

NUCLEAR LIFTING 2018 INNOVATIVE LIFTING STRATEGIES FOR THE NUCLEAR INDUSTRY

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Institution of
**MECHANICAL
ENGINEERS**

Power Industries Division
Seminar

29 November 2018
Old Trafford, Manchester United Football Club

KEY SPEAKERS INCLUDE:

Dai Davies, Principal Inspector,
Nuclear Safety Office for Nuclear Regulation

Iain Phimister, Senior Engineering Manager
Radioactive Waste Management

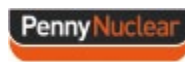
Shane Lloyd, Lead Mechanical Engineer
Horizon Nuclear Power

Jim Spencer, Lifting Handling and Fuel Storage,
Technical Management and Acceptance,
HPC EDF Energy

John McGibbon, Senior Safety Assessor
Sellafield Ltd



EXHIBITORS:



SUPPORTING ORGANISATIONS:



EVENT PARTNERS:



Book your place today: www.imeche.org/nuclearlifting2018

NUCLEAR LIFTING 2018 INNOVATIVE LIFTING STRATEGIES FOR THE NUCLEAR INDUSTRY

29 NOVEMBER 2018, MANCHESTER UNITED FOOTBALL CLUB

DISCOVER ENGINEERING SOLUTIONS TO THE TECHNICAL AND ENVIRONMENTAL CHALLENGES FACING THOSE CONDUCTING HIGH RISK LIFTING AT THE INSTITUTION OF MECHANICAL ENGINEERS' 7TH NUCLEAR LIFTING SEMINAR.

Attend this unique event to continue the discussion around lifting projects for decommissioning, operational and new build nuclear sites.

Explore long term strategies, unique safety cases and cost-effective design that meet regulated standards.

Understand how best to conduct complex and high risk lifts and benefit from the combined experience and knowledge of this specialised engineering community.

KEY TOPICS INCLUDE:

- The **Office of Nuclear Regulation (ONR)** provides a detailed overview of all the relevant good practice within UK Law, approved codes and practice and British and European Standards
- **Radioactive Waste Management Ltd (RWM)** discuss their latest vertical shaft hoist implementation for up to 65 tonne lifts in an underground disposal facility
- **Dounreay Site Restoration Ltd** share the lessons learned from the rail failure of a nuclear polar crane
- **Sellafield Ltd** will outline their fresh approaches for assessing and carrying out challenging lifts at their site
- **EDF Energy** present best practice and insights during the procurement and design of the polar crane in use at Hinkley Point C

WITH THANKS TO:

Roger May, Former Shift Charge Engineer
Magnox Ltd

Sam Lacey, Senior Engineering Manager
AWE

Dai Davies, Principal Inspector, Nuclear Safety
Office for Nuclear Regulation

Shane Lloyd, Lead Mechanical Engineer
Horizon Nuclear Power

Shaun M Kelso, Senior Policy Adviser
Sellafield Ltd

ATTEND NUCLEAR LIFTING TO:

- Hear a unique presentation from the **Office of Nuclear Regulation** for clarity on expectations from those operating lifting equipment on a nuclear site
- **Network** with engineering thought leaders in nuclear lifting strategies and safety cases
- Develop **cost effective strategies** to comply with regulation with insights from ONR, the RWM and industry experts
- Understand the role of **asset maintenance and human factors** in a nuclear lifting environment
- Hear about how to lift safely in **complex and high risk lifting operations** at power generation, decommissioning and military sites

FEEDBACK FROM PREVIOUS SEMINAR:

“A good range of topics with interesting points to consider”

Senior Mechanical Engineer, Sellafield Ltd

“A great day covering diverse aspects of nuclear lifting.”

Senior Project Engineer, BOC Ltd

“A great event with some very informative and interesting presentations.”

