## ALARP: Risk Management for Engineering

**28th June 2016**  
**Birmingham (Venue TBC)**

### SEMINAR DAY

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<td>08:30</td>
<td><strong>REGISTRATION AND REFRESHMENTS</strong></td>
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| 09:00 | **CHAIR’S OPENING REMARKS**  
Jeremy Lewis, Safety and Reliability Group, Institution of Mechanical Engineers |
| 09:10 | **KEYNOTE: AN INTRODUCTION TO THE CONCEPT OF ALARP FROM**  
The HEALTH AND SAFETY EXECUTIVE (HSE)  
*Paul Stanworth, HM Specialist Inspector of Health and Safety Hazardous Industries Directorate, Chemical Explosives and Microbiological Hazards Division (CEMHD), Health and Safety Executive*  
- An explanation of the concept of reasonable practicability, the term ALARP and the tolerability of risk  
- Examples of what may have to be done to demonstrate risk reduction to ALARP in different situations  
- Responding to change from a HSE perspective |
| 09:35 | **ALARP FROM THE PERSPECTIVE OF THE OFFICE OF NUCLEAR REGULATION (ONR)**  
*Shane Turner, Principal Inspector, Nuclear Safety, Office of Nuclear Regulation*  
- ALARP from a legal perspective: understanding the law and what it means for your organisation  
- Tolerability of risk and relevant good practice in determining ALARP  
- ONR’s expectations of duty holder’s safety cases |
| 10:00 | **TAKING SAFE DECISIONS ON THE GREAT BRITISH RAILWAYS**  
*Marcus Dacre, Head of Risk, Rail Safety and Standards Board*  
- The structure of the Great British rail industry and the legislative environment it operates in  
- Industry guidance on ‘Taking Safe Decisions’: the principles we apply when taking decisions that affect safety  
- Practical application of the decision taking principles |
| 10:25 | **RISKS, UNCERTAINTY AND DECISION MAKING: OIL AND GAS GUIDANCE**  
*Mike Johnson, Principal Consultant, DNV GL*  
- An overview of the updated Oil & Gas UK document “Guidance on Risk Related Decision Making”  
- A discussion of the content and application of the framework  
- Review of some of the practical challenges of deployment in organisations |
| 10:50 | **QUESTION AND ANSWER SESSION**                                        |
| 11:05 | **NETWORKING REFRESHMENT BREAK**                                        |
| 11:35 | **DESIGN AND STRATEGY**                                                |
| 11:35 | **APPLICATION OF ALARP IN NUCLEAR NEW BUILDS**  
*Paul Marks, Safety Case Team Leader – Design Authority, EDF Energy*  
- Considerations of ALARP in EPR design following the completion of the generic design assessment process  
- Applying ALARP in new build site layout  
- Application of ALARP to new build sites following the Fukushima accident |
| 12:00 | **SAFELY DESIGNING HIGH SPEED 2: IMPLEMENTING ALARP THROUGH THE PROJECT LIFE CYCLE**  
*Reuben McDonald, Head of System Safety, HS2 Ltd*  
- Implementing safety choices early in the design phase |
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| 12:35 | **ALARP FROM A DEFENCE PERSPECTIVE**  
Senior Military Officer, Speaker to be announced                                                                                       |
| 13:00 | **QUESTION AND ANSWER SESSION**                                                                                                          |
| 13:15 | **NETWORKING LUNCH**                                                                                                                      |
| 14:15 | **A RISK BASED APPROACH TO NUCLEAR SAFETY IN A DECOMMISSIONING ENVIRONMENT**  
David Forsythe, Head of Nuclear Safety Decommissioning, Sellafield Ltd  
- Learning to manage risk and uncertainty in urgent decommissioning programmes through better aligning business and safety processes  
- The Risk Based Management Framework as being introduced at Sellafield: focusing on delivering work and how it is being delivered  
- Exploring the management of decommissioning work in the nuclear industry with a risk-based approach to nuclear safety, and the key issues in moving to such a model |
| 14:40 | **DEMONSTRATING ALARP ON AGEING PETROCHEMICAL ASSETS**  
Richard Hodges, Senior Engineer, Technical Safety & Process Engineering, SABIC UK Petrochemicals  
- Responding to relevant good practice and changing corporate tolerability criteria  
- Demonstrating ALARP: we rely on many barriers to prevent major incidents, but are they really in place?  
- What else can we do and why aren’t we doing it? |
| 15:05 | **MANAGEMENT OF CIVIL ENGINEERING ASSET RISK IN LONDON UNDERGROUND**  
Brian McGinnity, Head of Civil Engineering and Construction, London Underground  
- An overview of the way that risk is managed at London Underground  
- Understanding the Strategic Rail Authority (SRA) and Tactical Risk Assessment (TRA) approach  
- A safety perspective and assessment of operational railway business risk disruption |
| 15:30 | **QUESTION AND ANSWER SESSION**                                                                                                          |
| 15:45 | **NETWORKING REFRESHMENT BREAK**                                                                                                          |
| 16:15 | **ROUND TABLE SESSIONS**  
- What is proportionate ALARP?  
- Where does responsibility lie, within a project, for the application of ALARP?  
- What are the leading factors which make ALARP difficult to implement?  
- In what ways can we demonstrate that ALARP is being applied correctly? |
| 17:00 | **ROUND TABLE FEEDBACK**  
Summary of round table discussions                                                                                                        |
| 17:15 | **CHAIR’S CLOSING REMARKS**                                                                                                               |
| 17:20 | **END OF SEMINAR**                                                                                                                         |