

Publications Catalogue 2022

Health

Environment

Human and
organisational factors

Process safety

Hazardous area
classification

Electrical safety

Asset integrity

Offshore safety

Petroleum product
storage and distribution

Aviation fuel handling

Biofuels

Fuel quality and control

Hydrocarbon
management

Power generation

Offshore wind



Welcome to the Energy Institute (EI) Publications catalogue

Steered by expert panels made up of senior industry figures, our good practice work reflects the world's most pressing energy issues and underpins changing global operations. We are passionate about supporting the safe and responsible generation of energy now and during the transition to a low carbon economy.

EI good practice resources take the form of technical guidance, research reports, equipment and fuel specifications, test methods and videos. Our technical good practice is used and referenced in over 100 countries, with an EI publication being downloaded every half hour, on average. In 2021 we produced over 66 publications and a range of animations. Our publications are relevant to energy professionals across many sectors, from upstream oil and gas to downstream operations, thermal power generation and offshore renewables. They cover a broad range of themes including petroleum product storage and distribution, health, environment, testing methodology, measurement, human factors, process safety and asset integrity.

Our titles are steered and produced by an extensive array of international energy professionals. Their collective involvement in EI committees and working groups continues to support the development of good practice and the EI as a whole. For more details on the value this good practice has for industry, see page 2.

Access our publications at publishing.energyinst.org. If you have any queries, including bulk discounts and multi-user licences, email pubs@energyinst.org. Please note, Technical Partner company employees can download our technical guidance for free, by registering on the site.

Technical work programme	2
New for 2021	3
EI technical publications	6
Asset integrity	6
Aviation	9
Electrical safety	11
Environment	12
Fuel quality and control	15
Hazardous area classification	18
Health	19
Human and organisational factors	21
Hydrocarbon management	24
Offshore safety	27
Petroleum product storage and distribution	29
Power generation	32
Process safety	33
Renewables	37

EI Technical work programme

The EI's technical work programme provides industry with cost-effective, value-adding knowledge on key issues affecting those operating in the energy industry, in the UK and internationally.

This work is defined by the EI's Scientific and Technical Committee (STAC) and supported by the EI's Technical Partners. STAC consists of senior energy industry representatives who collectively offer guidance and advice to EI technical committees to develop an annual schedule of work. This comprises original independent research and investigations; responses to legislation and regulation; workshops; and seminars.

Topics covered by the work programme include: safety, environment, health, distribution, fuel quality, hydrocarbon management, biofuels, carbon capture and storage, hydrogen, offshore wind, human and organisational factors, aviation fuel handling and thermal power generation.

Further support in the production of guidance is provided by a range of organisations, including industry regulators (such as the UK Health and Safety Executive, Environment Agency, Maritime and Coastguard Agency), and other bodies such as IATA and JIG. The EI's Technical team also facilitates and coordinates UK input into the work of national and international non-EI committees in organisations such as BSI, ISO and CEN.

Since the pandemic began, the EI has published 170+ good practice guidance documents and moved to a new print-on-demand system to reduce our emissions. Independent auditing of this work has demonstrated a return on investment of 50/1 through safety and efficiency improvements to our partners' operations.

Where the EI adds value

In many countries there is a 'goal-setting' rather than 'prescriptive' approach to regulation. This is particularly relevant to health, safety and environmental (HS&E) legislation. Here, the onus is on operators to demonstrate to the regulators' satisfaction that reasonable steps have been taken to fulfil regulatory requirements. This is easier when the industry and regulators have agreed good practices or guidance.

It is this which underpins the ethos of the EI's role for industry. The EI essentially acts as an honest broker to facilitate discussion on scientific and technical issues, to input sound science into regulations, or to deliver good practice to support regulators and industry alike. Industry partners work collaboratively through the EI in the development of good industry practice for the benefit of all.

The EI's position as an independent and respected technical authority is as important now as it has ever been in helping the energy sector to meet its obligations and in supporting day-to-day industry operations.

The guidance in this catalogue would not be delivered without the generosity of the many who give up their time in supporting the EI's technical work programme. On behalf of the EI I would like to thank all those whose support make this work possible.



