

Probabilities Analysis

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Tree : 120601 Mancato spegnimento incendio durante fuori servizio.fta

Time : Fri Jun 01 08:55:44 2012

Number of primary events = 7

Number of minimal cut sets = 9

Order of minimal cut sets = 7

Unit time span = 1.000000

Minimal cut set probabilities :

1	Incendio MancMEGOLO NoAcquaCanale	3.192000E-013
2	Incendio MancMEGOLO NoMotopompa	2.599200E-013
3	Incendio MancMEGOLO NoPSXLantinc	1.151400E-013
4	Incendio MancanzaCEPPO NoAcquaCanale	1.596000E-012
5	Incendio MancanzaCEPPO NoMotopompa	1.299600E-012
6	Incendio MancanzaCEPPO NoPSXLantinc	5.757000E-013
7	Incendio MancanzaTERNA NoAcquaCanale	9.589999E-012
8	Incendio MancanzaTERNA NoMotopompa	7.808999E-012
9	Incendio MancanzaTERNA NoPSXLantinc	3.459250E-012

Probability of top level event (minimal cut sets up to order 7 used):

1 term	+2.502381E-011	= 2.502381E-011 (upper bound)
2 terms	-2.659525E-014	= 2.499721E-011 (lower bound)
3 terms	+1.777230E-017	= 2.499723E-011 (upper bound)
4 terms	-2.782326E-018	= 2.499723E-011 (lower bound)
5 terms	+4.966114E-021	= 2.499723E-011 (upper bound)
6 terms	-8.285899E-022	= 2.499723E-011 (lower bound)
7 terms	+5.166032E-025	= 2.499723E-011 (upper bound)
8 terms	-1.291508E-025	= 2.499723E-011 (lower bound)
9 terms	+1.435009E-026	= 2.499723E-011 (upper bound)

Exact value : 2.499723E-011

Primary Event Analysis:

Event	Failure contrib.	Importance
Incendio	2.502381E-011	100.11%
MancMEGOLO	6.942600E-013	2.78%
MancanzaCEPPO	3.471300E-012	13.89%
MancanzaTERNA	2.085825E-011	83.44%
NoAcquaCanale	1.150520E-011	46.03%
NoMotopompa	9.368519E-012	37.48%
NoPSXLantinc	4.150090E-012	16.60%