

Probabilities Analysis

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Tree : 120601 Riduzione disponibilita acqua di rete.fta

Time : Fri Jun 01 11:23:26 2012

Number of primary events = 10

Number of minimal cut sets = 24

Order of minimal cut sets = 10

Unit time span = 1.000000

Minimal cut set probabilities :

1	GuastoIntEl1 GuastoPALrete	9.191000E-007
2	GuastoIntEl1 GuastoPTrete	4.164230E-010
3	GuastoIntEl1 MancIntOpAvv	7.070000E-009
4	GuastoIntEl1 NoAvvPompaRis	7.070000E-008
5	GuastoIntEl2 GuastoPALrete	9.191000E-007
6	GuastoIntEl2 GuastoPTrete	4.164230E-010
7	GuastoIntEl2 MancIntOpAvv	7.070000E-009
8	GuastoIntEl2 NoAvvPompaRis	7.070000E-008
9	GuastoPALrete GuastoQuadEl1	2.041000E-006
10	GuastoPALrete GuastoQuadEl2	2.041000E-006
11	GuastoPALrete RotturaPompa1	1.846000E-005
12	GuastoPALrete RotturaPompa2	1.846000E-005
13	GuastoPTrete GuastoQuadEl1	9.247300E-010
14	GuastoPTrete GuastoQuadEl2	9.247300E-010
15	GuastoPTrete RotturaPompa1	8.363800E-009
16	GuastoPTrete RotturaPompa2	8.363800E-009
17	GuastoQuadEl1 MancIntOpAvv	1.570000E-008
18	GuastoQuadEl1 NoAvvPompaRis	1.570000E-007
19	GuastoQuadEl2 MancIntOpAvv	1.570000E-008
20	GuastoQuadEl2 NoAvvPompaRis	1.570000E-007
21	MancIntOpAvv RotturaPompa1	1.420000E-007
22	MancIntOpAvv RotturaPompa2	1.420000E-007
23	NoAvvPompaRis RotturaPompa1	1.420000E-006
24	NoAvvPompaRis RotturaPompa2	1.420000E-006

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

1 term	+4.648456E-005	= 4.648456E-005 (upper bound)
2 terms	-9.555671E-008	= 4.638900E-005 (lower bound)
3 terms	+2.167105E-010	= 4.638922E-005 (upper bound)
4 terms	-4.926309E-011	= 4.638917E-005 (lower bound)
5 terms	+1.268420E-013	= 4.638917E-005 (upper bound)
6 terms	-2.128394E-014	= 4.638917E-005 (lower bound)
7 terms	+7.585859E-017	= 4.638917E-005 (upper bound)
8 terms	-1.663875E-017	= 4.638917E-005 (lower bound)

Primary Event Analysis:

Event	Failure contrib.	Importance
GuastoIntEl1	9.972865E-007	2.15%
GuastoIntEl2	9.972865E-007	2.15%
GuastoPALrete	4.284020E-005	92.35%
GuastoPTrete	1.940991E-008	0.04%
GuastoQuadEl1	2.214625E-006	4.77%
GuastoQuadEl2	2.214625E-006	4.77%
MancIntOpAvv	3.295400E-007	0.71%
NoAvvPompaRis	3.295400E-006	7.10%
RotturaPompa1	2.003036E-005	43.18%
RotturaPompa2	2.003036E-005	43.18%