Martin Maeso
Technical Director, Energy Institute

Current technical partners include

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DCC Energy
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Harbour Energy
Ithaca Energy
Intertek
Kuwait Petroleum International Ltd
Neptune Energy
Ocean Winds
Ørsted
Phillips 66

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Qatar Petroleum
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Saudi Aramco
Scottish Power
SGS
Shell UK Oil Products Limited
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Siemens Gamesa Renewables
Spirit Energy
SSE
TAQA
TotalEnergies
Uniper
Valero
Vattenfall
Vitol Energy
Woodside
World Fuel Services

New for 2021

Asset integrity

Guidelines for the integrity management of offshore platform conductors

1st Ed. Mar 2021 ISBN: 9781787252400 £150

Guidance for integrity root-cause analysis

1st Ed. Mar 2021 ISBN: 9781787252424 £200

Guidelines for in-service management of passive fire protection coating systems

1st Ed. Feb 2021 ISBN: 9781787252332 £95

Guidelines on managing microbiologically influenced corrosion (MIC) in water injection systems

1st ed. Mar 2022 ISBN 9781787253087 £120

Design and operational guidance on cathodic protection of offshore structures, subsea installations and pipelines

2nd ed. Jan 2022 ISBN 9781787253056 £275

Guidelines for the assessment of ageing and life extension of non-metallic components in the offshore oil and gas industry, volume 1: subsea flexible pipes and offshore marine hoses

1st ed. Jan 2022 ISBN 9781787252813 £125

Corrosion threats handbook- Upstream oil and gas production (A5/A6/PDF)

2nd ed. Nov 2021 ISBN 9781787252707 £150

External corrosion awareness handbook: A guide for visual recognition of external integrity threats to upstream oil and gas production plant (A5/A6/PDF)

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Guidelines for the life extension for safe operation of ageing rotating equipment on offshore petroleum installations - centrifugal compressors

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3rd ed. Oct 2021 ISBN 9781787252745 £150

Guidance for the management of mooring integrity part 1: chain systems and their components

1st ed. Oct 2021 ISBN 9781787252882 £150

Management of engineered composite repairs: End user good practice guidance. (HSE jointed)

Free online: publishing.energyinst.org

1st ed. Nov 2021 ISBN 9781787253001

Guidance on the management of the hazard of vessel impact with offshore structures

1st ed. Feb 2022 ISBN 9781787252868 £150

Aviation

EI Research report: Aviation fuel hydrant pit box loading

1st Ed. Jul 2021 ISBN: 9781787252660 £60

EI 1545 Recommended practice for the defuelling of aircraft

1st Ed. Jan 2021 ISBN: 9781787252295 £80

EI 1566 Injection of biocide into jet fuel during underwing pressure refuelling for aircraft maintenance

1st Ed. Aug 2021 ISBN: 9781787252783 £30

Proceedings of an EI aviation fuel filtration seminar held 24 March 2021

Free online: publishing.energyinst.org

1st Ed. Mar 2021 ISBN: 9781787252479

A 2020 overview of fuels for gas turbine engines in civil aviation

1st Ed. Mar 2021 ISBN: 9781787252431 £10

Environment

Guidance on petroleum hydrocarbon forensic chemistry for site investigation and remediation Volume 1

1st Ed. Jun 2021 ISBN: 9781787252646 £80

Guidance on petroleum hydrocarbon forensic chemistry for site investigation and remediation Volume 2

1st Ed. Jun 2021 ISBN: 9781787252448 £120

Guidance on the identification and assessment of contaminants of emerging concern in soil and groundwater at industrial sites

1st Ed. Jun 2021 ISBN: 9781787252653 £100

Human and organisational factors

Guidance on the human aspects of cyber security

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1st Ed. Aug 2021 ISBN: 9781787252752

Research report: Achieving greater resilience to major events – Organisational learning for safety risk management in complex environments

Free online: publishing.energyinst.org

1st Ed. May 2021 ISBN: 9781787252141

Hazardous area classification

Investigation into the risk and impact associated with non-diesel fuel engine vehicles, by type, whilst entering or working within hazardous storage locations

1st ed. Nov 2021 ISBN 9781787252820 £180

Hydrocarbon management

HM 5.

