

Personnel Experience in Safety Culture and related Work by Dr Dieter Tillwick

1 Was Senior Manager of the SAFARI-1 Materials Test Reactor for 3 years:

- Implementation of OHSAS 18001 and certification was obtained,
- Promoted effectiveness in the established integrated management system,
- Provided training to personnel in safety culture and promoted enhancement thereof,
- Actively promoted safety through direct involvement with safety matters e.g. chaired reactor safety meeting, coordinated the Necsa reactor safety meeting and developed processes to improve safety,
- Was a Behavioural Based Safety (BBS) observer who has achieved the highest score for BBS for 3 quarters and was the Necsa (BBS) observer for one year, and
- Performed management self-assessment of SAFARI-1 with the management team.

2 Presently a Consultant to NTP:

- Restructured the QHSE Department, assisted with management system development to good manufacturing practises in radiopharmaceuticals,
- Audited most of the radioisotope production hot cell facilities, radio analytical laboratories, R&D laboratories, SAFARI-1, reactor theory and nuclear waste disposal,
- Special investigations into design of nuclear facility and management system of radio analytical laboratory,

3 Also presently a Consultant to Aveng Nuclear:

- Developed a QHSE integrated management system of over 30 procedures compliant with nuclear safety and quality standards and requirements (ASME NQA-1, GS-R-3 and NSQ-100) and regulatory requirements (RD-0034) including safety culture, and
- Started with training and implementation of the QHSE management system.

4 Other related Experience:

- 36 years of nuclear experience at the South African Nuclear Energy Corporation, Necsa,
- Managing Necsa Corporate Quality, radio analytical and calibration laboratories and the State System of Accounting and Control (SSAC) for safeguards,
- Developed and managed the only ASME III certified manufacturing facility in SA,
- Non-executive Director on the Board of the South African National Accreditation System,
- Served for 11 years on the IAEA Standing Advisory Group for Safeguards Implementation (SAGSI),
- Participated in establishment of an IAEA Nuclear Series Document - Management System for the Development of Disposal Facilities for Radioactive Waste,
- Participated in IAEA INSARR mission to a research reactor and served on the Technical Work Group for Research Reactors (TWGRR),
- Has been an NQA-1 auditor for 25 years and has performed audits on nuclear facilities in France, KNPS, Vaalputs and most nuclear facilities at Necsa,
- Managed, developed and implemented QMS compliant with ASME NQA-1 for 12 years in a PWR fuel manufacturing plant, and
- Served on the ISO work group for the revision of ISO 10006, Quality Management in Project Management.

Definition of safety culture:

Safety culture is the commitment shown by organisations and individuals through attitudes, behaviours and competencies towards safety within an effective safety management system.