FER FIRE BRIGADE ALGYŐ

With 5 full-time and 3 part-time industrial fire-fighters on duty FER Fire Brigade Algyő started its operation in 2009. The core task of the branch is to ensure fire protection and rescue operations for the facilities built on Algyő gas and oil field. As supplementary activities it carries out several other services and they also play an active role in the developments related to fire protection of the establishments, thus contributing to the safe operation of the area.

The current number of full-time fire-fighters is 21; they provide 24-hour stand-by duty. They work in close cooperation with the 27 MOL part-time industrial fire-fighters.

In addition to their excellent professional qualification the intervention capacity of the fire brigade are supported also by two tailor-made, rapid intervention fire-fighting vehicles. The design of these vehicles has been adapted to the local needs; they were built to be deployed at incidents in the oil and gas industries. Their special superstructures can

ensure fire-fighting with high capacity water, foam or powder; with their mounted monitors even without any preparation time. This equipment is sufficient for successfully eliminating a wide variety of events.

In accordance with the agreement with the Csongrád County Disaster Management Directorate, the Fire Brigade can give support to the elimination of different emergencies not only within the premises of the protected facilities but also to other parties, and also in the downtown and outskirts of Algyő city.

INTRODUCTION OF THE BRANCHES

03 | FER FIRE BRIGADE KOMÁROM

FER Fire Brigade Komárom branch started its operation in 2009. It was established for the fire protection of MOL Logistics Komárom Terminal, Rossi Biofuel Plc. and MOL-LUB Ltd. sites in Komárom and Almásfüzitő.

Two (2) full-time and ten (10) part-time industrial fire-fighters provide the stand-by duty around-the-clock. Nearly 90 part-time industrial fire-fighters perform their tasks ad hoc, in addition to their regular work.

As a consequence of their small number, more tasks and responsibilities are put

on the full-time fire-fighters; beyond their everyday duties they help the job of the operators on site by providing a number of fire protection services. They participate in the permit-to-work issuing process for hot works and confined space entry; they take part in the safety training of employees, and they regularly carry out

the inspection and revision of portable and built-in fire protection equipment.

The branch has a combined rapid intervention vehicle and a foam fire-fighting trailer in readiness for performing its fire-fighting, technical rescue and life-saving tasks.





2012 June - July FER provides continuous operations of the Incident Commanders' stand-by duty in MOL Csepel and Szajol Terminals and in Zala Refinery.

2014 January 1 FER takes over the operation of the part-time industrial fire brigades from MOL at Csepel and Szajol Terminals.

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INTRODUCTION OF THE BRANCHES

05 | FER FIRE BRIGADE IN CSEPEL, SZAJOL AND ZALA REFINERY

Since mid-2012 the activity of FER has been extended to MOL Csepel and Szajol Terminals and Zala Refinery.

In Zala Refinery FER's team leaders provide the Incident Commanders' stand-by duty, while in Csepel and Szajol Terminals FER ensures the operation of the part-time industrial fire brigades as well.

The continuous readiness is provided in all sites by one FER full-time fire-fighter together with three MOL part-time industrial fire-fighters.

While providing the stand-by duty, FER fire-fighters carry out also several different supplementary services in line with the local characteristics of the facilities.



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