1st ed. Oct 2021 ISBN 9781787252943 £70

HM 21

4th Ed. Apr 2021 ISBN: 9781787252455 £150

HM 25

4th Ed. Jul 2021 ISBN: 9781787252684 £140

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1st Ed. Jul 2021 ISBN: 9781787252714 £60

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2nd ed. Oct 2021 ISBN 9781787252912 £80

HM 79

1st Ed. Feb 2021 ISBN 9781787252301 £70

HM 95.

2nd ed. Nov 2021 ISBN 9781787252974 £100

HM 1803. EI Research Report: Determination of recalibration intervals for fiscal metering measurements

1st ed. Feb 2021 ISBN 9781787252318 £50

EI Research Report: Determination of recalibration intervals for fiscal metering measurements (HM 1803)

1st Ed. Feb 2021 ISBN: 9781787252318 £50

HM 1805. Water in crude oil interface study

Free online: publishing.energyinst.org

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Petroleum product storage

Guidance on the declassification of tanks previously in leaded gasoline service

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EI Research report: Evolution of condition monitoring requirements for combined cycle gas turbine (CCGT) power plants

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Failure mode and effects analysis tool for above-ground storage tanks storing petroleum, petroleum products or other fuels - Part 1: Failure mode analysis for primary containment

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Free online: publishing.energyinst.org

1st ed. Dec 2021 ISBN 9781787253025

Renewables

Good practice guidelines for safe helicopter operations in support of the global offshore wind industry Part A

Free online: publishing.energyinst.org

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Good practice guidelines for safe helicopter operations in support of the global offshore wind industry Part B

Free online: publishing.energyinst.org

1st ed. Feb 2021 ISBN 9781787252356

G+ Incident data report 2020

Free online: publishing.energyinst.org

1st ed. Jun 2021 ISBN 9781787252608

Guidance on the application of Wind Turbine Safety Rules

Free online: publishing.energyinst.org

4th ed. Nov 2021 ISBN 9781787252851

Japanese translation - G+ Global Offshore Wind Health and Safety Organisation Brochure

Free online: publishing.energyinst.org

1st ed. Sep 2021 ISBN 9781787252110

SafetyOn Incident data report 2020

Free online: publishing.energyinst.org

1st ed. Jun 2021 ISBN 9781787252622

SafetyOn Good practice guidelines: Planned decommissioning framework for onshore wind turbines

Free online: publishing.energyinst.org

1st ed. Nov 2021 ISBN 9781787253049

SafetyOn Good practice guidelines: Post-incident decommissioning of onshore wind turbines

Free online: publishing.energyinst.org

1st ed. Sep 2021 ISBN 9781787252844

SafetyOn Good practice guidelines: Traffic management for onshore wind farms

Free online: publishing.energyinst.org

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Free online: publishing.energyinst.org

4th Ed. **Jun 2021** ISBN: 9781787252516

Wind Turbine Safety Rules Procedure 2: Approval of tools, equipment and processes

Free online: publishing.energyinst.org

4th Ed. **Jun 2021** ISBN: 9781787252523

Wind Turbine Safety Rules Procedure 3: Objections on safety reasons

Free online: publishing.energyinst.org

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Wind Turbine Safety Rules Procedure 4: Addition and removal of safety rules to plant and LV apparatus

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Wind Turbine Safety Rules Procedure 5: Temporary addition of alternative safe systems of work

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Wind Turbine Safety Rules Procedure 8: Approval of electronic safety document systems

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Traditional Mandarin translation - Case study on reducing manual handling and ergonomics related incidents in the offshore wind industry

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Asset integrity

Assuring that existing installations, particularly mature installations, are fit for purpose continues to be a focus for industry. Structures, plant, equipment or systems, which could either cause, or contribute to, a major accident, need to be effectively managed in order to prevent or limit the effects of failure. The EI produces publications that support the aims to encourage good practice in integrity management, continuous improvement and minimise the potential for accidents.

Brand new for 2021

Guidance for integrity root-cause analysis

This guidance introduces the topic of root-cause analyses (RCA) and how to address and capture lessons from 'more frequent - low consequence' incidents within the integrity management system. Along with its companion Root-cause analyses (spreadsheet) tool, this guidance provides a means of addressing the same type of level of analysis for low criticality integrity-related incidents (materials and corrosion) as is more commonplace on high consequence, high criticality failures and near-misses.

