



International Oil and Petrochemical Forum
Developing best industry practice

**An Invitation for
Oil and Petrochemical Safety Professionals in Storage Tank Operations
to attend an Open LASTFIRE Meeting**

20th April 2011

Location: Normandy Hotel, Deauville France– Hosted by TOTAL

What is LASTFIRE?

LASTFIRE stands for “Large Atmospheric Storage Tank Fires”. The LASTFIRE Group is a consortium of international oil companies reviewing the risks associated with fires in storage tanks and developing the best industry practice to mitigate the risks.

Since its original inception in 1993 the LASTFIRE Group has become the World’s recognised international industry forum on all aspects of Storage Tank Fire Hazard Management. It is now quoted regularly by legislators as a recognised source of reliable data and guidance.

In addition, through research work, it has increased industry knowledge on incident statistics, boilovers, foam application, detection systems, floating roof structures and tank operation. One of the most valuable aspects of the Group is the interaction with fellow professionals that occurs at the 6 monthly meetings and through regular correspondence.

The Group objective is to extend its membership and continue its role as the recognised international oil and petrochemical industry forum on best practices of Fire Hazard Management of Storage Tanks.



Boilover testing is just one aspect of the LASTFIRE research and development programme

Open LASTFIRE Meeting 20th April 2011: An invitation

Normally LASTFIRE meetings are for members only. The format is usually a closed session where the latest research is discussed, followed by presentations by industry and association representatives. These might include suppliers, fire responders, system designers or regulators. The intention is to disseminate opinions and expertise, then discuss it and all learn from each other. This has proven to be a productive approach and now the LASTFIRE group want to share their experiences and open part of the meeting to a wider audience. This open meeting will be held on 20th April 2011 at Normandy Hotel, 38 rue Jean Mermoz, BP44100, 14804 Deauville Cedex, FRANCE and is hosted by LASTFIRE members Total.

Attendance is FREE – delegates are responsible for their own travel and accommodation.



LASTFIRE
Project Coordinators

LASTFIRE Open Meeting – 20th April 2011

Places are limited – email admin@resprotint.co.uk to reserve your place



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An invitation to the next OPEN LASTFIRE meeting in France: 20th April 2011

Why attend?

The LASTFIRE open meeting is a unique opportunity to network with industry professionals and share the experiences and current findings of the LASTFIRE Group – the recognised International Industry Forum on all aspects of Storage Tank Fire Hazard Management.



Who can attend?

The LASTFIRE group membership is open to any company worldwide that stores crude oil, petroleum products, liquefied gases or petrochemicals therefore all fire and safety professionals in this field are welcome to attend. LASTFIRE members TOTAL will be hosting the meeting at the Normandy Hotel, Deauville France on 20th April.

Reserve Your Place

Attendance is free but places are limited. Delegates are responsible for their own travel and accommodation.

To reserve your place, FAX BACK or Email your intention to attend to the LASTFIRE coordinators using the attached "Expression of Interest" form.

email: admin@resprotint.co.uk fax: ++ 44 (0)1296 395669.



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How does LASTFIRE Work

The approach of the LASTFIRE Group is holistic, including incident prevention as well as incident mitigation and response. It addresses any issue including tank construction and maintenance that may have a bearing on fire risk reduction.

Each member company has three designated LASTFIRE contacts, one being a Steering Panel member. The Group communicates regularly and meets twice a year to discuss in-house incidents, research progress, Steering Panel decisions etc. followed by sessions where external speakers are invited to give technical presentations on any relevant subject of interest.

The Steering Panel meet prior to each Group Meeting and at other times as thought necessary to prioritise research projects, set budgets and make decisions on publication of results and guidance documents.

Standard deliverables available to LASTFIRE members:

Incident Database

The LASTFIRE Statistical Database is developed from information provided by the Members anonymously and compiled by the LASTFIRE coordinators Resource Protection International. It provides the most rigorously collected information on tank fire incidents and relates it to the relevant tank population to derive probability. Originally based on open top floating roof tanks, it has been extended to include fixed roof and internal floating roof tanks. The statistics provide an essential input into Risk Analyses and Cost Benefit Analyses both for regulatory requirements and for company risk assessments to determine cost-effective and justified response policies.

