

## Probabilities Analysis

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Tree : 120611 Mancato intervento sistemi di supporto.fta

Time : Mon Jun 11 10:50:20 2012

Number of primary events = 13

Number of minimal cut sets = 27

Order of minimal cut sets = 13

Unit time span = 1.000000

### Minimal cut set probabilities :

1	All-P-Wiegand MancMEGOLO NoFunzGE330 NoFunzUPS	3.852014E-015
2	All-P-Wiegand MancMEGOLO NoFunzUPS PompeIpo	3.378960E-015
3	All-P-Wiegand MancanzaCEPPO NoFunzGE330 NoFunzUPS	1.926007E-014
4	All-P-Wiegand MancanzaCEPPO NoFunzUPS PompeIpo	1.689480E-014
5	All-P-Wiegand MancanzaTERNA NoFunzGE330 NoFunzUPS	1.157294E-013
6	All-P-Wiegand MancanzaTERNA NoFunzUPS PompeIpo	1.015170E-013
7	MancMEGOLO NoFunzGE200 NoFunzGE330 NoFunzUPS	3.377921E-017
8	MancMEGOLO NoFunzGE200 NoFunzUPS PompeIpo	2.963088E-017
9	MancMEGOLO NoFunzGE330 NoFunzUPS PompaWiegand	2.963088E-017
10	MancMEGOLO NoFunzUPS PompaWiegand PompeIpo	2.599200E-017
11	MancanzaCEPPO NoFunzGE200 NoFunzGE330 NoFunzUPS	1.688960E-016
12	MancanzaCEPPO NoFunzGE200 NoFunzUPS PompeIpo	1.481544E-016

13	MancanzaCEPPO NoFunzGE330 NoFunzUPS PompaWiegand	1.481544E-016
14	MancanzaCEPPO NoFunzUPS PompaWiegand PompeIpo	1.299600E-016
15	MancanzaTERNA NoFunzGE200 NoFunzGE330 NoFunzUPS	1.014858E-015
16	MancanzaTERNA NoFunzGE200 NoFunzUPS PompeIpo	8.902260E-016
17	MancanzaTERNA NoFunzGE330 NoFunzUPS PompaWiegand	8.902260E-016
18	MancanzaTERNA NoFunzUPS PompaWiegand PompeIpo	7.808999E-016
19	All-P-Wiegand AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4 MancMEGOLO NoFunzUPS	9.650650E-019
20	All-P-Wiegand AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4 MancanzaCEPPO NoFunzUPS	4.825325E-018
21	All-P-Wiegand AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4 MancanzaTERNA NoFunzUPS	2.899427E-017
22	AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4 MancMEGOLO NoFunzGE200 NoFunzUPS	8.462877E-021
23	AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4 MancMEGOLO NoFunzUPS PompaWiegand	7.423576E-021
24	AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4 MancanzaCEPPO NoFunzGE200 NoFunzUPS	4.231439E-020
25	AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4	3.711788E-020

	MancanzaCEPPO NoFunzUPS	
	PompaWiegand	
26	AllPompaIpo1 AllPompaIpo2	2.542575E-019
	AllPompaIpo3 AllPompaIpo4	
	MancanzaTERNA NoFunzGE200	
	NoFunzUPS	
27	AllPompaIpo1 AllPompaIpo2	2.230329E-019
	AllPompaIpo3 AllPompaIpo4	
	MancanzaTERNA NoFunzUPS	
	PompaWiegand	

Probability of top level event (minimal cut sets up to order 13 used):

1 term	+2.649580E-013	= 2.649580E-013 (upper bound)
2 terms	-1.012046E-016	= 2.648568E-013 (lower bound)
3 terms	+4.837610E-020	= 2.648568E-013 (upper bound)
4 terms	-1.123395E-020	= 2.648568E-013 (lower bound)
5 terms	+2.355744E-023	= 2.648568E-013 (upper bound)
6 terms	-1.047483E-023	= 2.648568E-013 (lower bound)
7 terms	+2.817869E-024	= 2.648568E-013 (upper bound)
8 terms	-3.621721E-025	= 2.648568E-013 (lower bound)

#### Primary Event Analysis:

Event	Failure contrib.	Importance
All-P-Wiegand	2.606670E-013	98.42%
AllPompaIpo1	3.535728E-017	0.01%
AllPompaIpo2	3.535728E-017	0.01%
AllPompaIpo3	3.535728E-017	0.01%
AllPompaIpo4	3.535728E-017	0.01%
MancMEGOLO	7.350988E-015	2.78%
MancanzaCEPPO	3.675494E-014	13.88%
MancanzaTERNA	2.208521E-013	83.39%
NoFunzGE200	2.285849E-015	0.86%

NoFunzGE330	1.411270E-013	53.28%
NoFunzUPS	2.649580E-013	100.04%
PompaWiegand	2.005130E-015	0.76%
PompeIpo	1.237956E-013	46.74%