Corrosion

Guidelines on managing microbiologically influenced corrosion (MIC) in water injection systems

1st ed. Mar 2022 ISBN 9781787253087 £120

Guidance for corrosion management in oil and gas production and processing

2nd ed. Mar 2019 ISBN 9781787250635 £300

Guidance on risk assessment and conceptual design of tertiary containment systems for bulk storage of petroleum, petroleum products, or other fuels

1st ed. Jul 2013 ISBN 9780852936528 £107

Guidelines for external corrosion and degradation management of stainless steels in the offshore oil and gas environment

1st ed. Nov 2018 ISBN 9780852938607 £150

Guidelines for injection of corrosion inhibitors in oil and gas production systems

1st ed. Aug 2019 ISBN 9780852938805 £125

Guidelines for the assessment of corrosion threats in risk-based inspection

1st ed. Nov 2019 ISBN 9781787251403 £250

Guidelines for the corrosion management of firewater deluge systems

1st ed. Nov 2018 ISBN 9781787250369 £125

Guidelines for the integrity management of corrosion under pipe supports (CUPS)

1st ed. Oct 2018 ISBN 9780852939857 £150

Guidelines for the management of coatings for external corrosion protection

1st ed. Jan 2012 ISBN 9780852936184 £122

Guidelines for the management of microbiologically influenced corrosion in oil and gas production

1st ed. Nov 2017 ISBN 9780852939796 £120

Guidelines for the materials selection and corrosion management of downhole production and injection well equipment

1st ed. Jun 2017 ISBN 9780852939604 £100

Guidelines for the use of anticorrosion tape systems for process pipework

1st ed. Mar 2017 ISBN 9780852938058 £95

Guidelines on sand erosion and erosion-corrosion management

1st ed. Jun 2017 ISBN 9780852939970 £100

Guidelines on the corrosion management of offshore oil and gas production facilities: addressing asset ageing and life extension (ALE)

1st ed. Jun 2017 ISBN 9780852937112 £100

Microbially-influenced corrosion (MIC) in double-hull tankers. A scoping paper

1st ed. Mar 2001 ISBN 9780852933336 £62

The effect of alcohols and kinetic hydrate inhibitors in gas pipelines on the risk of microbial-influenced corrosion (MIC)

1st ed. Apr 2011 ISBN 9780852935811 £62

The effect of nitrate anti-souring treatment on corrosion of mild steel

1st ed. **Nov 2006** ISBN 9780852934586 **£83**

EI Research report: The use of nitrate treatment in oilfield systems to control reservoir souring: A review of current status

2nd ed. **Sep 2017** ISBN 9780852938157 **£85**

Design and operational guidance on cathodic protection of offshore structures, subsea installations and pipelines

2nd ed. **Jan 2022** ISBN 9781787253056 **£275**

Corrosion threats handbook- Upstream oil and gas production (A5/A6/PDF)

2nd ed. **Nov 2021** ISBN 9781787252707 **£150**

External corrosion awareness handbook: A guide for visual recognition of external integrity threats to upstream oil and gas production plant (A5/A6/PDF)

2nd ed. **Nov 2021** ISBN 9781787252981 **£150**

General

Guidelines for the assessment of ageing and life extension of non-metallic components in the offshore oil and gas industry, volume 1: subsea flexible pipes and offshore marine hoses

1st ed. **Jan 2022** ISBN 9781787252813 **£125**

Guidelines for the life extension for safe operation of ageing rotating equipment on offshore petroleum installations - centrifugal compressors

2nd ed. **Oct 2021** ISBN 9781787252806 **£150**

Capability maturity model for maintenance management

1st ed. **Nov 2007** ISBN 9780852934876 **£161**

Guidance for life extension of unbonded pipe systems

1st ed. **Oct 2021** ISBN 9781787252769 **£150**

Guidelines for management of integrity of bolted joints in pressurised systems

3rd ed. **Oct 2021** ISBN 9781787252745 **£150**

Guidance for the integrity management of offshore platform conductors

1st ed. **Mar 2021** ISBN 9781787252400 **£150**

Guidance for the management of mooring integrity part 1: chain systems and their components

