

## FTA Minimal Cutset Analysis

### 1. Violation of the SG01:

Results from Isograph			Comments
No.	Q	Minimal cut set	From the fault tree analysis related to the SG01 violation the following results have been obtained: <ul style="list-style-type: none"> <li>- 1 Single Point Failure (order = 1)</li> <li>- 14 Multiple Point Failures (order = 2)</li> </ul>
1	0	EV247	
2	0	EV254.EV252	
3	0	EV4.EV16	
4	0	EV4.EV14	
5	0	EV254.EV253	
6	0	EV257.EV259	
7	0	EV257.EV258	
8	0	EV1.EV2	
9	0	EV237.EV238	
10	0	EV235.EV236	
11	0	EV233.EV234	
12	0	EV245.EV246	
13	0	EV23.EV22	
14	0	EV17.EV20	
15	0	EV17.EV18	

### 2. Violation of the SG02:

Results from Isograph			Comments
No.	Q	Minimal cut set	From the fault tree analysis related to the SG02 violation the following results have been obtained: <ul style="list-style-type: none"> <li>- 1 Single Point Failure (order = 1)</li> <li>- 14 Multiple Point Failures (order = 2)</li> </ul>
1	0	EV325	
2	0	EV316.EV315	
3	0	EV309.EV311	
4	0	EV309.EV310	
5	0	EV335.EV336	
6	0	EV335.EV337	
7	0	EV332.EV330	
8	0	EV332.EV331	
9	0	EV319.EV320	
10	0	EV317.EV318	
11	0	EV286.EV287	
12	0	EV321.EV322	
13	0	EV312.EV314	
14	0	EV312.EV313	
15	0	EV323.EV324	

### 3. Violation of the SG03:

Results from Isograph			Comments
No.	Q	Minimal cut set	<p>From the fault tree analysis related to the SG03 violation the following results have been obtained:</p> <ul style="list-style-type: none"> <li>- 8 Single Point Failure (order = 1)</li> <li>- 11 Multiple Point Failures (order = 2)</li> </ul>
1	0	EV138	
2	0	EV136	
3	0	EV139	
4	0	EV131	
5	0	EV156	
6	0	EV155	
7	0	EV158	
8	0	EV157	
9	0	EV167.EV162	
10	0	EV164.EV161	
11	0	EV164.EV160	
12	0	EV167.EV161	
13	0	EV167.EV160	
14	0	EV167.EV163	
15	0	EV159.EV160	
16	0	EV159.EV163	
17	0	EV159.EV162	
18	0	EV164.EV163	
19	0	EV164.EV162	
20	0	EV159.EV161	

### 4. Violation of the SG04:

Results from Isograph			Comments
No.	Q	Minimal cut set	<p>From the fault tree analysis related to the SG04 violation the following results have been obtained:</p> <ul style="list-style-type: none"> <li>- 8 Single Point Failure (order = 1)</li> <li>- 11 Multiple Point Failures (order = 2)</li> </ul>
1	0	EV173	
2	0	EV172	
3	0	EV174	
4	0	EV170	
5	0	EV156	
6	0	EV155	
7	0	EV176	
8	0	EV175	
9	0	EV183.EV180	
10	0	EV182.EV179	
11	0	EV182.EV178	
12	0	EV183.EV179	
13	0	EV183.EV178	
14	0	EV183.EV181	
15	0	EV177.EV178	
16	0	EV177.EV181	
17	0	EV177.EV180	
18	0	EV182.EV181	
19	0	EV182.EV180	
20	0	EV177.EV179	

### 5. Violation of the SG05:

Results from Isograph			Comments
No.	Q	Minimal cut set	<p>From the fault tree analysis related to the SG05 violation the following results have been obtained:</p> <ul style="list-style-type: none"> <li>- 10 Single Point Failure (order = 1)</li> <li>- 13 Multiple Point Failures (order = 2)</li> </ul>
1	0	EV185	
2	0	EV378	
3	0	EV363	
4	0	EV381	
5	0	EV382	
6	0	EV377	
7	0	EV373	
8	0	EV356	
9	0	EV374	
10	0	EV184	
11	0	EV347.EV346	
12	0	EV383.EV384	
13	0	EV366.EV368	
14	0	EV366.EV367	
15	0	EV371.EV372	
16	0	EV350.EV351	
17	0	EV352.EV353	
18	0	EV379.EV380	
19	0	EV348.EV349	
20	0	EV343.EV344	
21	0	EV343.EV345	
22	0	EV375.EV376	
23	0	EV354.EV355	

### 6. Violation of the SG06:

Results from Isograph			Comments
No.	Q	Minimal cut set	<p>From the fault tree analysis related to the SG06 violation the following results have been obtained:</p> <ul style="list-style-type: none"> <li>- 10 Single Point Failure (order = 1)</li> <li>- 13 Multiple Point Failures (order = 2)</li> </ul>
1	0	EV414	
2	0	EV415	
3	0	EV407	
4	0	EV408	
5	0	EV419	
6	0	EV420	
7	0	EV416	
8	0	EV413	
9	0	EV398	
10	0	EV401	
11	0	EV394.EV395	
12	0	EV396.EV397	
13	0	EV390.EV391	
14	0	EV392.EV393	
15	0	EV421.EV422	
16	0	EV417.EV418	
17	0	EV385.EV387	
18	0	EV389.EV388	
19	0	EV409.EV410	
20	0	EV385.EV386	
21	0	EV411.EV412	
22	0	EV402.EV404	
23	0	EV402.EV403	