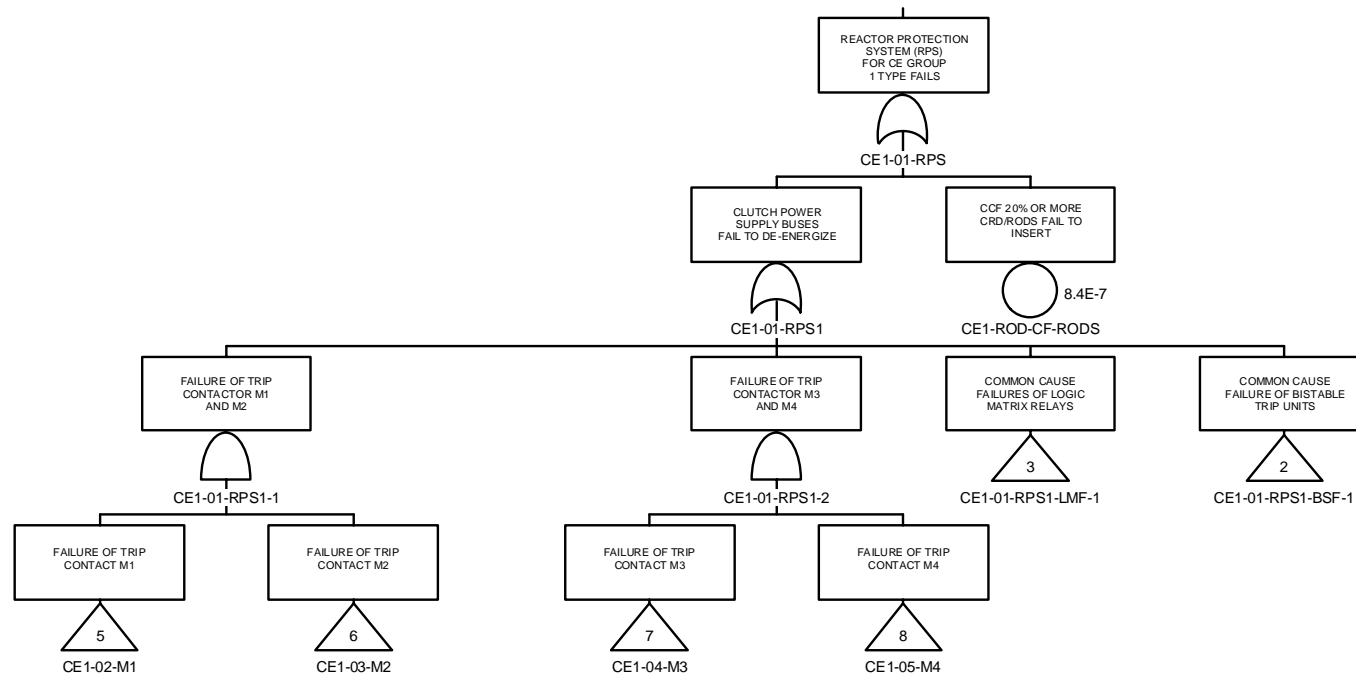


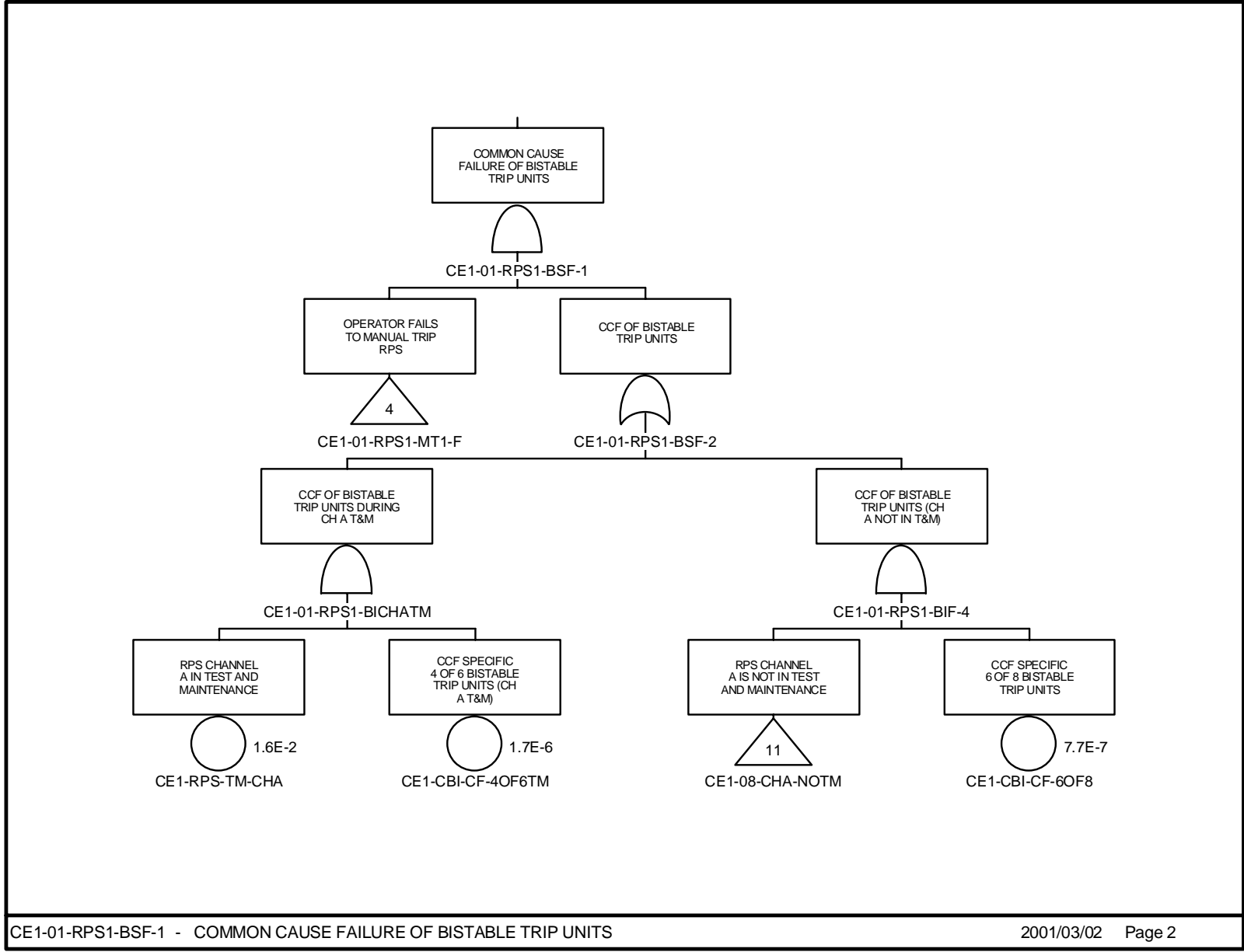
Combustion Engineering RPS Fault Trees

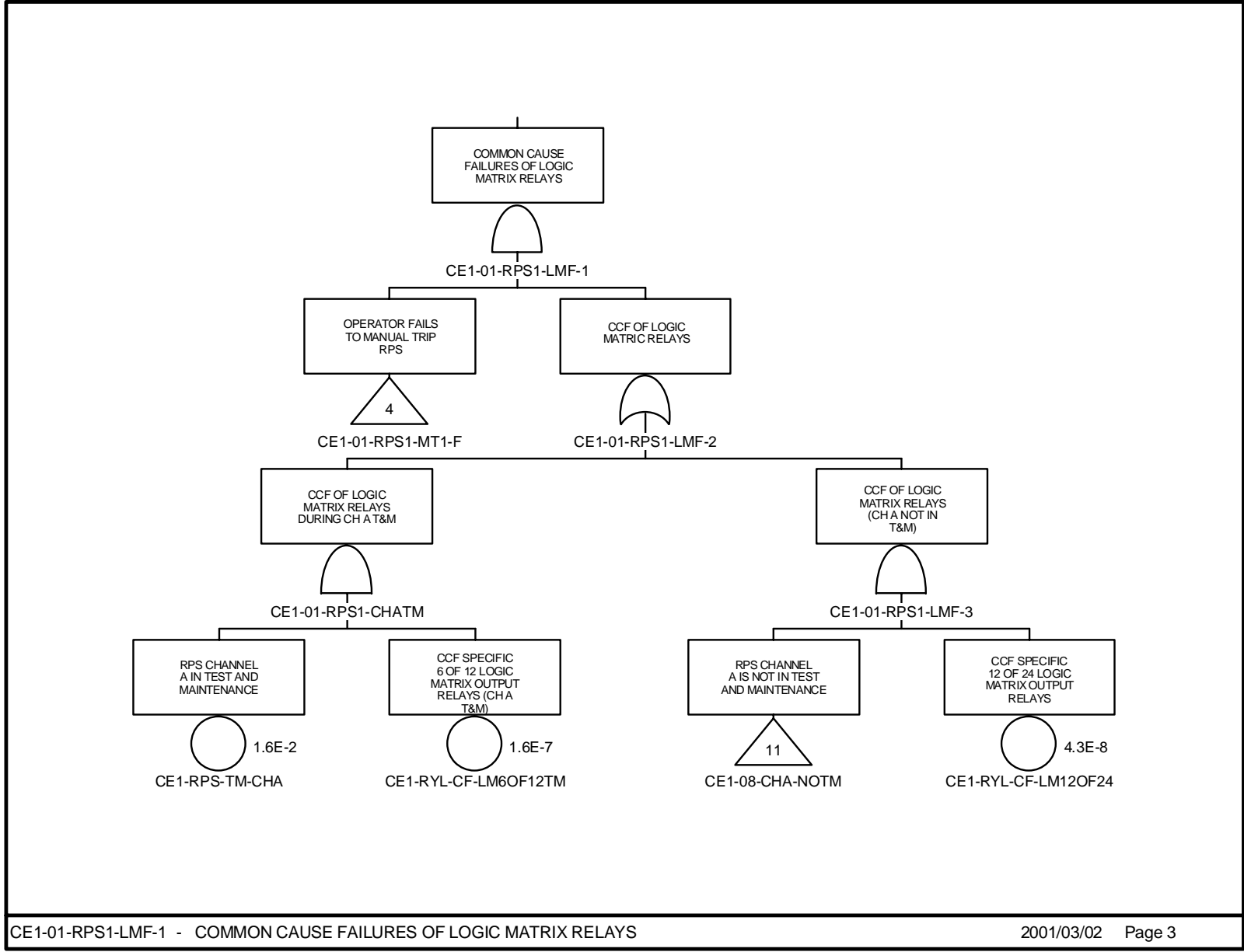
This appendix presents the reactor protection system (RPS) fault trees representing the Combustion Engineering RPS designs. The number near the bottom of transfer gates indicates the fault tree page number (shown in the lower right corner of the fault tree border) where the logic is transferred.

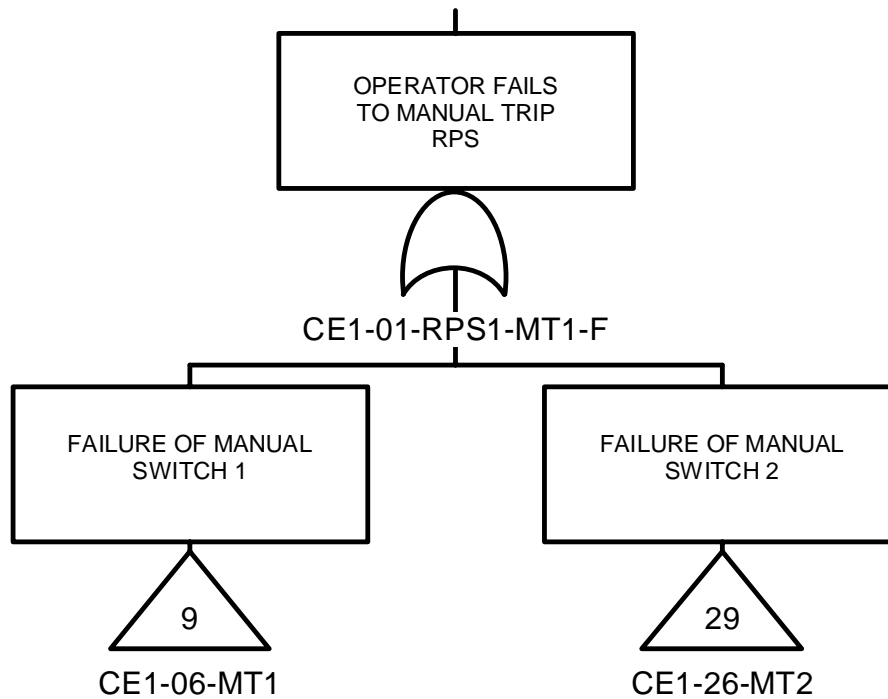
| | |
|---|-------|
| Combustion Engineering RPS Group 1 Model..... | D-3 |
| Combustion Engineering RPS Group 2 Model..... | D-46 |
| Combustion Engineering RPS Group 3 Model..... | D-99 |
| Combustion Engineering RPS Group 4 Model..... | D-152 |

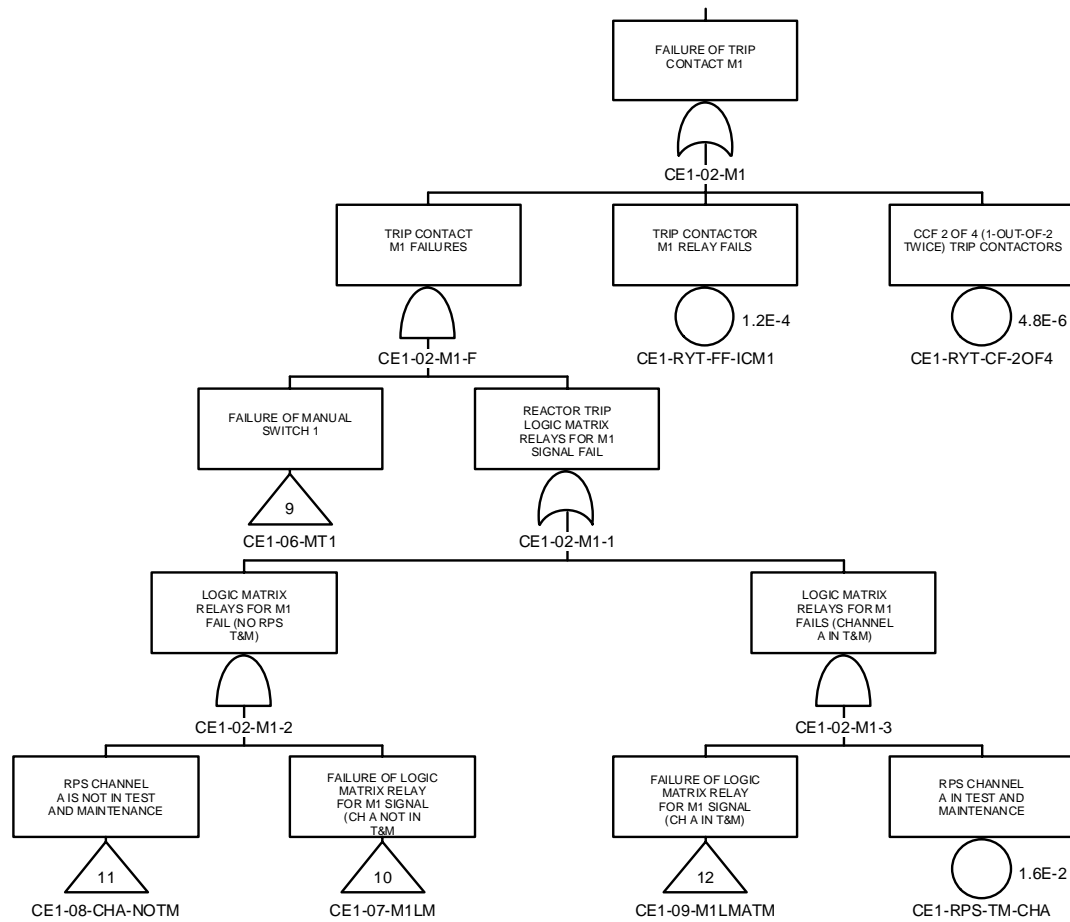
COMBUSTION ENGINEERING RPS GROUP 1 MODEL