1st ed. **Oct 2021** ISBN 9781787252882 **£150**

Management of engineered composite repairs: End user good practice guidance. (HSE jointed)

Free online: publishing.energyinst.org

1st ed. **Nov 2021** ISBN 9781787253001

Guidelines for the integrity management of offshore platform conductors

1st ed. **Mar 2021** ISBN 9781787252400 **£150**

Guidance for integrity root-cause analysis

1st ed. **Mar 2021** ISBN 9781787252424 **£200**

Guidelines for in-service management of passive fire protection coating systems

1st Ed. **Feb 2021** ISBN 9781787252332 **£95**

Guidance for corrosion management in oil and gas production and processing

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Guidelines for the management of structural ALE issues for mono-hull FPSOs

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Guidelines for caisson life cycle integrity management

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Guidelines to address ageing and life extension issues for offshore structures and structural components

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Guidelines for the integrity management of valves for the upstream and downstream industries

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Guidelines on fatigue of ageing pressure vessels

1st ed. **Nov 2019** ISBN 9781787251090 **£100**

Guidance on the management and maintenance of the integrity of structures, equipment and systems taken out of service on either a temporary or permanent basis in the upstream oil and gas industry

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Guidelines for the avoidance of vibration-induced fatigue failure in subsea systems

1st ed. **Sep 2018** ISBN 9780852939772 **£325**

Guidelines for safe operation and management of ageing gas turbines on offshore petroleum installations

1st ed. **Oct 2018** ISBN 9780852938836 **£125**

Guidance on the management of the hazard of vessel impact with offshore structures

1st ed. **Feb 2022** ISBN 9781787252868 **£150**

Guidelines for the integrity management of flare tips and ancillaries

1st ed. **Nov 2020** ISBN 9781787252271 **£130**

Guidelines for the management of access fittings for pressurised systems

1st ed. **Aug 2020** ISBN 9781787251977 **£85**

Guidelines for the management of safety critical elements

3rd ed. **Jan 2020** ISBN 9781787251540 **£150**

Guidelines for life extension of offshore installations

1st ed. Jun 2017 ISBN 9780852939994 **£100**

Guidance on integrity testing for offshore installation temporary refuges

1st ed. Jun 2017 ISBN 9780852939741 **£100**

EI Research Report: Guidance on available literature for assessing and managing ageing plant at bulk liquid storage facilities

1st ed. Sep 2016 ISBN 9780852939284 **£70**

Guidelines for the design, installation and management of thermal insulation systems

1st ed. Jun 2014 ISBN 9780852936979 **£122**

Technical guidance and information relating to ageing and life extension of installations in the upstream energy sector

Free online: publishing.energyinst.org

1st ed. Apr 2014 ISBN 9780852936702

Guidelines for the design, installation and management of small bore tubing assemblies

2nd ed. May 2013 ISBN 9780852936511 **£112**

Guidelines for the life extension for safe operation of ageing rotating equipment on offshore petroleum installations

1st ed. Oct 2021 ISBN 9781787252806 **£150**

Guidelines for the management of obsolescence in subsea facilities

1st ed. May 2011 ISBN 9780852936108 **£172**

Guidelines for the management of flexible hose assemblies

2nd ed. Feb 2011 ISBN 9780852935880 **£95**

Research report: A framework for monitoring the management of ageing effects on safety critical elements

1st ed. Nov 2009 ISBN 9780852935453 **£126**

Guidelines for the management of integrity of subsea facilities

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Guidelines for the avoidance of vibration induced fatigue failure in process pipework

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Aviation

Airlines expect to welcome circa 3.6 billion passengers in 2016 (source: IATA). The provision of fuel for these flights forms a significant part of the downstream business for many oil companies, into-plane agents and airlines. Our publications are produced to assist in the reliable and safe provision of jet fuel to commercial aircrafts. Due to the international nature of the aviation refuelling business, the EI's aviation publications have global implications and worldwide input.