Incident Review

Annual listing/review of incidents from inside and outside Group and, where possible, details of the causes/failures leading to the incident with lessons learned and any relevant Group recommendations on preventing future similar events.

Risk Reduction Options Document (RRO)

A comprehensive review of potential risk reduction measures that can be implemented on site. It is updated annually based on research work, incident experience and feedback from Members therefore reflects true operational experience rather than theoretical capability.

LASTFIRE Standards/Specifications

A test protocol for the evaluation of a fire fighting foam and its performance related to the specific requirements of a storage tank fire.

Industry Research reports and Best Practice Guidance Documents





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LASTFIRE MEETING PROGRAMME

(Draft Programme – subject to change)

Venue: Normandy Hotel,
38 rue Jean Mermoz, BP44100
14804 Deauville Cedex, FRANCE

08:30 MEETING START

Presentation topics will include:

Welcome and Introductions

Total

Ethanol Tank Fire Fighting Research Needs

Henry Persson, SP Technical Research Institute, Sweden

Recent Trends in Gasoline Storage Installations

TOTAL, France

Incident Response Enhanced via real-time Plume Intelligence

Eric Quatreuille, Safer Systems, Germany and Bob Gerow, Safer Systems Canada

Environics Industrial Solutions to refineries

- EnviScreen solution- unique solution for leak detection systems.
- GC-IMS applications for refineries:
 - HF
 - NH₃ in C₂H₄
 - 2-Fluorides in Butane

Kurt Webber, Environics, USA, Maryland.

12:00 LUNCH – Normandy Hotel

Hytrans Fire System

Johan Kramer, Hytrans Systems b.v. Netherlands

Environmental Damage and Insurance

Siebe Prikker, Aon Risk Services, Netherlands

Foam Testing: “Witness Testing Fire Fighting Foams for Storage Tank Applications to the LASTFIRE Protocol”

Paul Watkins, Resource Protection International (RPI), UK

Atex 3D conception software demonstration

Atex System Reims, France

16:30 MEETING CLOSE



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- CURRENT LASTFIRE MEMBERS**
- ADCO
 - AFS
 - BP
 - IDEMITSU
 - MERO
 - MOL
 - NESTE OIL
 - PETRONAS
 - QATAR PETROLEUM
 - SAUDI ARAMCO
 - SHELL
 - SINOPEC
 - TAKREER
 - TOTAL
 - ZADCO

LASTFIRE Research Work

Boilover Studies

The group has carried out extensive Boilover Studies with the aim of providing responders with better information on time to boilover, boilover consequences and fire fighting foam application strategies.

Lightning Study

The LASTFIRE Group was requested to comment on the API/EI lightning study related to storage tanks.

Ongoing and Future Research projects

LASTFIRE research - ongoing and planned - includes:

- Vapour Suppression properties of different quality foams
- Effect of Crude Oil Preburn on Foam Application Rates
- Effectiveness of Large Monitor Packages
- Internal Floating roof tank fire extinguishing systems
- Vapour measurements under geodesic domes



EXPRESSION OF INTEREST

Attendance is free – but places are limited. *Please note that this meeting is only open to professionals from companies that store crude oil, petroleum products, liquefied gases or petrochemicals.*

To reserve your place at the Open LASTFIRE Meeting on 20th April 2011 FAX BACK this form to the LASTFIRE Project Coordinator on FAX +44 (0)1296 395669 or email to admin@resprotint.co.uk

We will then send joining details, including information on booking hotel accommodation.

Company Name: _____

Nature of Business: _____

Company Address (City, Country): _____ Telephone: _____

Delegates planning to attend (please include full name in CAPITAL LETTERS):

Delegate 1 Name: _____ Email _____

Delegate 2 Name: _____ Email _____

Delegate 3 Name: _____ Email _____



For more information on joining LASTFIRE

Contact the LASTFIRE Project Coordinator, Resource Protection International, Walker House, George Street, Aylesbury, Bucks. HP20 2HU. United Kingdom

Telephone: +44 (0)1296 399311 Fax: +44 (0)1296 395669 Email: admin@resprotint.co.uk

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