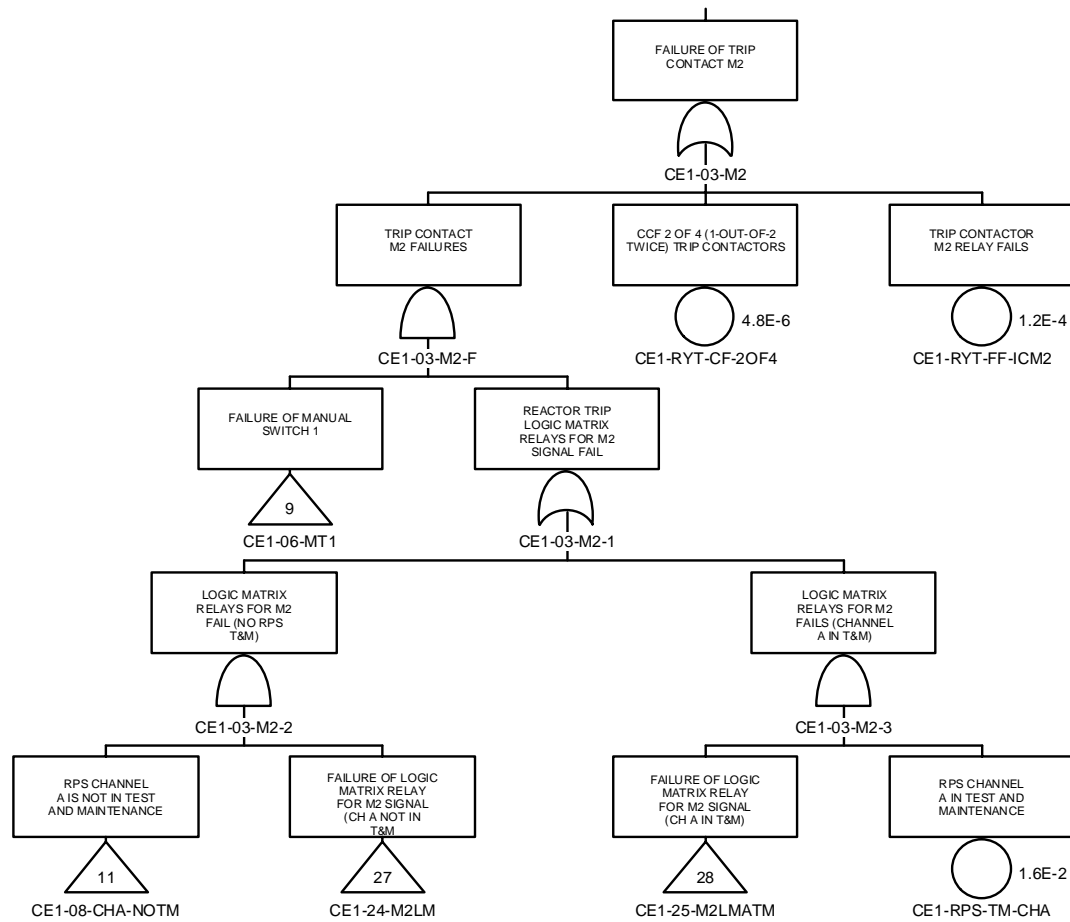


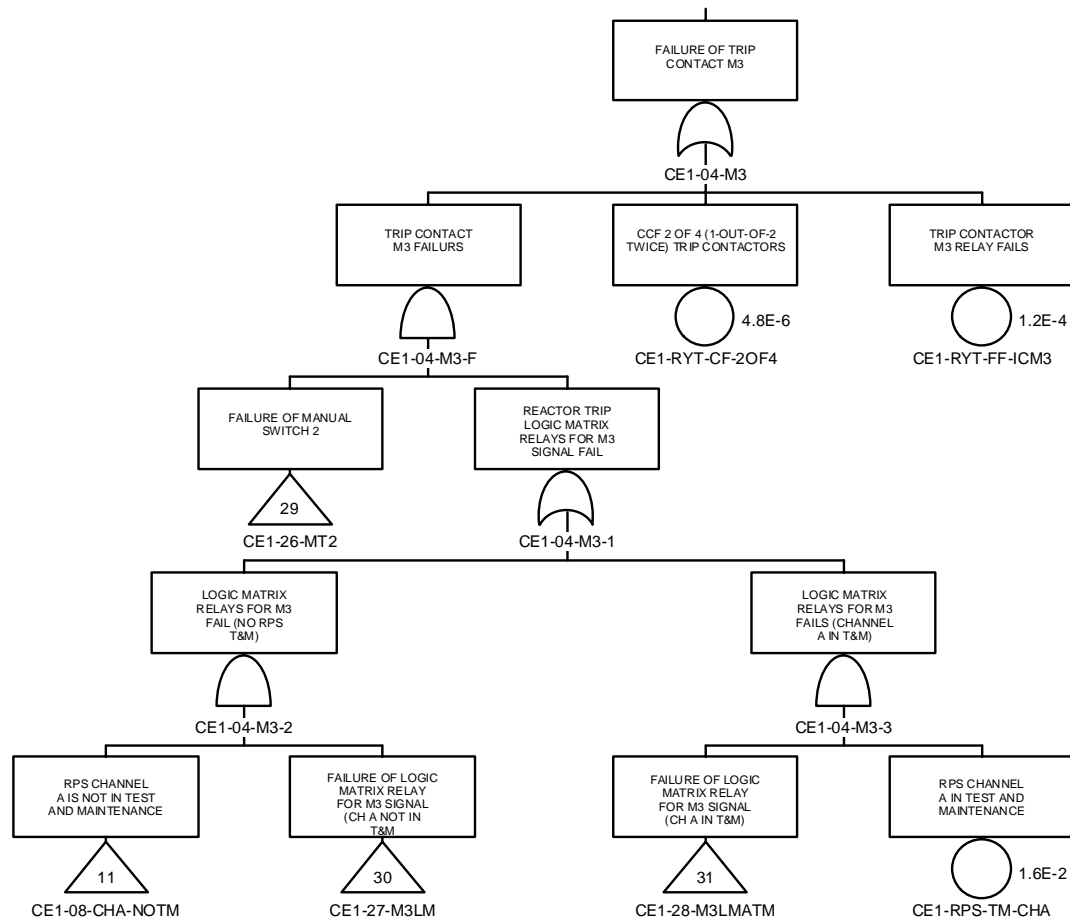


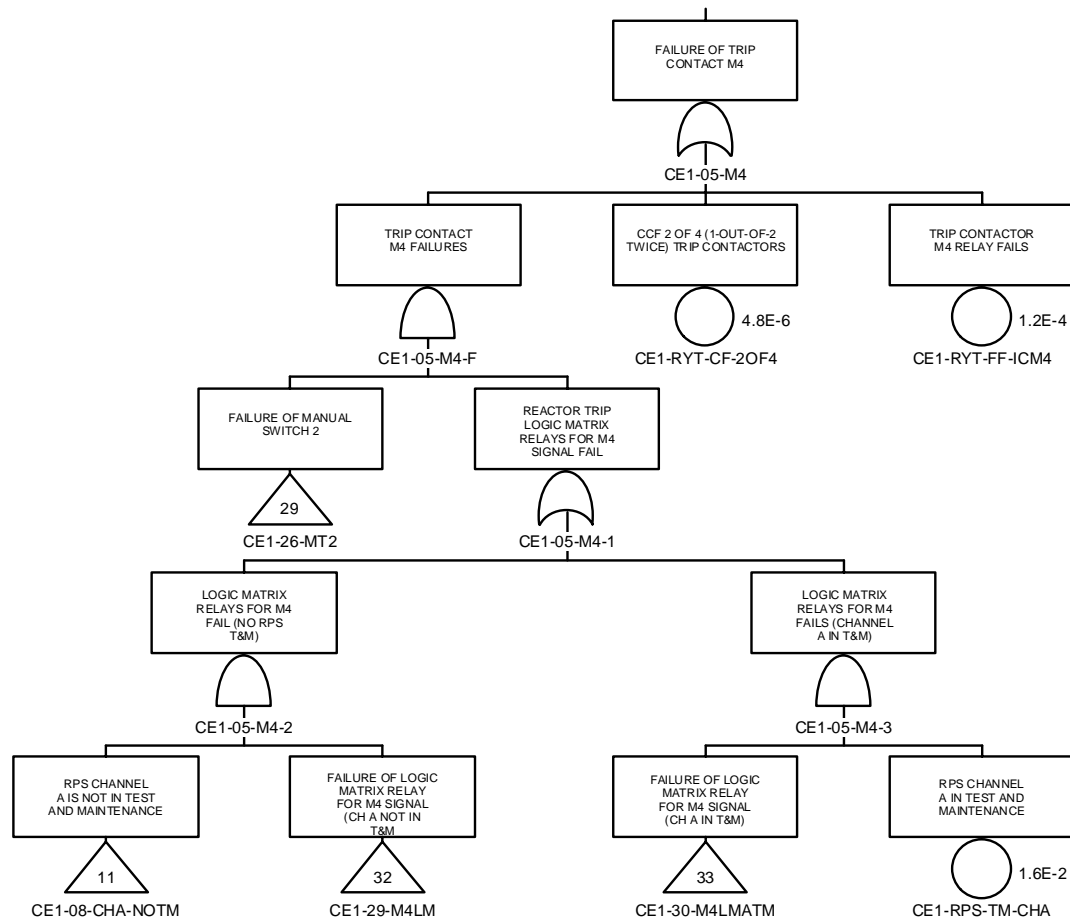


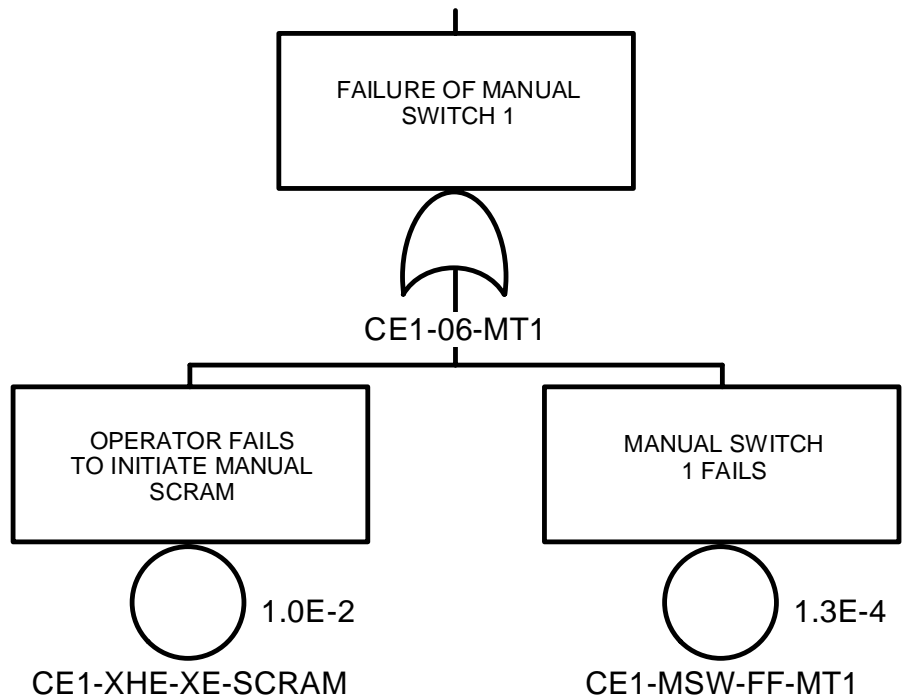


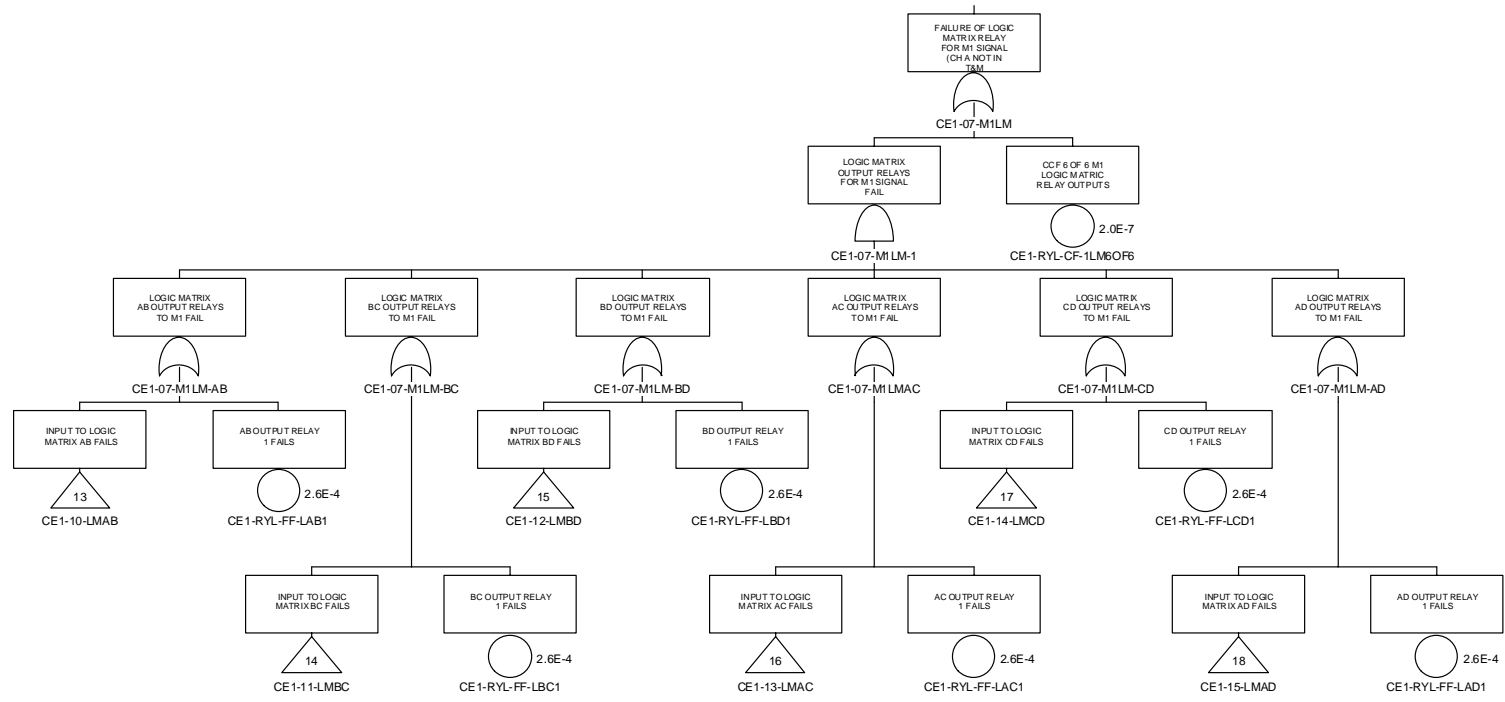


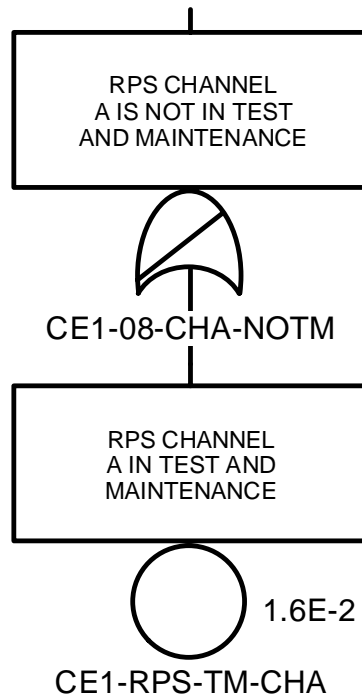


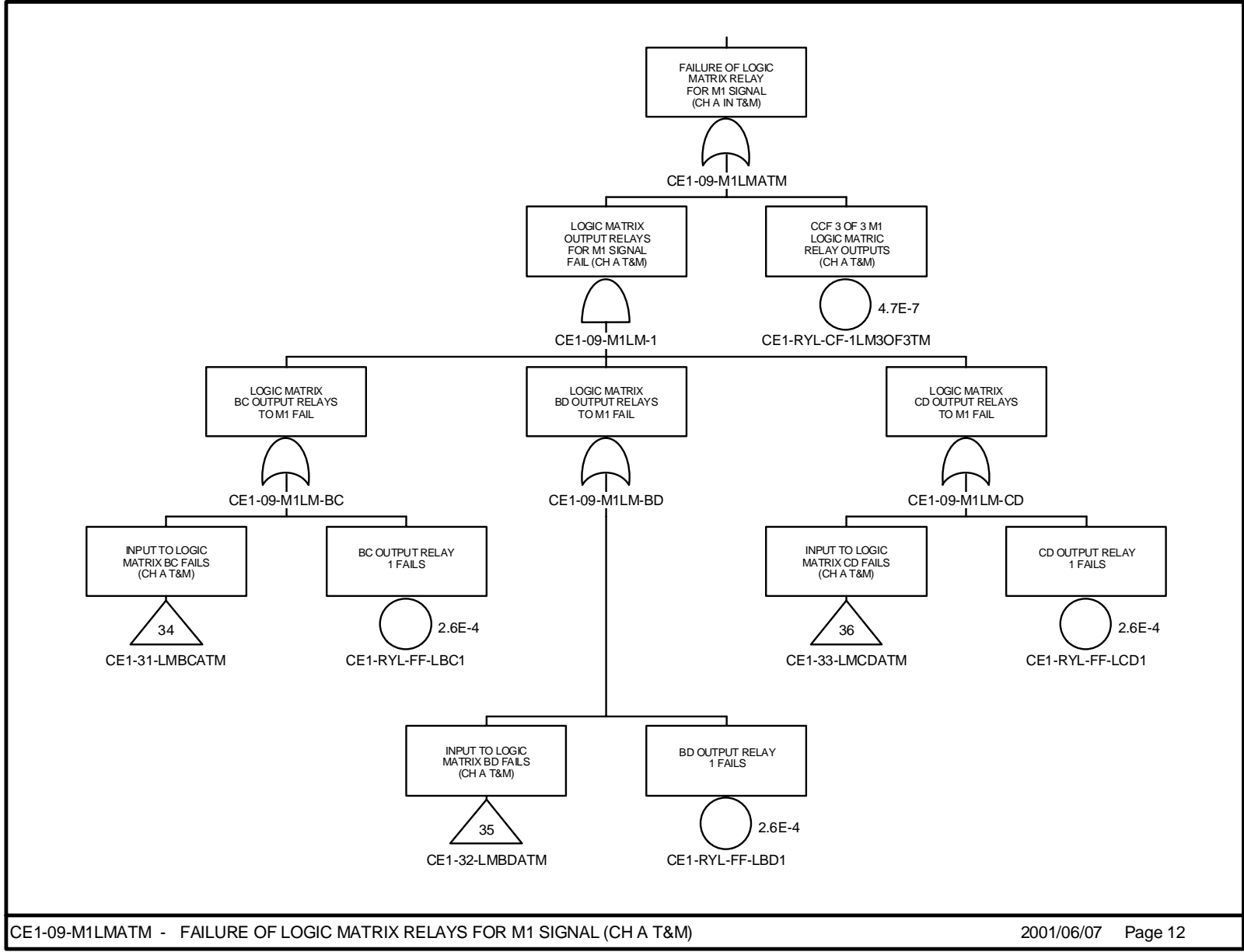


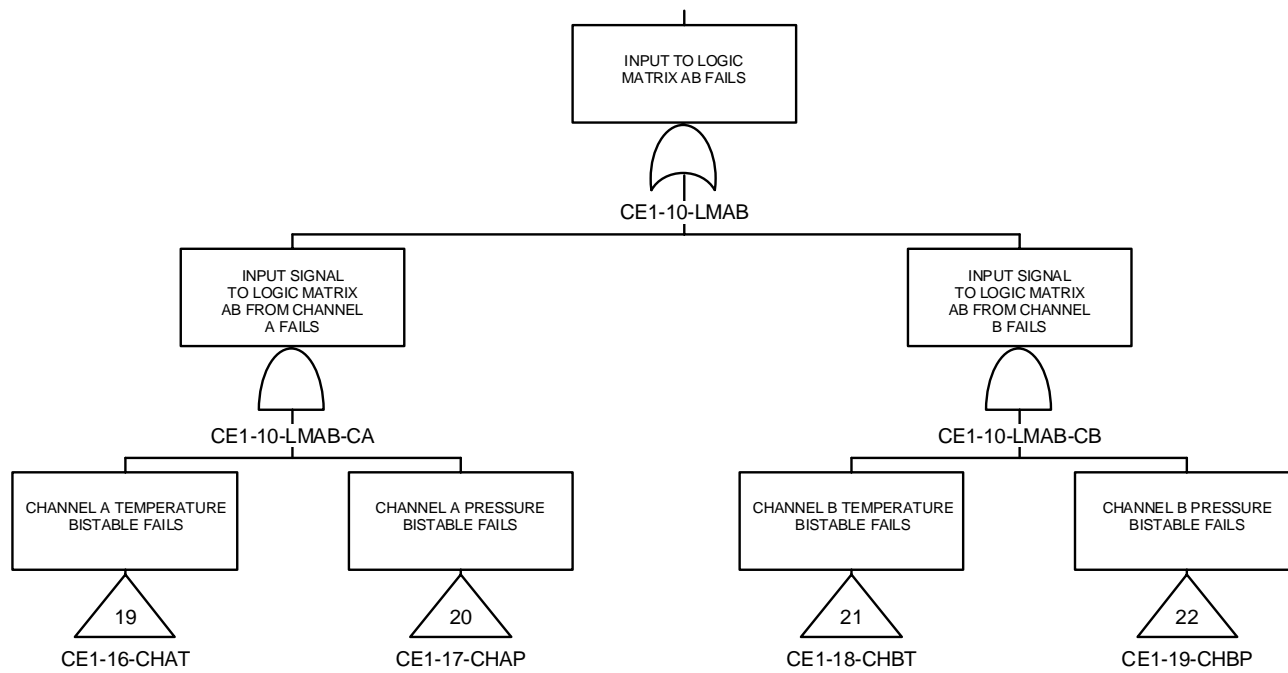


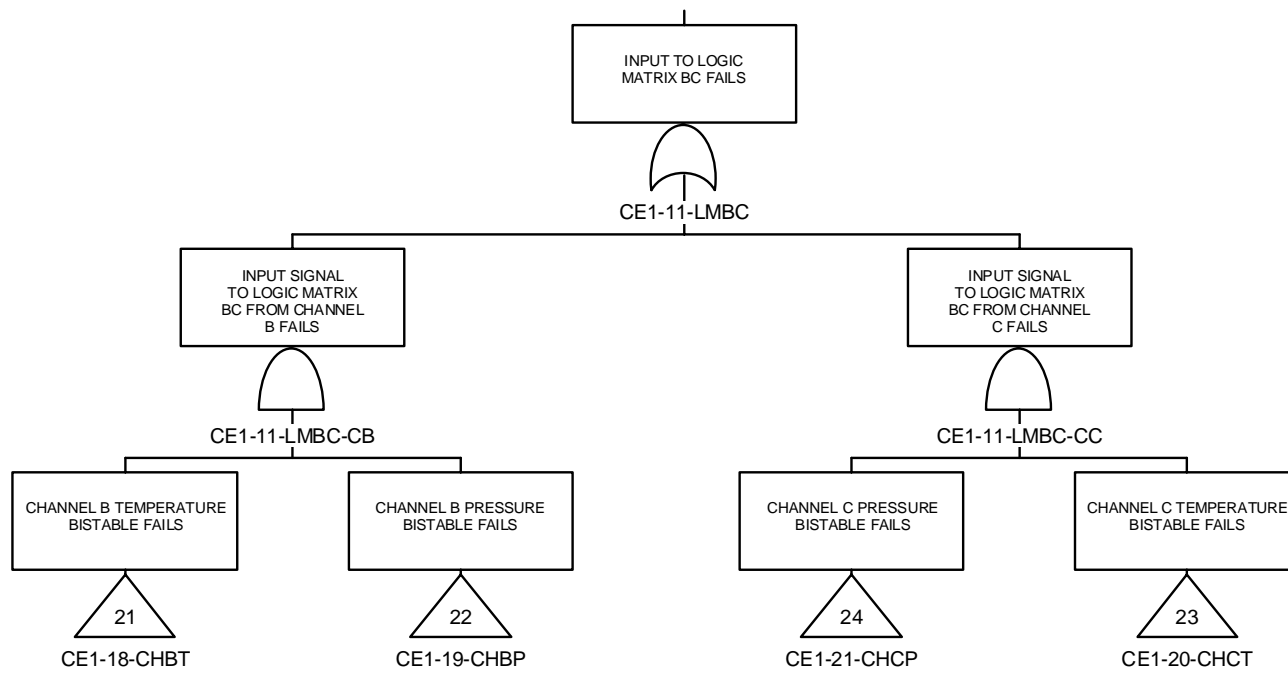


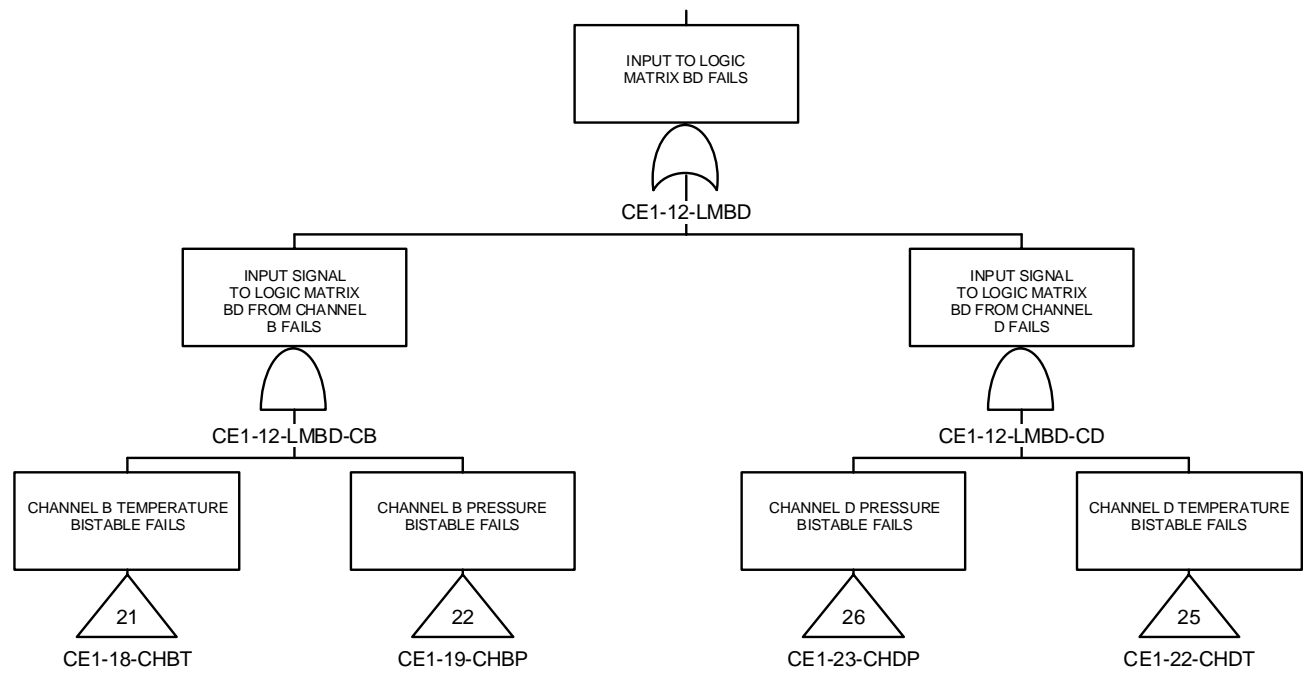


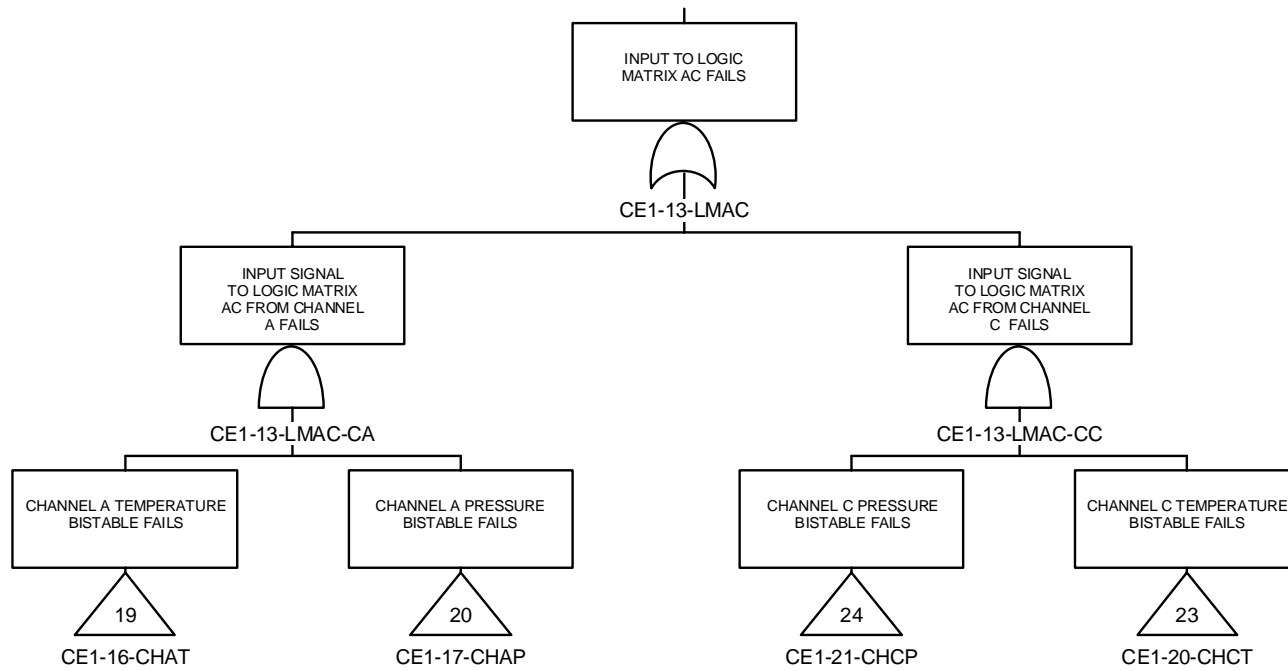


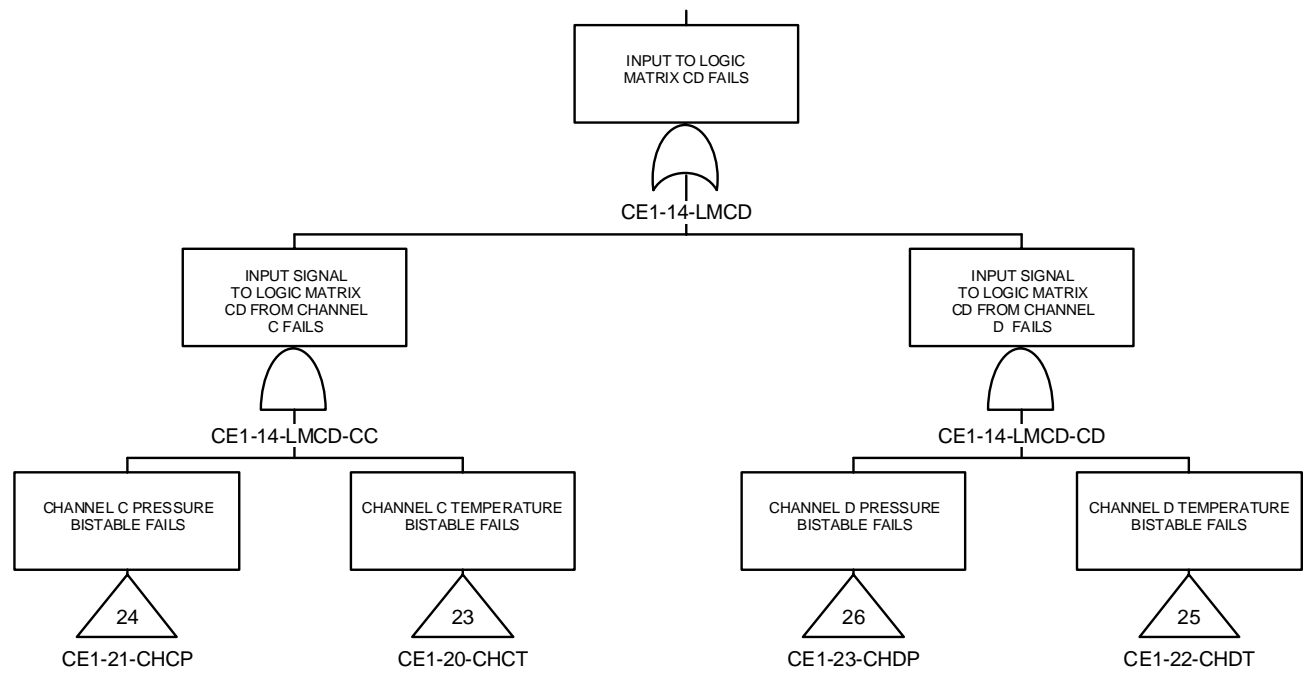


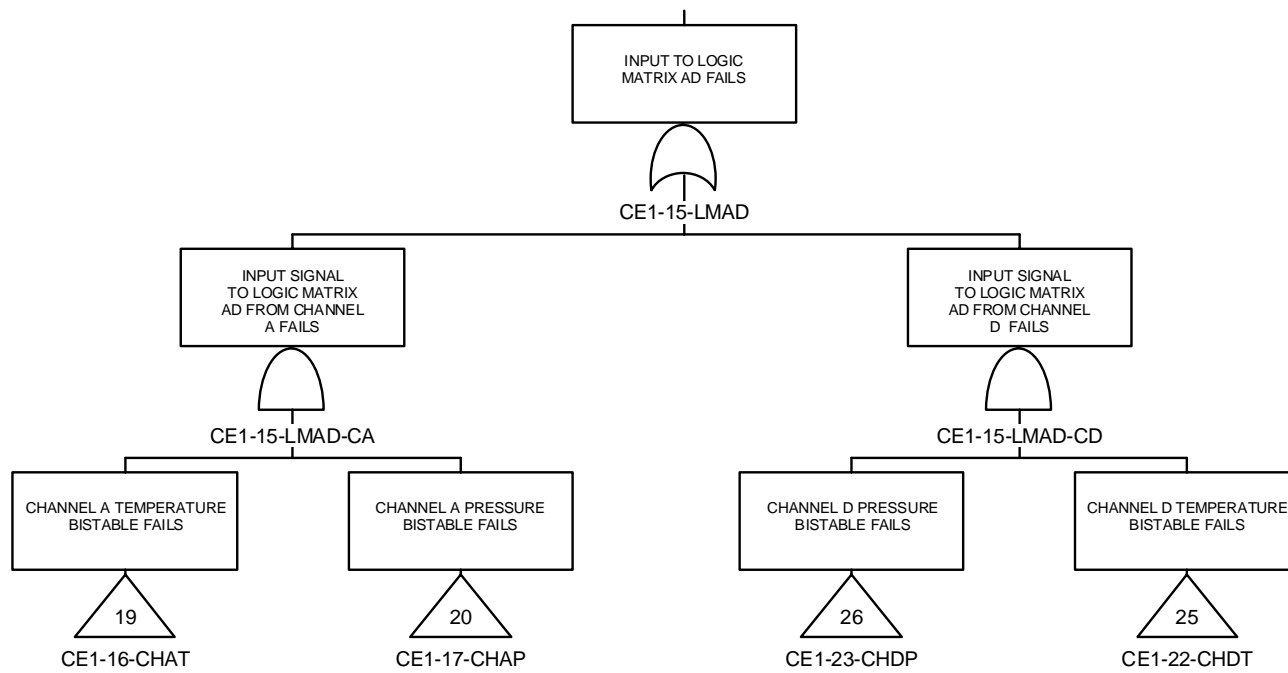


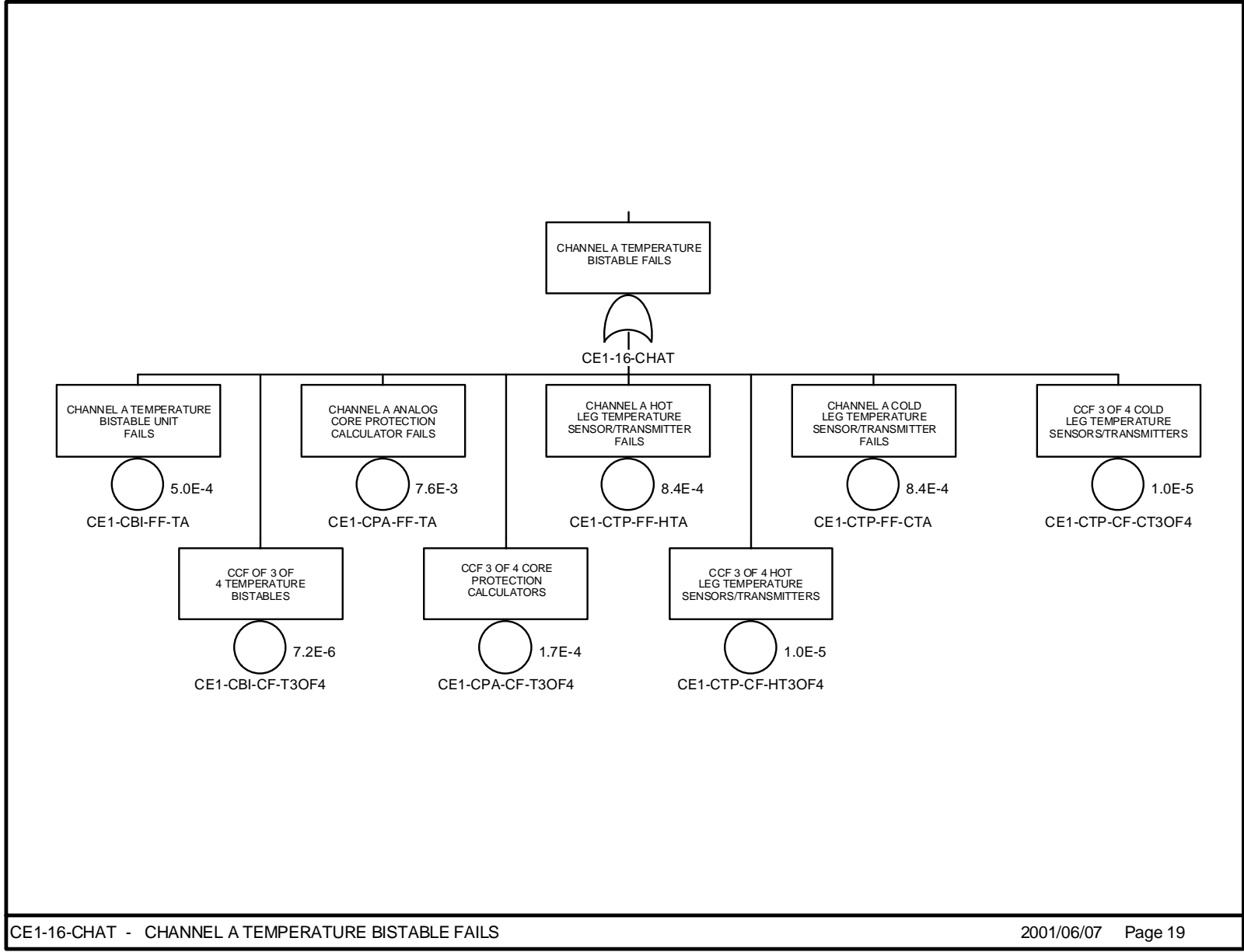


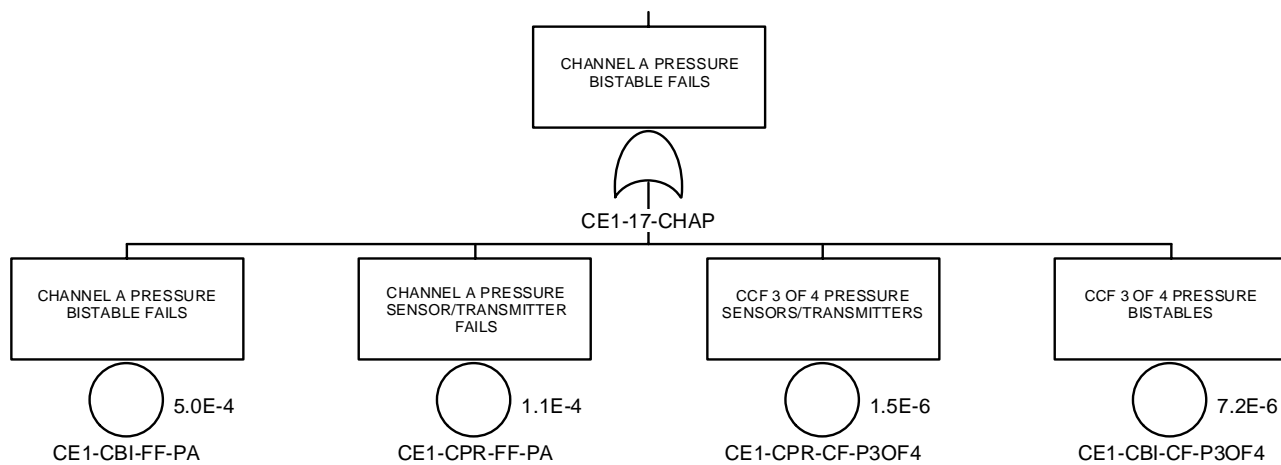


