

Fire Systems Integrity Assurance (FSIA) in the Oil, Gas and Petrochemical Sectors

Training Workshop

10th – 13th November 2009

The Venue:

**Holiday Inn Hotel, Aston Clinton Road,
Aylesbury, U.K.**

Organised by Resource Protection International
Walker House
George Street
Aylesbury
Bucks HP20 2JH
United Kingdom



email ramsd@resprotint.co.uk
website www.resprotint.co.uk

Resource Protection International

Delegates will learn about all aspects of the FSIA process and receive guidance on performance standards, testing and maintenance of all fire system types.

Resource Protection International is an independent consultancy specialising in Fire Hazard Management (FHM) of oil and petrochemical facilities. The company has a management team of full time consultants comprising individuals with complementary expertise. The team's skills and knowledge include fire science, fire systems engineering, process engineering, fire protection/safety systems auditing, hazard assessment, major incident fire fighting, system commissioning and training, all based on extensive international "hands on" experience including Management of Fire Brigades at Oil Production and Storage facilities on behalf of major international oil companies.

Resource Protection International holds a unique position in the industry and has carried out several contracts for industry bodies as well as individual oil companies:-

- Project Coordinator for the LASTFIRE study - an industry initiative by 16 oil companies to review the risks associated with fires in large floating roof storage tanks. This project is currently being updated and extended to other tank types.
- Development of The International Oil and Gas Producers' Association Guidance document on Fire Systems Integrity Assurance (FSIA)
- Revision of Energy Institute (Formerly Institute of Petroleum) Model Code of Safe Practice on Fire Protection of Refineries and Bulk Storage Terminals.*
- Development of The Society of Gas Tanker & Terminal Operators (SIGTTO) guidance on Fire Hazard Management of Gas Terminals.
- Storage Tank Terminal Fire Hazard Management audit protocol and technical guidance for Rotterdam Europoort Unified Fire Brigade.

Fire Systems Integrity Assurance Workshop

Delegates will learn how to develop and monitor performance based standards for fire systems in line with latest international good practices

This workshop is designed specifically to assist facility operators and fire responders ensure that Fire Systems they use are fit for purpose and operate in accordance with their design intent.

Background

Experience has shown that fire detection and protection systems are not always designed in sufficient detail to ensure that they meet the performance criteria necessary to reliably achieve their intended role. In some cases this role is not even clearly defined. The problem is compounded because often the system designer or specifier has not had the operational experience or feedback necessary to ensure system practicability. Also, as fire systems do not provide a direct contribution to production and revenue, they are sometimes not given the specification, inspection or maintenance priorities that they deserve.

This situation can result in fire systems not providing the performance required when called upon to do so. Obviously this is unacceptable, especially when safety critical systems such as offshore helideck foam systems are involved.

Recognising this situation the Oil and Gas Producers' Association commissioned Resource Protection International to develop a Guidance Note on the overall process of Fire Systems Integrity Assurance (FSIA).

Resource Protection International has assembled a team of talent having worldwide experience and knowledge of fire systems based on "hands on" experience of specifying, testing and using such systems. This unique workshop will provide comprehensive, in-depth information on all aspects of the FSIA concept and procedure. The programme has been developed from the worldwide experience of RPI and is based on the guidance provided in the Oil and Gas Producers' Association publication. As well as describing the FSIA process, the workshop provides experienced based guidance on the specification, testing and maintenance of all types of fire detection and protection systems.

Fire Systems Integrity Assurance

Fire Systems Integrity Assurance is the process of identifying fire system performance standards decided upon in design and checking they are appropriate to foreseeable hazardous events. FSIA then deals with ensuring they are not compromised in the later phases of the life of a facility, particularly installation, operations and maintenance, and confirming that they meet the requirements on an ongoing basis.



Workshop Director

Dr. Niall Ramsden

Niall Ramsden joined the loss prevention industry in 1976 having graduated in physics and mechanical engineering. He has been involved in all aspects of fire hazard management for oil and petrochemical facilities and has worldwide experience in active and passive fire protection and detection systems to international standards - including conceptual studies, detailed design and system commissioning. He has carried out training and consultancy projects for major oil/petrochemical companies around the world including fire/safety audits, process safety studies, scenario based emergency resource evaluations and in-house seminars. He is a Chartered Engineer, a Chartered Physicist and a member of the National Fire Protection Association (USA) and European CEN Foam Systems Committees.

Lecturers

Other workshop lecturers will be selected from:

Paul Watkins

Paul Watkins is a graduate of Fire Science from the University of Leeds in the United Kingdom. With Resource Protection International he has delivered seminars on a wide range of fire engineering topics at venues including the Fire Service College in the U.K. and the Fire Protection Association. He is responsible for carrying out fire modelling and Quantitative Risk Assessments (QRA) and as part of an industry project involving 16 oil companies, ('LASTFIRE') developed a Risk Workbook to assist in the development of Fire Hazard management policies for large floating roof tanks. He also developed a Fire Hazard management audit tool for storage tanks on behalf of a joint industry/public funded Fire Brigade operating at one of Europe's most critical oil/petrochemical areas.

