

Probabilities Analysis

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Tree : 120611 Mancato aspirazione cloro residuo celle.fta

Time : Mon Jun 11 11:37:52 2012

Number of primary events = 17

Number of minimal cut sets = 31

Order of minimal cut sets = 17

Unit time span = 1.000000

Minimal cut set probabilities :

1	AllSecondaria NoApertValv	9.750000E-005
2	AllSecondaria NoSwitchDevia	6.565000E-006
3	ManualeSecond NoApertValv	7.500000E-007
4	ManualeSecond NoSwitchDevia	5.050000E-008
5	All-P-Wiegand MancMEGOLO NoFunzGE330 NoFunzUPS	3.852014E-015
6	All-P-Wiegand MancMEGOLO NoFunzUPS PompeIpo	3.378960E-015
7	All-P-Wiegand MancanzaCEPPO NoFunzGE330 NoFunzUPS	1.926007E-014
8	All-P-Wiegand MancanzaCEPPO NoFunzUPS PompeIpo	1.689480E-014
9	All-P-Wiegand MancanzaTERNA NoFunzGE330 NoFunzUPS	1.157294E-013
10	All-P-Wiegand MancanzaTERNA NoFunzUPS PompeIpo	1.015170E-013
11	MancMEGOLO NoFunzGE200 NoFunzGE330 NoFunzUPS	3.377921E-017
12	MancMEGOLO NoFunzGE200 NoFunzUPS PompeIpo	2.963088E-017
13	MancMEGOLO NoFunzGE330 NoFunzUPS PompaWiegand	2.963088E-017
14	MancMEGOLO NoFunzUPS PompaWiegand PompeIpo	2.599200E-017

15	MancanzaCEPPO NoFunzGE200 NoFunzGE330 NoFunzUPS	1.688960E-016
16	MancanzaCEPPO NoFunzGE200 NoFunzUPS PompeIpo	1.481544E-016
17	MancanzaCEPPO NoFunzGE330 NoFunzUPS PompaWiegand	1.481544E-016
18	MancanzaCEPPO NoFunzUPS PompaWiegand PompeIpo	1.299600E-016
19	MancanzaTERNA NoFunzGE200 NoFunzGE330 NoFunzUPS	1.014858E-015
20	MancanzaTERNA NoFunzGE200 NoFunzUPS PompeIpo	8.902260E-016
21	MancanzaTERNA NoFunzGE330 NoFunzUPS PompaWiegand	8.902260E-016
22	MancanzaTERNA NoFunzUPS PompaWiegand PompeIpo	7.808999E-016
23	All-P-Wiegand AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4 MancMEGOLO NoFunzUPS	9.650650E-019
24	All-P-Wiegand AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4 MancanzaCEPPO NoFunzUPS	4.825325E-018
25	All-P-Wiegand AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4 MancanzaTERNA NoFunzUPS	2.899427E-017
26	AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4 MancMEGOLO NoFunzGE200 NoFunzUPS	8.462877E-021
27	AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4 MancMEGOLO NoFunzUPS PompaWiegand	7.423576E-021
28	AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4	4.231439E-020

	MancanzaCEPPO NoFunzGE200 NoFunzUPS	
29	AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4 MancanzaCEPPO NoFunzUPS PompaWiegand	3.711788E-020
30	AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4 MancanzaTERNA NoFunzGE200 NoFunzUPS	2.542575E-019
31	AllPompaIpo1 AllPompaIpo2 AllPompaIpo3 AllPompaIpo4 MancanzaTERNA NoFunzUPS PompaWiegand	2.230329E-019

Probability of top level event (minimal cut sets up to order 17 used):

1 term	+1.048655E-004	= 1.048655E-004 (upper bound)
2 terms	-6.003260E-008	= 1.048055E-004 (lower bound)
3 terms	+1.969500E-011	= 1.048055E-004 (upper bound)
4 terms	-4.923750E-012	= 1.048055E-004 (lower bound)
5 terms	+2.604514E-023	= 1.048055E-004 (upper bound)
6 terms	-1.047848E-023	= 1.048055E-004 (lower bound)
7 terms	+2.818969E-024	= 1.048055E-004 (upper bound)

Primary Event Analysis:

Event	Failure contrib.	Importance
All-P-Wiegand	2.606670E-013	0.00%
AllPompaIpo1	3.535728E-017	0.00%
AllPompaIpo2	3.535728E-017	0.00%
AllPompaIpo3	3.535728E-017	0.00%
AllPompaIpo4	3.535728E-017	0.00%
AllSecondaria	1.040650E-004	99.29%

MancMEGOLO	7.350988E-015	0.00%
MancanzaCEPPO	3.675494E-014	0.00%
MancanzaTERNA	2.208521E-013	0.00%
ManualeSecond	8.004999E-007	0.76%
NoApertValv	9.825000E-005	93.75%
NoFunzGE200	2.285849E-015	0.00%
NoFunzGE330	1.411270E-013	0.00%
NoFunzUPS	2.649580E-013	0.00%
NoSwitchDevia	6.615500E-006	6.31%
PompaWiegand	2.005130E-015	0.00%
PompeIpo	1.237956E-013	0.00%