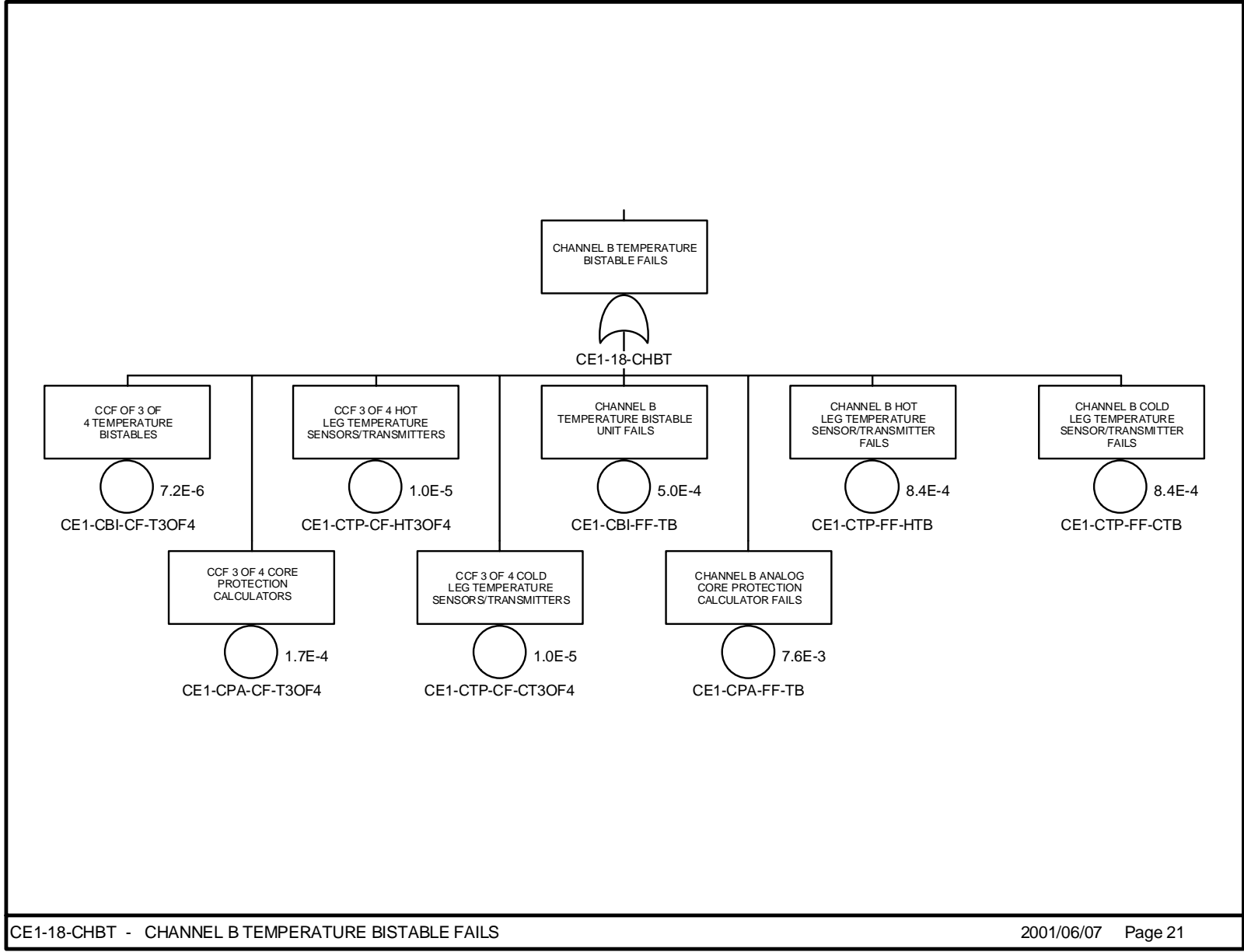


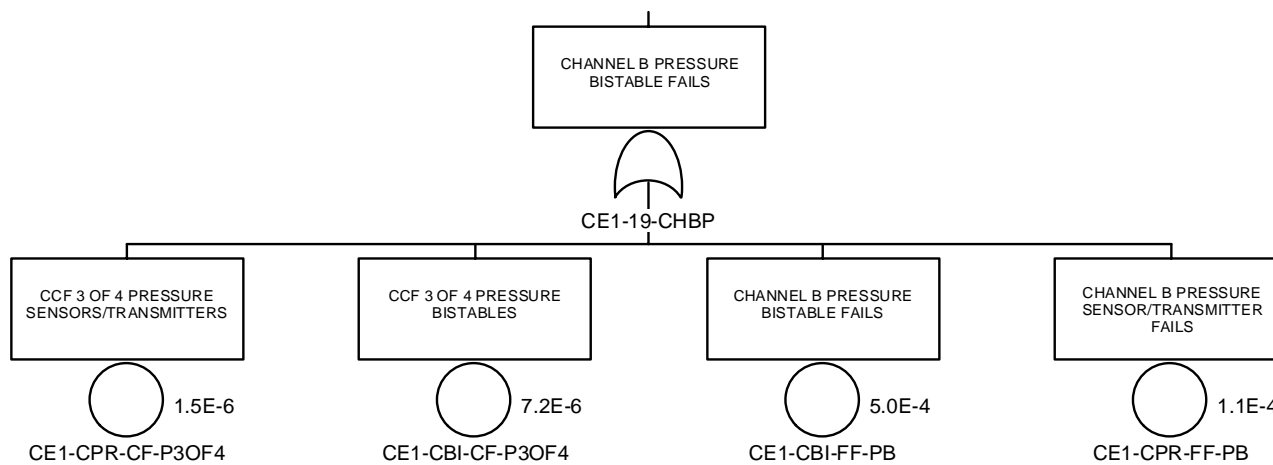


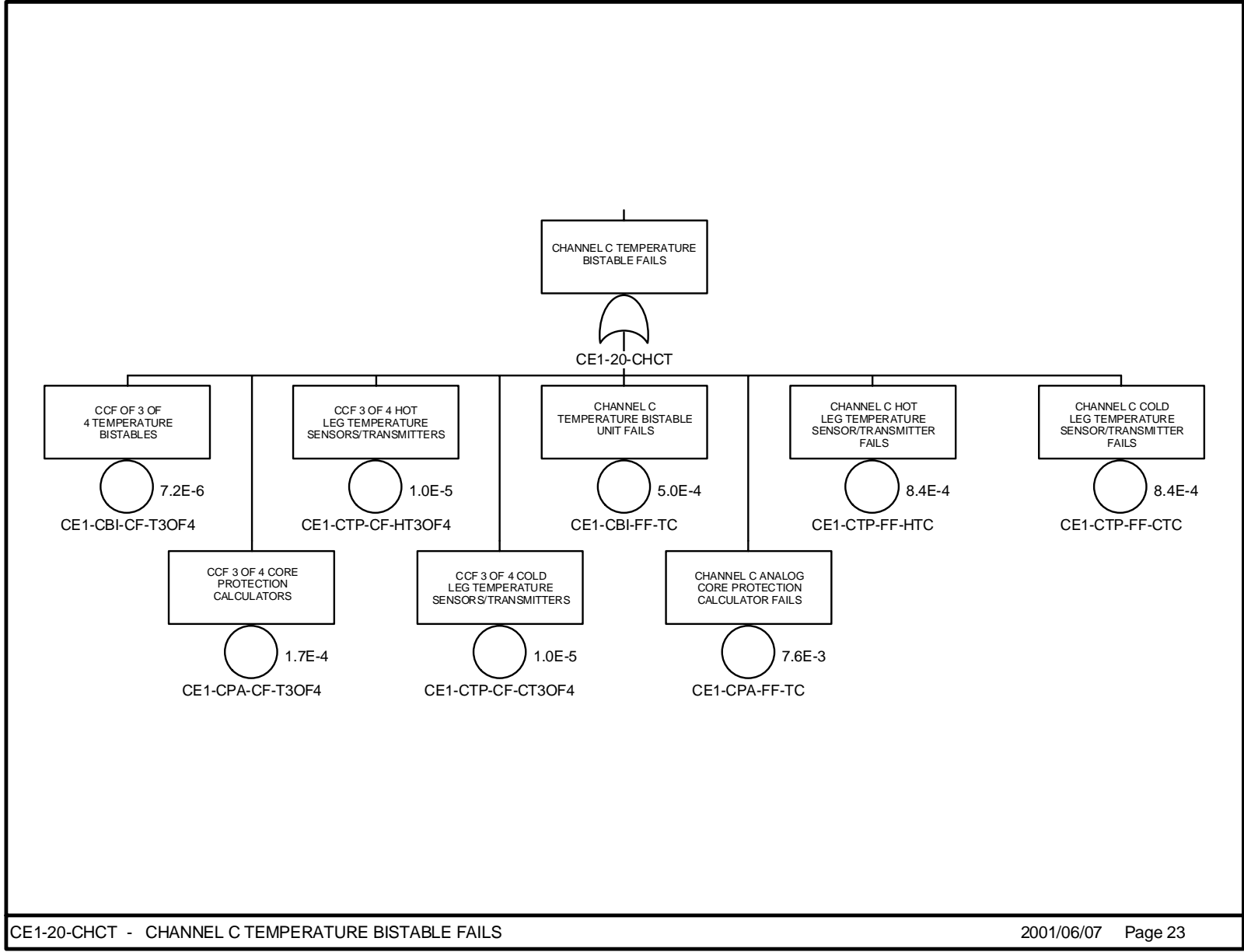


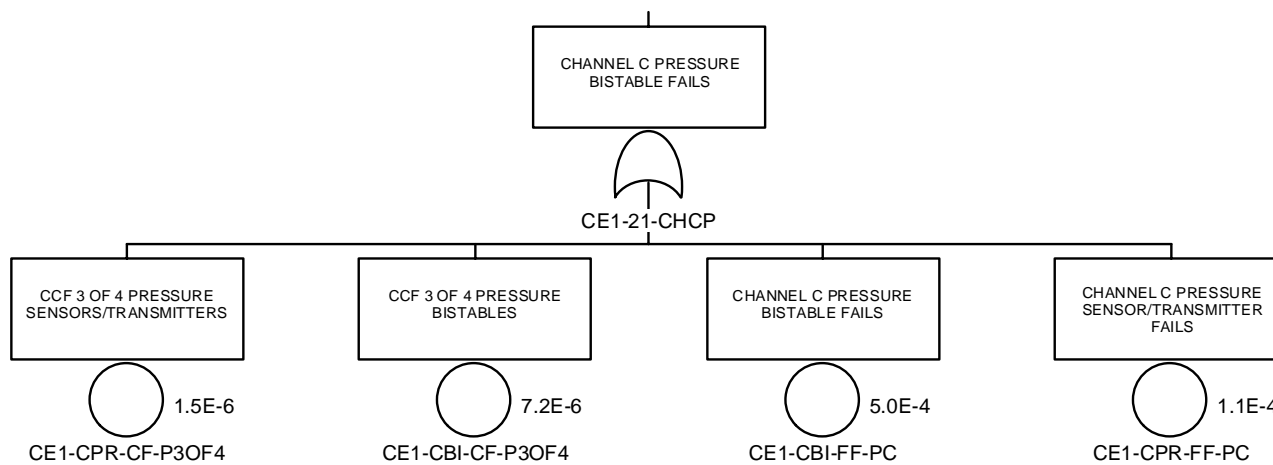


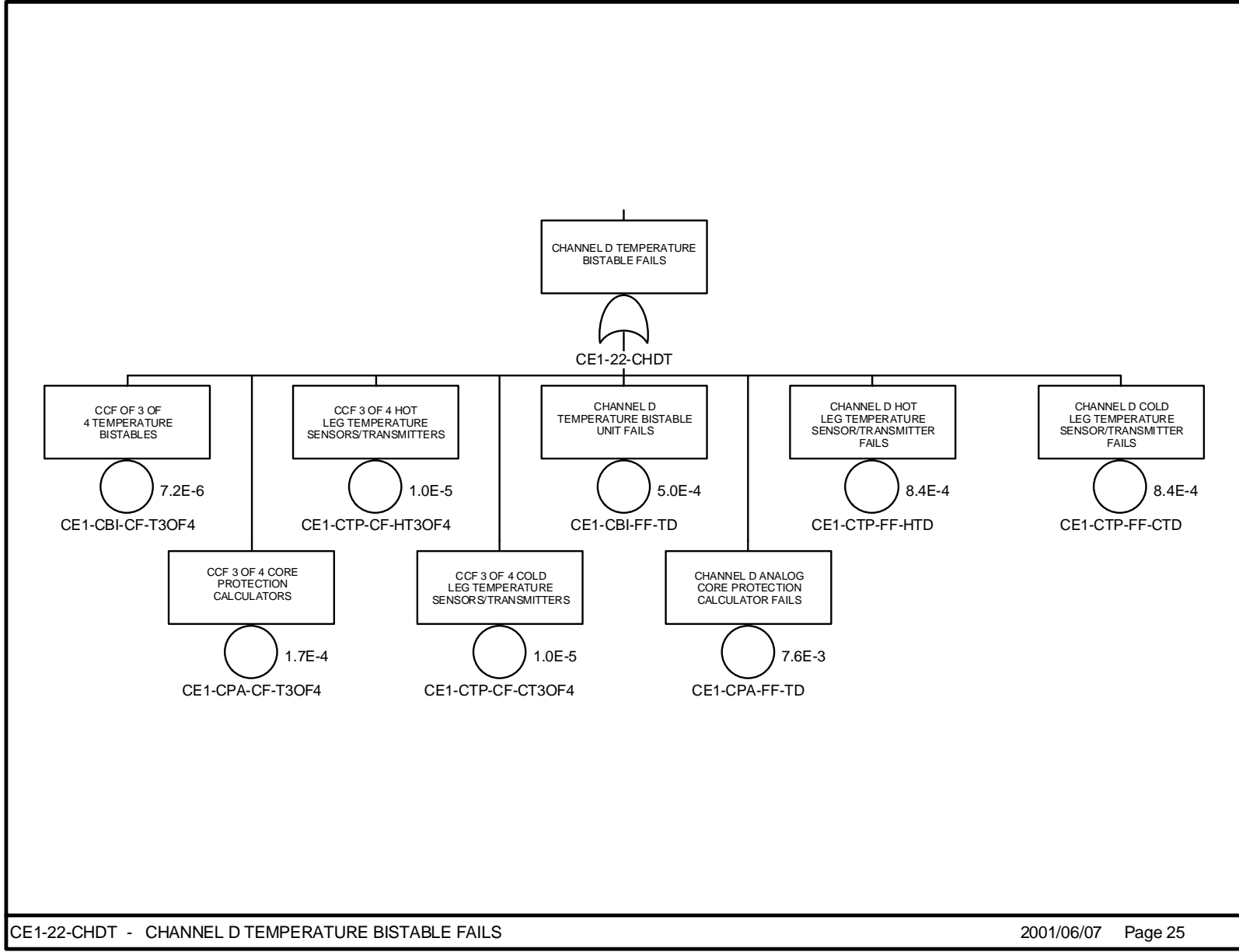


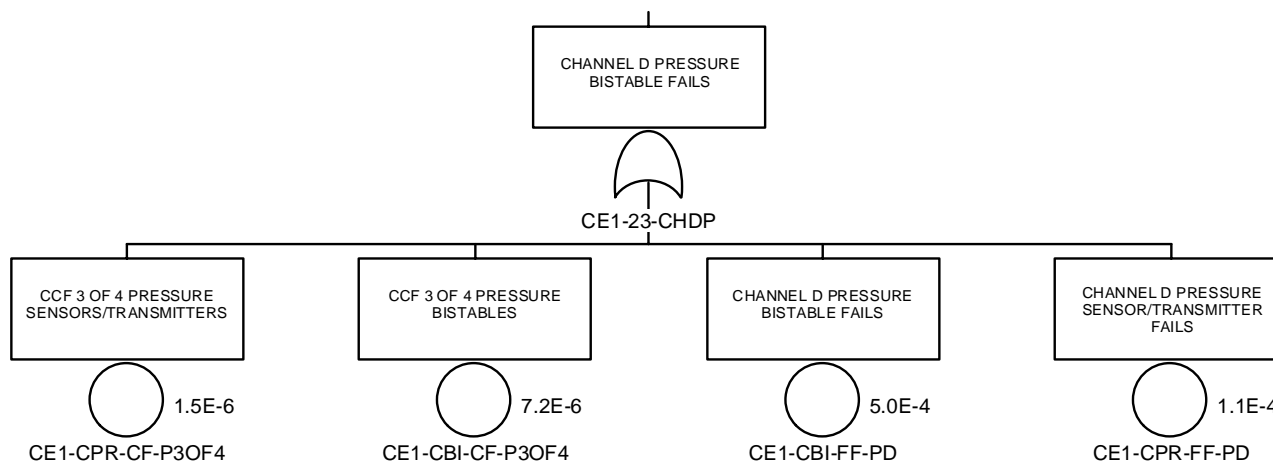


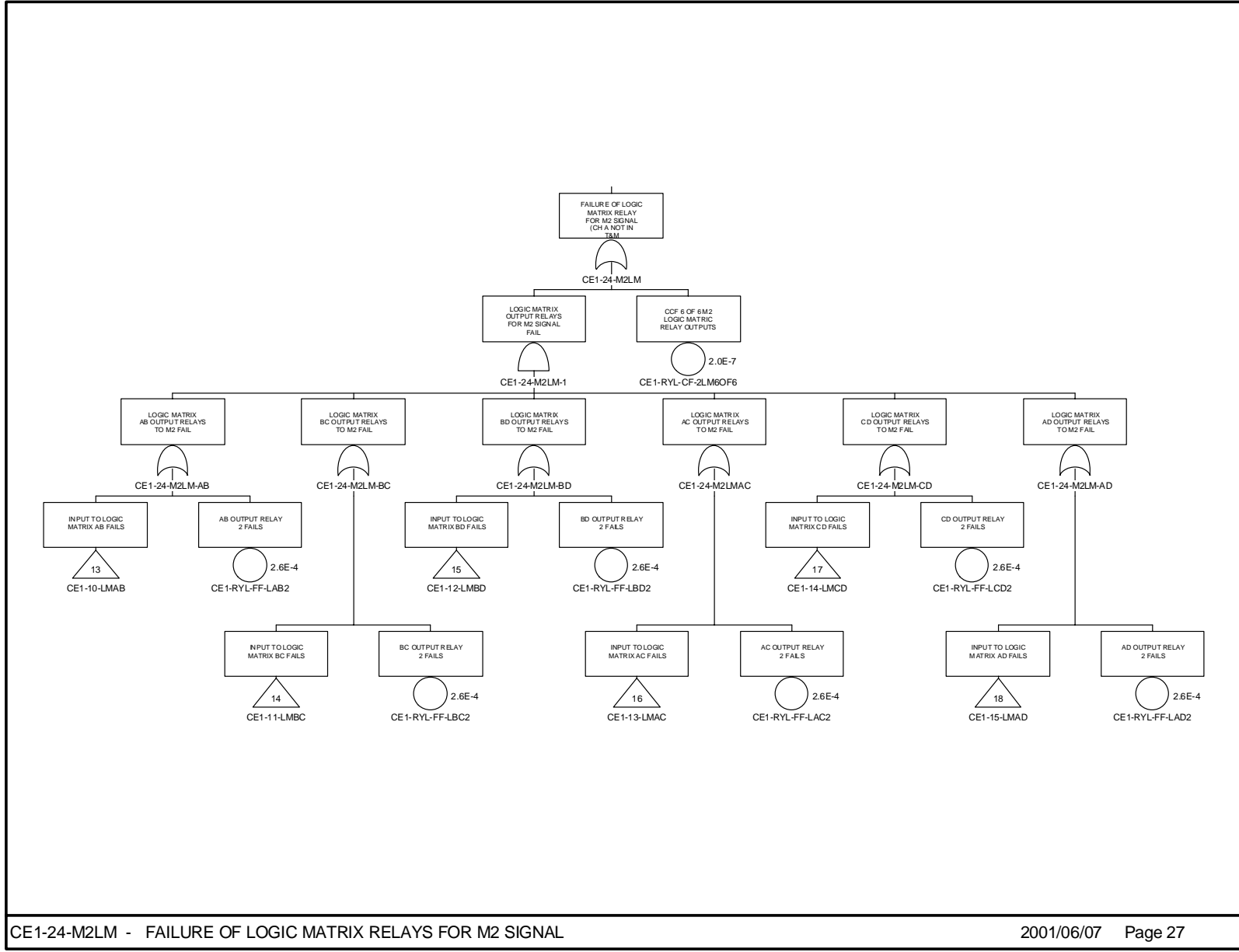


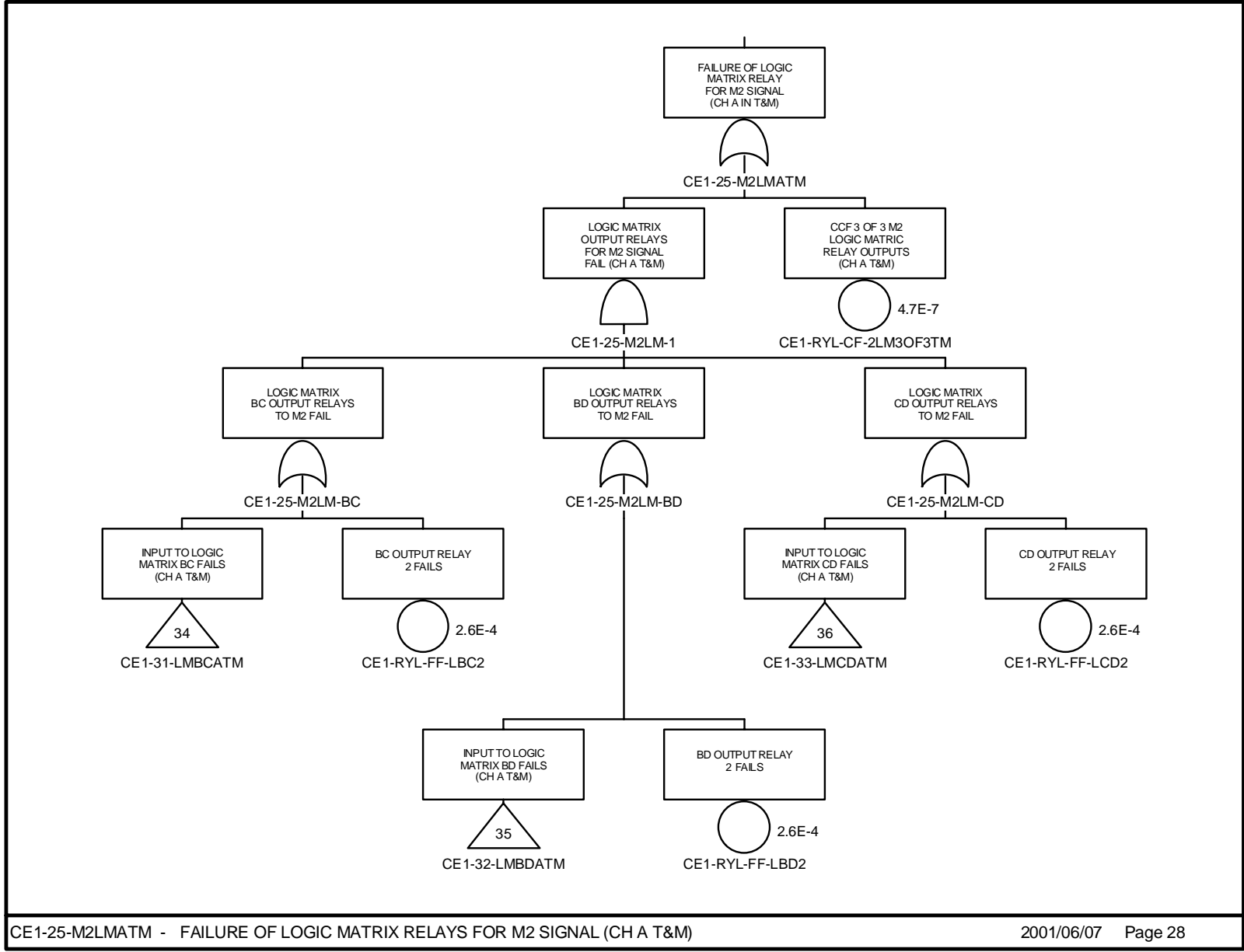


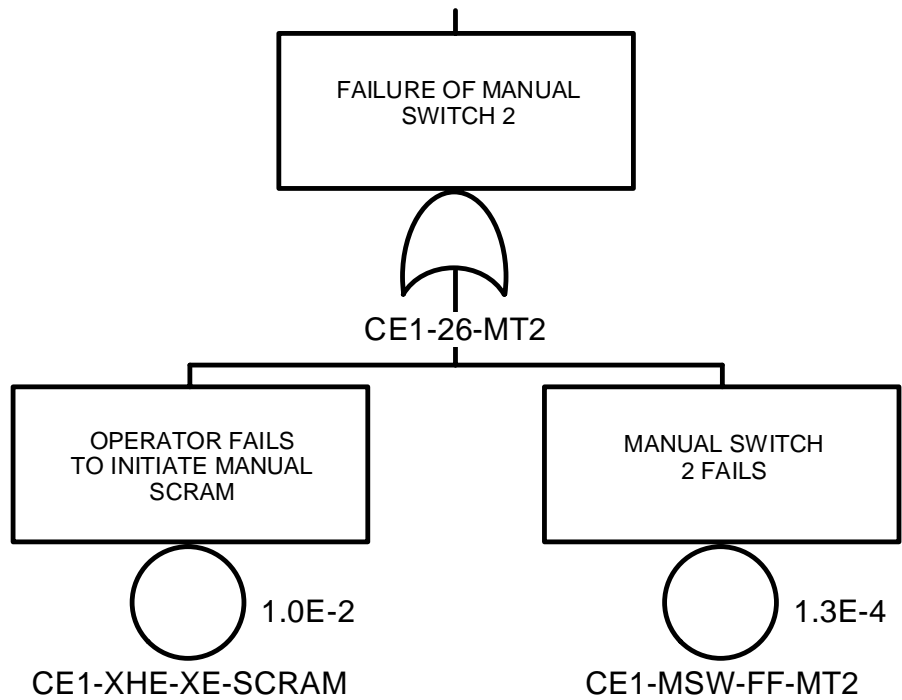


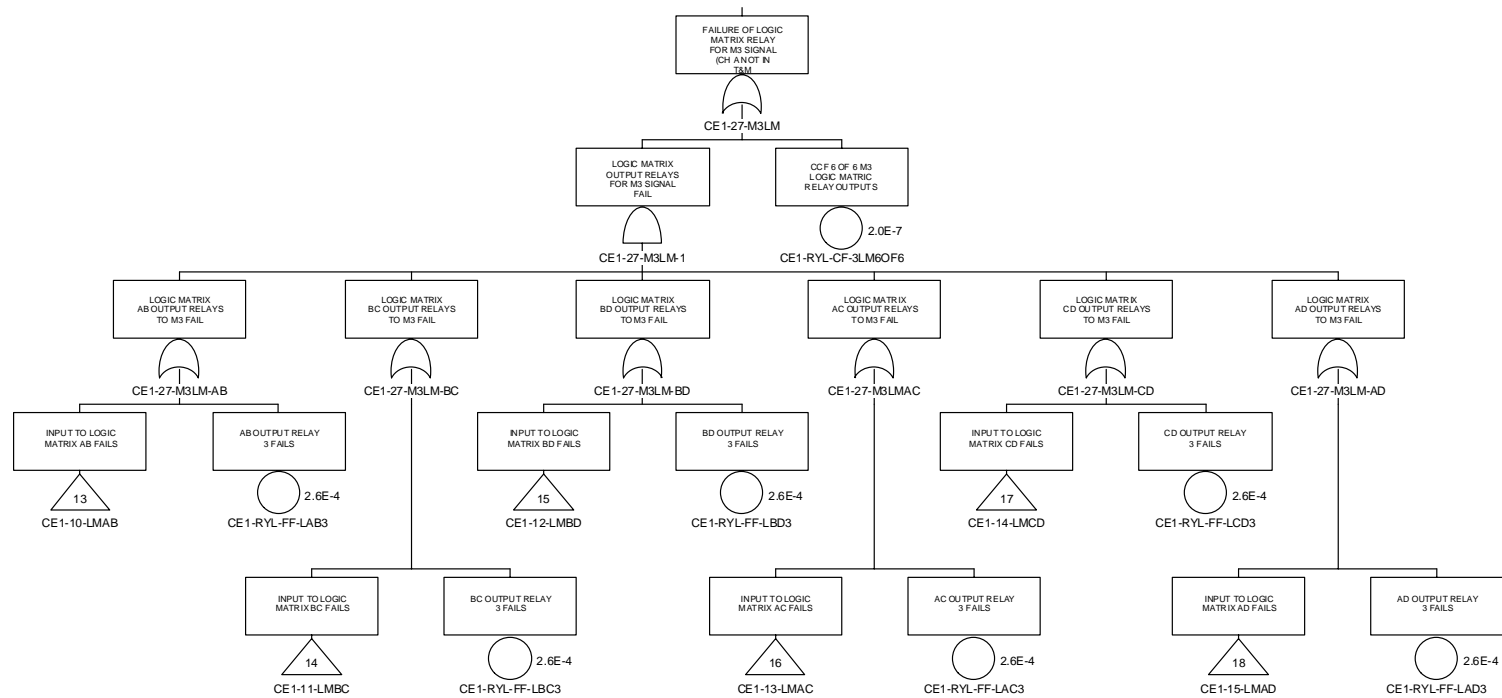




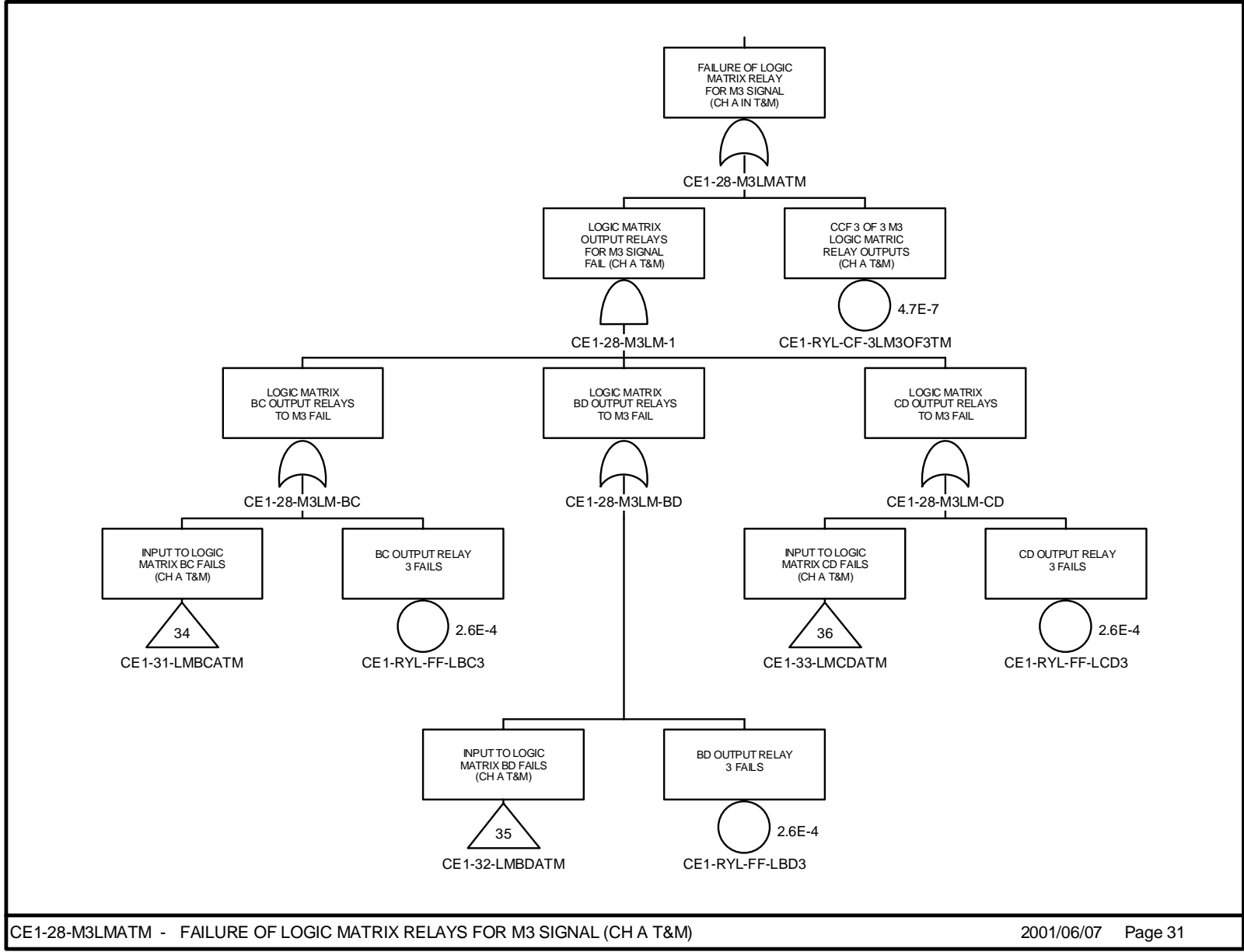


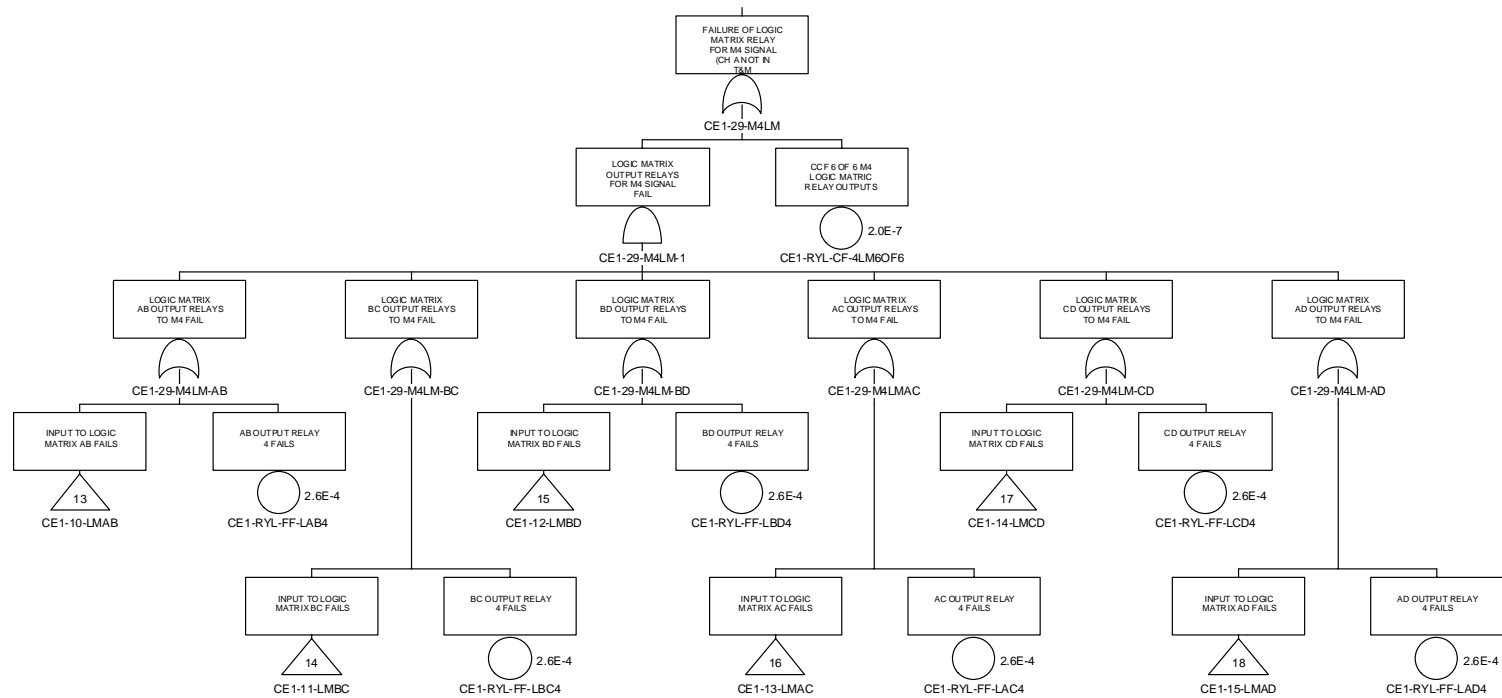


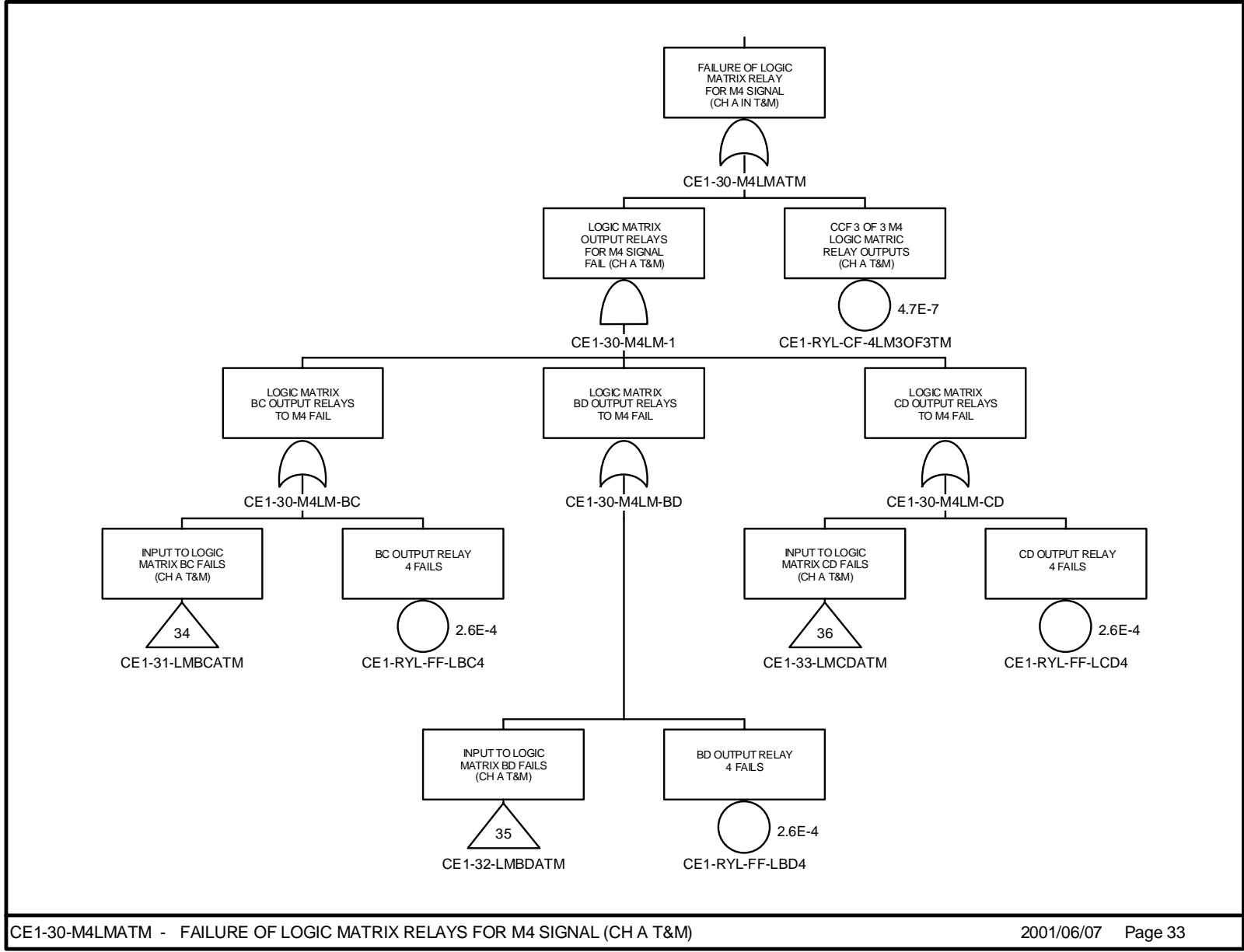


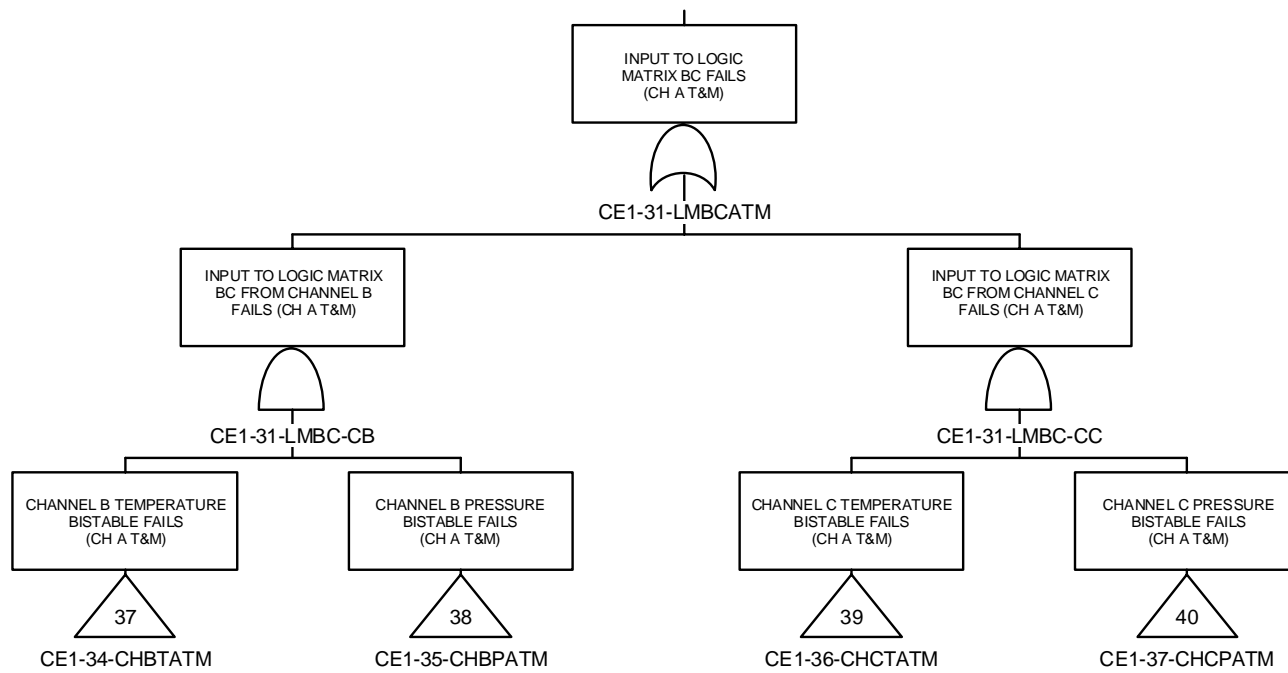


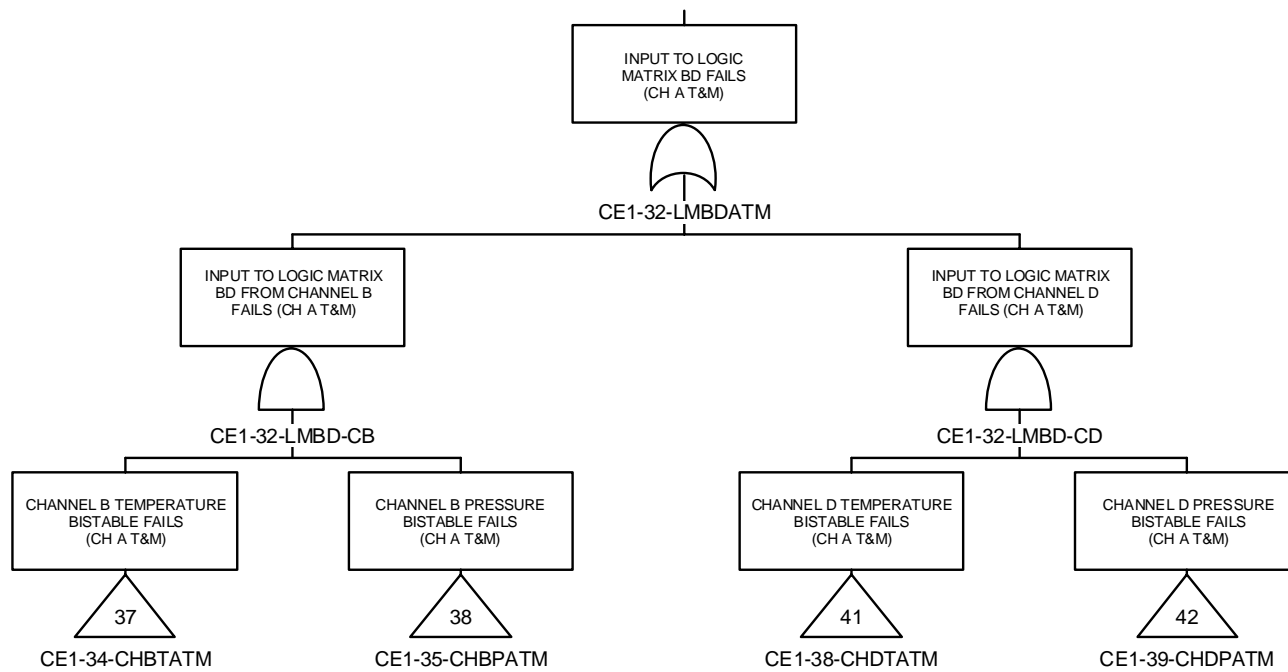
