



WIB; Functional Safety workgroup

- Scope of this workgroup
- Participants
- Workgroup Processes
- Workgroup Achievements



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- Scope of this workgroup
 - Define a comprehensive method to specify design and maintain protective systems which need to be in compliance with IEC 61511; (Safety Instrumented Systems for the process industry sector).
 - Emphasis is on the SIS SafetyLife cycle



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- Participants
 - SHELL Global Solutions
 - DSM
 - SABIC
 - Dupont
 - ExxonMobil
 - Akzo-Nobel T&E
 - KPE/Q8
 - DOW Benelux



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- Workgroup Processes
 - Examples of Topics to be assessed in this workgroup are;

Work items	Reference Documents
Functional Safety Lifecycle.	
Risk Assessments; Inter member "Benchmarking" (LOPA / Risk matrix/ Risk Graph techniques).	
Vendor SIL certified field equipment (beneficial ?).	
Failure rates.	
Scan Time; process safety time .	
Safety System Verification.	
Prior Use/ Proven in use	
Test Interval Optimization.	
Override and Bypass Management.	
HMI (Human Machine Interface).	
Competence of People (how to obtain/maintain).	
Maintenance 61508/61511	



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- Workgroup Achievements
 - WIB Failure rate Database
 - The Need for Certified Field Instruments in SIS Applications
WIB Application Note: AN-2004-02, Aug 2004
 - Testing and Diagnostics in Practice,
November 2, 2003, by Jan Wiegerinck Shell Global Solutions Int. and Wijnand Bitter EXXONMobil Chemicals
 - Liaison with "Arbeids Inspektie"
 - Test procedures and test interval optimization in Practice
May 24, 2005, by Berend Stam, Akzo Nobel Engineering, Leon Heemels, DSM Corporate SHE&M
 - Skills Matrix and Competences
Standards of Competency in Functional Safety
25th May 2004, by Stephan Tio
 - Scan Time vs Process Safety Time
March, 2009, by Leon Heemels and Lou Overhof
 - Checklist Verification of SIF Design and Installation
Oct 15, 2007, by Leon Heemels
 - Various presentations of Safety Specialists.



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WIB - International Instrument Users' Association
Eric Abrecht (User's Account)

Home Board Gen Data Memb/AGM Reports Working Groups Search: Google Thursday, March 05, 2009

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All Folders Group Documents Personal Documents 31 documents

Group Documents / Working Groups / Functional safety / Documents

Sort By:	Title	File	Size	Posted By	Modified
	Arbeids Inspectie-AI		2 items		
	Safety standards revisions		3 items		
	SIF verification		7 items		
	Team discussion topics (03-04)		5 items		
	VDE VDE 2180		2 items		
	ATEX	ATEX.pdf	881.0 kb	Tom Kuperij	May 10, 2004 1:36 PM
	Basic Points for Dupont's PTS for SIS	Basic Points for for Dupont's PTS for SIS.doc	281.0 kb	Tom Kuperij	Aug 27, 2008 12:59 PM
	Certified SIS need ? WIG Present from Emerson and Yokozawa	Cert SIS-MFR present.zip	1.0 MB	Tom Kuperij	Dec 1, 2004 4:44 PM
	Close-out report EU project /Nunne SIF 61508	Final SIF Report V1.pdf	751.3 kb	Tom Kuperij	Oct 12, 2004 11:39 AM
	Collection and interpret. of failure data (WIB Project 80004)	The collection and interpretation of failure data.pdf	62.5 kb	Tom Kuperij	Sep 30, 2004 12:29 PM
	Dupont "Training by role" / FS staff (Karlma, zso, macha)	Training by role.pdf	24.7 kb	Tom Kuperij	Aug 26, 2008 2:30 PM
	"Evolution of SIS": Honeywell slide: S1111	Honeywell evolutionSIS slide 11-05.ppt	971.0 kb	Tom Kuperij	Nov 11, 2005 10:53 AM
	EXIDA papers-03	EXIDA papers-03.zip	41.4 kb	Tom Kuperij	May 10, 2004 1:38 PM
	Failure action definitions-2002	Failure action definitions-2002.doc	21.5 kb	Tom Kuperij	May 10, 2004 1:38 PM
	Failure rate calculation for NQ observed failures	Failure rate for non observed failures.pdf	507.4 kb	Tom Kuperij	Oct 26, 2007 3:46 PM