Mechanical engineer, EDF

“A thrilling ride through the highs and lows of Nuclear Lifting”

Senior Mechanical Engineer, Atkins

BOOK YOUR PLACE TODAY

WWW.IMECHE.ORG/NUCLEARLIFTING2018

TERMS AND
CONDITIONS
APPLY

PROGRAMME

THURSDAY 29TH NOVEMBER 2018

08:30	REGISTRATION AND REFRESHMENTS
09:00	CHAIR'S OPENING REMARKS
	DESIGN CODES AND THE APPLICATION OF QUALITY ASSURANCE(QA) TO NUCLEAR LIFTS
09:10	DEVELOPMENT OF RELEVANT GOOD PRACTICE WITHIN THE UK NUCLEAR INDUSTRY Dai Davies, Principal Inspector, Nuclear Safety, Office for Nuclear Regulation Shane Lloyd, Lead Mechanical Engineer, Horizon Nuclear Power
09:40	QUALITY CONTROL – MORE THAN JUST NDT AND MATERIAL CERTIFICATION Jon Garlick, Design Substantiation Engineer, AWE Sam Lacey, Senior Engineering Manager, AWE
10:10	QUESTION AND ANSWER SESSION
10:20	PANEL DISCUSSION: MOVING FORWARDS AS AN INDUSTRY Jim Spencer, Lifting Handling and Fuel Storage, Technical Management and Acceptance, HPC, EDF Energy Roger Best, Engineering Manager, AWE <ul style="list-style-type: none">• Where is harmonisation most urgently needed?• How can the requirements of the nuclear context best be catered for?• Safety cases VS conventional assessment: when are they required?
10:50	NETWORKING REFRESHMENT BREAK
	DEVELOPING SAFETY CASES FOR NEW AND OLD FACILITIES
11:20	THE FEASIBILITY OF A 1000M NUCLEAR LIFT AT A UK GEOLOGICAL DISPOSAL FACILITY Iain Phimister, Senior Engineering Manager, Radioactive Waste Management
11:50	REBALANCING LIFTING SAFETY CASES TO SUPPORT DECOMMISSIONING ACTIVITIES John McGibbon, Senior Safety Assessor, Sellafield Ltd
12:20	INTEGRATING HUMAN FACTORS INTO ENGINEERING PRACTICES
12:50	QUESTION AND ANSWER SESSION
13:05	NETWORKING LUNCH
	MAINTENANCE AND LIFE EXTENSION OF LIFTING EQUIPMENT
14:05	DOUNREAY AND GOLIATH: A CASE STUDY OF RAIL FAILURE IN A NUCLEAR POLAR CRANE Jennifer Gilmour, Senior Mechanical Engineer, Dounreay Site Restoration Ltd.
14:35	LIFTING THE BAR AT DEVONPORT Collwyn Griffiths, IN FAP Project Manager, Marine Naval Bases, Marine & Technology, Babcock International Group
15:05	QUESTION AND ANSWER SESSION
15:15	NETWORKING REFRESHMENT BREAK
	CASE STUDIES ON CURRENT AND FUTURE CHALLENGES
15:45	THE WINDSCALE PILE CHIMNEY DEMOLITION: USE AND SAFETY CASE SUBSTANTIATION OF A CONVENTIONAL LUFFING JIB TOWER CRANE IN A NUCLEAR ENVIRONMENT George Frost, MICE Project Engineering Manager – Demolition, Sellafield Ltd Neil Shuttleworth, Principal Structural Engineer, AECOM
16:15	CHALLENGES OF SPENT FUEL EXPORT Shane Lloyd, Lead Mechanical Engineer, Horizon Nuclear Power
16:45	PROCUREMENT, DESIGN AND SAFETY JUSTIFICATION OF THE HINKLEY POINT C REACTOR BUILDING POLAR CRANE Jim Spencer, Lifting Handling and Fuel Storage, Technical Management and Acceptance, HPC, EDF Energy
17:15	QUESTION AND ANSWER SESSION
17:30	CHAIR'S CLOSING REMARKS
17:35	END OF SEMINAR

For the most up-to-date and detailed programme for the event, please visit www.imeche.org/nuclearlifting2018

- This programme is subject to change.
- The Institution is not responsible for the views or opinions expressed by individual speakers.