CE1-27-M3LM - FAILURE OF LOGIC MATRIX RELAYS FOR M3 SIGNAL

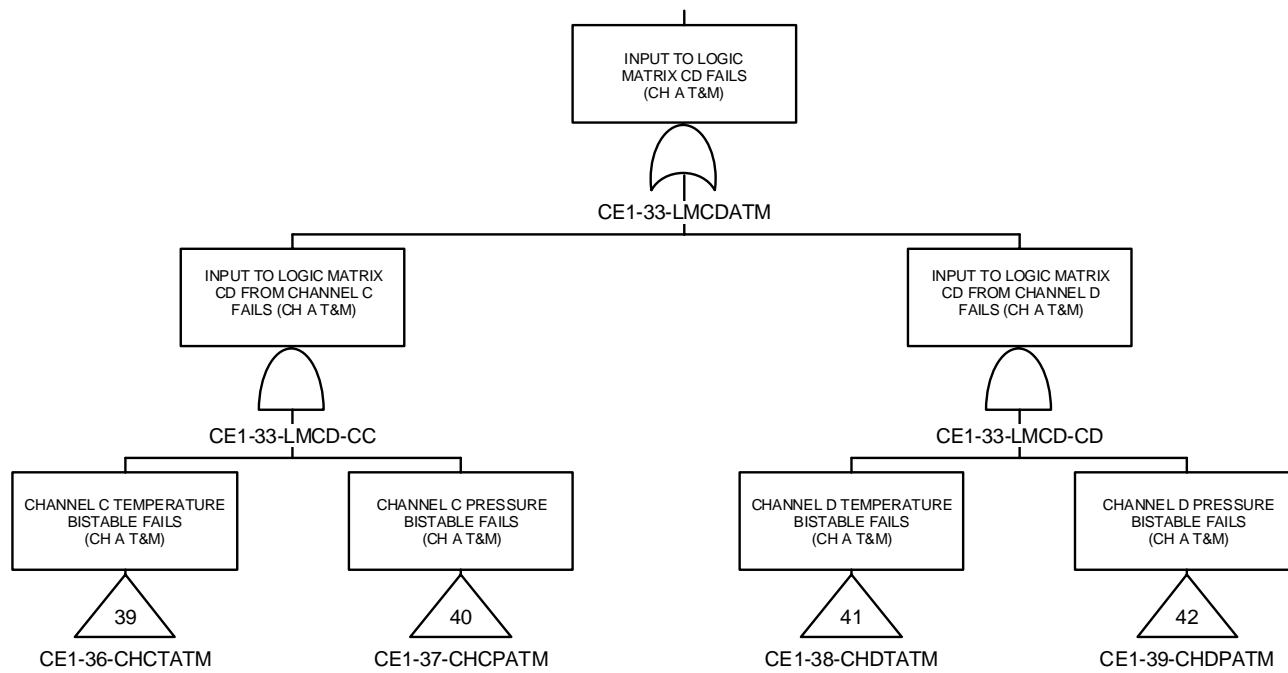


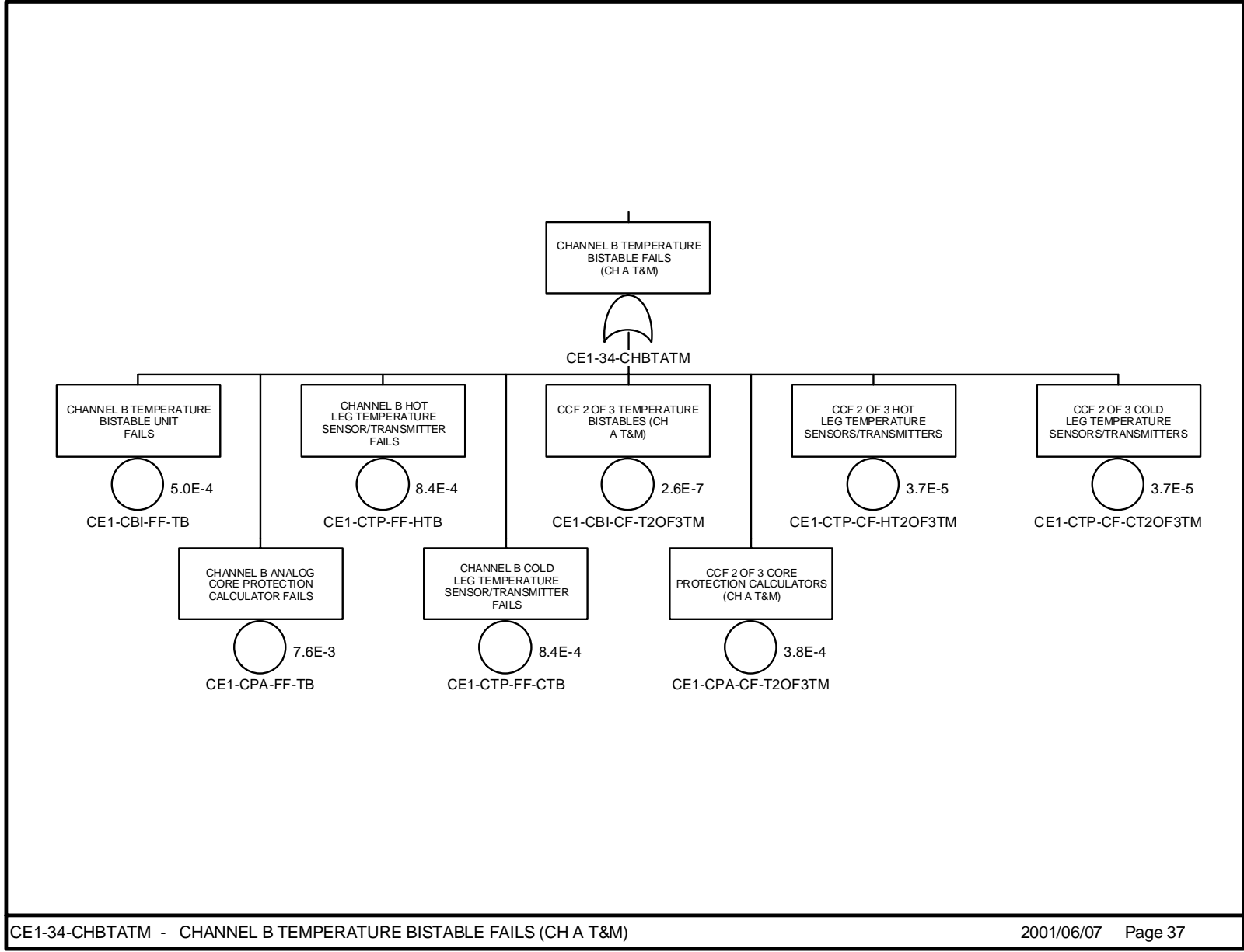


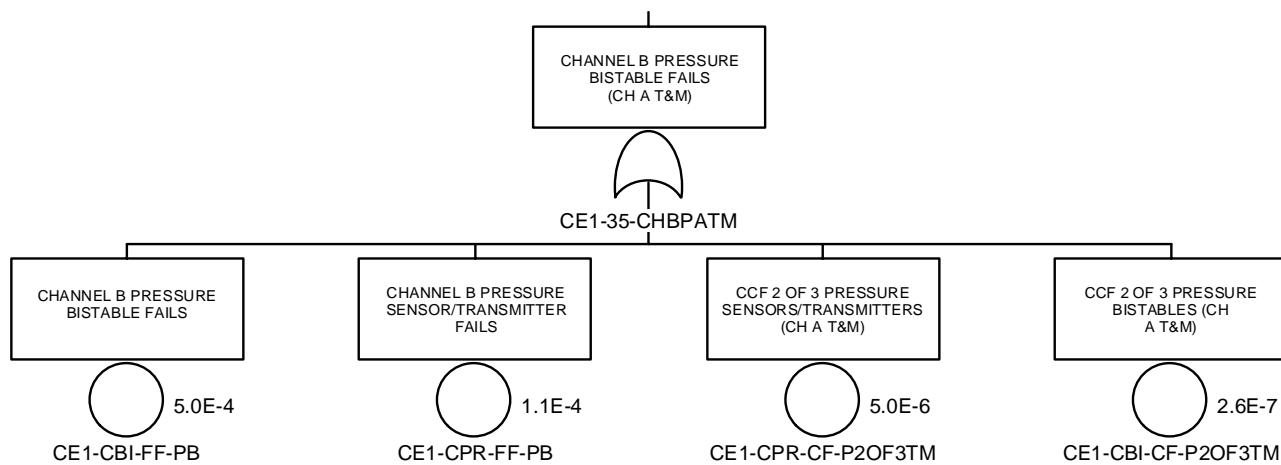


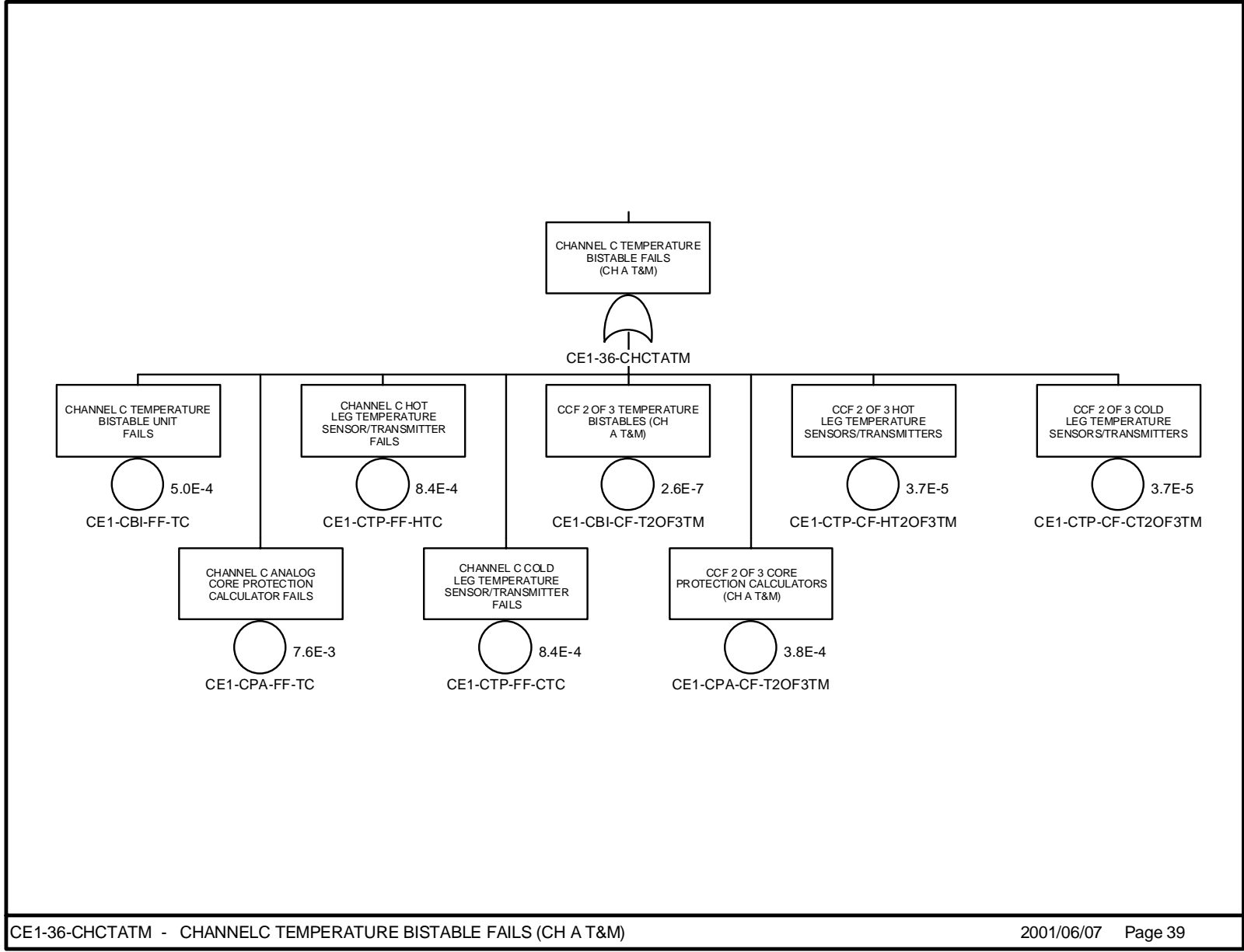


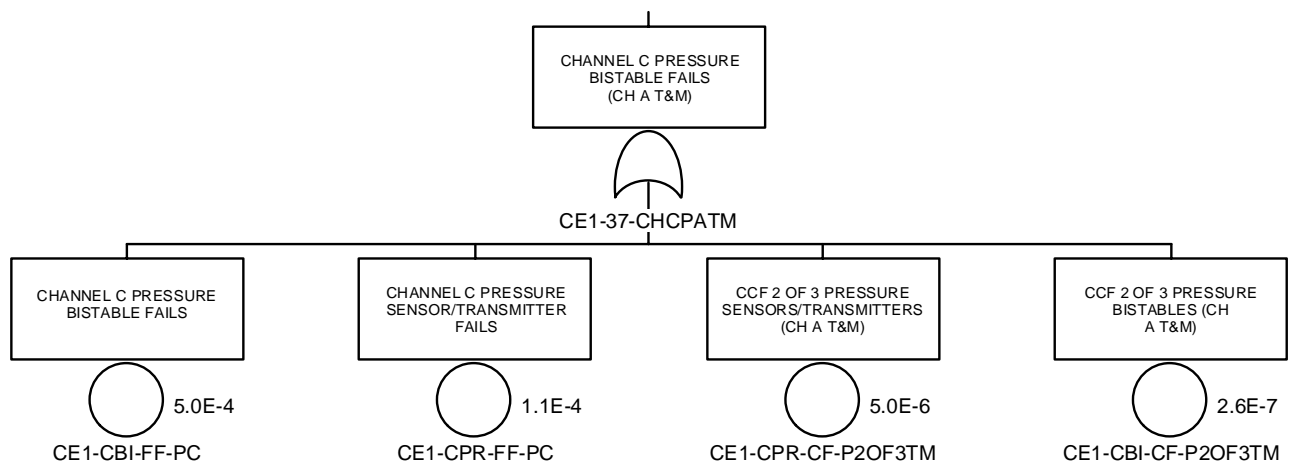


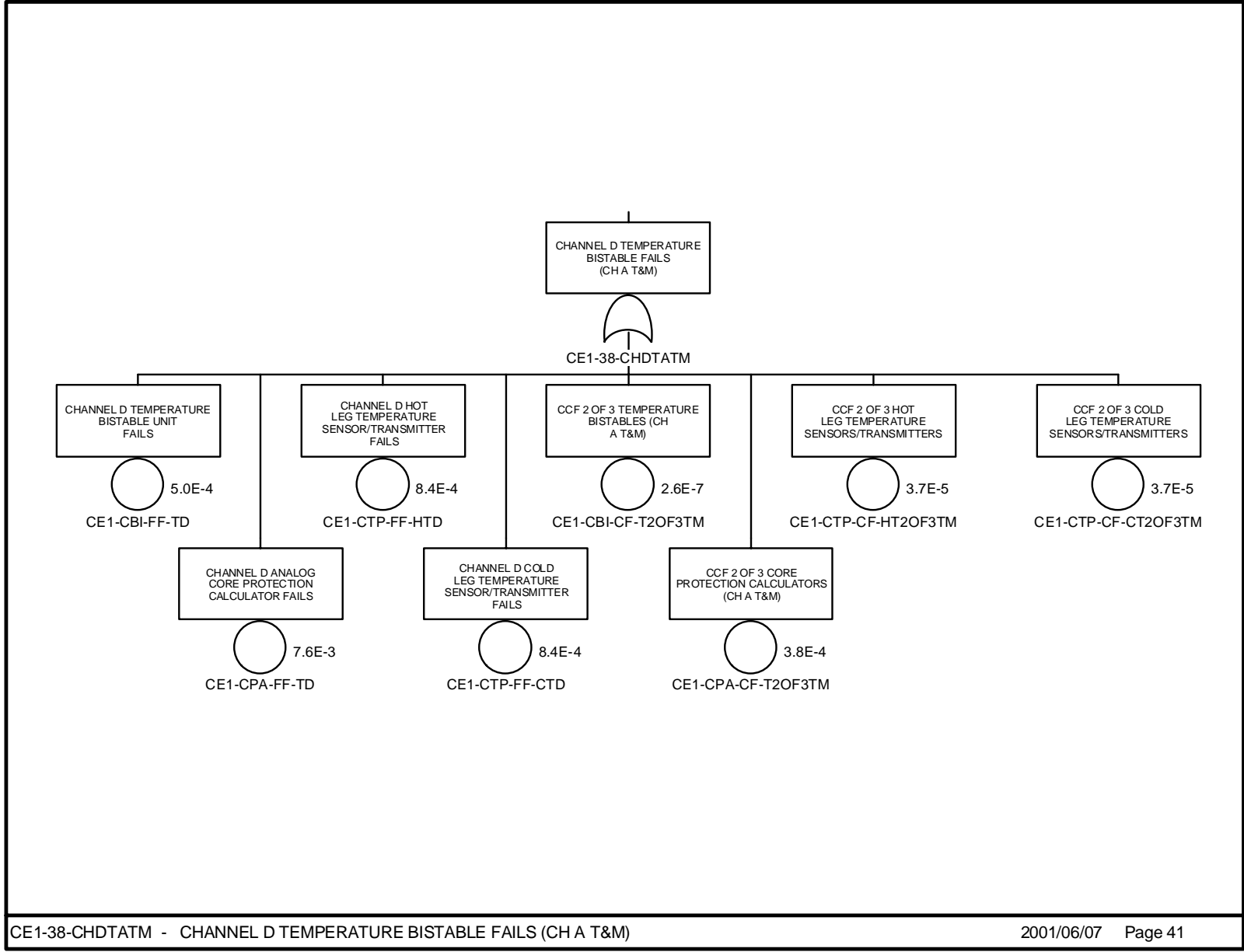


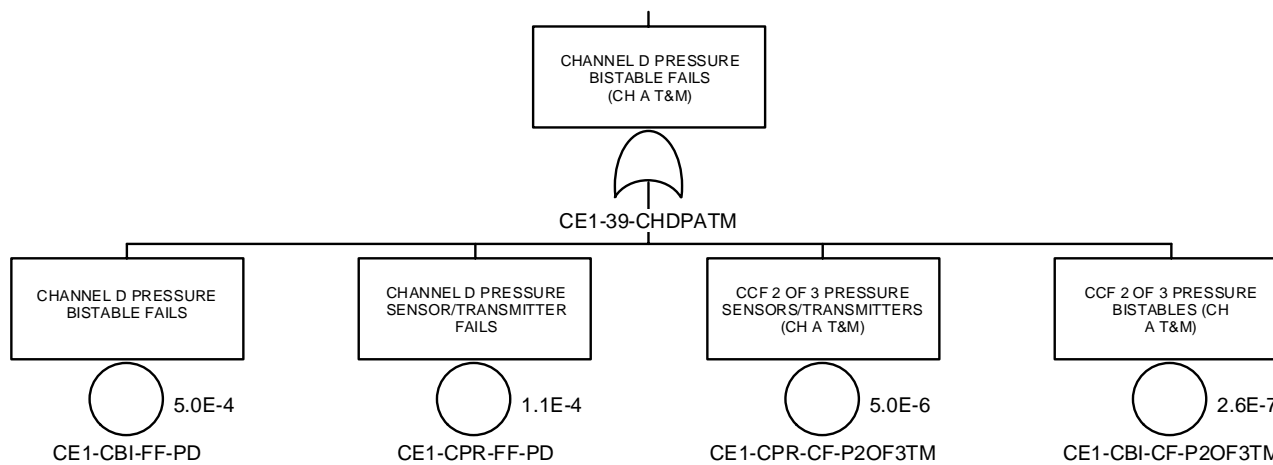




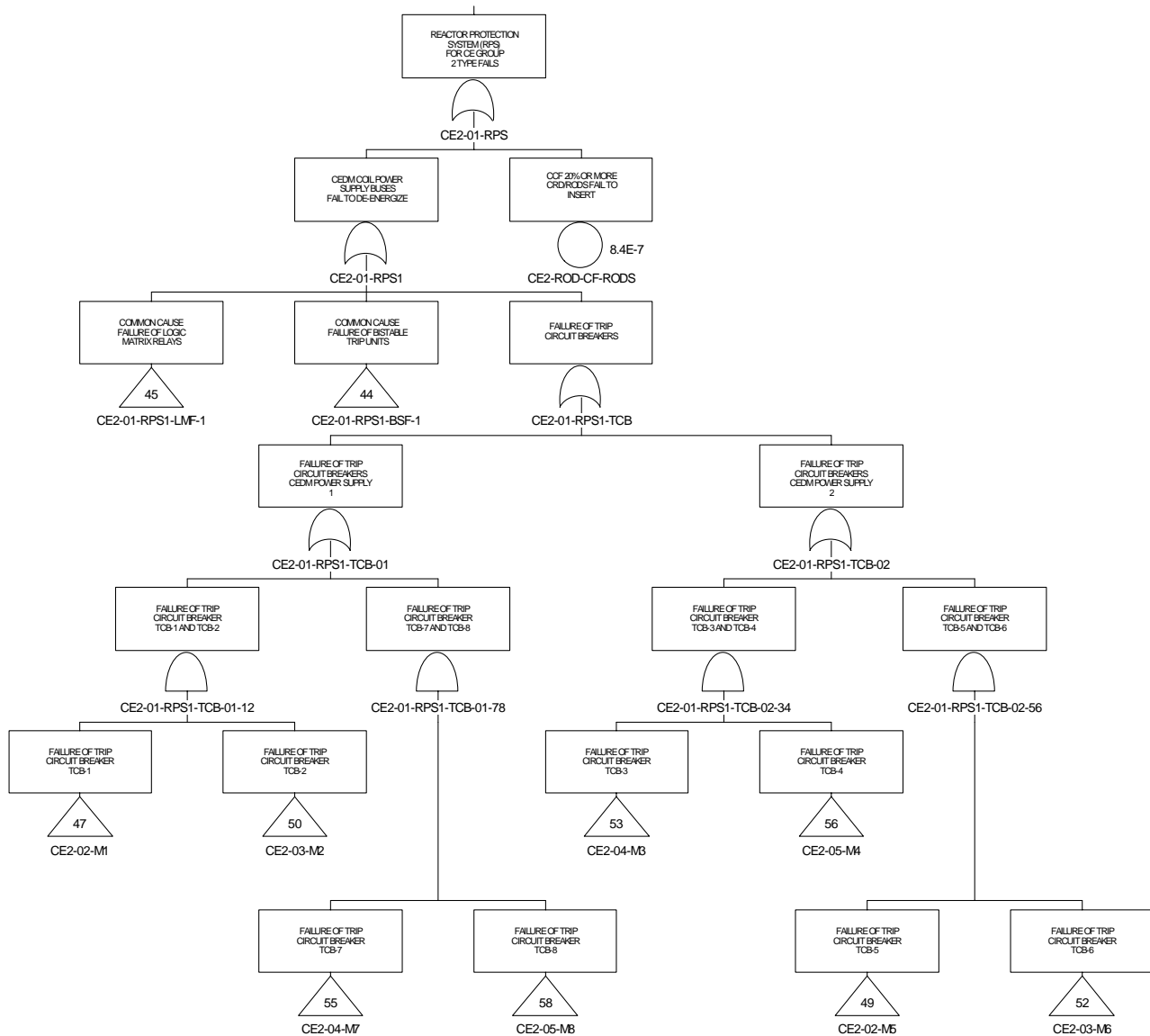


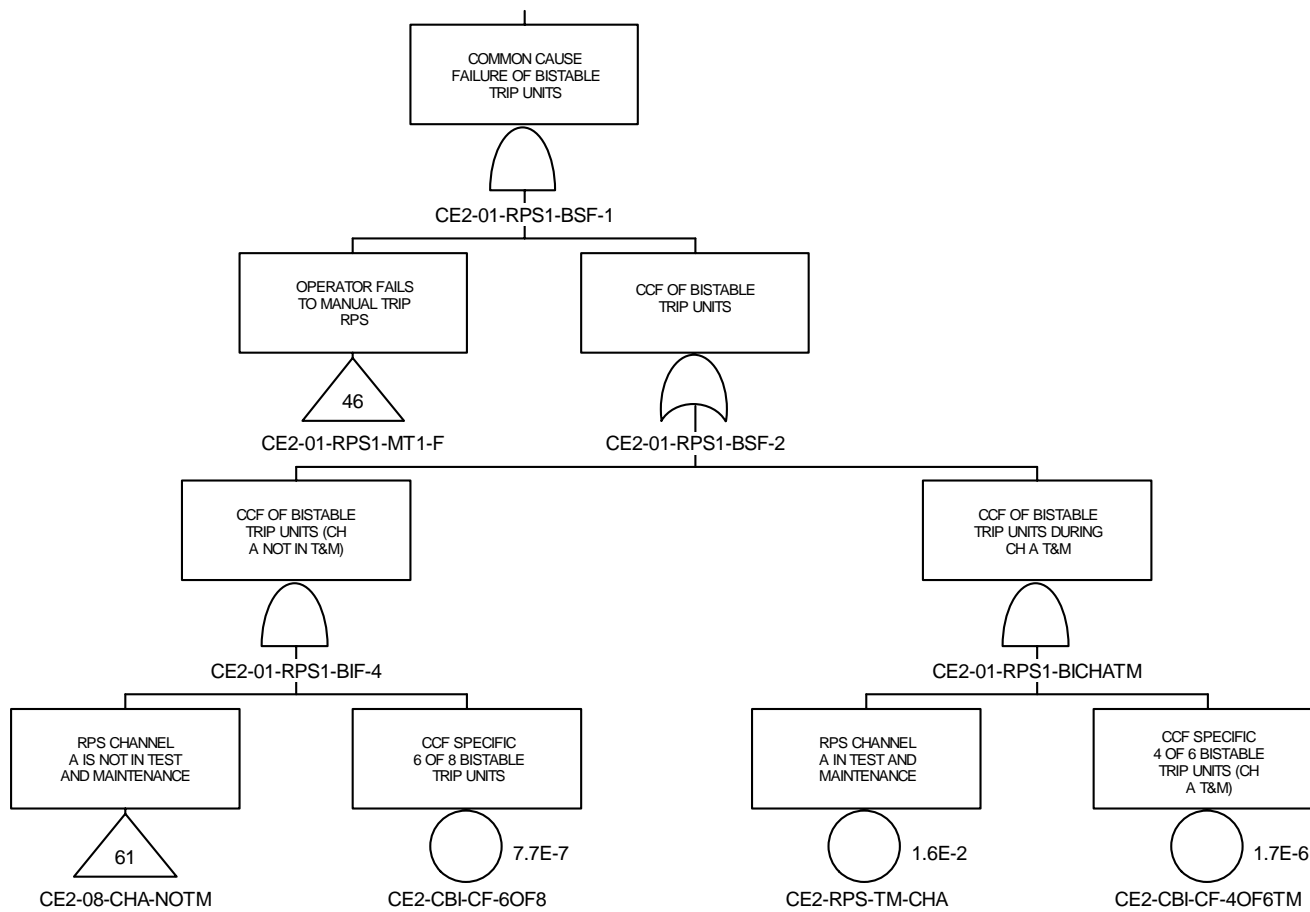


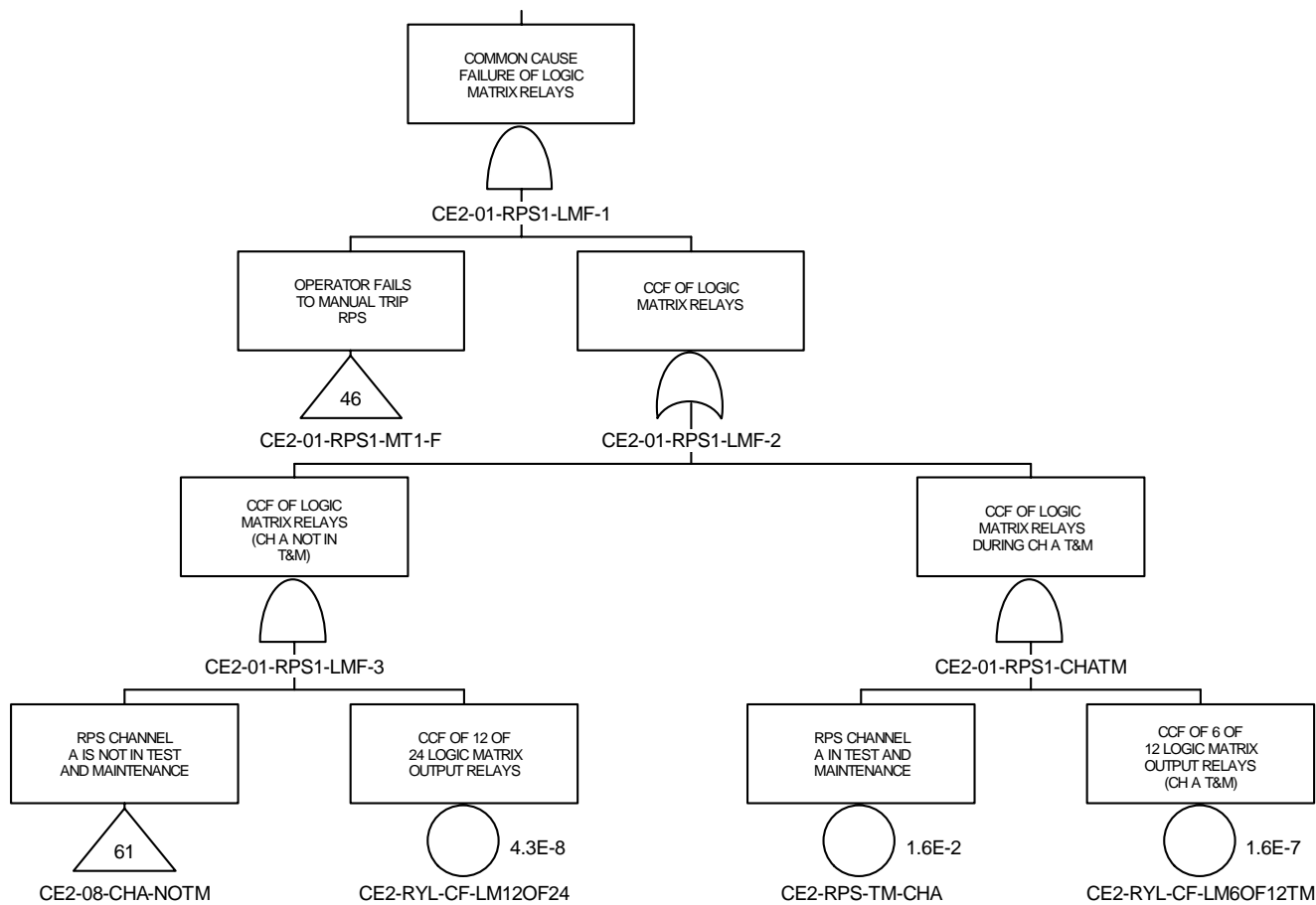


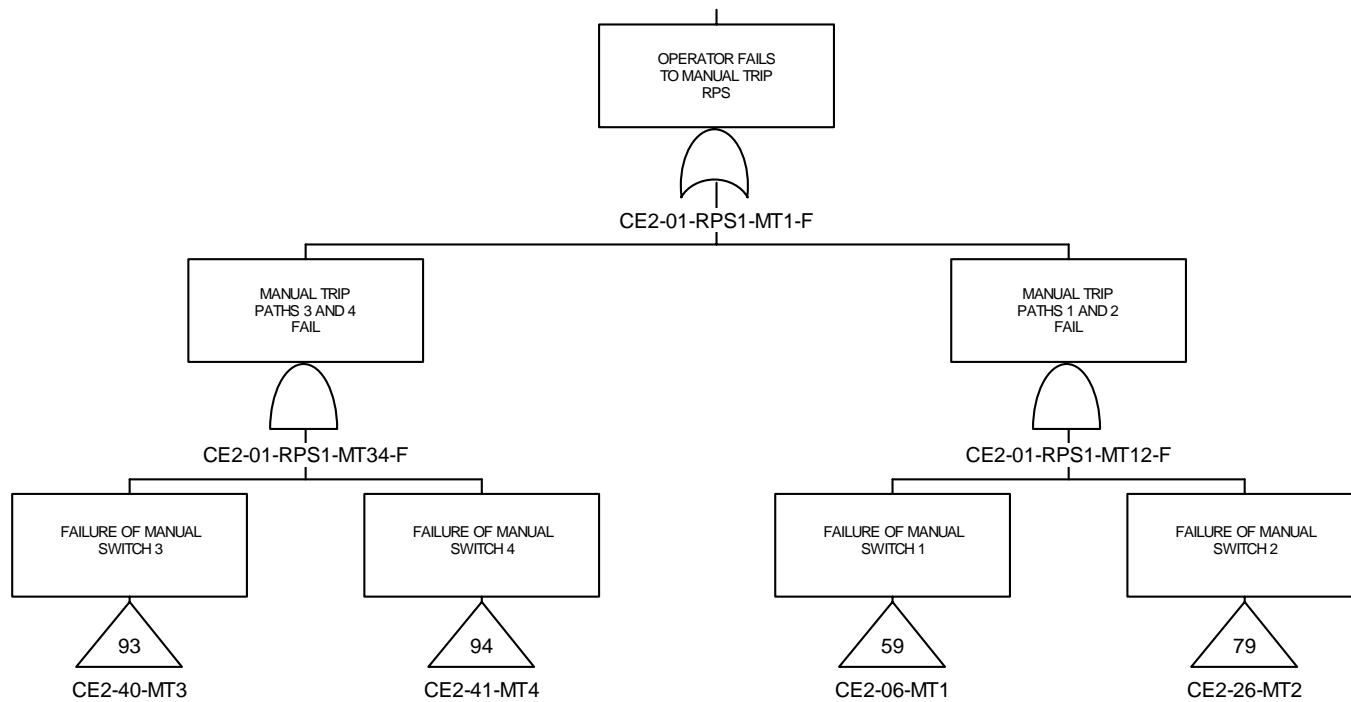


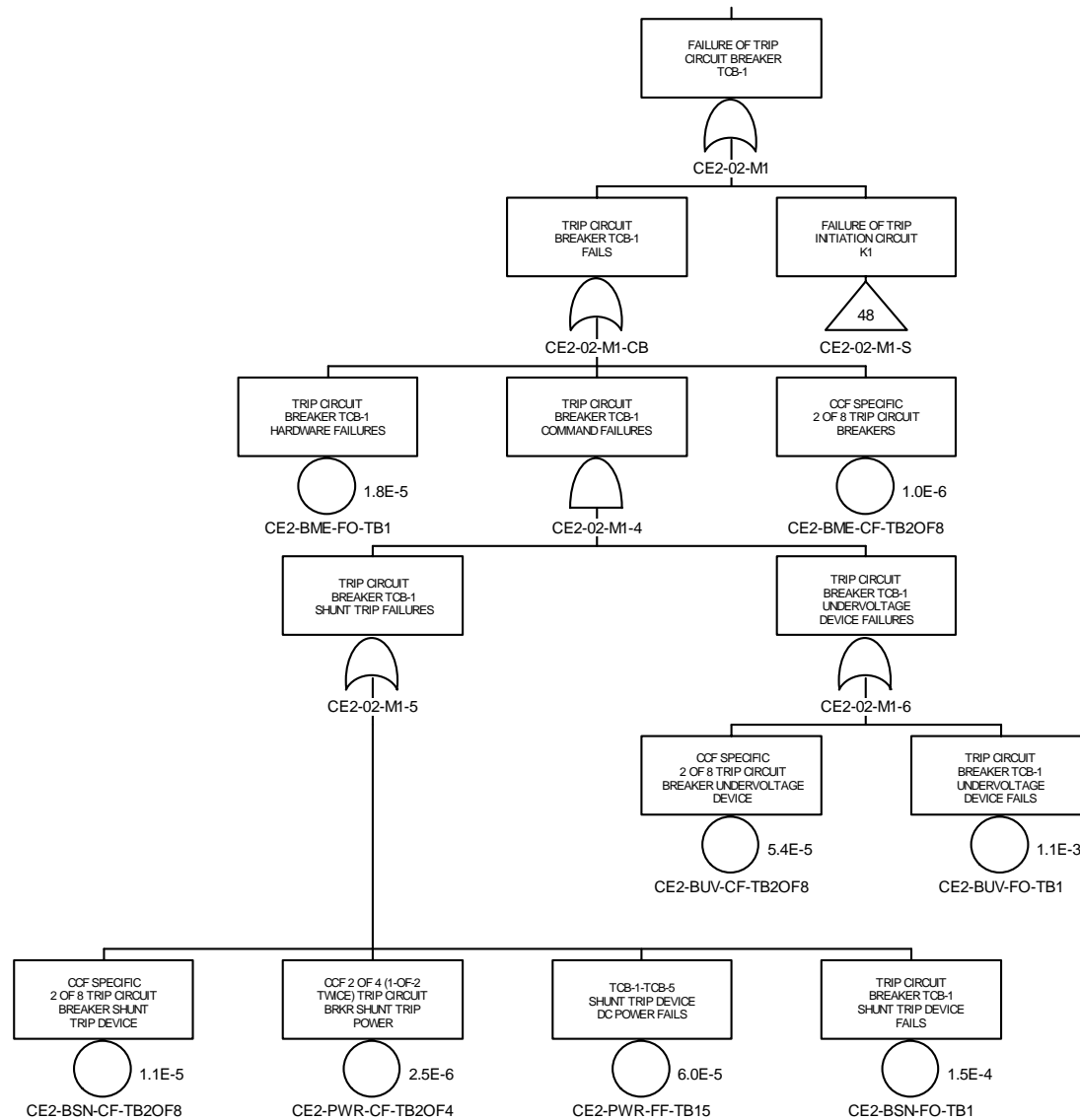
COMBUSTION ENGINEERING RPS GROUP 2 MODEL

