

# SAFETY AND RELIABILITY SOCIETY

## Lunchtime Seminar

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## How Safe is Safe Enough?

**Ron Bell OBE BSc (Hons.) CEng FIET**

**Executive Director, Engineering Safety Consultants Ltd**

**Wednesday 19th June 2019, 1300 to 1400**

The presentation will set out the key elements that form the foundation for determining what is deemed "safe" in the context of Safety Critical Systems to judge "How Safe is Safe Enough"? The term "safety critical systems" refers to those systems that are intended to achieve, together with the other risk reduction measures, the necessary risk reduction to meet the required tolerable risk.

The presentation will cover:

- Risk Reduction Concepts & Target Harmful Event Frequencies;
- The role of a critical systems in the risk reduction process;
- The concepts of: Tolerable Risk; The concept of a Safety Integrity Level (SIL); "As Low As Reasonably Practicable" (ALARP); Accepted good practice approach to undertaking an ALARP demonstration

A simple example of Cost Benefit Analysis will be considered in the context of a specific scenario. The presentation will last around 35 minutes followed by a 20 minute Q&A session. To register for the Webinar please click here:

**<https://sars.clickmeeting.com/how-safe-is-safe-enough/register>**

**A bit about our speaker:** From 1992 until 2006, Ron Bell was Head of the Electrical and Control Systems Group in HSE. From 1998-2011 he was a Member of the binational Channel Tunnel Safety Authority. He chairs one of the two IEC working groups responsible for IEC 61508 (the international standard dealing with safety critical systems). In 2005, he received the IEC 1906 Award for his work on functional safety and IEC 61508. He held a 3-year appointment (2015-2018) as a Royal Academy of Engineering Visiting Professor at Liverpool John Moores University. He received the OBE in the Queen's 2006 New Year Honours.