HOW TO BOOK YOUR PLACE

Registration fees include entry to the sessions, refreshments and a copy of the conference proceedings.

FEES AND CHARGES

Registration fees include entry to the sessions, refreshments and a copy of the conference proceedings.

Seminar	Early Bird Rate Available until 5 October	Standard Rate
Member, Institution of Mechanical Organisation	£299 + VAT = £358.80	£330 + VAT = £396
Non-member	£349 + VAT = £418.80	£385 + VAT = £462
Full-time Student/Retired	£85 + VAT = £102	£85 + VAT = £102

Group booking discounts are available. Contact us for more information.

THREE WAYS TO BOOK

- 1 Online:
www.imeche.org/nuclearlifting2018
- 2 Email:
eventenquiries@imeche.org
- 3 Phone:
+44 (0)20 7973 1251

Please read the information listed below as each booking is subject to the Institution's standard terms and conditions.

CONDITIONS OF BOOKING

Completed application forms should be returned to the address above, along with the correct payment. Attendance at the event will be confirmed on receipt of the full balance. All participants are advised to bring a copy of their confirmation with them on the day, to ensure the fastest possible entry.

SPECIAL REQUIREMENTS

Please inform us of any special requirements, ie dietary or access, on the relevant section of the booking form or email eventenquiries@imeche.org

CANCELLATION

For a refund (minus £25+VAT admin charge), cancellations must be received at least 30 days prior to the event. Replacement delegates are welcome at any time. The Institution reserves the right to cancel any event. In this case, the full fee will be refunded unless a mutually convenient transfer can be arranged. In the event that the Institution postpones an event for any reason and the delegate is unable or unwilling to attend on the rescheduled date, they will receive a full

refund of the fee paid. The Institution is not responsible for any loss or damage as a result of a substitution, alteration or cancellation/postponement of an event. The Institution shall assume no liability whatsoever if this event is cancelled, rescheduled or postponed due to a fortuitous event, Act of God, unforeseen occurrence or any other event that renders performance of this conference impracticable, illegal or impossible. For the purposes of this clause, a fortuitous event shall include, but not be limited to: war, fire, labour strike, extreme weather or other emergency.

Please note that while speakers and topics were confirmed at the time of publishing, circumstances beyond the control of the organisers may necessitate substitutions, alterations or cancellations of the speakers and/or topics. The Institution reserves the right to alter or modify the advertised speakers and/or topics if necessary without any liability to you whatsoever. Any substitutions or alterations will be updated on the event's webpage as soon as possible.

LIABILITY

The organisers do not accept liability for any injuries or losses of any nature incurred by delegates and/or accompanying persons, nor for loss or damage to their luggage and/or personal belongings.

CONFERENCE VENUE

Manchester United Football Club
Sir Matt Busby Way
Old Trafford
Manchester
M16 0RA

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OTHER EVENTS TO LOOK FOR

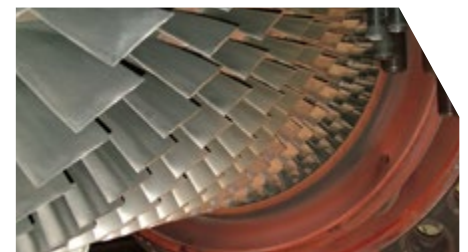


THE INSTITUTION OF MECHANICAL ENGINEERS' ANNUAL DINNER 2018

22 November 2018, Bristol

With 2018 the official Year of Engineering, the evening is the perfect opportunity for you and your organisation to celebrate and show your support for the engineering community.

www.imeche.org/annualdinner



GAS TURBINE USER GROUP 2018

28-29 November 2018, Manchester

Discuss common problems and issues, exchange ideas, identify potential solutions and learn about new developments within the management, operation and maintenance of gas turbines.

www.imeche.org/gtug2018

The Institution of Mechanical Engineers organises over 120 events a year, including lectures as well as conferences, seminars, annual luncheons and dinners. Please visit www.imeche.org/events for the complete list of events.

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