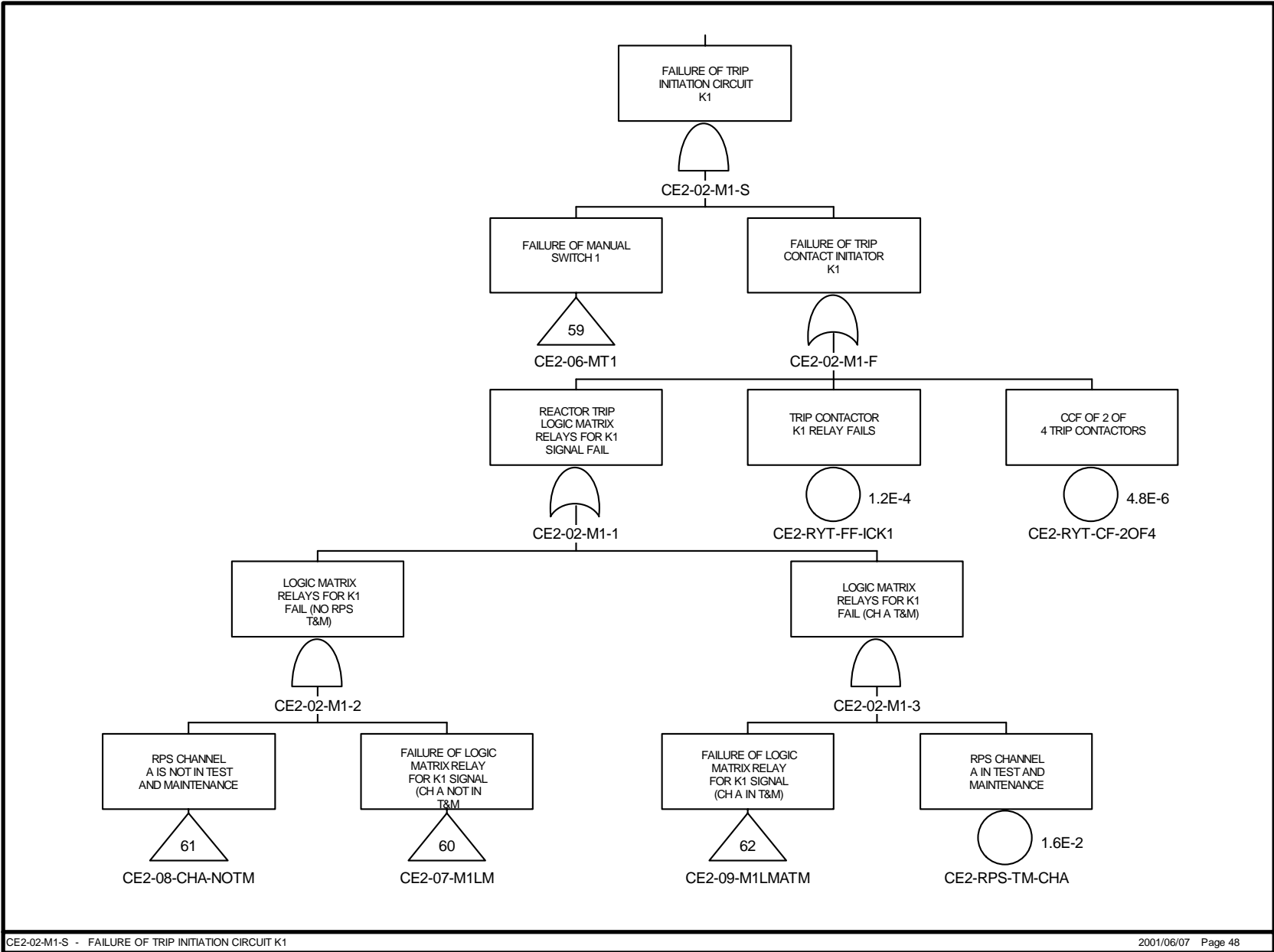


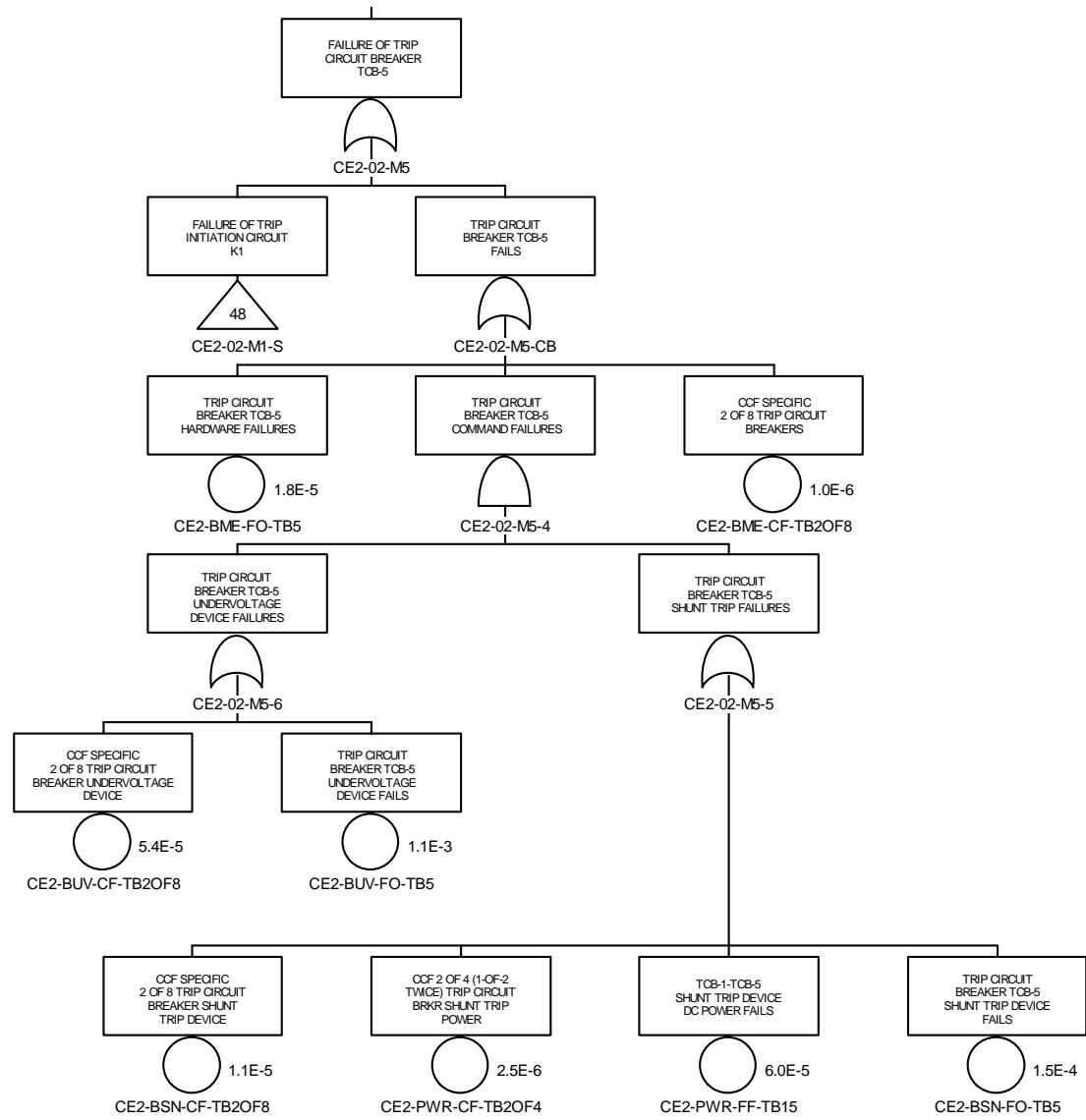


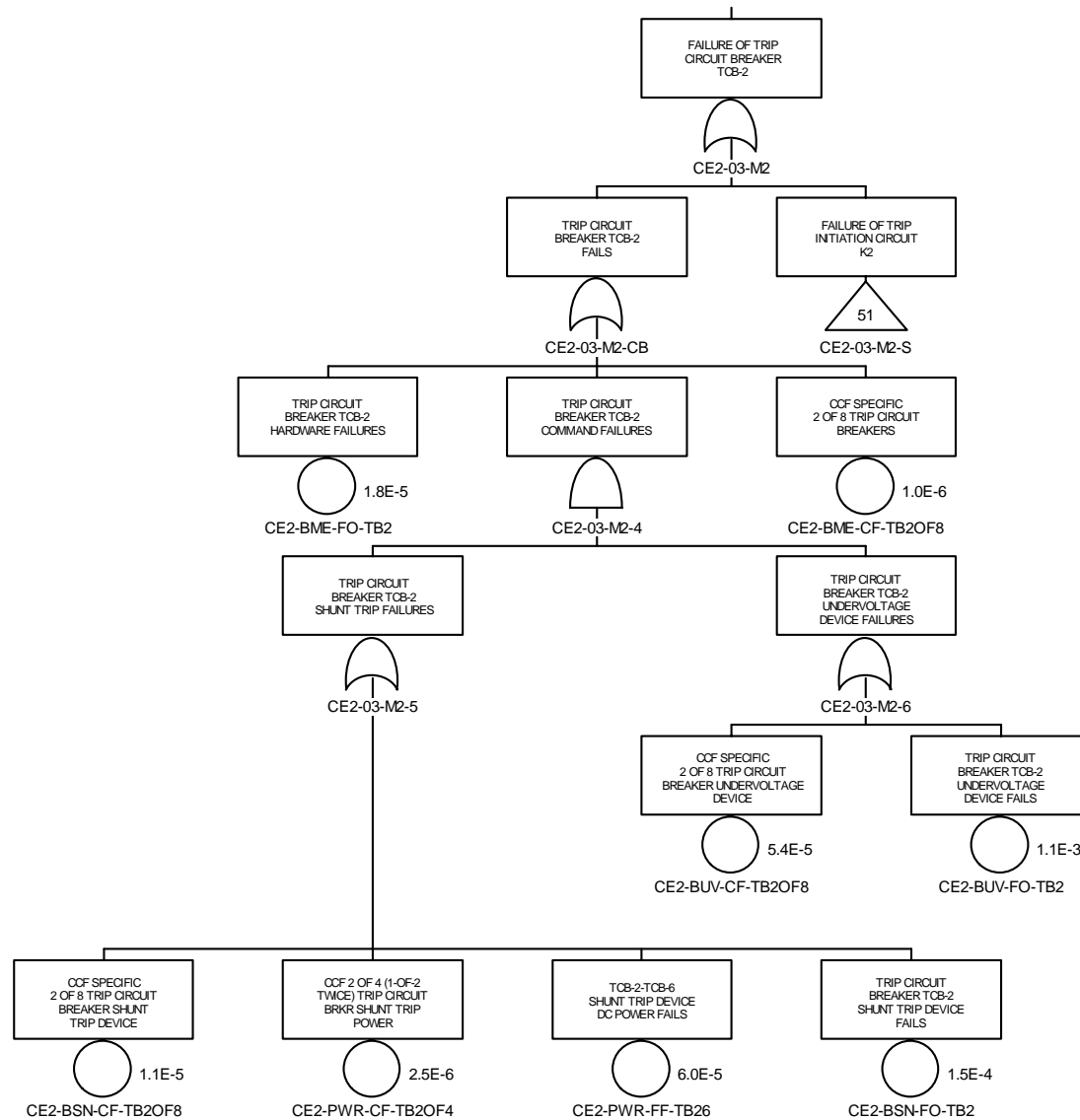


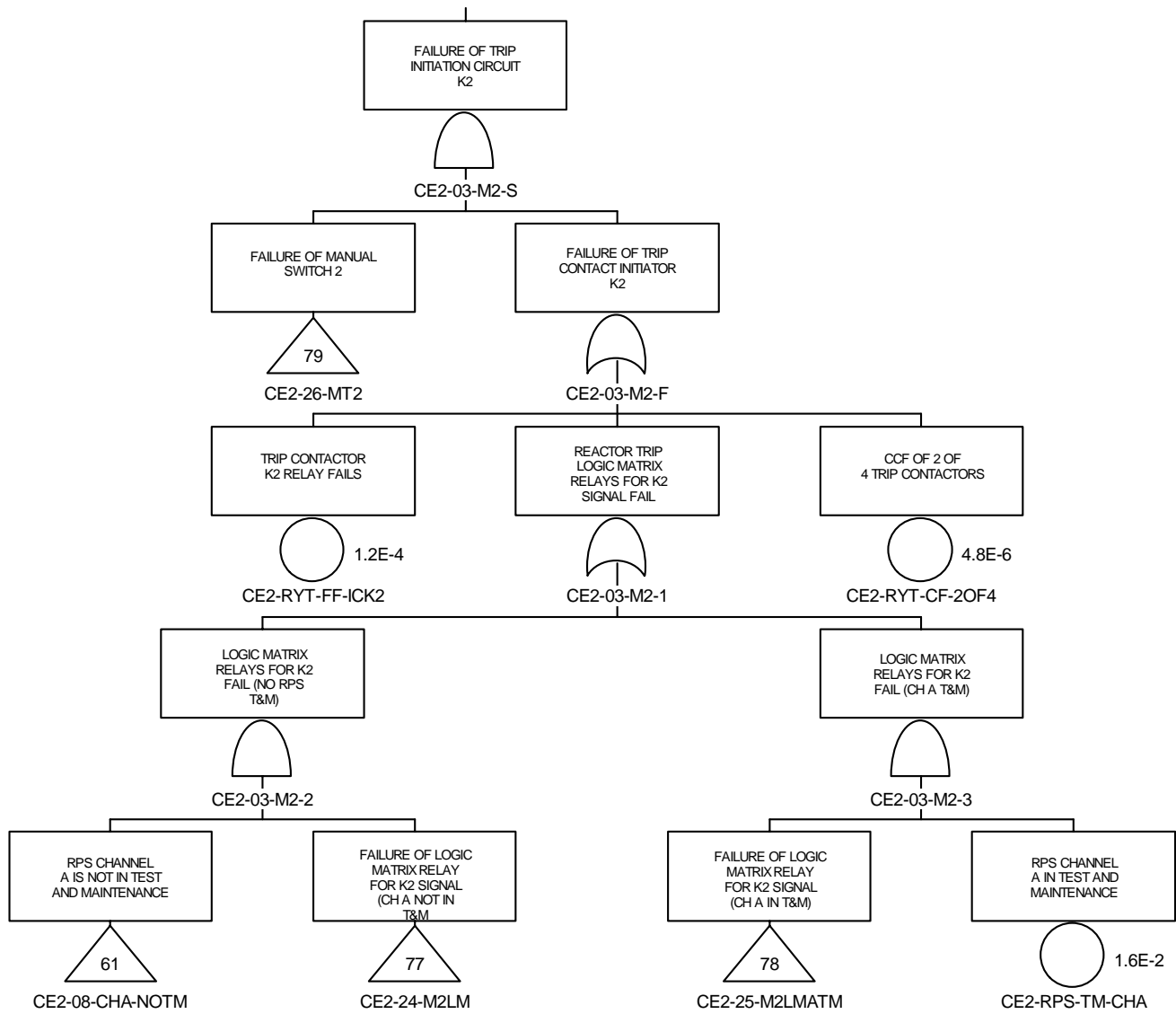


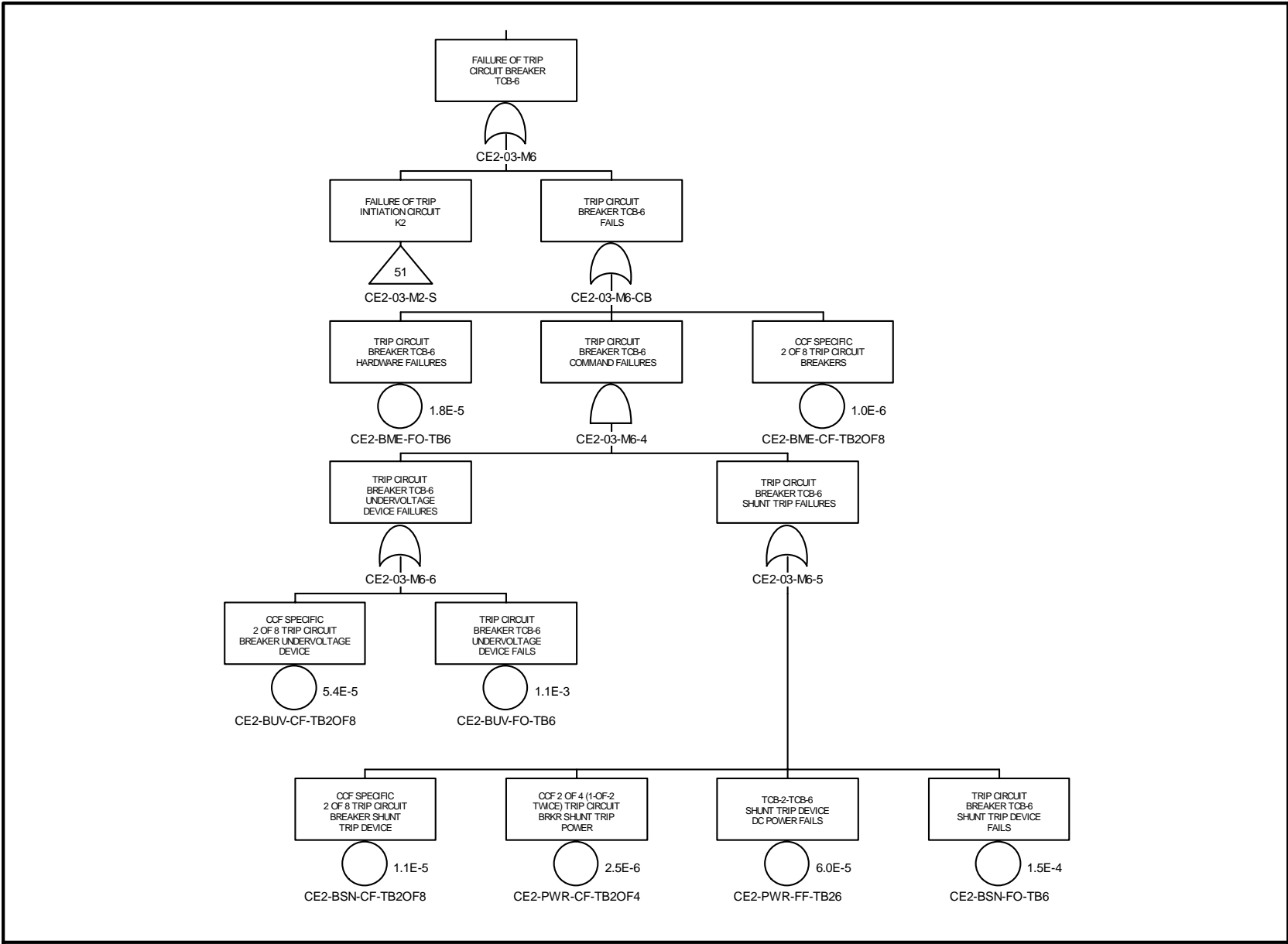




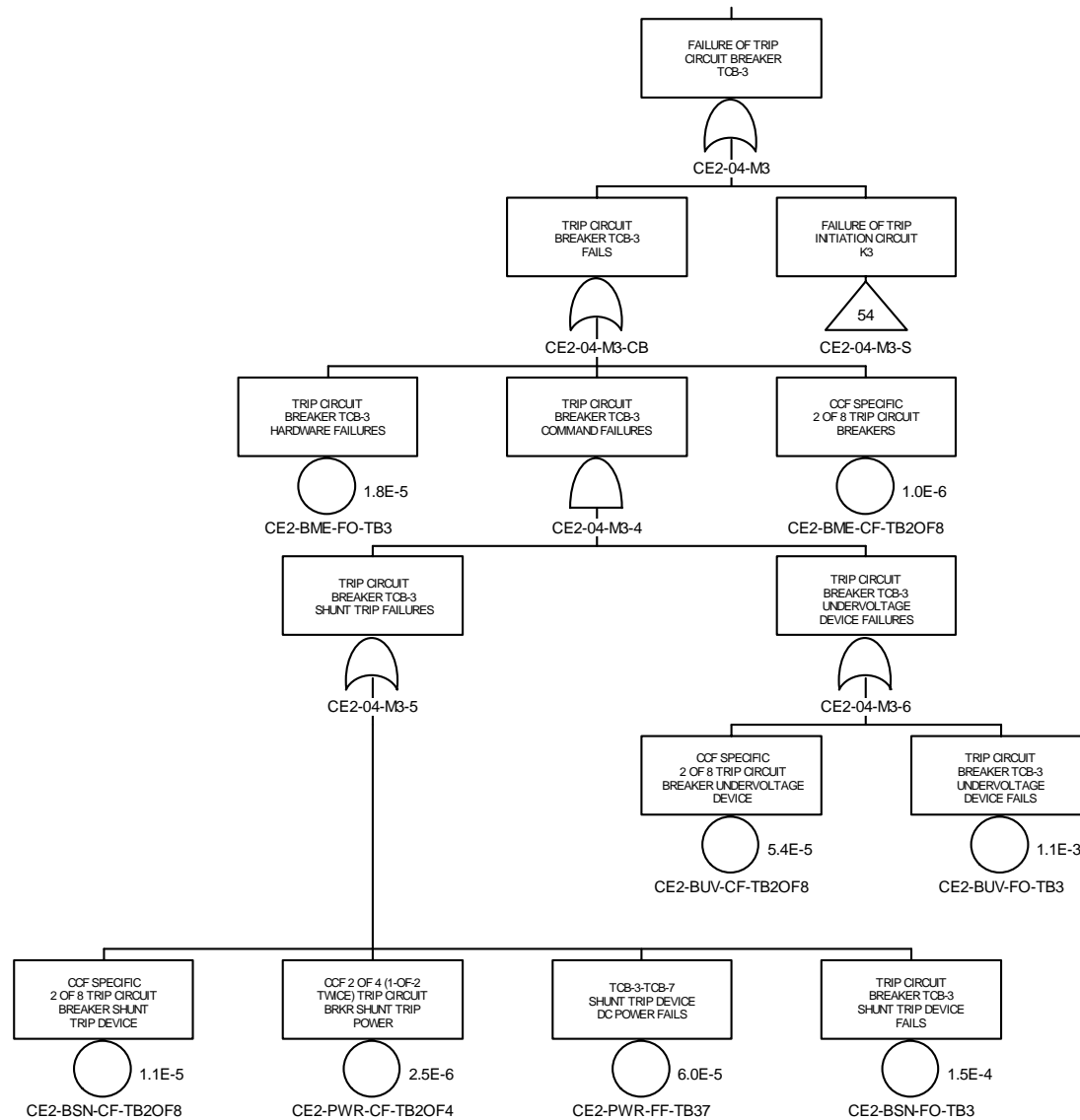


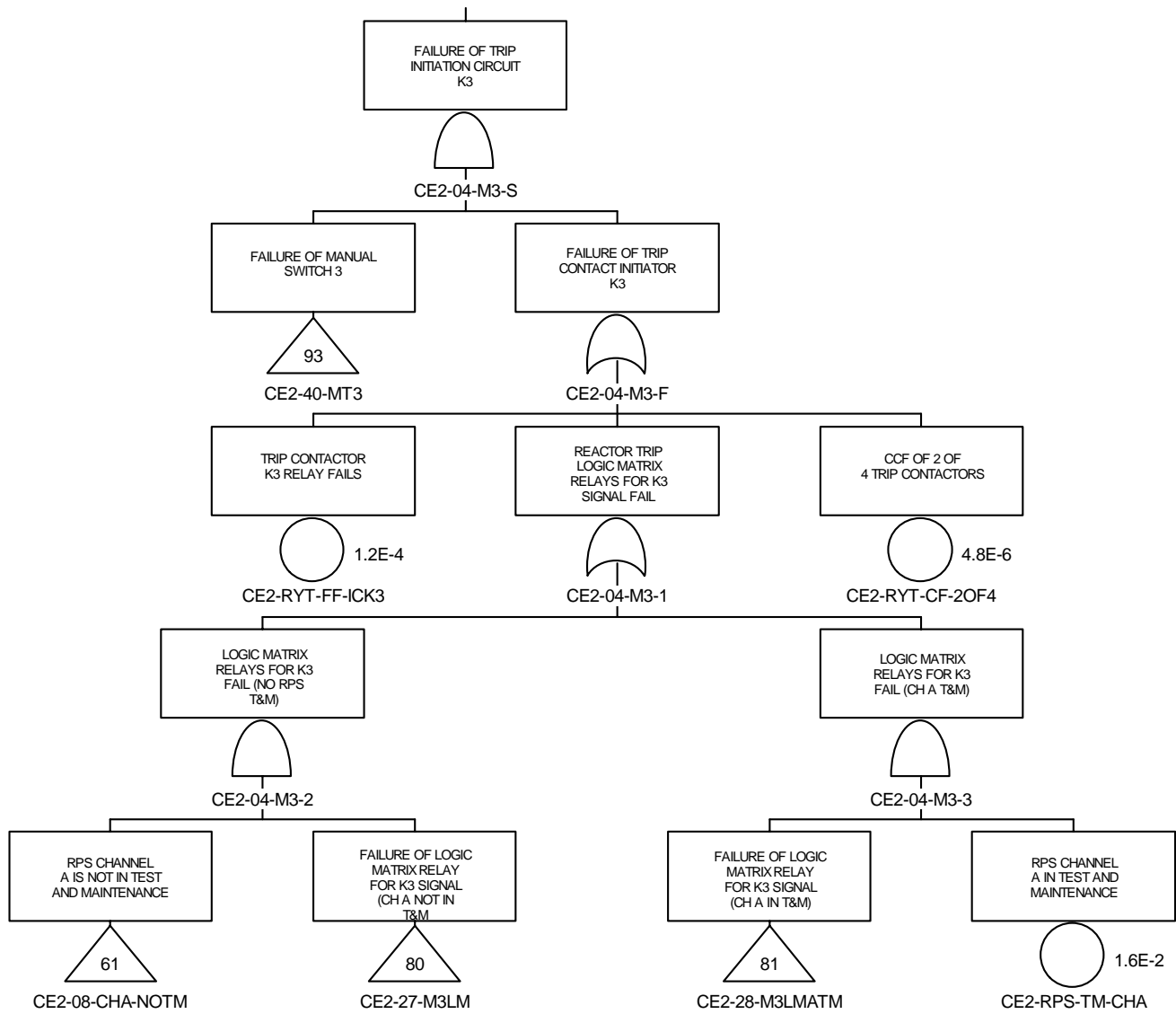


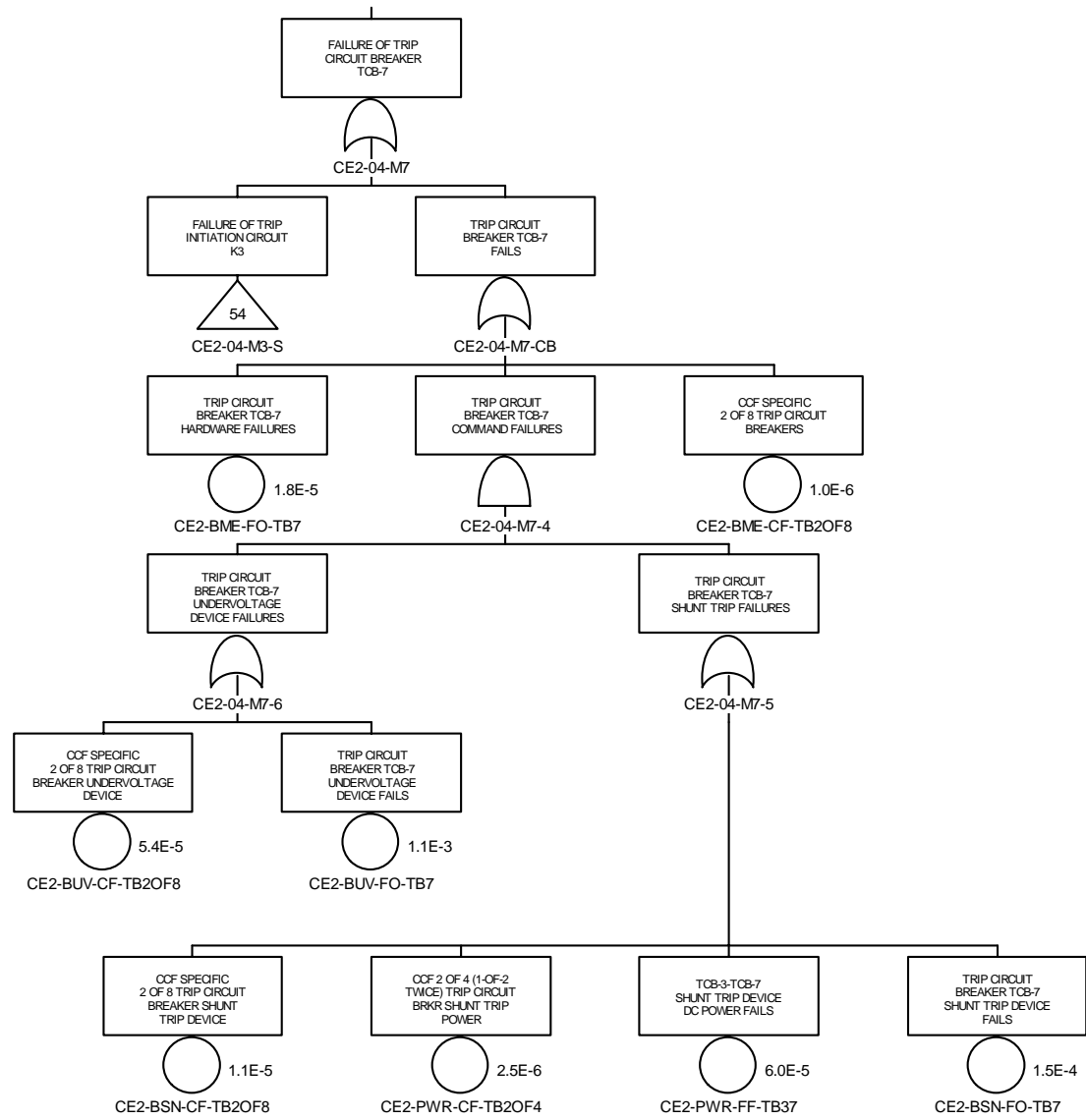


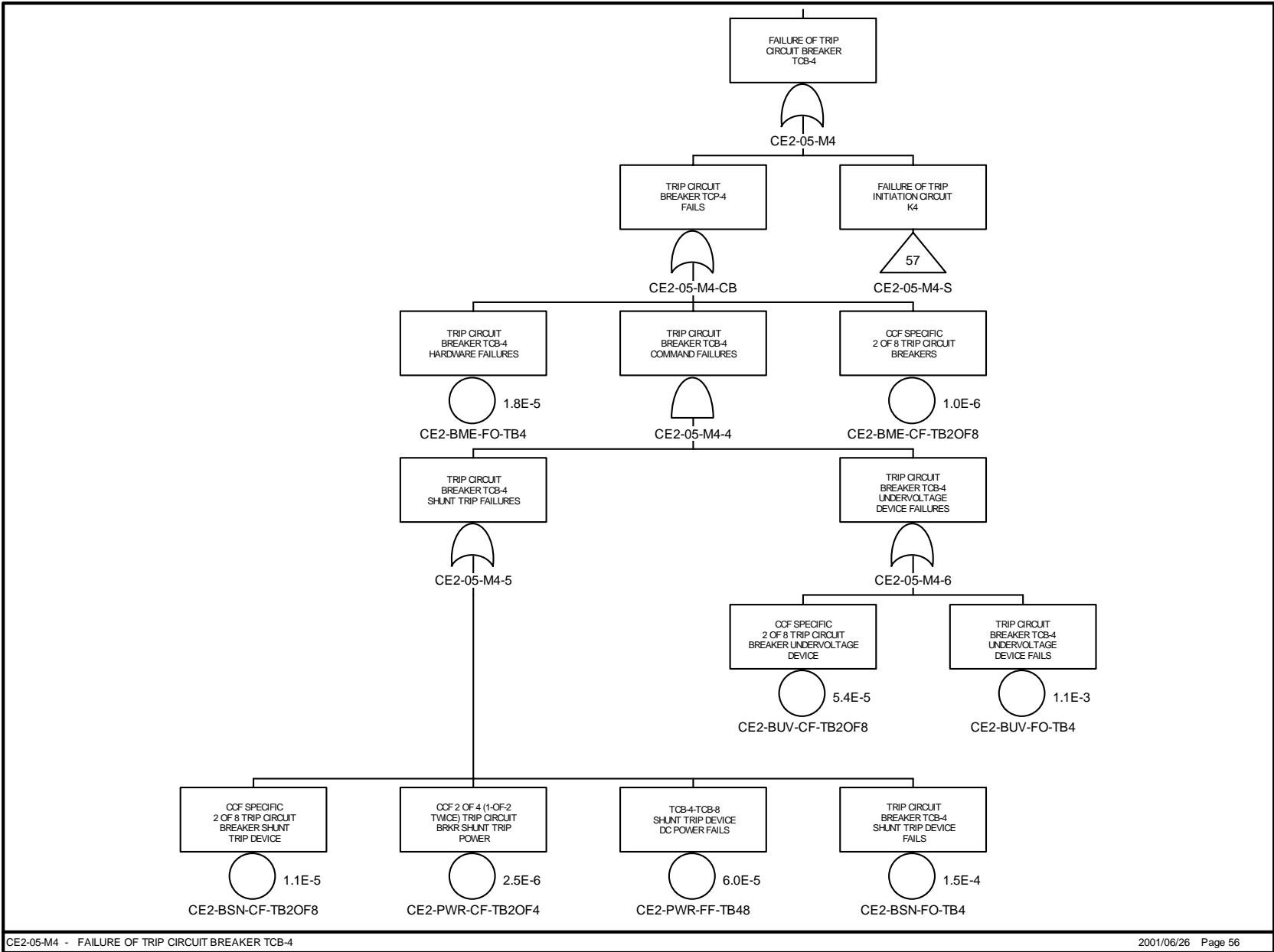


CE2-03-M6 - FAILURE OF TRIP CIRCUIT BREAKER TCB-6

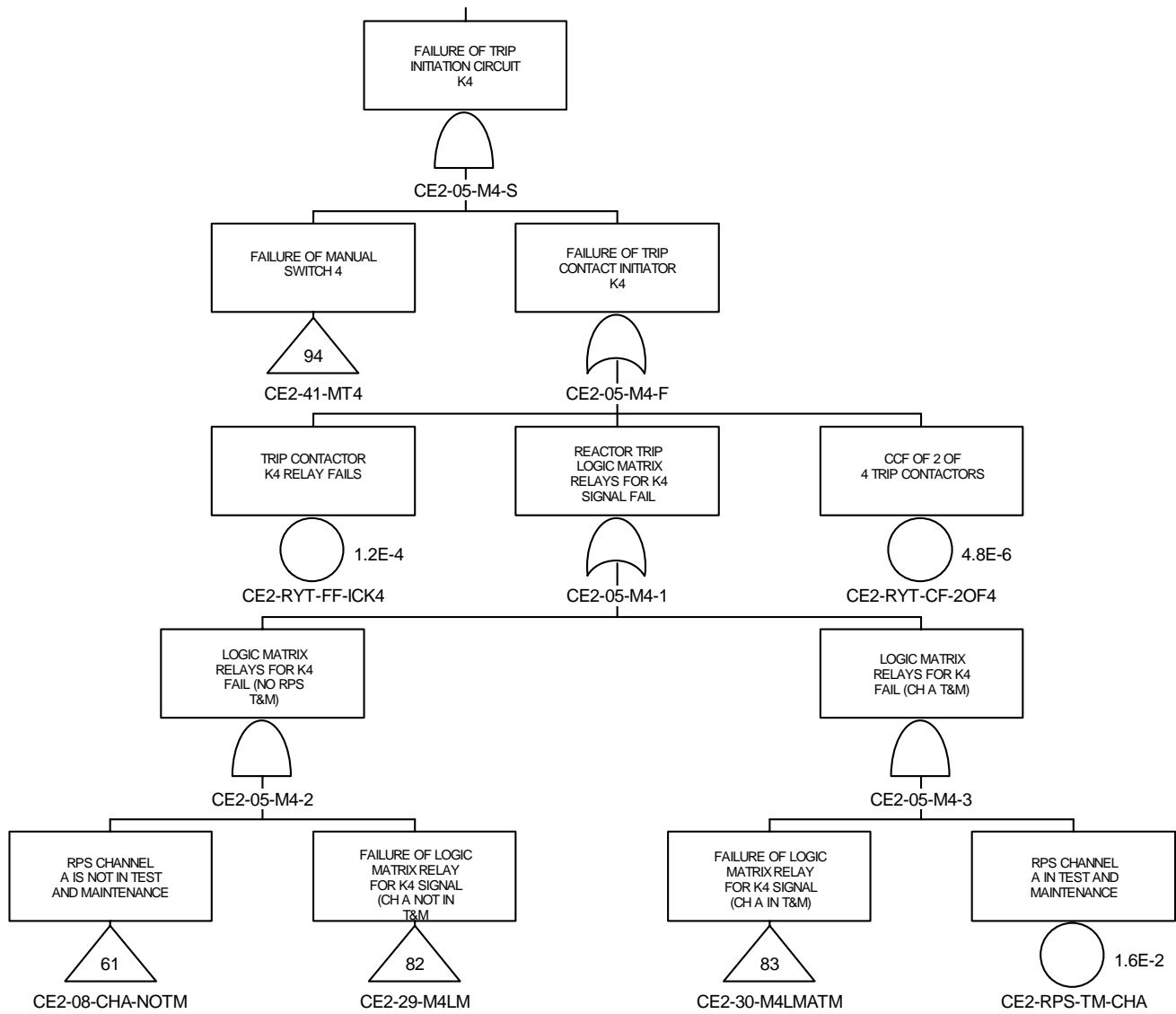


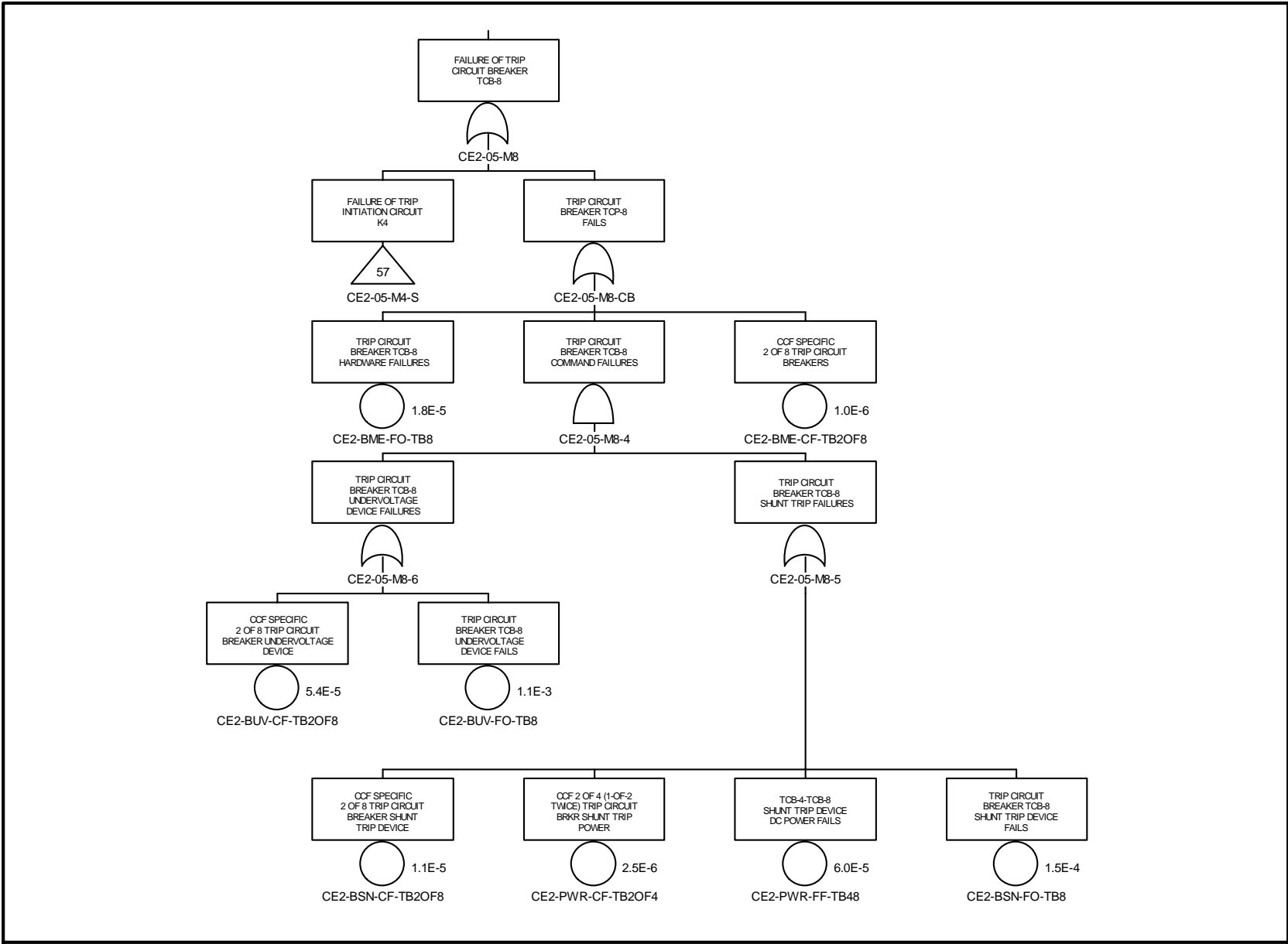




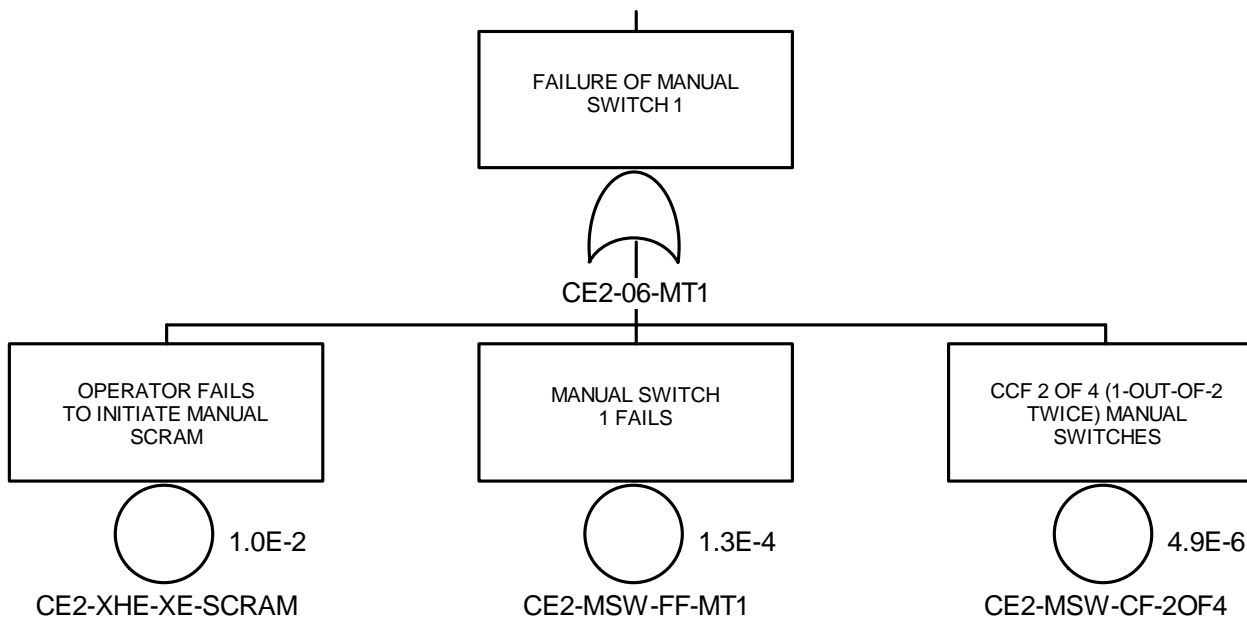


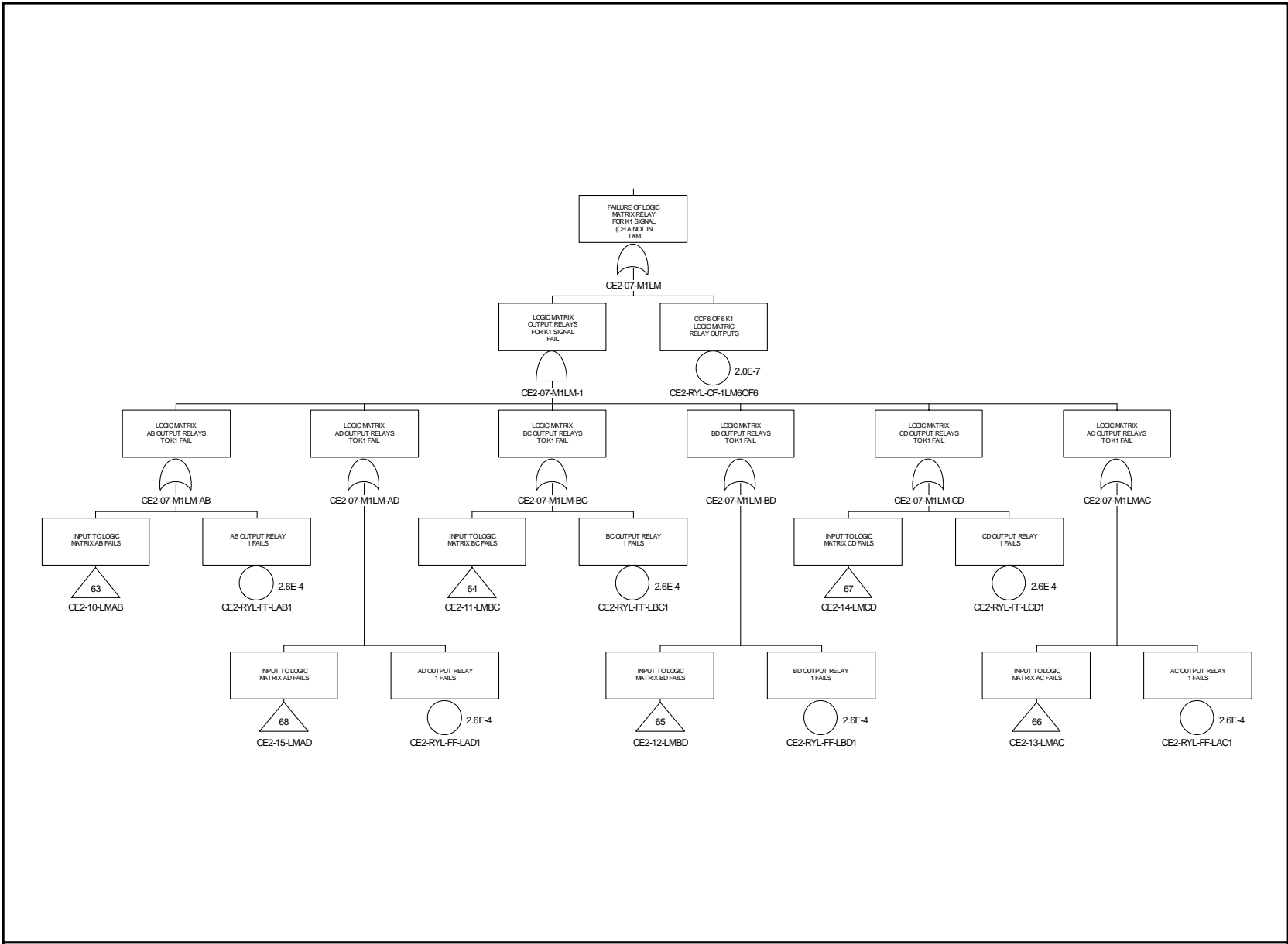
CE2-05-M4 - FAILURE OF TRIP CIRCUIT BREAKER TCB-4



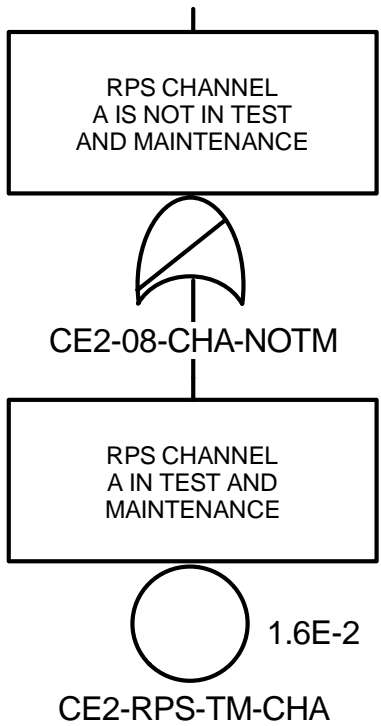


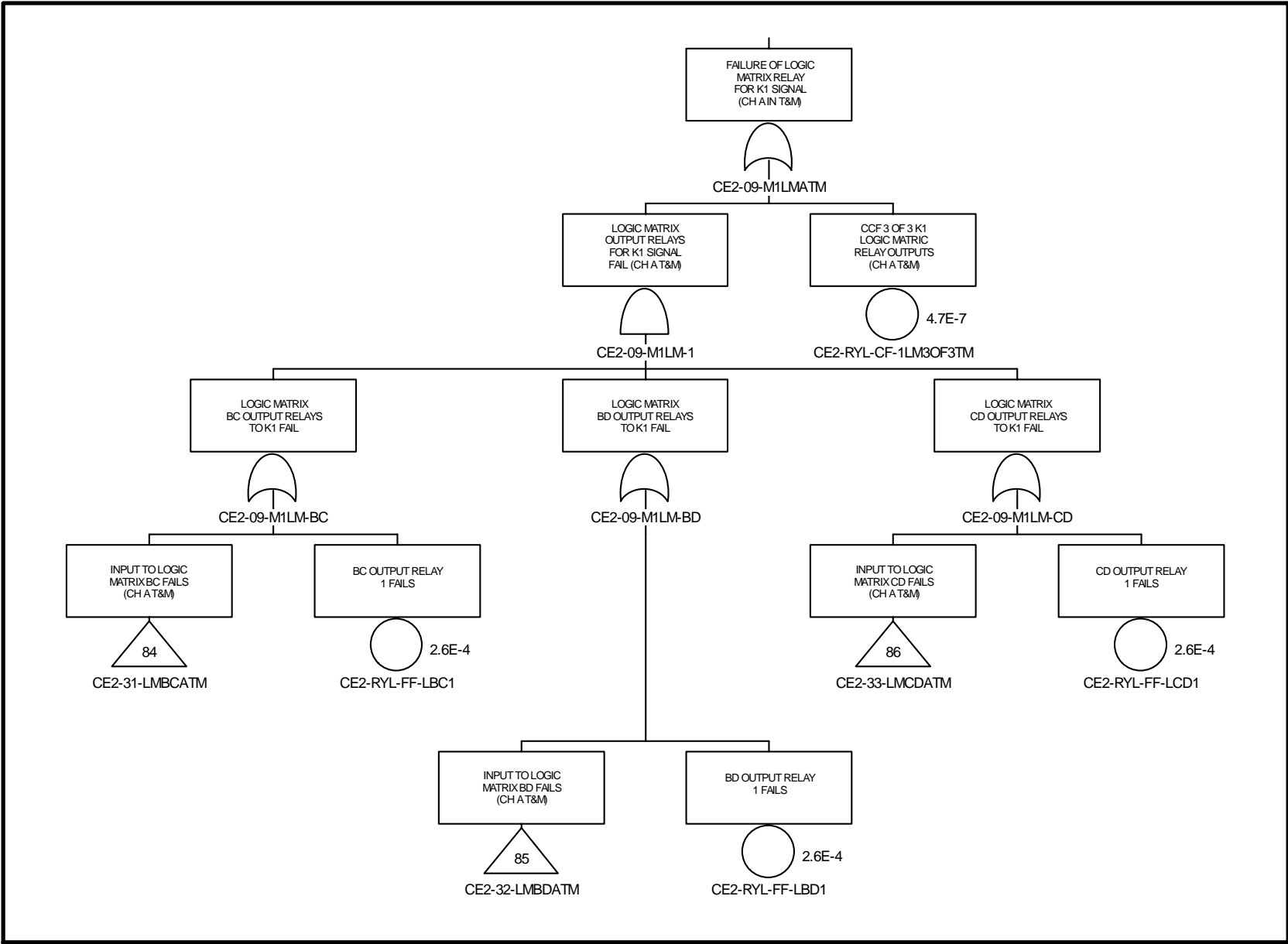
CE2-05-M8 - FAILURE OF TRIP CIRCUIT BREAKER TCB-8