Luke Haines

With Resource Protection International Luke Haines is heavily involved in implementing site specific FSIA procedures for passive fire protection and detection equipment. He has carried out on-site systems training and system assurance testing including full systems discharge and flow verification measurement at several international hydrocarbon processing and storage facilities. He is also involved in the design, testing and commissioning of passive fire protection and detection systems to International Standards.

Workshop Information

All seminars and courses directed by Resource Protection International aim to give delegates a thorough understanding of the subjects discussed. If required, tailor-made additional specialist training can be provided at a client's own facility.

The Workshop will be held at Holiday Inn, Aston Clinton Road, Aylesbury, Bucks HP22 5AA, U.K. (www.holidayinn.co.uk). Delegates wishing to book accommodation should contact the hotel direct and quote "Resource Protection" to qualify for a discounted Bed & Breakfast rate.

Tel: +44 (0)1296 734026 Fax: +44 (0)1296 392211 email: reservations-aylesbury@ihg.com

Delegates will be responsible for booking and paying for their own hotel and travel costs (except lunches and refreshments provided during workshop sessions).

Fees

The workshop fee is £1930 (Pounds Sterling) plus VAT, payable prior to the event.

A 10% discount applies to LASTFIRE members and IFE members (maximum 10% discount per delegate).

The Workshop fees include instruction, lecture notes, lunches and refreshments during breaks in classroom tuition.

All classroom exercises and discussions will be supported and complemented by case histories and video and slide presentations. Course notes will be provided and will form a comprehensive reference source of great value to all delegates on return to their job location.

Who Should Attend the Workshop?

- Fire Responders and Fire Engineers
- Fire System Maintenance Engineers
- Loss Prevention Engineers
- Health, Safety and Environmental Protection Professionals
- Legislative Authorities responsible for Health, Safety and Environmental issues



Fire System Integrity Assurance Workshop Programme

10th – 13th November 2009

All lectures will be supported by video and slide presentations and design examples

Workshop Hours

Tuesday: Registration at 9:00 am for 9:30 am start (5.00pm finish)

Wednesday / Thursday : 9.00 am – 5.00 pm

Friday: 9.00 am – lunchtime (lunch is included)

Fire System Integrity Assurance Programme

Delegates will learn about all aspects of the FSIA process and receive guidance on performance standards, testing and maintenance of all fire system types.

- Registration and Introduction
- FSIA process steps and background to OGP Guidance
- Fire hazard identification
- Fire types and effects

- **Fire and Gas Detection Systems**
- **Gaseous Extinguishing Agent Systems**
- **Dry Chemical Systems**

- Types and applications overview
- Critical Performance Criteria
- Testing requirements
 - Standards
 - Procedures
 - Schedules
- Typical Site Issues

- **Foam Systems**

- Types and applications overview
- Critical Performance Criteria
- Testing requirements
 - Standards
 - Procedures
 - Schedules
- Typical Site Issues

- **Water Spray Systems**

- **Sprinkler Systems**

- **Water Mist Systems**

- Types and applications overview
- Critical Performance Criteria
- Testing requirements
 - Standards
 - Procedures
 - Schedules
- Typical Site Issues

- **Fire Pump Systems**

- Types and applications overview
- Critical Performance Criteria
- Testing requirements
 - Standards
 - Procedures
 - Schedules
- Typical Site Issues

- **Firewater Systems**

- Developing Scenario based demands
- System discharge tests
- Testing Requirements
- Assessing test results
- Training and Exercising
- Developing Site Specific Procedures and Record Keeping



The Oil and Gas Producers' Association Guidance Note on FSIA is available on website www.ogp.org.uk

The process described in it will be expanded and explained during the workshop

Delegates will learn how to develop and monitor performance based standards for fire systems in line with latest international good practices

A booking form is attached to this programme.

Fire Systems Integrity Assurance Workshop UK - 10th – 13th November 2009

Booking Form

Please regard this Booking Form as an Invoice. A receipt will be issued only on request.

N.B. Under UK Customs and Excise regulations delegates from all countries are required to pay V.A.T at 15%.

Please copy this form for additional delegates.

Bookings should be received as early as possible.

Resource Protection International reserve the right to cancel the event in which case a full refund of any fees received will be given.

FULL NAME _____

TITLE _____

JOB FUNCTION _____

ORGANISATION _____

ADDRESS _____

COUNTRY _____

POSTCODE _____

TEL _____

FAX _____

EMAIL _____

Co. VAT Number _____

Fire Systems Integrity Assurance in the Oil, Gas and Petrochemical Sectors Training Workshop - UK

10th – 13th November 2009 @ £1,930+ VAT per delegate

(total cost per delegate including VAT - £2,219.50)

10% discount applies to LASTFIRE members and IFE members
(maximum 10% discount per delegate). IFE No: _____

I ENCLOSE A CHEQUE FOR £ _____

Made payable to Resource Protection International

(Payments can be made by bank transfer - please ask for details.)

SIGNED _____

Return forms, along with appropriate fees, to: Resource Protection International
Walker House, George Street, Aylesbury, Buckinghamshire HP20 2JH,
United Kingdom

UK Co Reg No: 2753740.

If you have problems
printing this form,
or need further details...

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IMPORTANT

Cancellations, if noted in writing by 30th September 2009, will be subjected to a 10% administration charge. There will be no refunds for cancellations received after 30th September 2009.

Substitutions can be made at any time, without charge

