



Professional Profile

Greg Chantler, BSc. Elec Eng, PrEng
Senior Safety Engineer, Exida
CFSE

Fields of Competence

Process Safety Management
Quantitative Risk Analysis
Process Hazards Analysis
SIL Determination
SIL Verification
Fault Tree and Event Tree Analysis
SLC Process and Procedure Definition
Safety Instrumented System Design
Project Management and Execution
Failure Modes Effects and Diagnostics Analysis
Reliability Engineering
Electrical and Electronics Engineering

Experience Summary

Mr. Greg Chantler has over 20 years of professional experience. For the past 12 years he has been involved in consulting and engineering design of safety related systems within the process industry. Formerly a lead engineer of the Safety Management Systems group within Honeywell South Africa, he was responsible for the application of the FSC Safety Shutdown systems in a suite of typical mainstream industries (Refining, Pulp and Paper etc) where they are used to safeguard potentially hazardous processes. Subsequently, he worked for a company that provides advanced control solutions to the industry, where his duties made him responsible for the entire project lifecycle of safety systems. He was also actively involved in the design of the Pebble Bed Modular Reactor. As an *exida* employee, he provides consulting services based on the IEC functional safety standards mainly within the Southern African region. For the past 15 year has implemented and maintained secure office IT network at various companies.

Credentials

B.Sc. Electrical Engineering, University of the Witwatersrand, 1987
Professional Engineer (Reg. No. 940277), 1994
Certified Functional Safety Expert, (CFSE 091103 007)

Key Assignments and Projects

Responsible for the execution and final deliverables for many SIL Selection, SIF conceptual design and SIL Verification studies for the Oil & Gas, hydrocarbon processing, chemical, nuclear and mineral beneficiation processing industries within the sub-Saharan African regions.

Design and implantation of the hardware and software for the Helium Test Facility. This is a plant to test items for use in the Pebble Bed Modular Reactor.

Involved in design of aspects of the Pebble Bed Modular Reactor.

Assisted with plant commissioning and startup of refining and oil and gas installations in the Southern and West African Regions

Application of a SIL 3 certified Safety PLC in a suite of typical mainstream industries (Refining, Pulp and Paper etc) where they are used to safeguard potentially hazardous processes.

Test Lead for the V&V of the new Safety Management PKS system in Holland which was developed according to IEC61508.

Responsible for the Safety Lifecycle aspects of the New Multi-Product pipeline between Durban and Johannesburg.

Lectures the Functional Safety Engineering course for the 4th year engineering syllabus at the University of Natal.

Presenting the four-day functional safety engineering course .

Implemented and managed various office IT networks, ensuring a secure environment.

Recent Publications / Presentations

A case study of the implementation of the HTF ESD using the S7-F system, Safety Systems Conference, Johannesburg, June 2006.

Interfacing the ESD to the MCC, Electrical Safety Conference, Cape Town, May 2007.

SIL Verification using Reliability Calculations, Models and Failure Rate data, Safety Systems Conference, Johannesburg, July 2010.



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