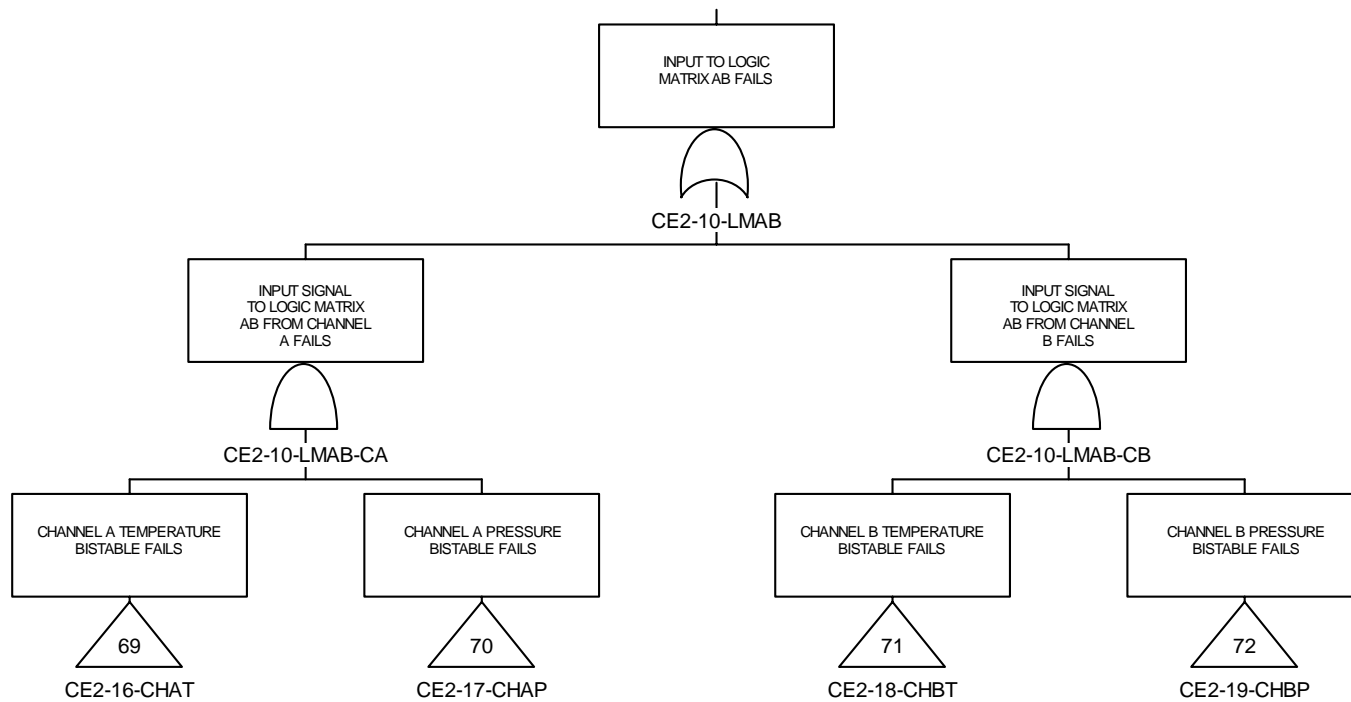


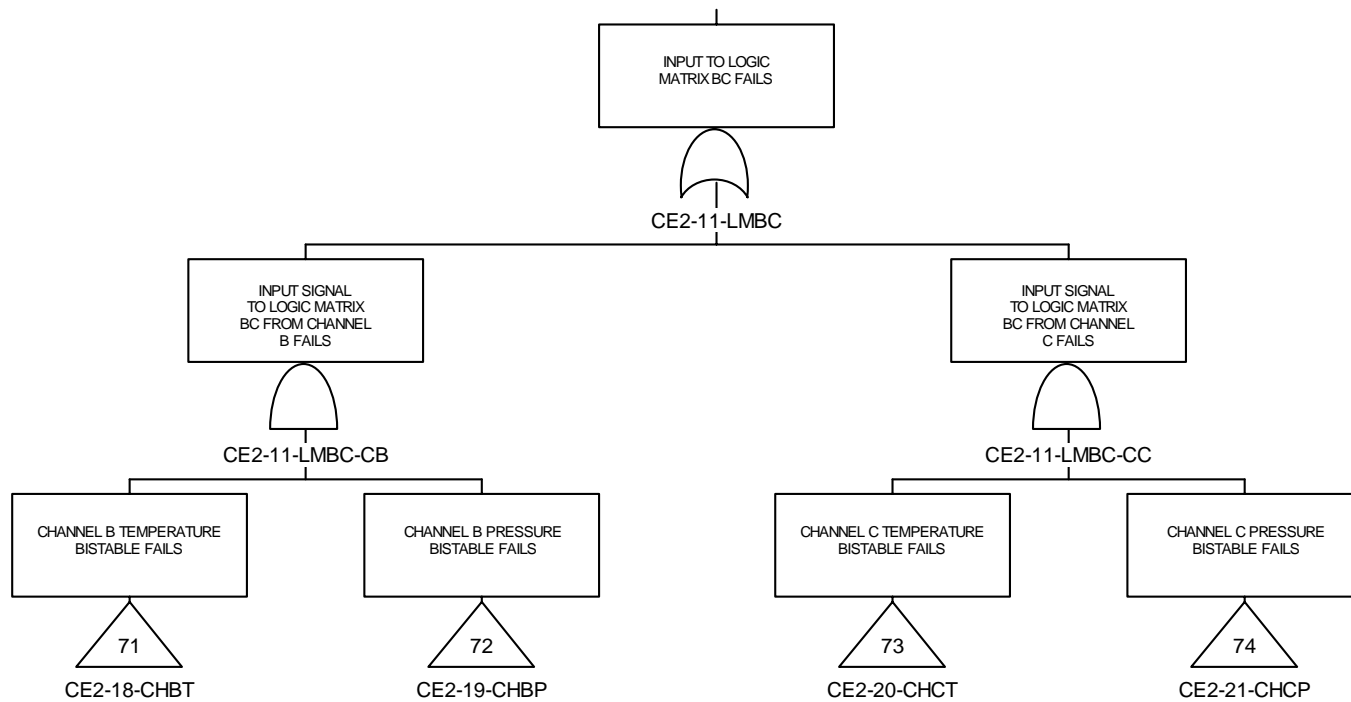
CE2-07-M1LM - FAILURE OF LOGIC MATRIX RELAYS FOR K1 SIGNAL

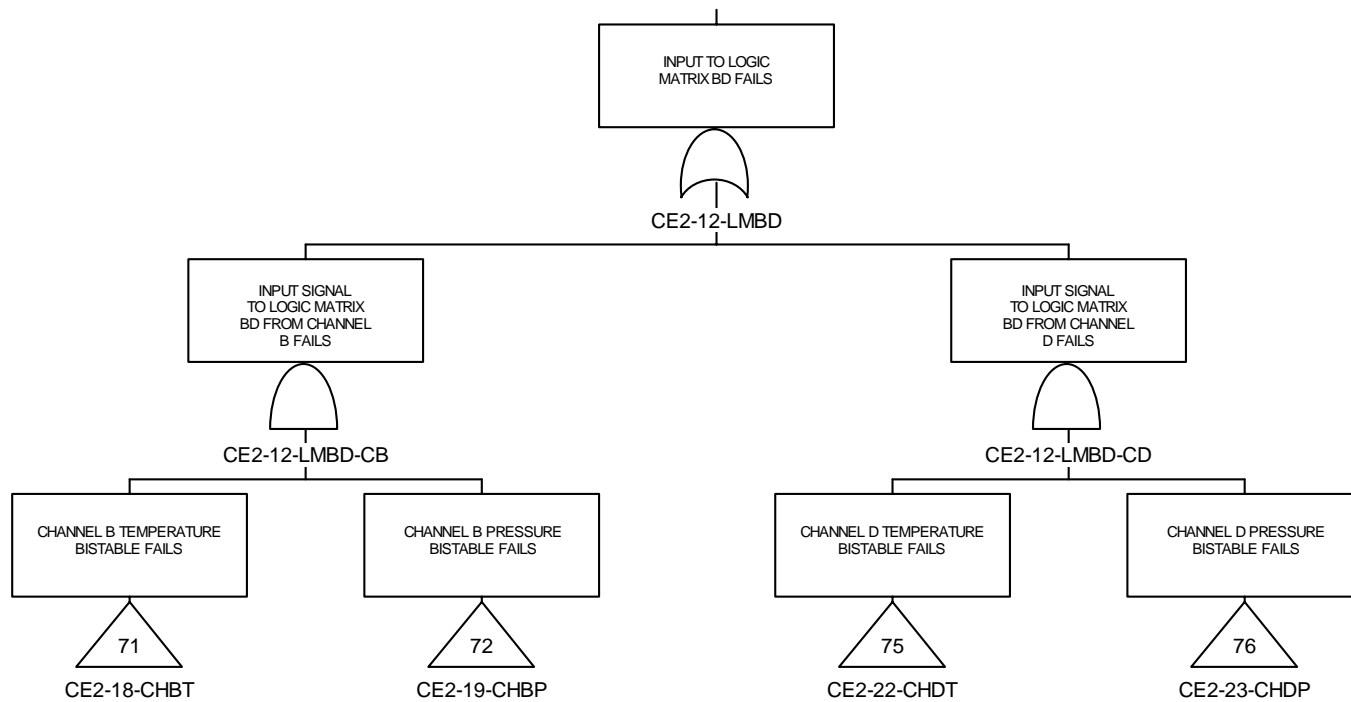


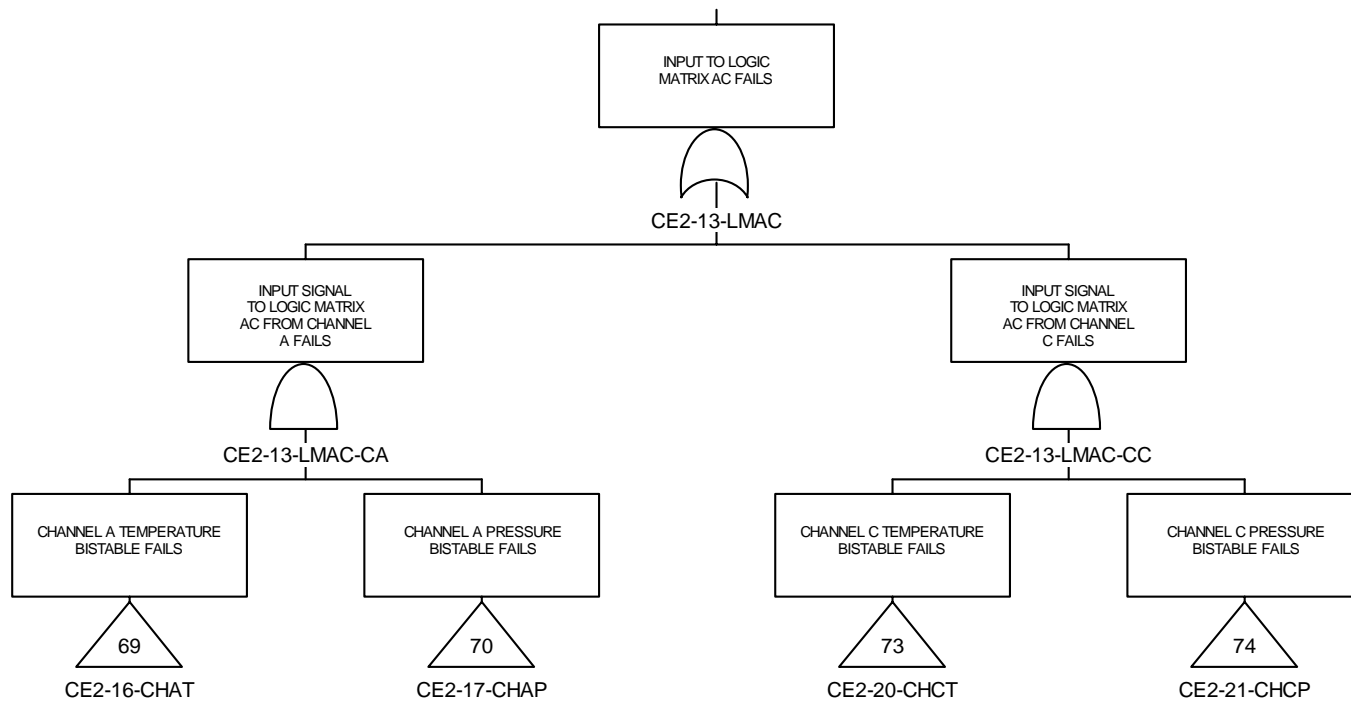


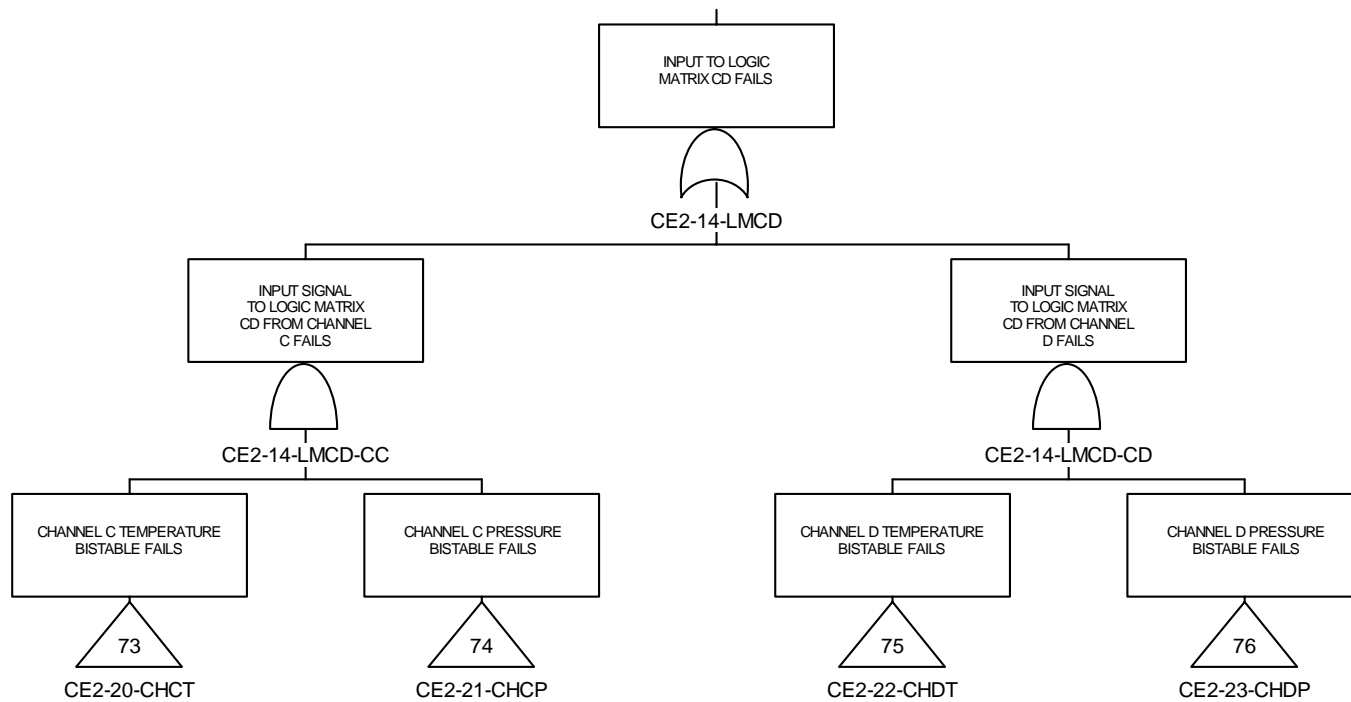
CE2-09-M1LMATM - FAILURE OF LOGIC MATRIX RELAYS FOR K1 SIGNAL (CH A T&M)