Aviation fuel handling

EI Standard 1522 Minimum requirements for aviation fuelling hose accessories

1st ed. May 2019 ISBN 9781787250864 £70

EI 1529 Aviation fuelling hose and hose assemblies

7th ed. Nov 2014 ISBN 9780852937211 £83

EI/JIG Standard 1530 Quality assurance requirements for the manufacture, storage and distribution of aviation fuels to airports

2nd ed. May 2019 ISBN 9781787250741 £325

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EI 1535 Minimum criteria to determine acceptability of additives for use in multiproduct pipelines cotransporting jet fuel

3rd ed. Oct 2016 ISBN 9780852939437 £80

EI 1538 Handling of fuel system icing inhibitor and aviation fuel containing fuel system icing inhibitor at airports

Free online: publishing.energyinst.org

1st ed. Jul 2019 ISBN 9781787250901 £25

EI 1540 Design, construction, commissioning, maintenance and testing of aviation fuelling facilities

5th ed. Oct 2014 ISBN 9780852937082 £142

EI Standard 1541 Requirements for internal protective coating systems used in aviation fuel handling systems

2nd ed. Oct 2016 ISBN 9780852939468 £90

EI 1542 Identification markings for dedicated aviation fuel manufacturing and distribution facilities, airport storage and mobile fuelling equipment

9th ed. Jul 2012 ISBN 9780852936276 £79

EI 1545 Recommended practice for the defuelling of aircraft

1st ed. Jan 2021 ISBN 9781787252295 £80

EI 1550 Handbook on equipment used for the maintenance and delivery of clean aviation fuel

3rd ed. Sep 2019 ISBN 9781787251328 £200

EI 1560 Recommended practice for the operation, inspection, maintenance and commissioning of aviation fuel hydrant systems and hydrant system extensions

2nd ed. Aug 2020 ISBN 9781787252073 £200

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EI Specification 1576 Hydrant pit coupler lift assist device testing protocol

1st ed. Sept 2020 ISBN 9781787252103 £30

EI Specification 1581 Specifications and laboratory qualification procedures for aviation fuel filter/ water separators

6th ed. Dec 2016 ISBN 9780852939550 £120

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Spreadsheet is available from:

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4th ed. May 2017 ISBN 9780852939659 £125

EI 1585 Guidance in the cleaning of aviation fuel hydrant systems at airports

3rd ed. Aug 2013 ISBN 9780852936641 £124

EI 1588 Laboratory tests and minimum performance levels for aviation fuel water barrier filters

1st ed. May 2018 ISBN 9780852938980 £92

EI 1589 Materials compatibility testing for aviation fuel filter elements and fuel sensing devices

1st ed. Jun 2016 ISBN 9780852937969 £87

EI 1590 Specifications and qualification procedures for aviation fuel microfilters

3rd ed. Sep 2014 ISBN 9780852937075 £93

EI 1592 Design, functional requirements and laboratory testing protocols for electronic bulk water detectors for use in aviation fuelling

3rd ed. May 2017 ISBN 9780852939635 £90

EI 1594 Initial pressure strength testing of airport fuel hydrant systems with water

3rd ed. Mar 2014 ISBN 9780852936870 £78

EI Specification 1596 Design and construction of aviation fuel filter vessels

2nd ed. Aug 2019 ISBN 9781787251281 £100

EI Recommended Practice 1597 Procedures for overwing fuelling to ensure delivery of the correct fuel grade to an aircraft

2nd ed. Jan 2017 ISBN 9780852939574 £95

EI 1598 Design, functional requirements and laboratory testing protocols for electronic sensors to monitor free water and/ or particulate matter in aviation fuel
2nd ed. Feb 2012 ISBN 9780852936221 **£95**

EI Specification 1599 Laboratory tests and minimum performance levels for aviation fuel dirt defence filters
2nd ed. Nov 2017 ISBN 9780852938041 **£92**

Petroleum road tanker design and construction
4th ed. Oct 2019 ISBN 9781787251427 **£190**

CRC/EI Research report: Charge generation and dissipation in aviation fuel handling with filter monitors
Free online: publishing.energyinst.org
1st ed. Sep 2017 ISBN 9780852939758

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EI Research Report: Aviation fuelling hazardous area classification
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1st ed. Feb 2004 ISBN 9780852934081 **£76**

