

Probabilities Analysis

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Tree : 120601 Mancanza acqua di rete.fta

Time : Fri Jun 01 14:42:18 2012

Number of primary events = 10

Number of minimal cut sets = 36

Order of minimal cut sets = 10

Unit time span = 1.000000

Minimal cut set probabilities :

1	GuastoIntEl1 GuastoIntEl2 GuastoPALrete	6.498038E-011
2	GuastoIntEl1 GuastoIntEl2 GuastoPTrete	2.944111E-014
3	GuastoIntEl1 GuastoIntEl2 MancIntOpAvv	4.998490E-013
4	GuastoIntEl1 GuastoIntEl2 NoAvvPompaRis	4.998490E-012
5	GuastoIntEl1 GuastoPALrete GuastoQuadEl2	1.442987E-010
6	GuastoIntEl1 GuastoPALrete RotturaPompa2	1.305122E-009
7	GuastoIntEl1 GuastoPTrete GuastoQuadEl2	6.537841E-014
8	GuastoIntEl1 GuastoPTrete RotturaPompa2	5.913207E-013
9	GuastoIntEl1 GuastoQuadEl2 MancIntOpAvv	1.109990E-012
10	GuastoIntEl1 GuastoQuadEl2 NoAvvPompaRis	1.109990E-011
11	GuastoIntEl1 MancIntOpAvv RotturaPompa2	1.003940E-011
12	GuastoIntEl1 NoAvvPompaRis RotturaPompa2	1.003940E-010

13	GuastoIntEl2 GuastoPALrete GuastoQuadEl1	1.442987E-010
14	GuastoIntEl2 GuastoPALrete RotturaPompa1	1.305122E-009
15	GuastoIntEl2 GuastoPTrete GuastoQuadEl1	6.537841E-014
16	GuastoIntEl2 GuastoPTrete RotturaPompa1	5.913207E-013
17	GuastoIntEl2 GuastoQuadEl1 MancIntOpAvv	1.109990E-012
18	GuastoIntEl2 GuastoQuadEl1 NoAvvPompaRis	1.109990E-011
19	GuastoIntEl2 MancIntOpAvv RotturaPompa1	1.003940E-011
20	GuastoIntEl2 NoAvvPompaRis RotturaPompa1	1.003940E-010
21	GuastoPALrete GuastoQuadEl1 GuastoQuadEl2	3.204370E-010
22	GuastoPALrete GuastoQuadEl1 RotturaPompa2	2.898220E-009
23	GuastoPALrete GuastoQuadEl2 RotturaPompa1	2.898220E-009
24	GuastoPALrete RotturaPompa1 RotturaPompa2	2.621320E-008
25	GuastoPTrete GuastoQuadEl1 GuastoQuadEl2	1.451826E-013
26	GuastoPTrete GuastoQuadEl1 RotturaPompa2	1.313117E-012
27	GuastoPTrete GuastoQuadEl2 RotturaPompa1	1.313117E-012
28	GuastoPTrete RotturaPompa1 RotturaPompa2	1.187660E-011
29	GuastoQuadEl1 GuastoQuadEl2 MancIntOpAvv	2.464900E-012
30	GuastoQuadEl1 GuastoQuadEl2 NoAvvPompaRis	2.464900E-011
31	GuastoQuadEl1 MancIntOpAvv RotturaPompa2	2.229400E-011

32	GuastoQuadEl1 NoAvvPompaRis RotturaPompa2	2.229400E-010
33	GuastoQuadEl2 MancIntOpAvv RotturaPompa1	2.229400E-011
34	GuastoQuadEl2 NoAvvPompaRis RotturaPompa1	2.229400E-010
35	MancIntOpAvv RotturaPompa1 RotturaPompa2	2.016400E-010
36	NoAvvPompaRis RotturaPompa1 RotturaPompa2	2.016400E-009

Probability of top level event (minimal cut sets up to order 10 used):

1 term	+3.829630E-008	= 3.829630E-008 (upper bound)
2 terms	-5.490133E-011	= 3.824140E-008 (lower bound)
3 terms	+7.471622E-014	= 3.824147E-008 (upper bound)
4 terms	-1.767211E-014	= 3.824145E-008 (lower bound)
5 terms	+1.054673E-016	= 3.824145E-008 (upper bound)
6 terms	-4.804720E-017	= 3.824145E-008 (lower bound)

Primary Event Analysis:

Event	Failure contrib.	Importance
GuastoIntEl1	1.643229E-009	4.30%
GuastoIntEl2	1.643229E-009	4.30%
GuastoPALrete	3.529390E-008	92.29%
GuastoPTrete	1.599085E-011	0.04%
GuastoQuadEl1	3.649037E-009	9.54%
GuastoQuadEl2	3.649037E-009	9.54%
MancIntOpAvv	2.714915E-010	0.71%
NoAvvPompaRis	2.714915E-009	7.10%
RotturaPompa1	3.300403E-008	86.30%
RotturaPompa2	3.300403E-008	86.30%