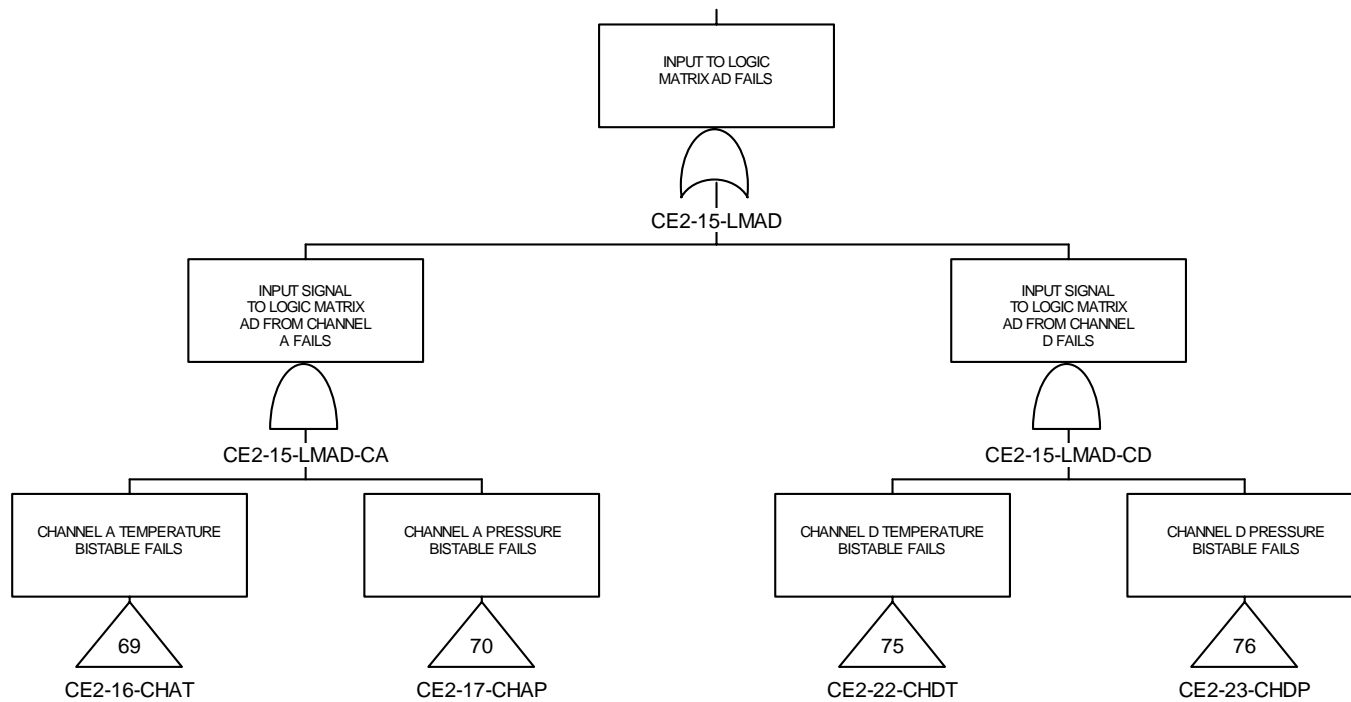


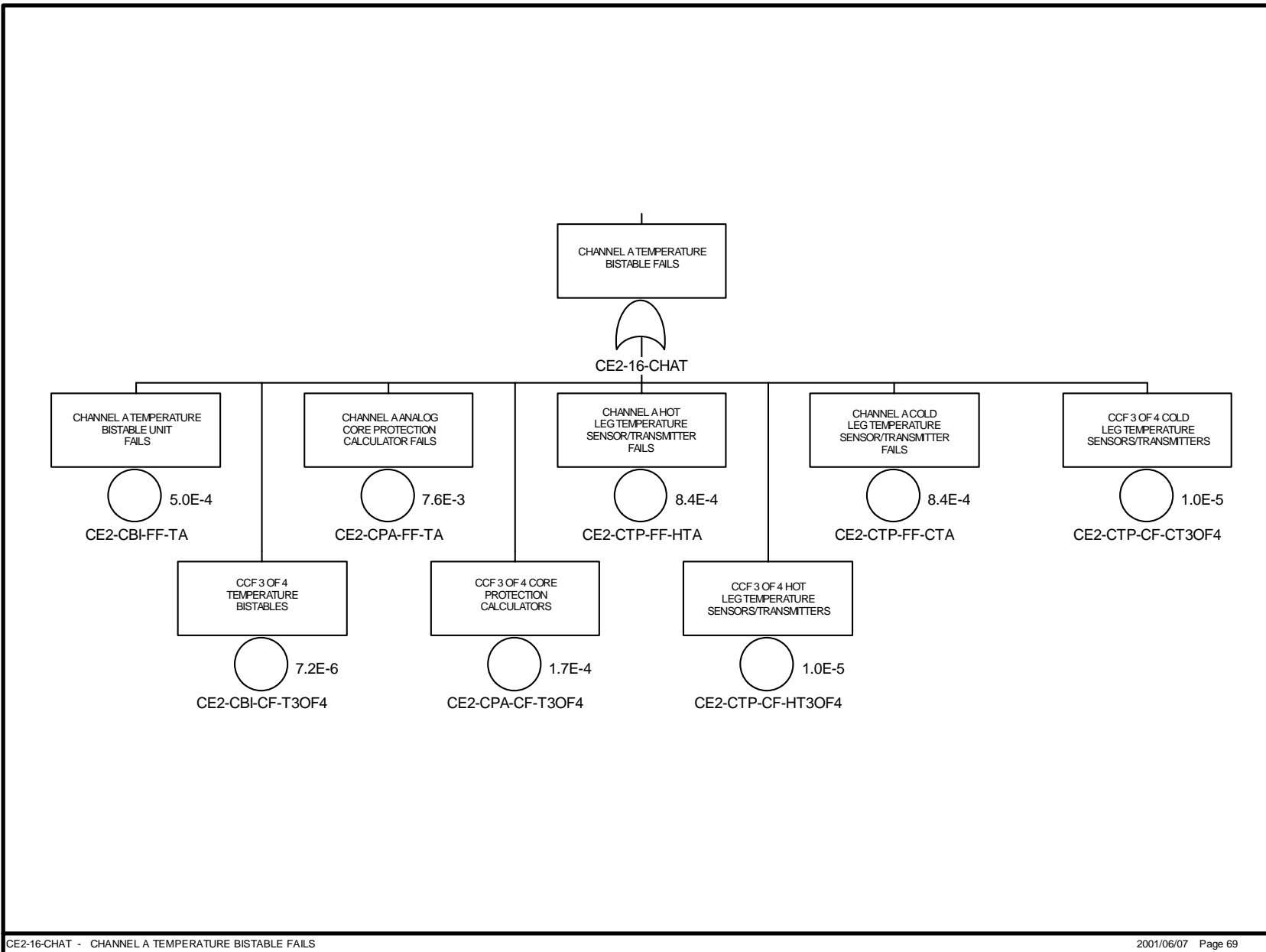


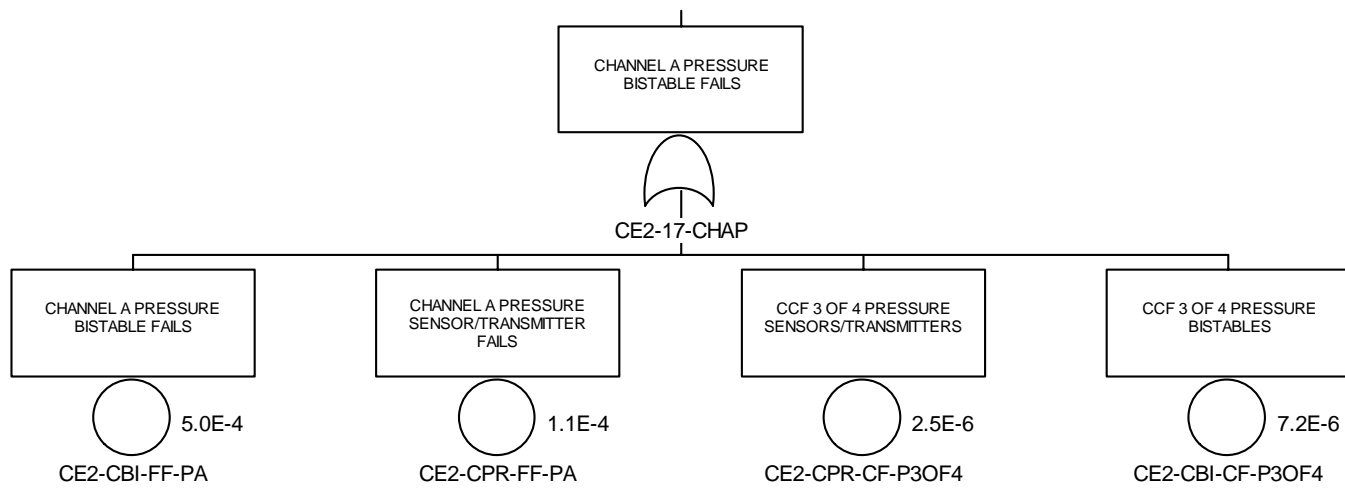


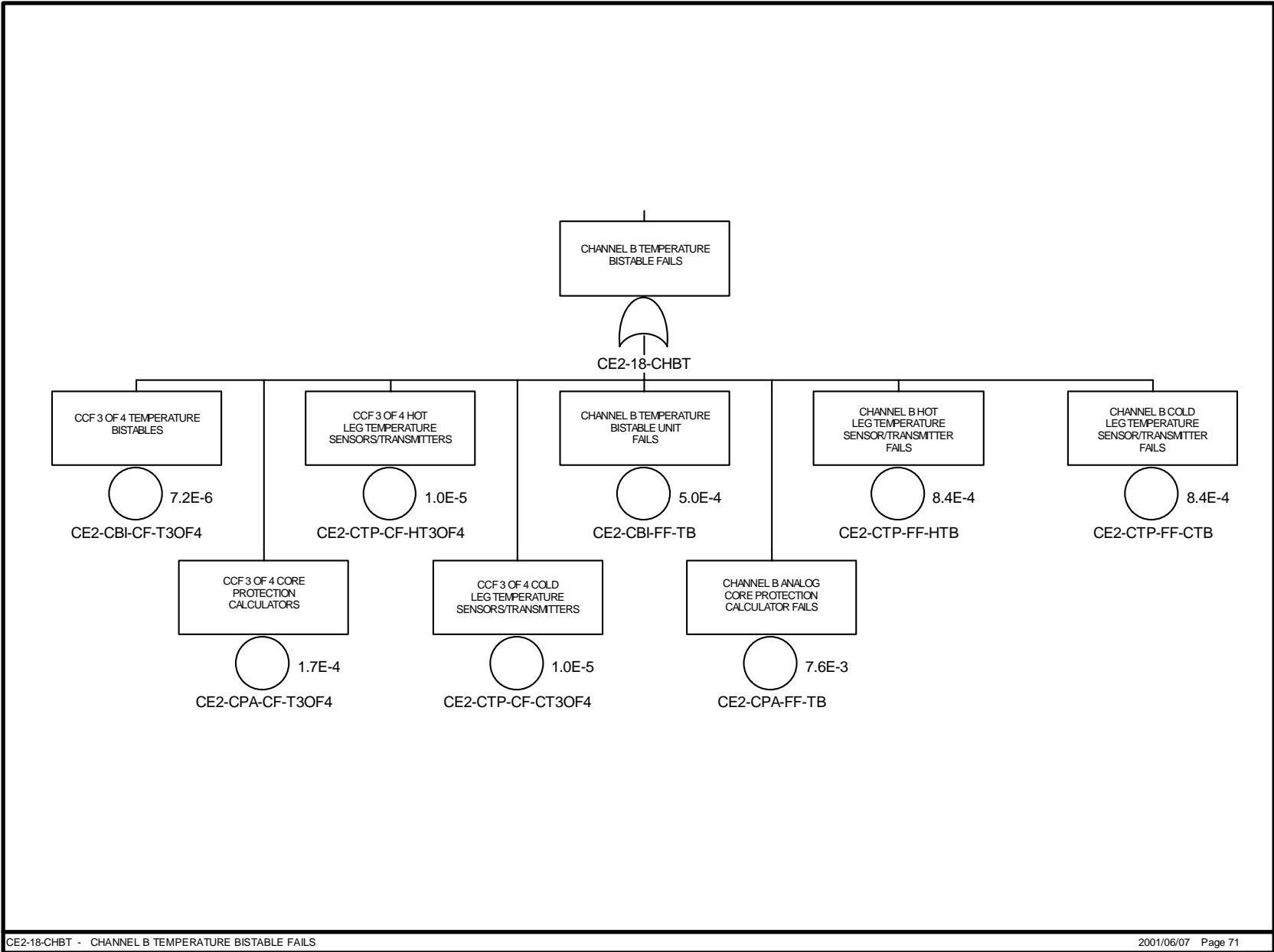


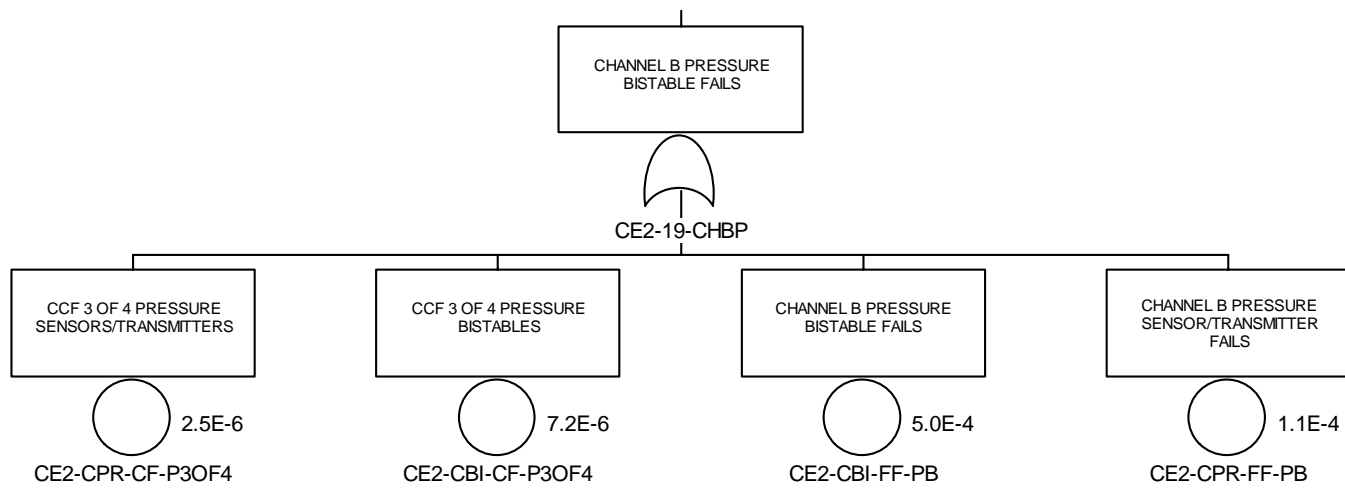


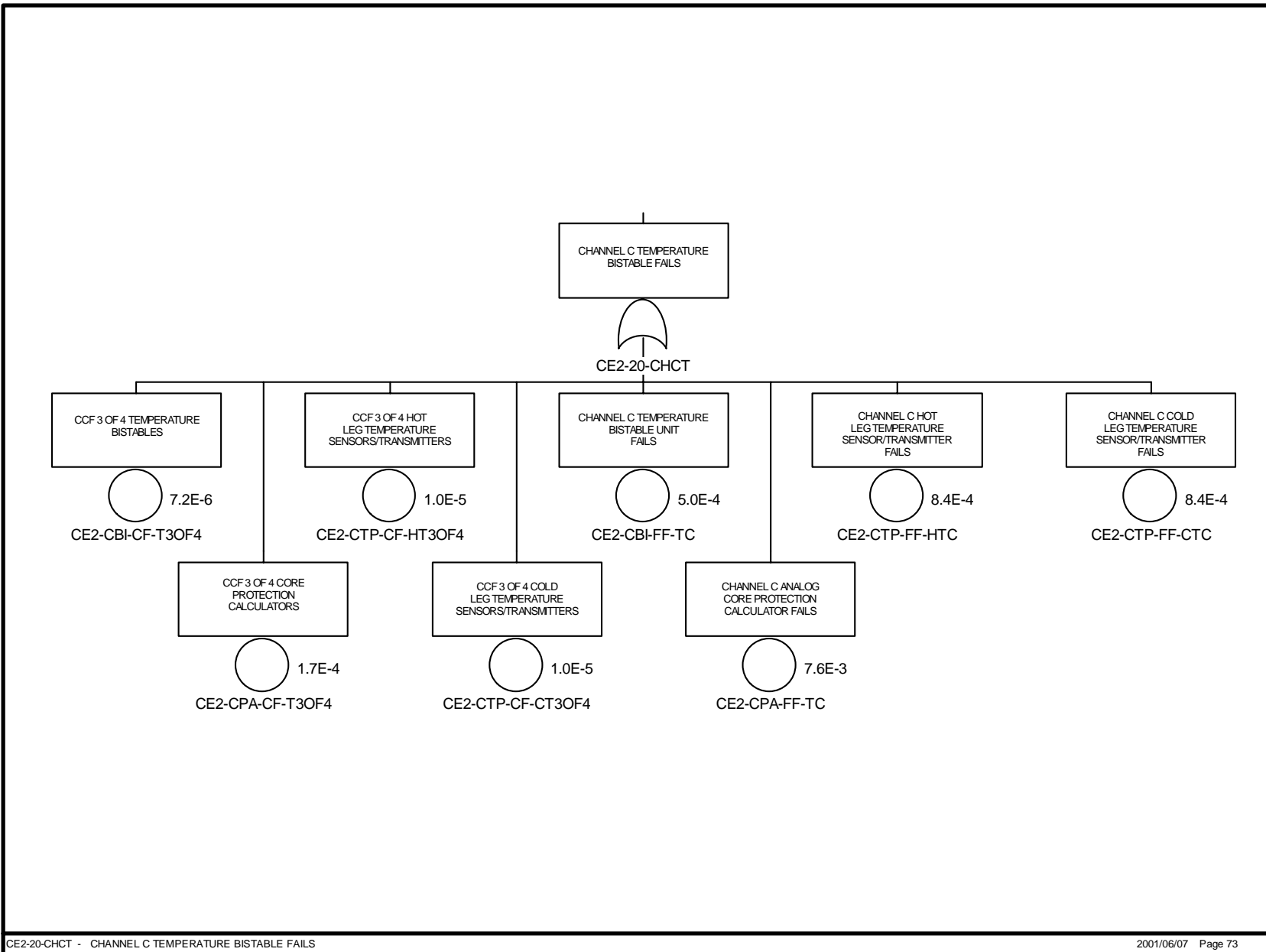


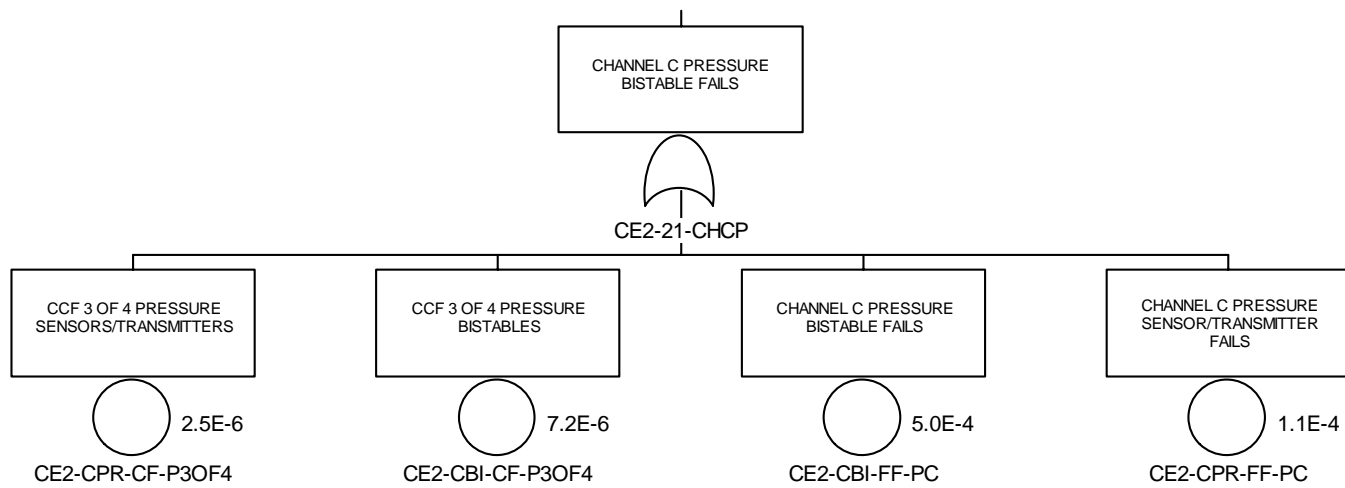


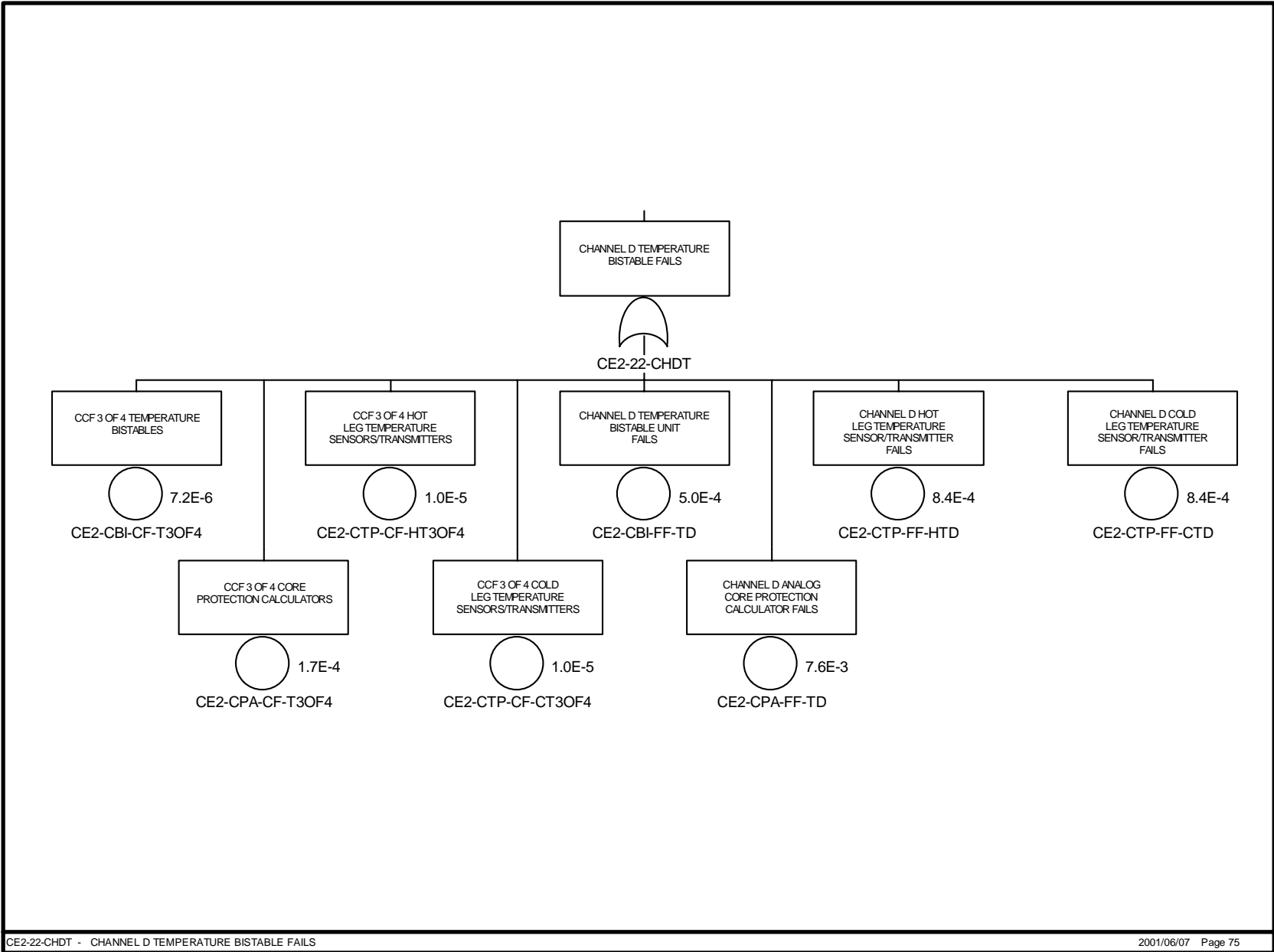


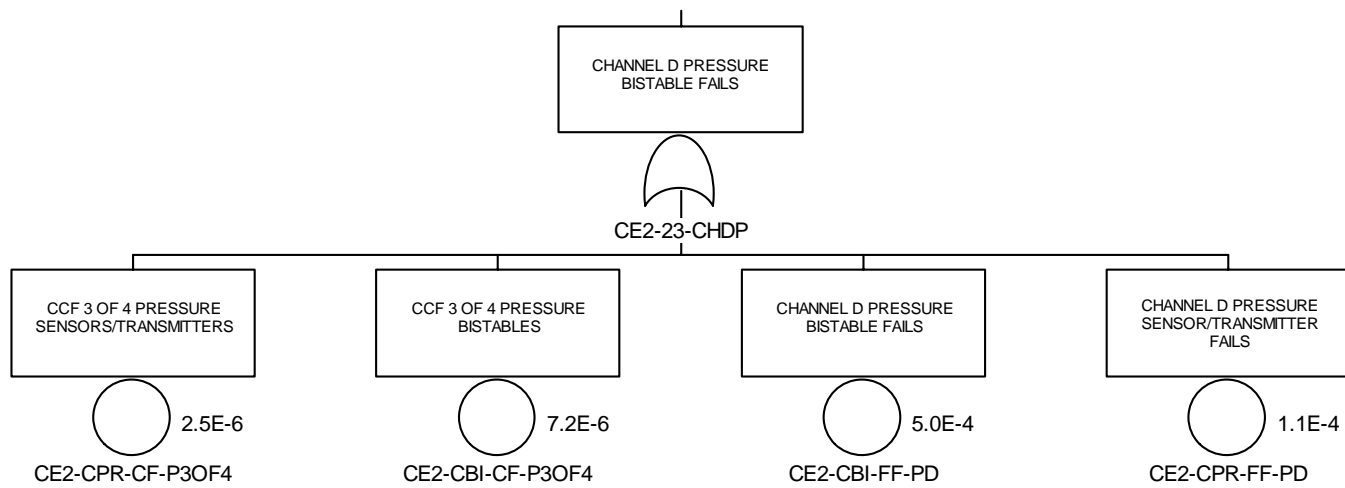


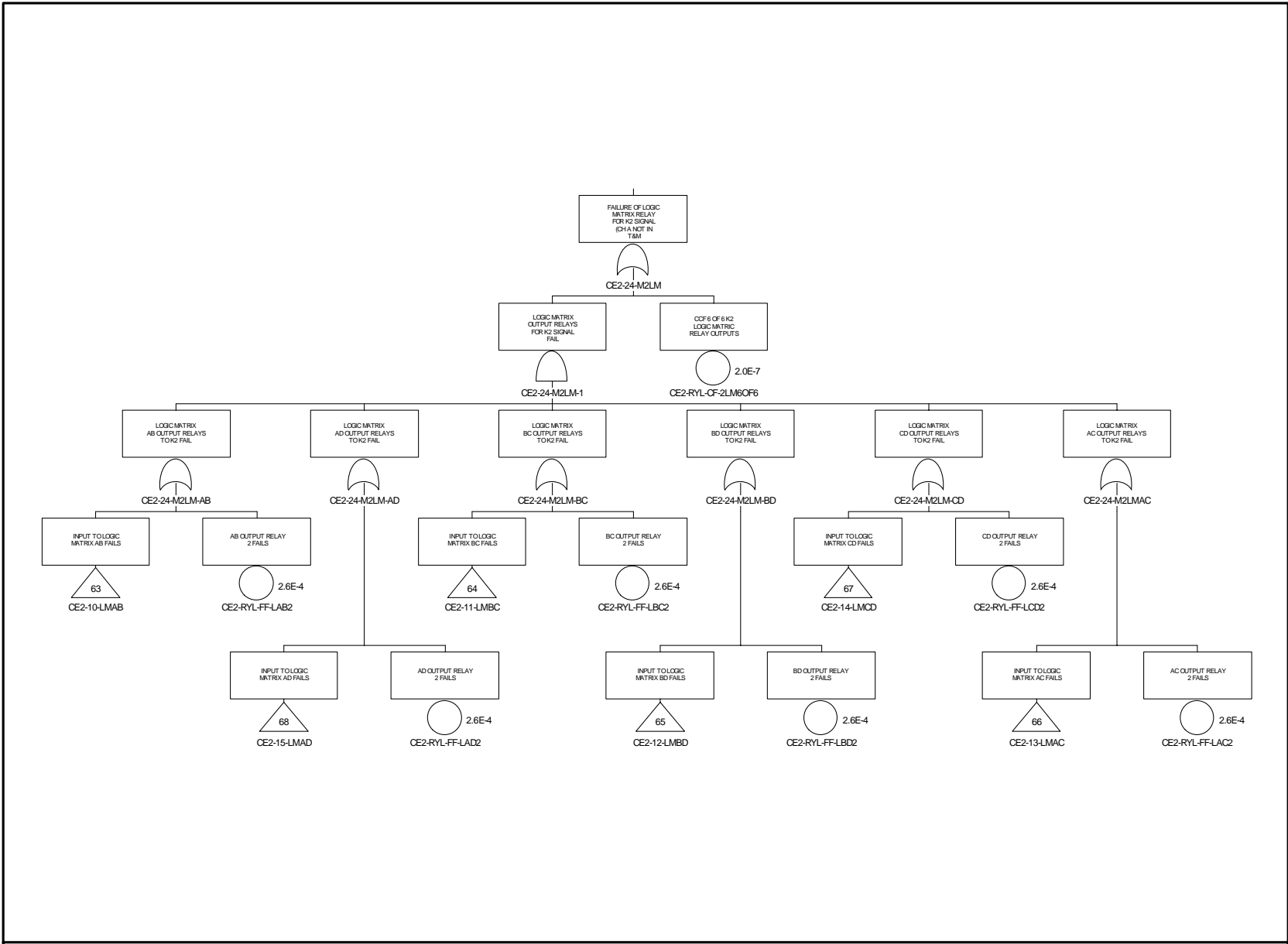




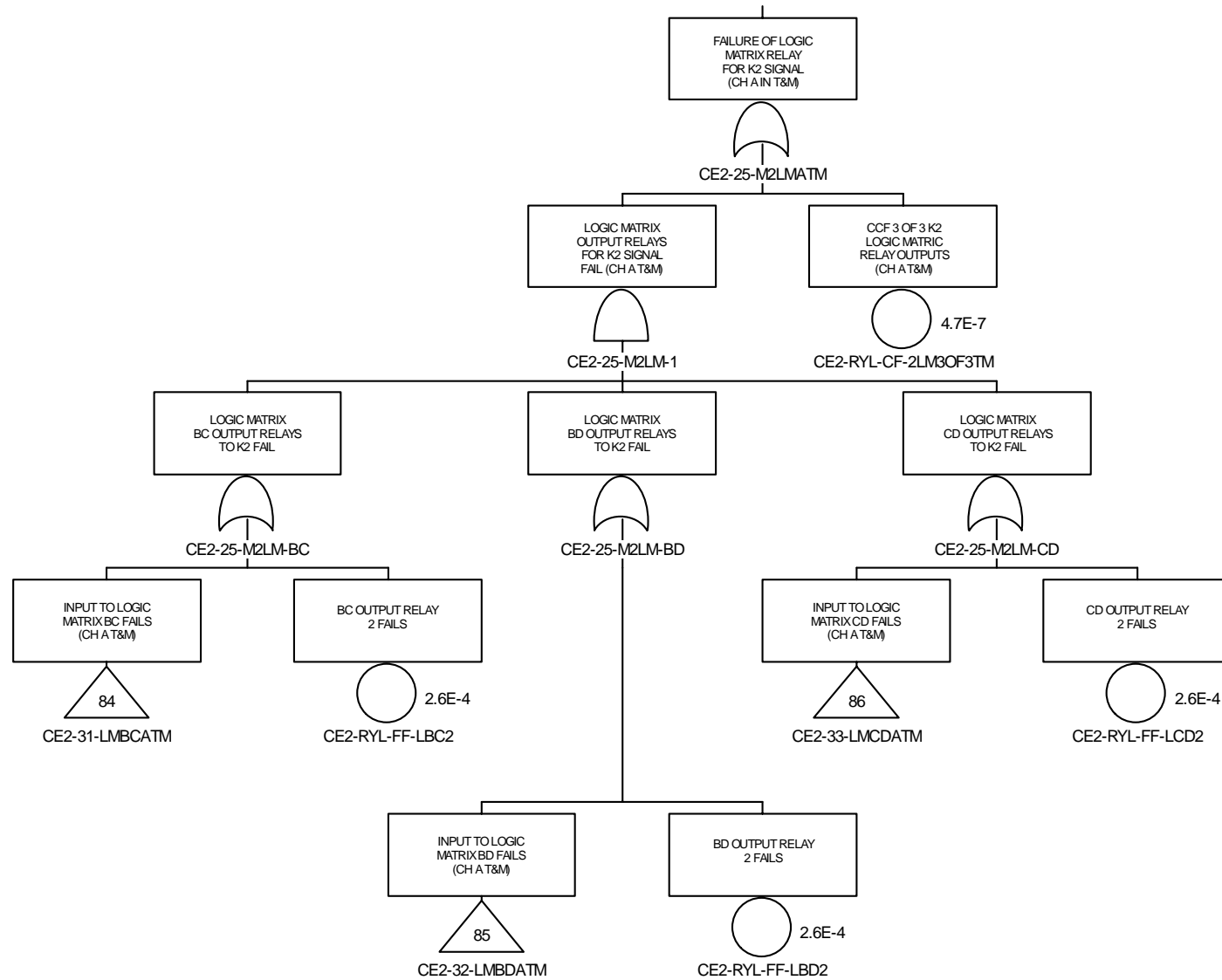


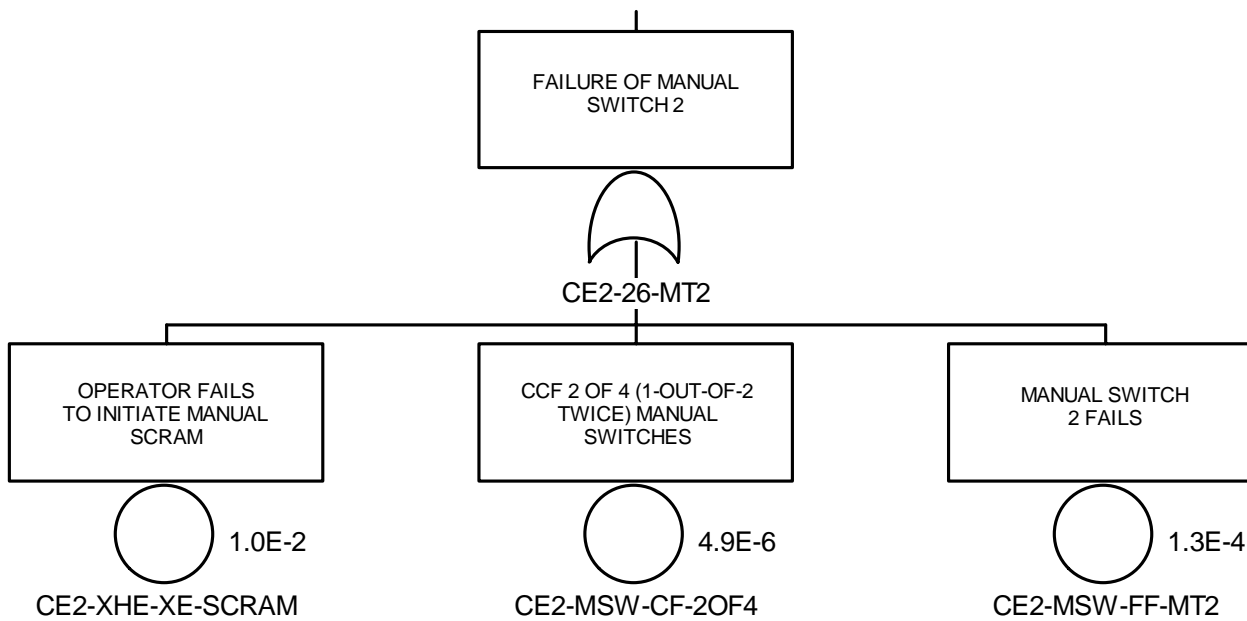


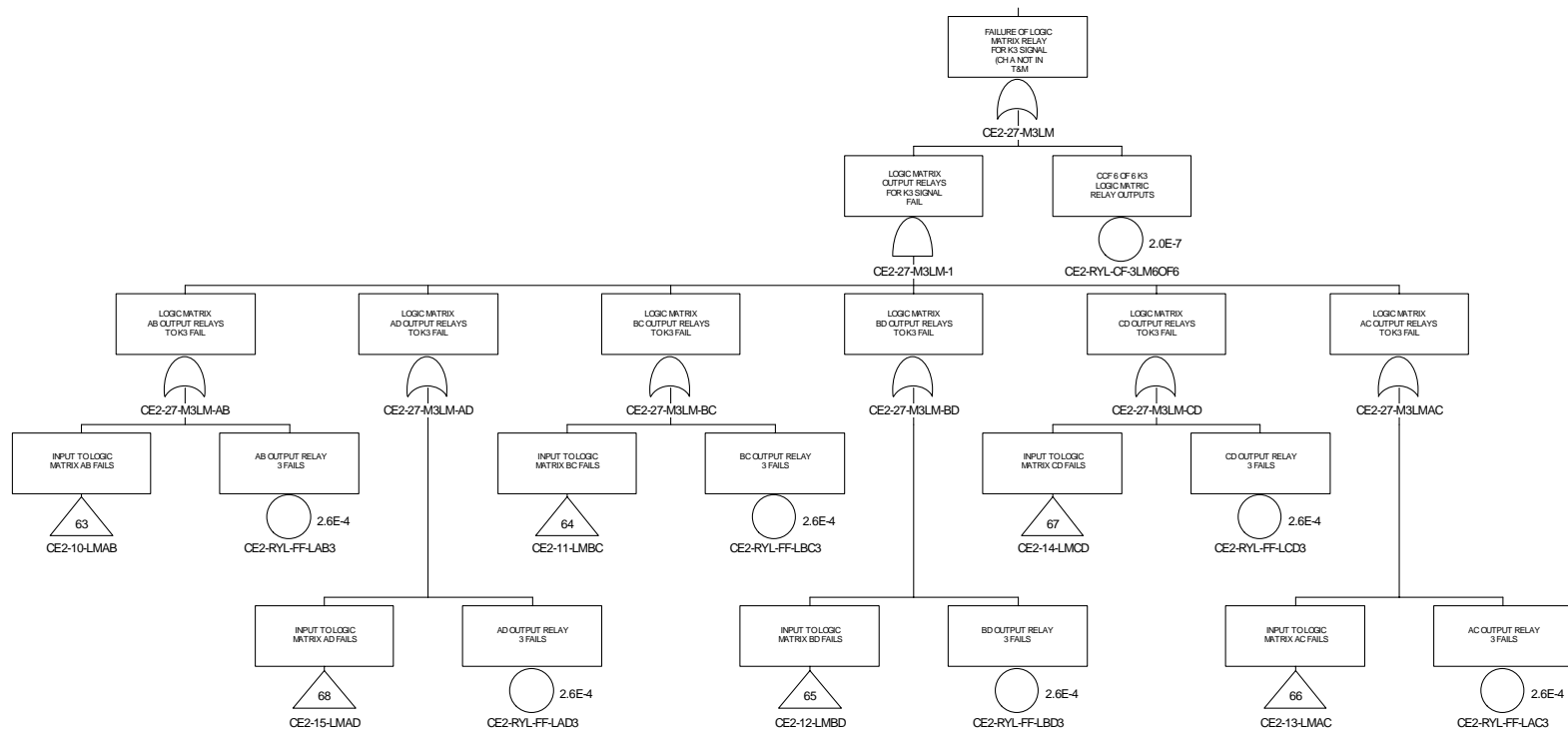


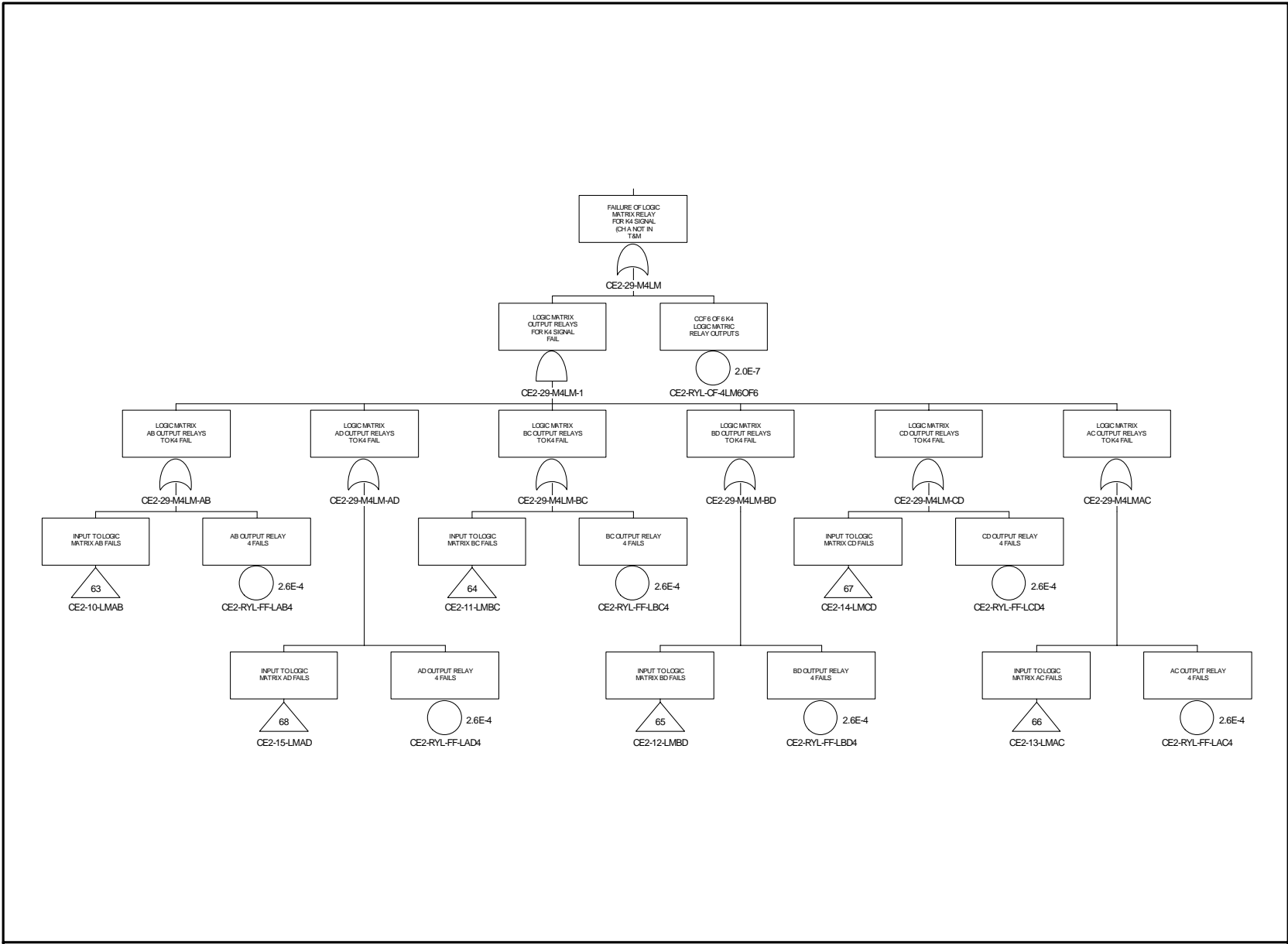


CE2-24-M2LM - FAILURE OF LOGIC MATRIX RELAYS FOR K2 SIGNAL

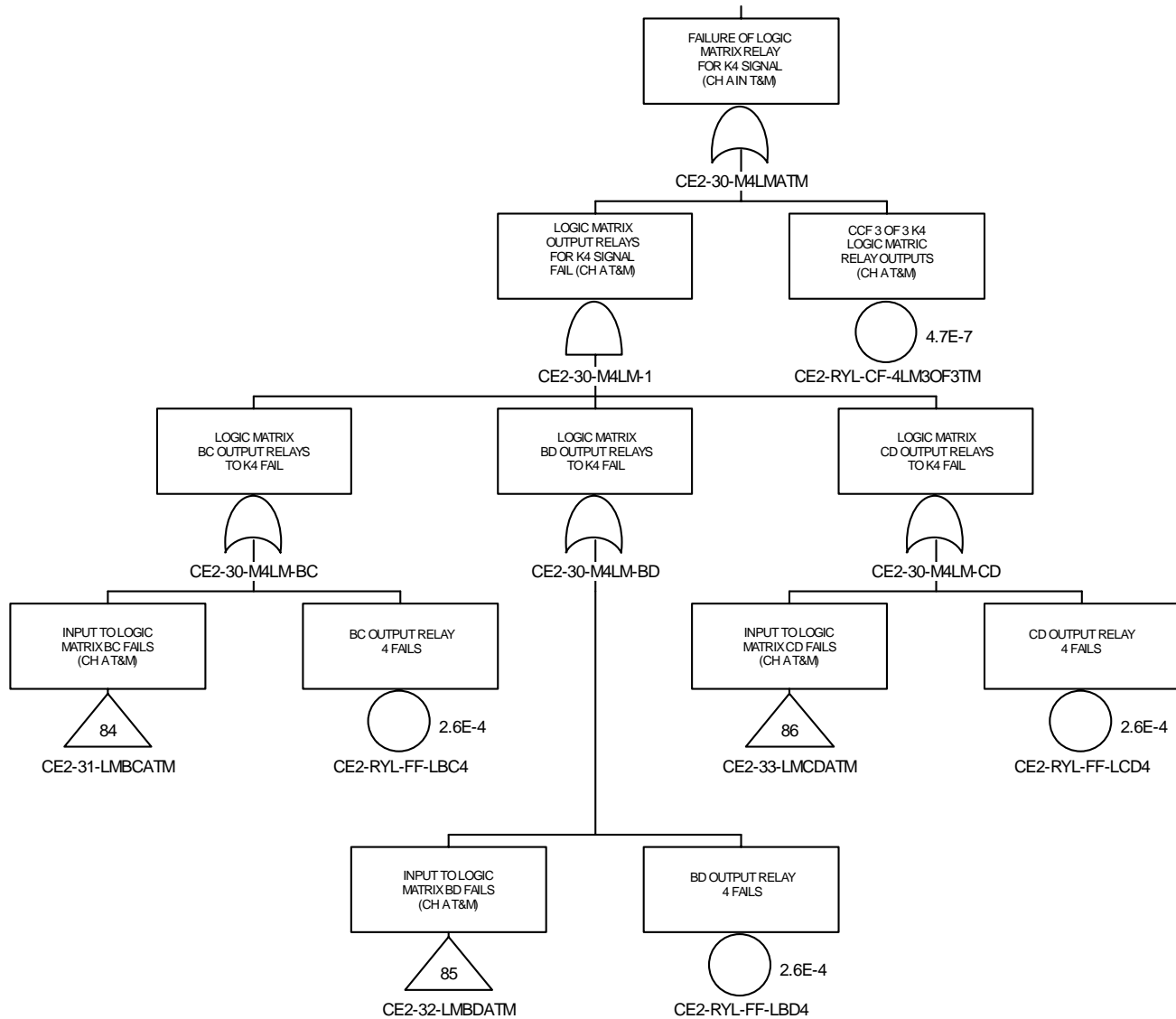


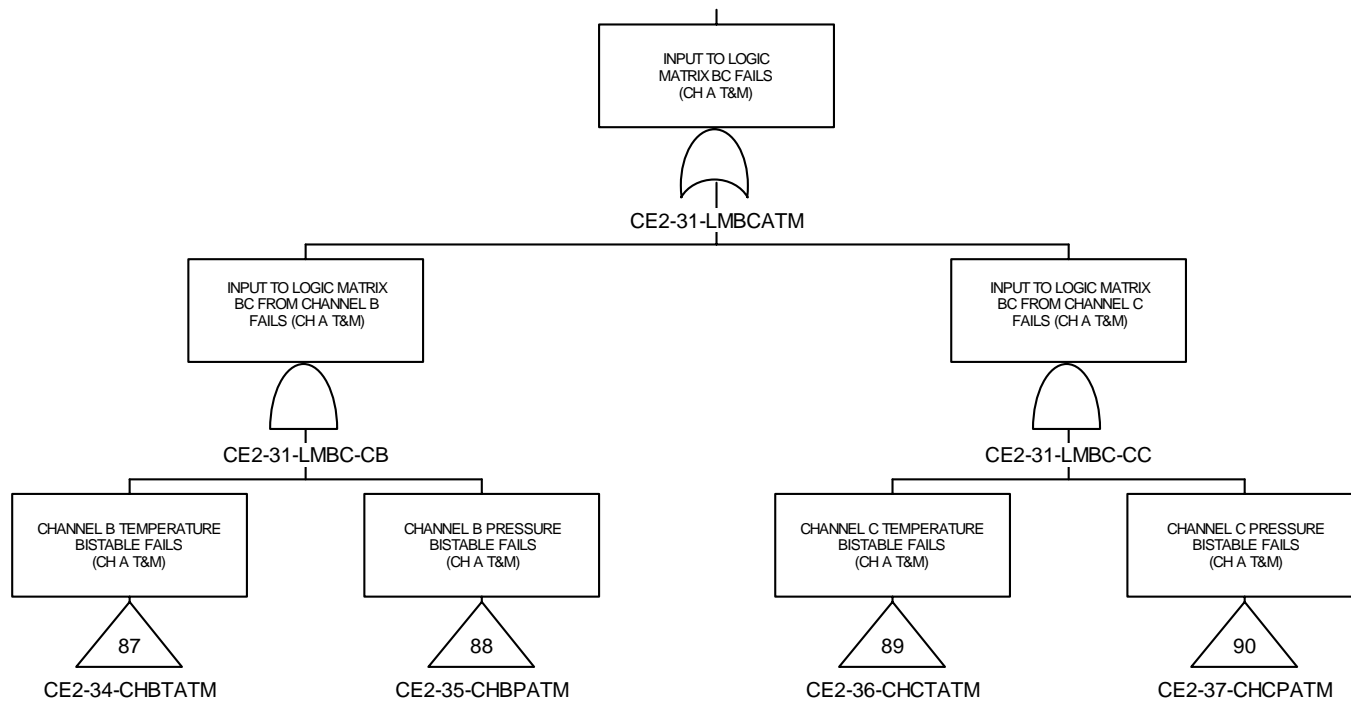


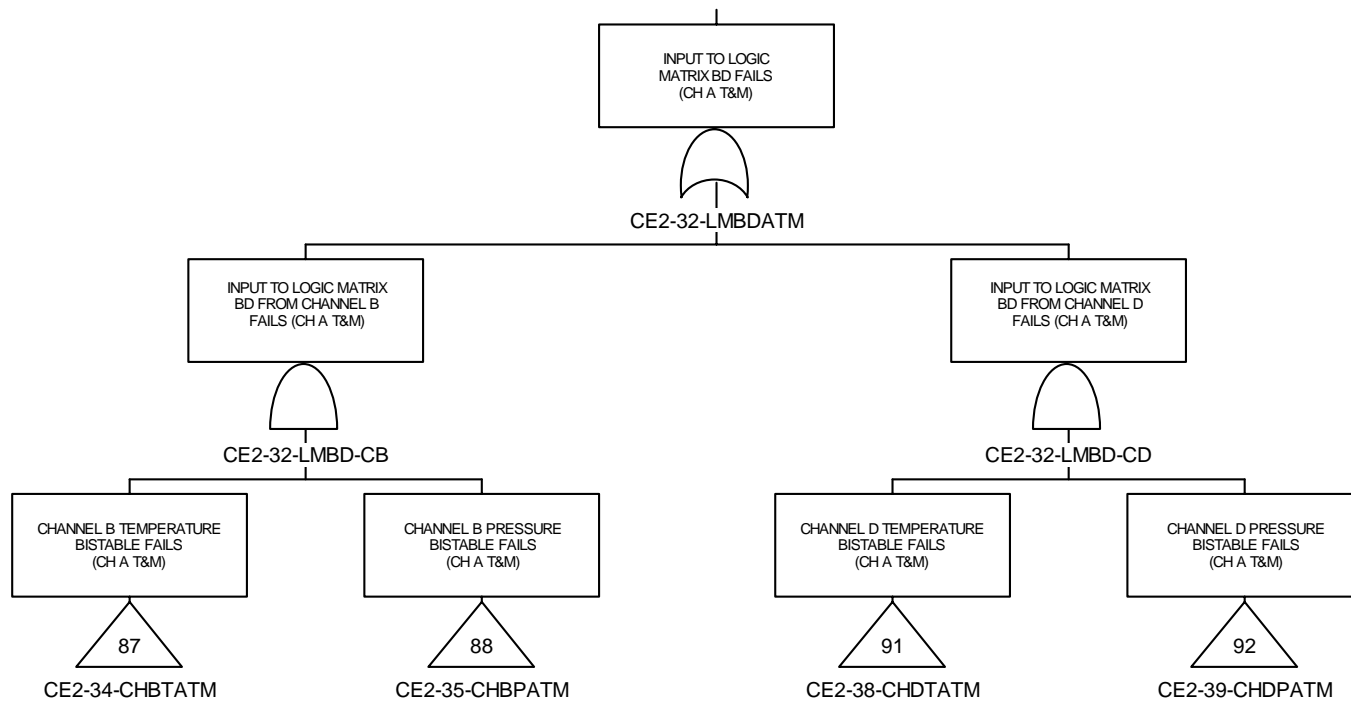


