

Risk Management that Makes Risk ALARP in the age of IoT

Congratulating the start of the new international gathering ASRAM, I would like to point out in my talk that we are faced with various new risk management issues in these days, owing to the innovation represented by the internet of things (IoT).

To secure safety of nuclear reactors, it is required to reduce the public risk due to severe accidents as low as reasonably practicable (ALARP). While the pursuance of defense-in-depth have been regarded as an effective strategy for making risks of nuclear facilities ALARP, recently published INSAG 27 identifies the importance of accountable communication and interaction not only between plant operators and regulatory agencies but also among operators, regulators, the industry, stakeholders, citizen and international organizations or interaction among institutions in depth, not to mention the functioning of multilayered interaction driven by vibrant safety culture in each of them. Should we understand that the proposal is based on the recognition of the need for sociological pressure through these interactions to reduce risk due to epistemological errors or even “errors a sector doesn’t recognize it doesn’t recognize”? Yes, the proposal is surely based on the recognition of the importance of mutual communication among these sectors to cope with the fallibility of human-being or isolated autonomous organization and reminds me the statement that autonomy will be a key determinant for IoT risk.



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(Biographical information)

Dr. Shunsuke Kondo joined the Department of Nuclear Engineering, School of Engineering, the University of Tokyo (UTokyo) as lecturer in 1970, after receiving BE, ME, and DE in nuclear engineering from the UTokyo in 1965, 1967 and 1970, respectively. Since then he dedicated to research and teaching in the area of nuclear engineering, promoting to Professor of Nuclear Engineering, School of Engineering of the UTokyo in 1984.

He retired from the UTokyo in 2004 when he was appointed to the post of Chairman of the Atomic Energy Commission, Cabinet Office by the Prime Minister. He retired from the position on March 2014.

He assumed the position of the President of the Nuclear Waste Management Organization of Japan on July 1st, 2014.