EI Research Report: Electrostatic discharges in two inch fuel filter monitors
1st ed. Oct 2002 ISBN 9780852933886 **£51**

EI Research Report: Investigation into the effects of lubricity additives on the performance of filter/water separators
1st ed. Mar 2003 ISBN 9780852933954 **£51**

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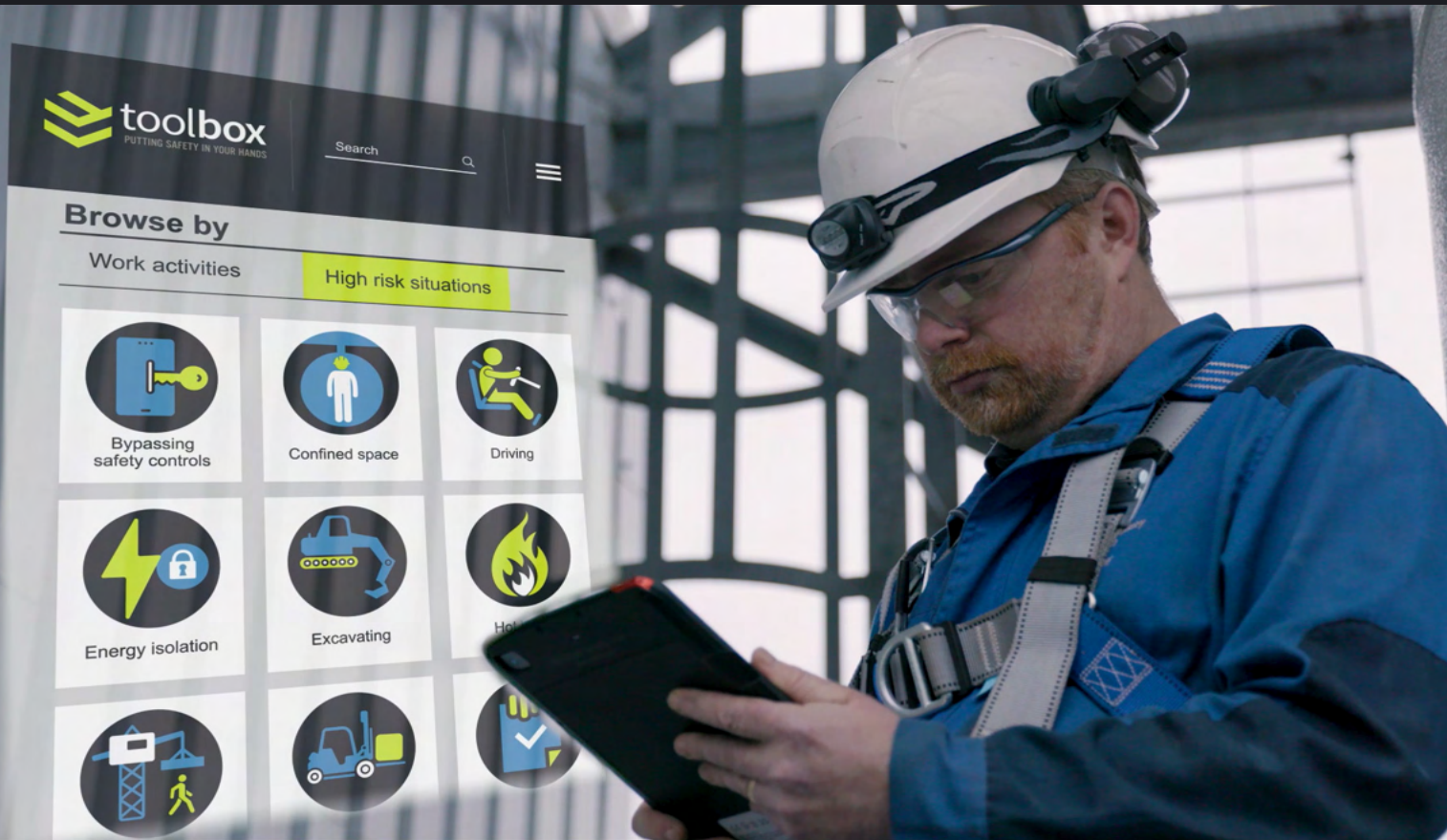
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