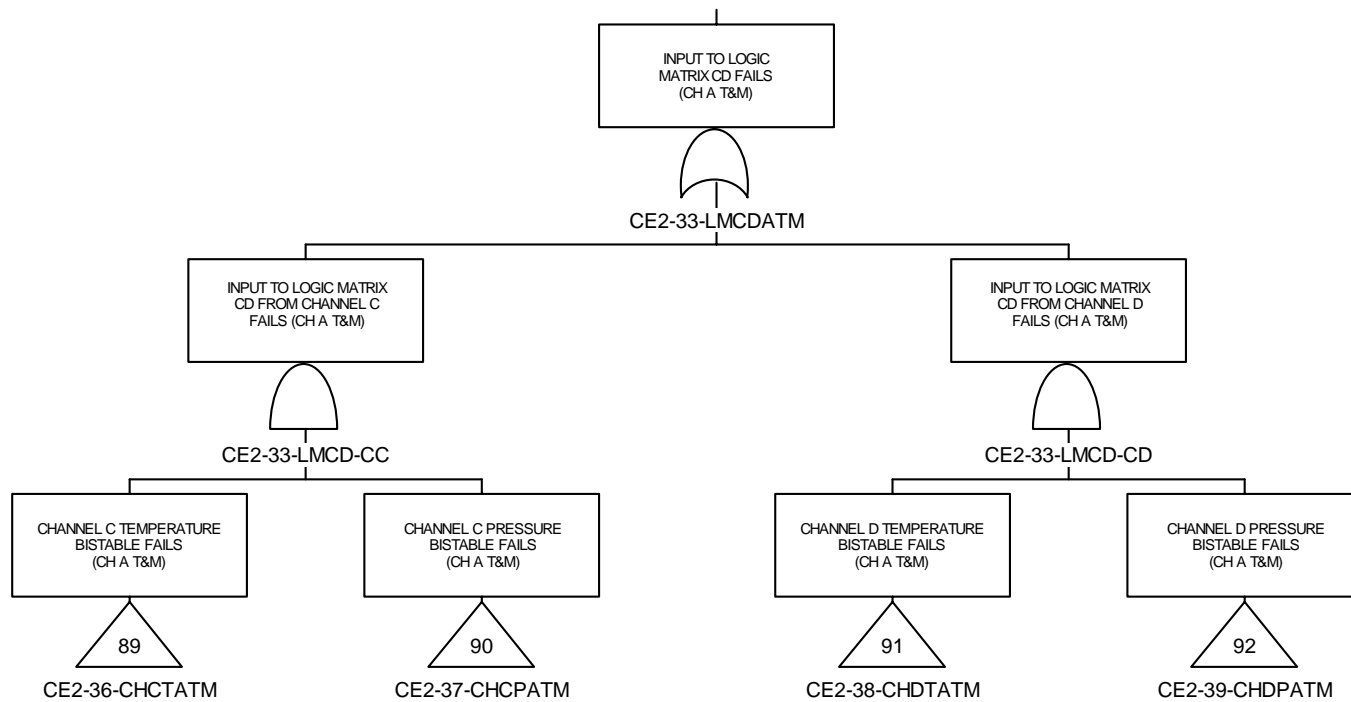


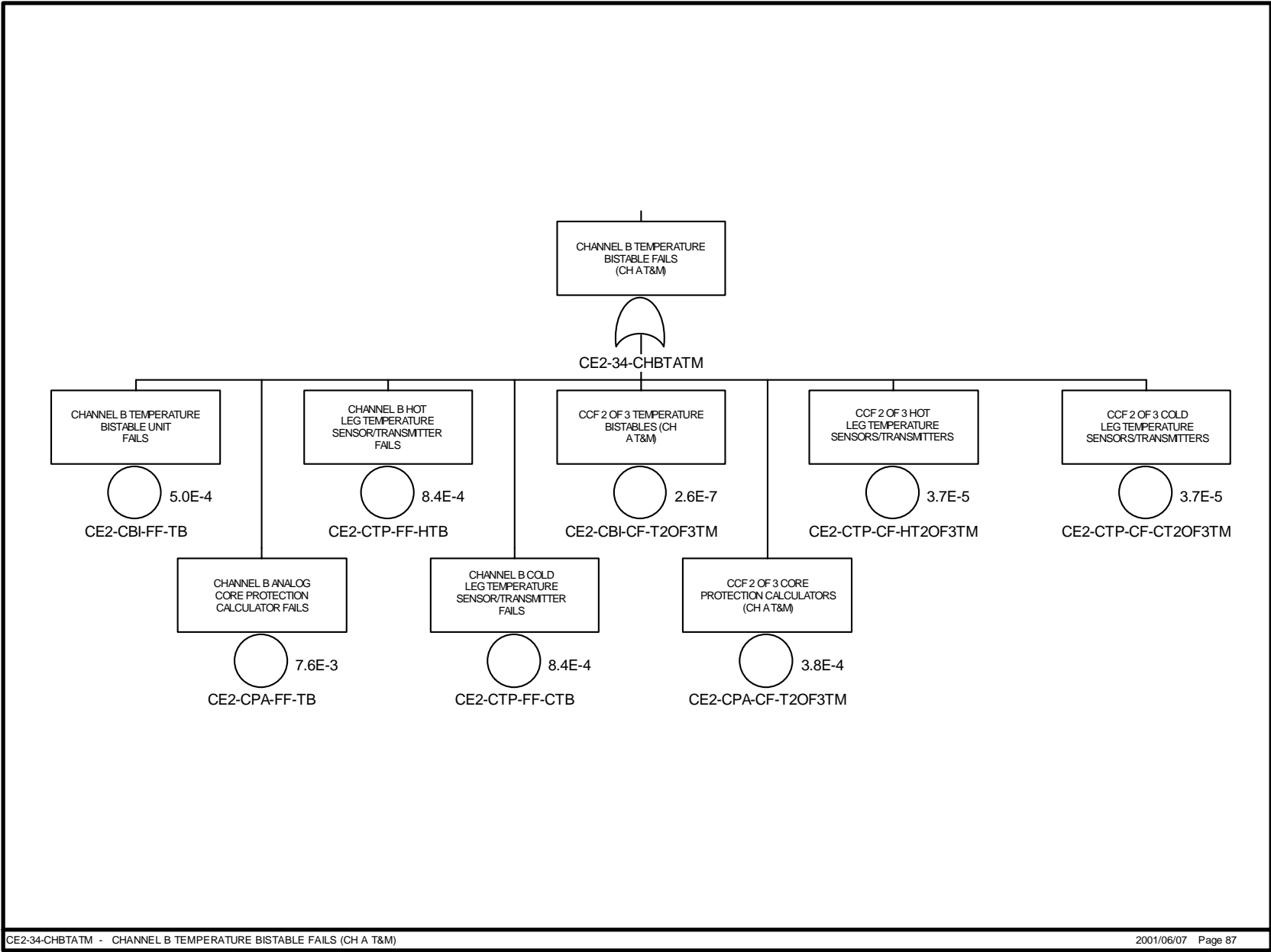
CE2-29-M4LM - FAILURE OF LOGIC MATRIX RELAYS FOR K4 SIGNAL

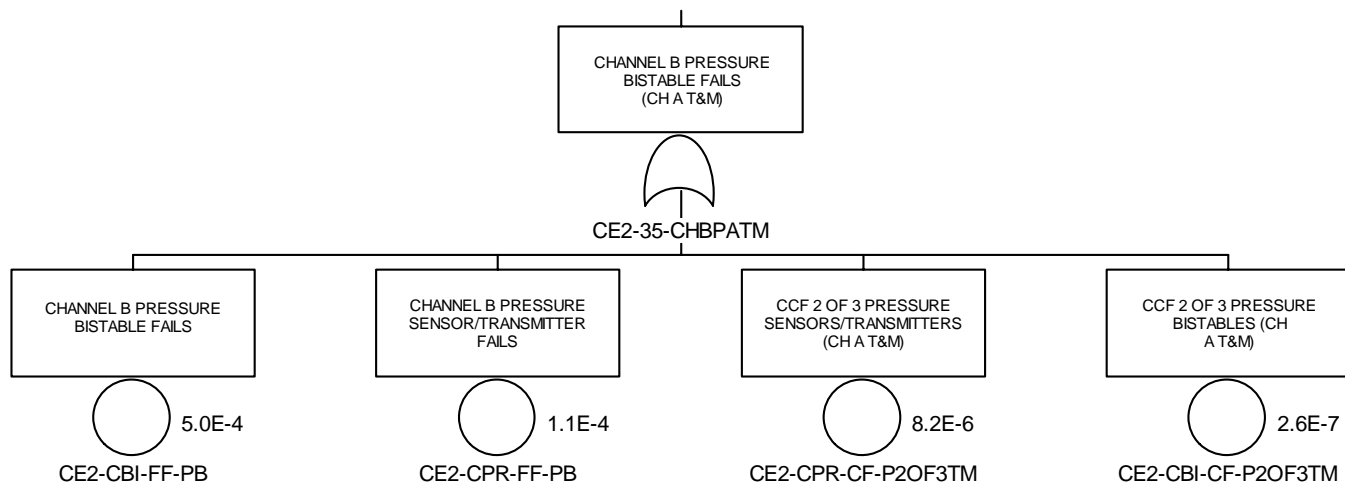


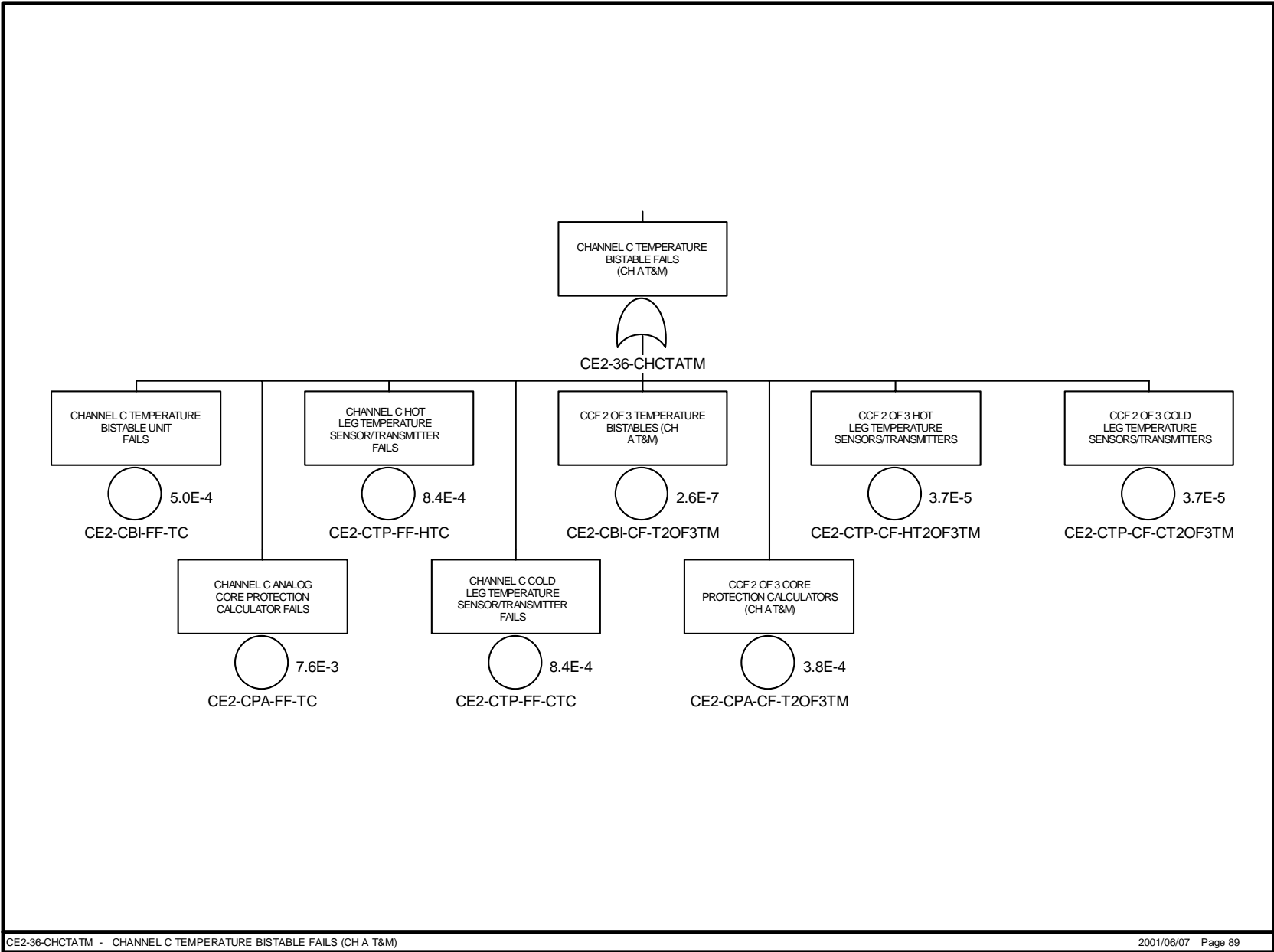


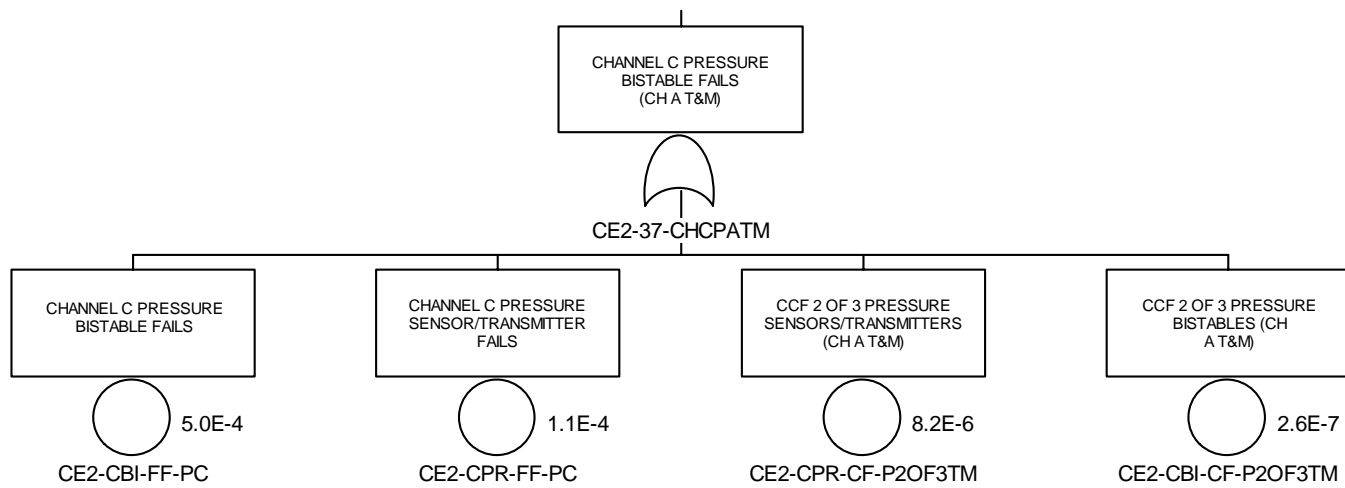


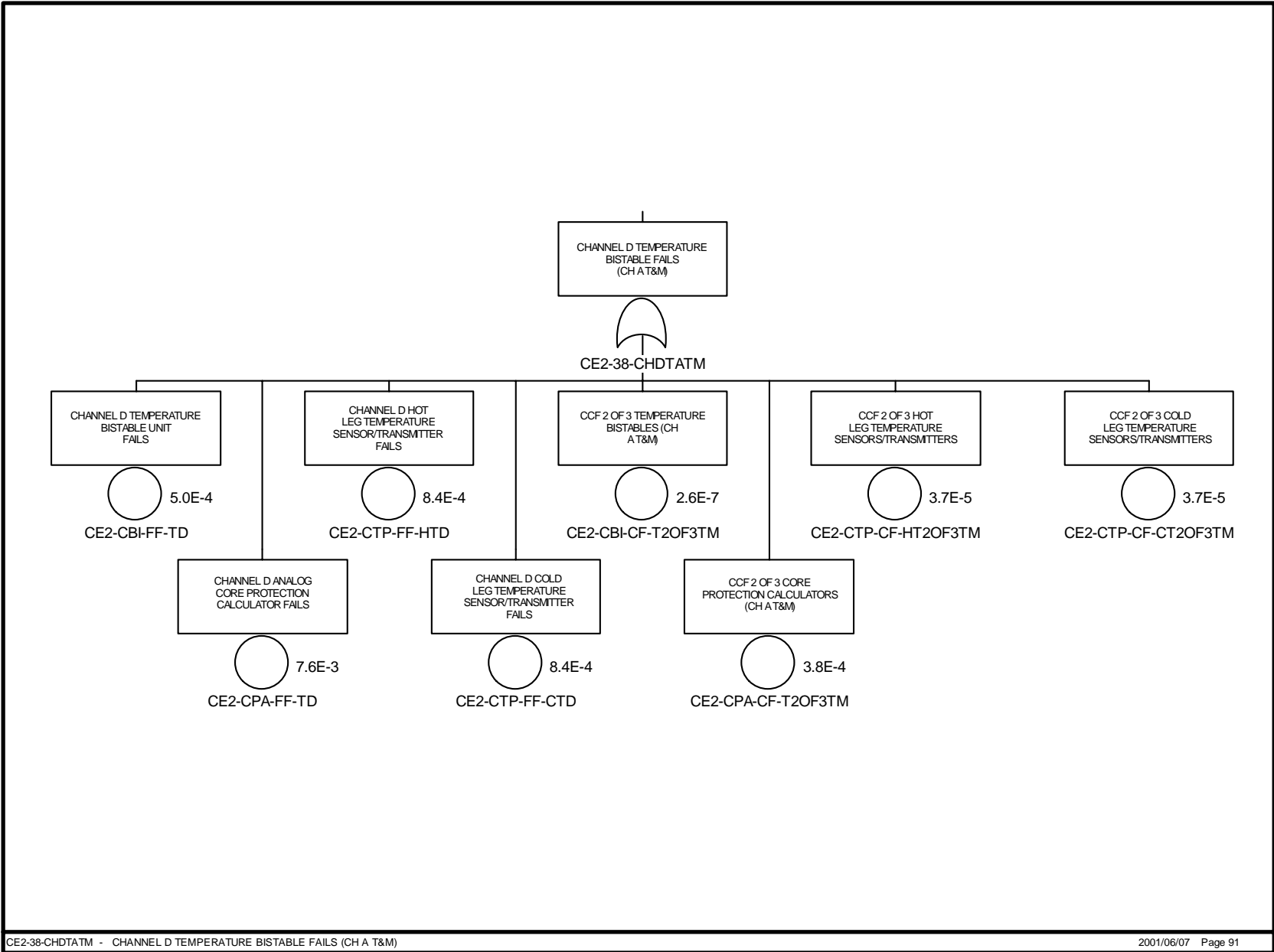


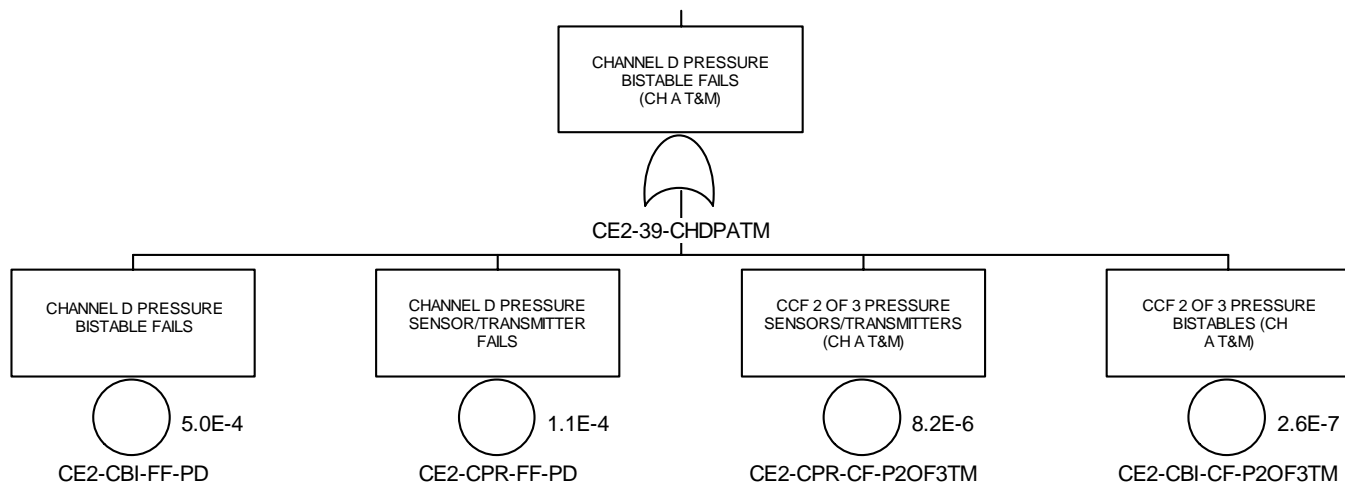


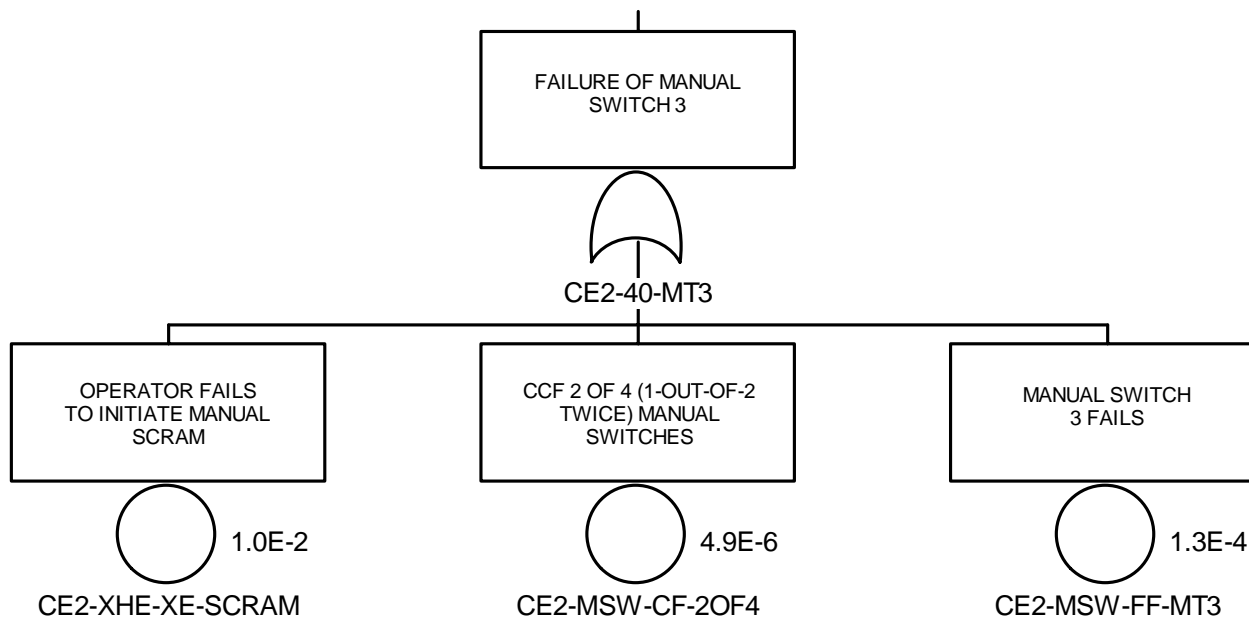


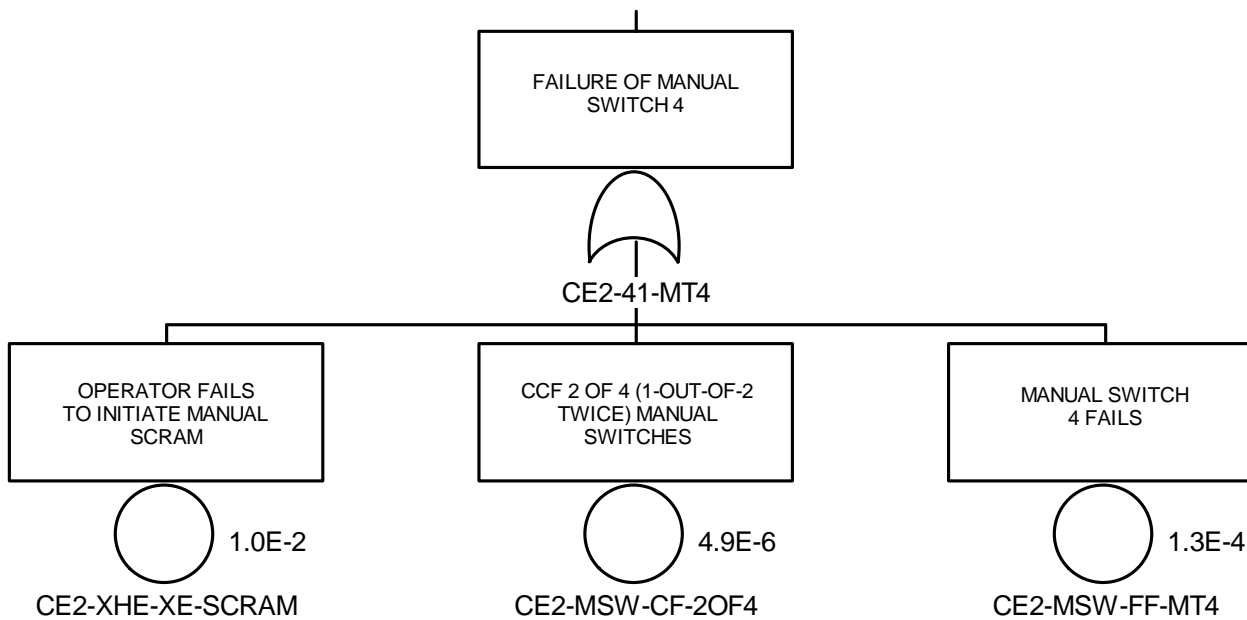




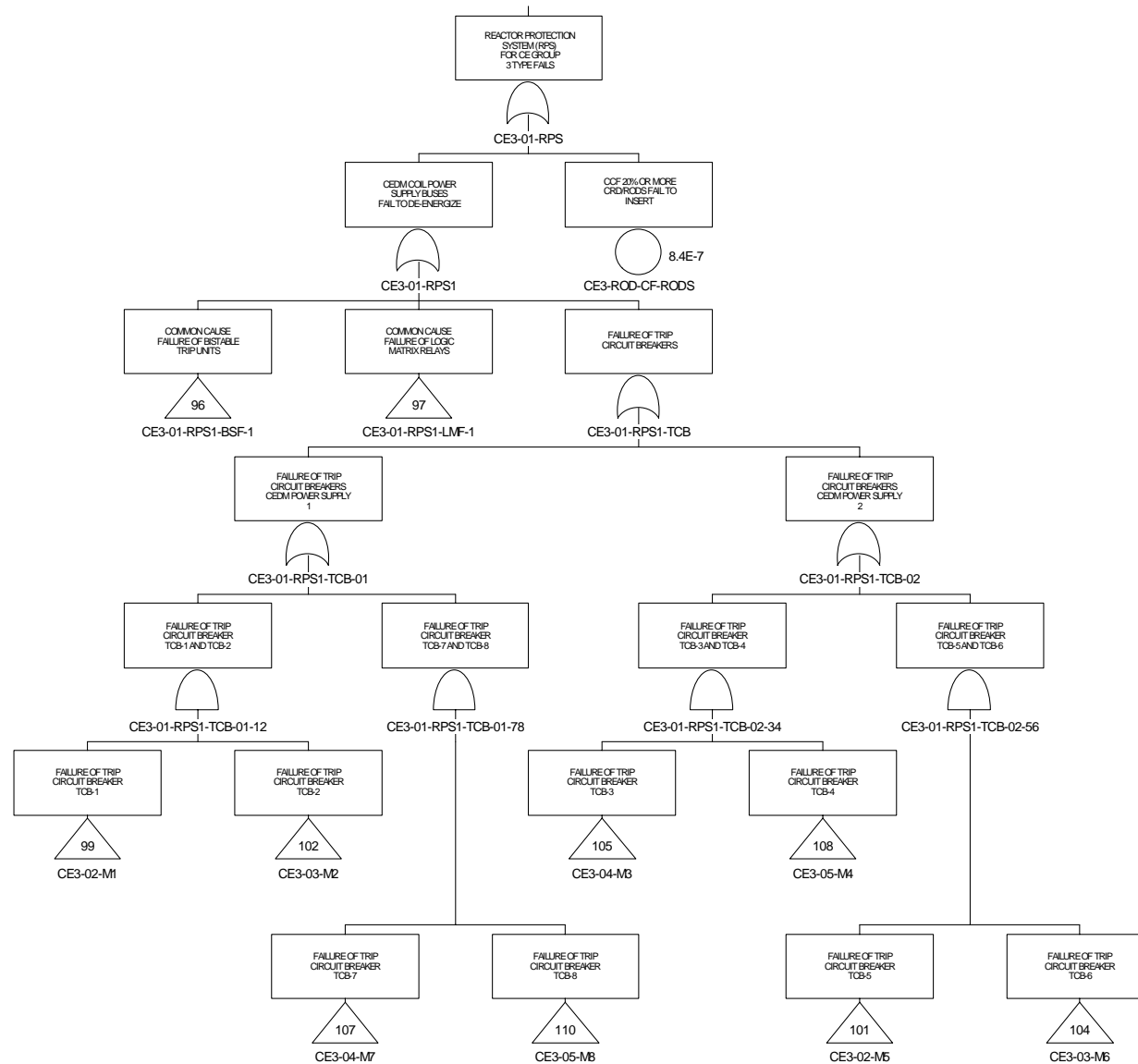


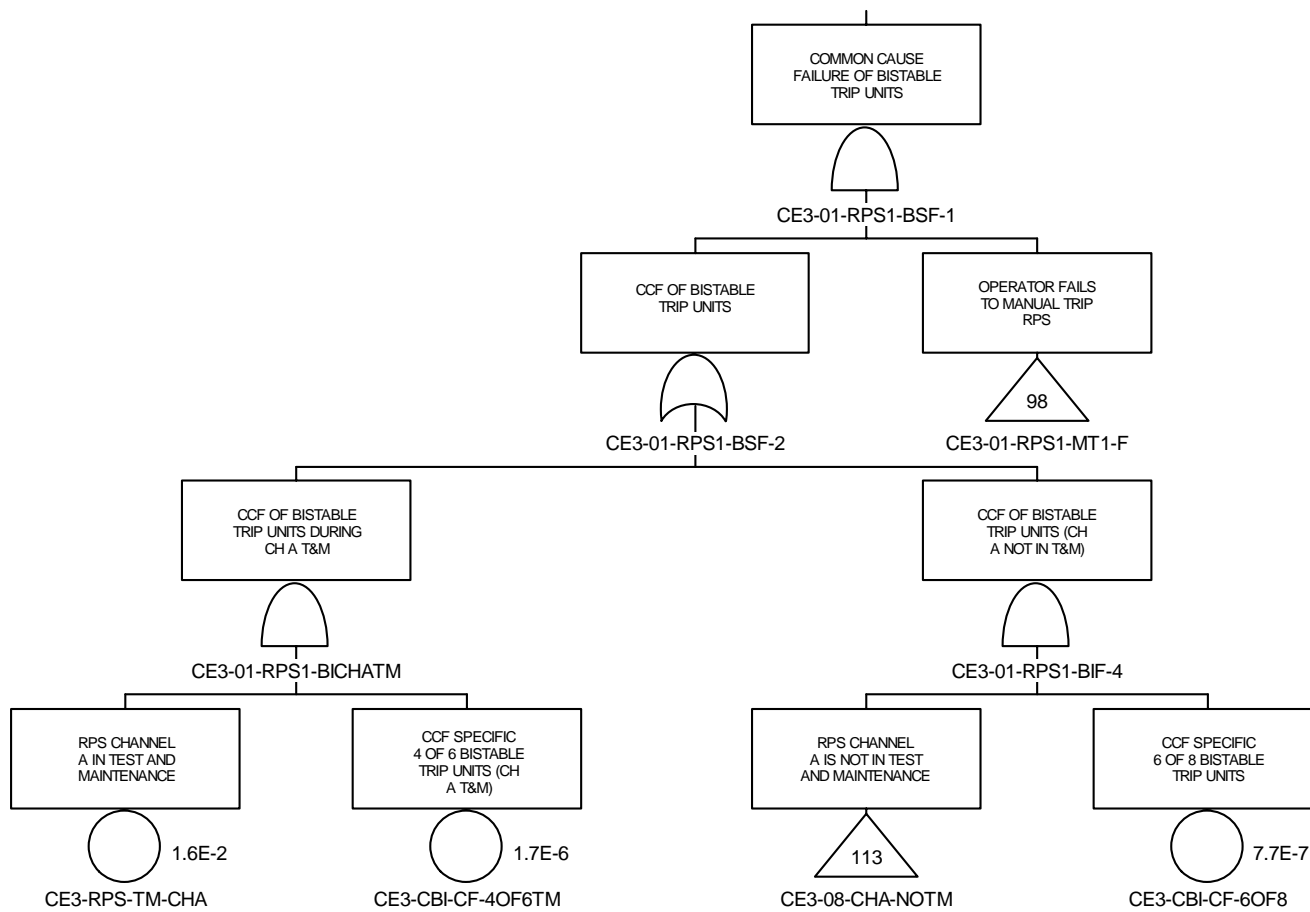


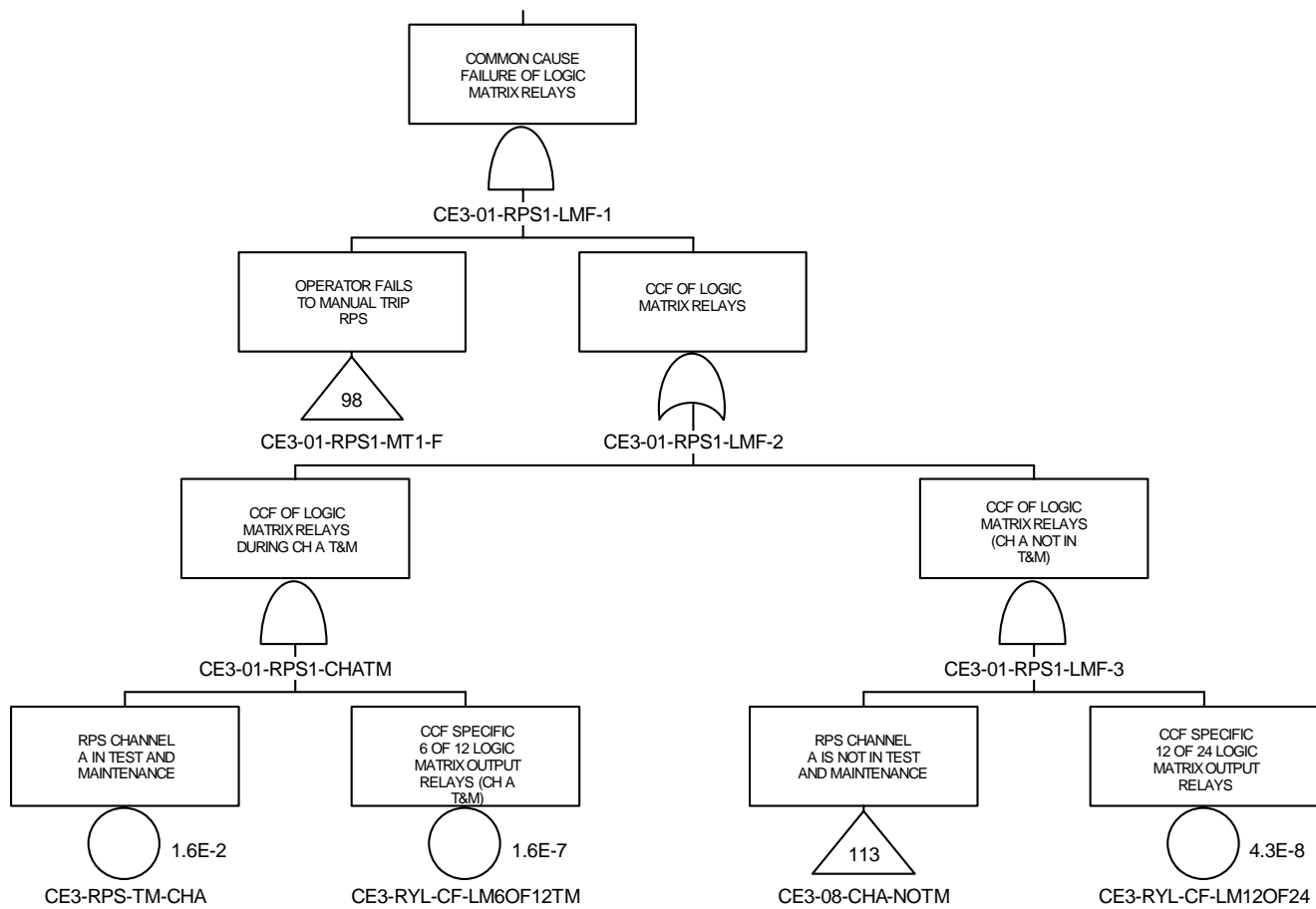


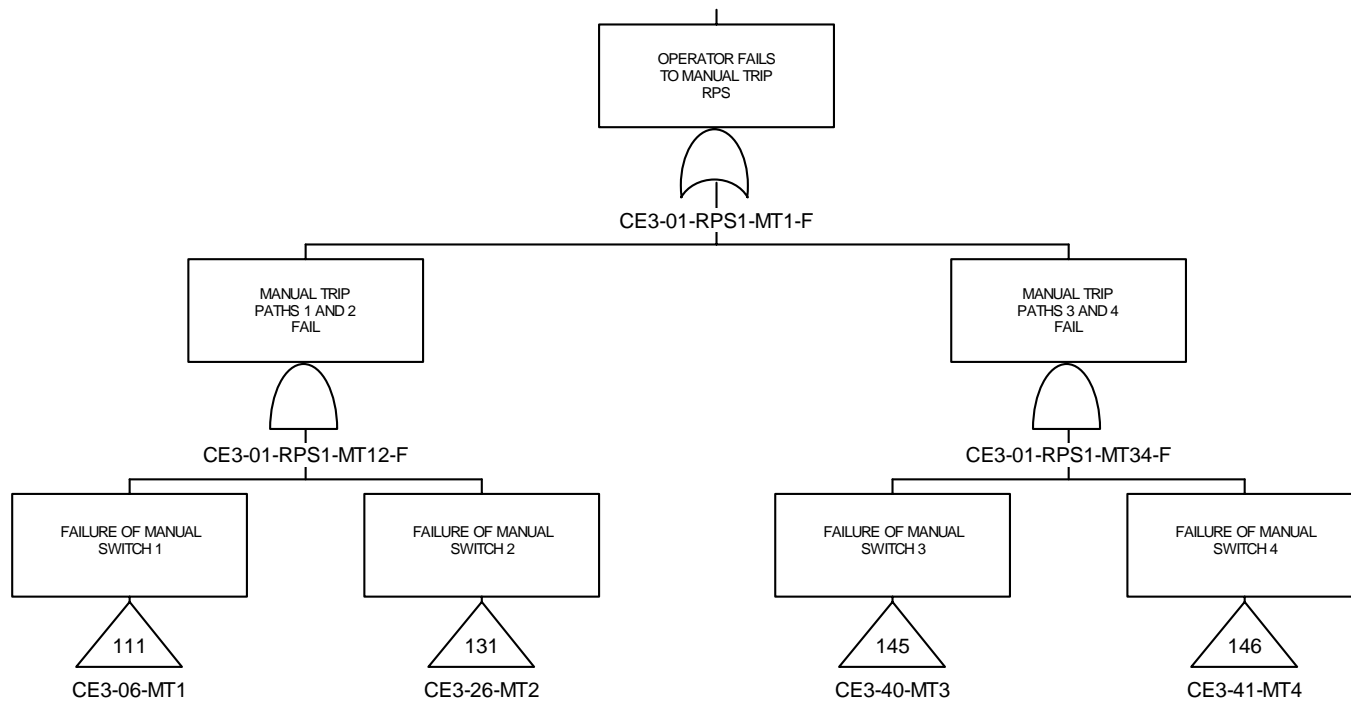


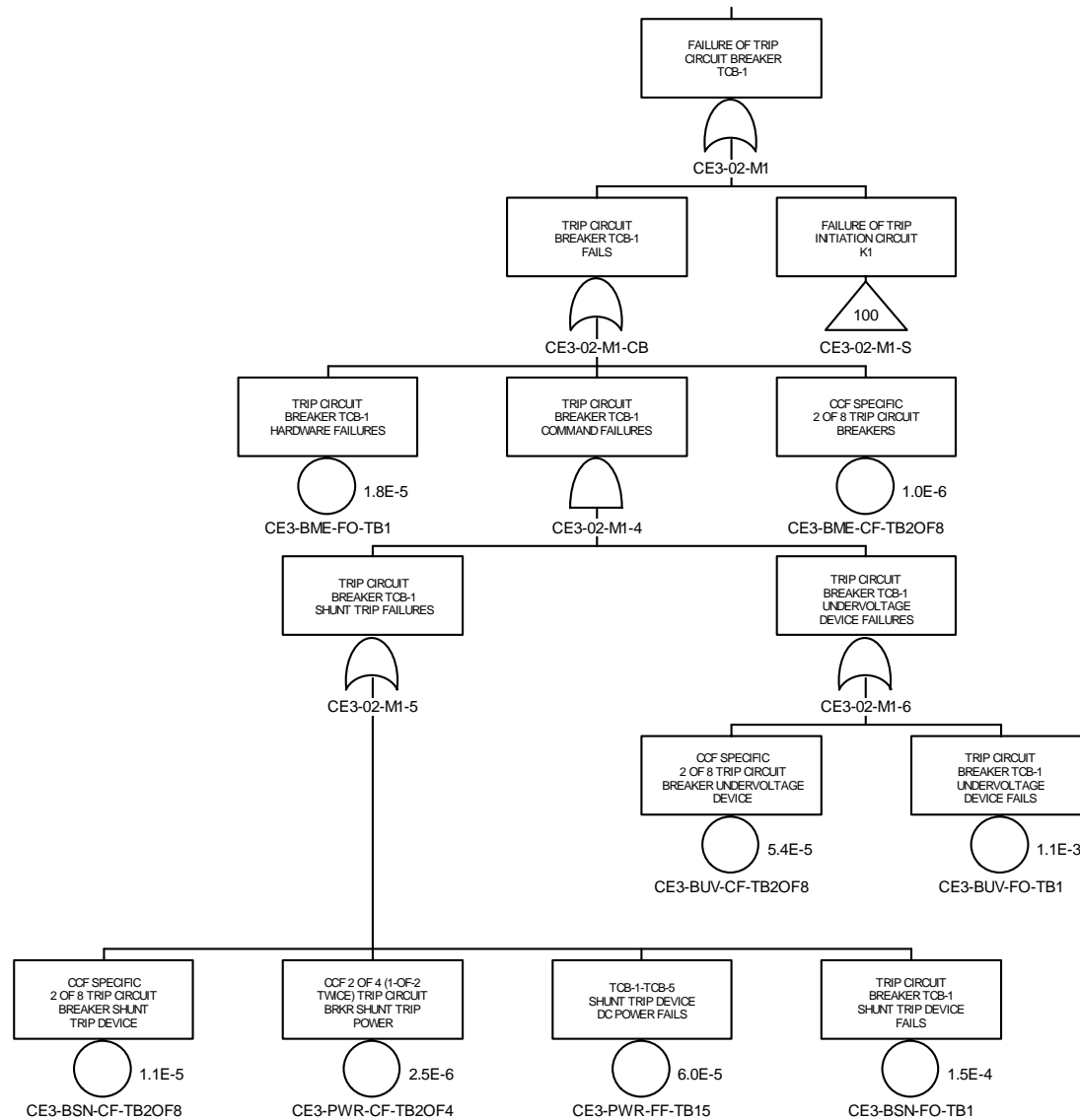
COMBUSTION ENGINEERING RPS GROUP 3 MODEL

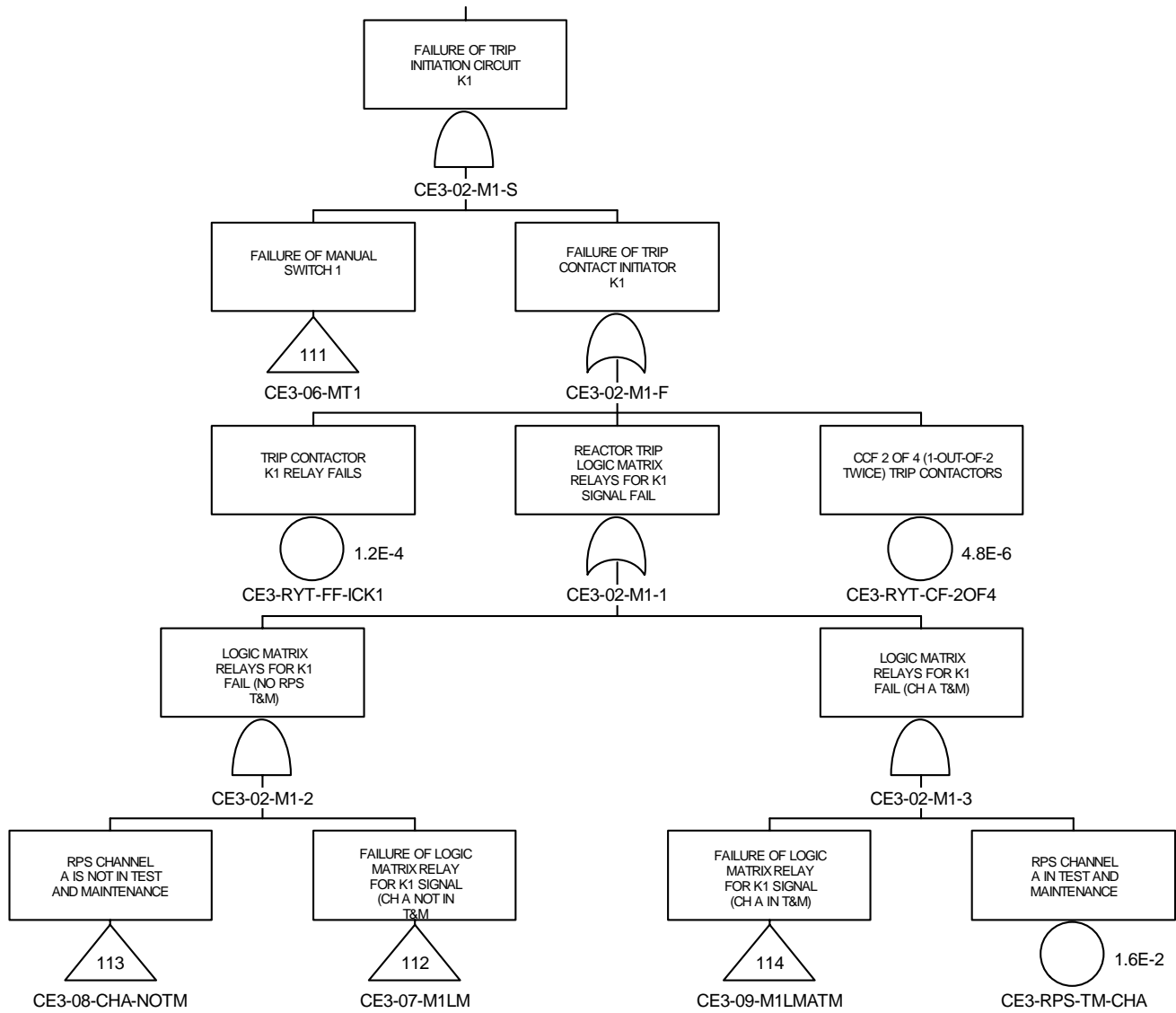


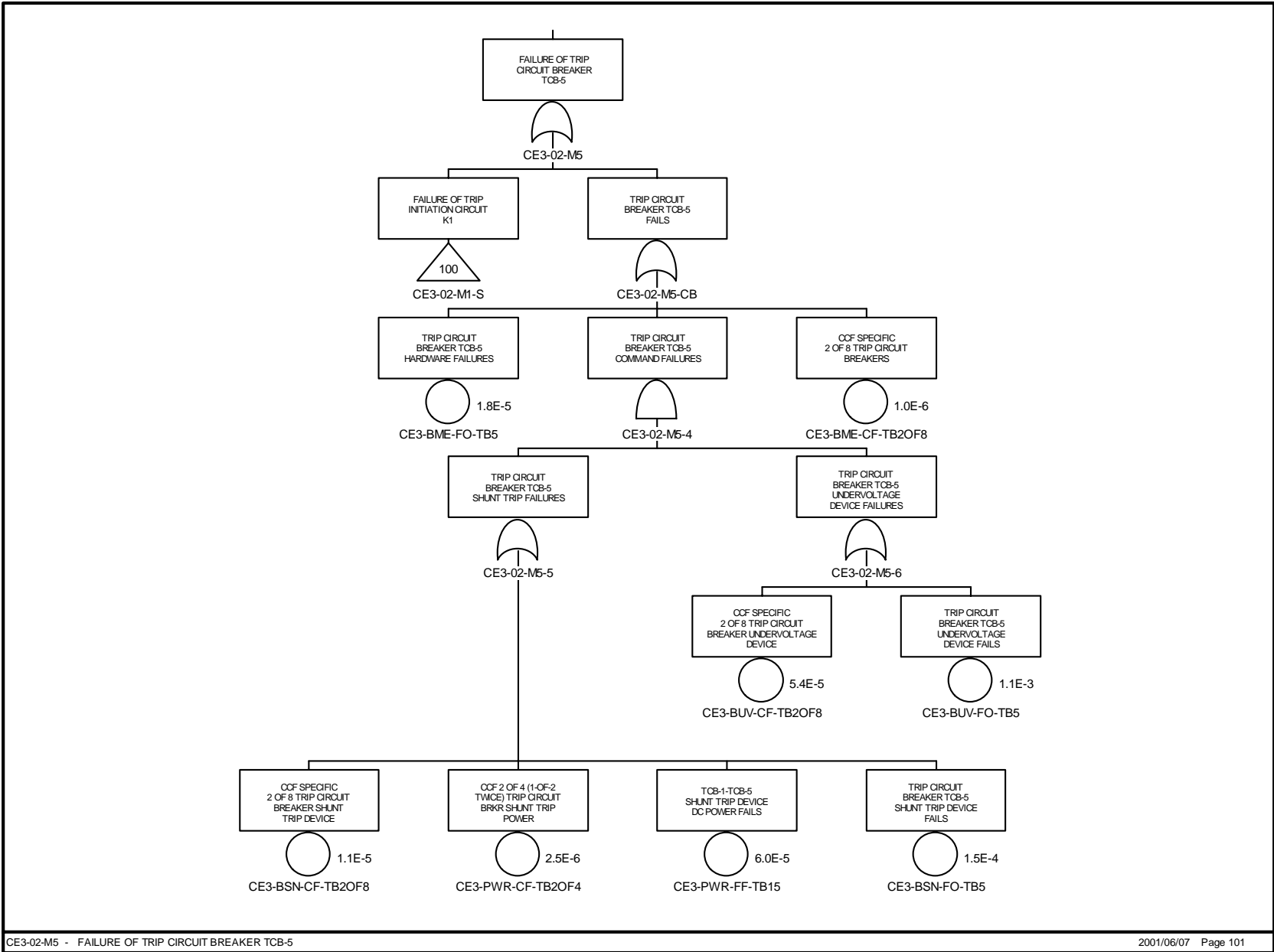


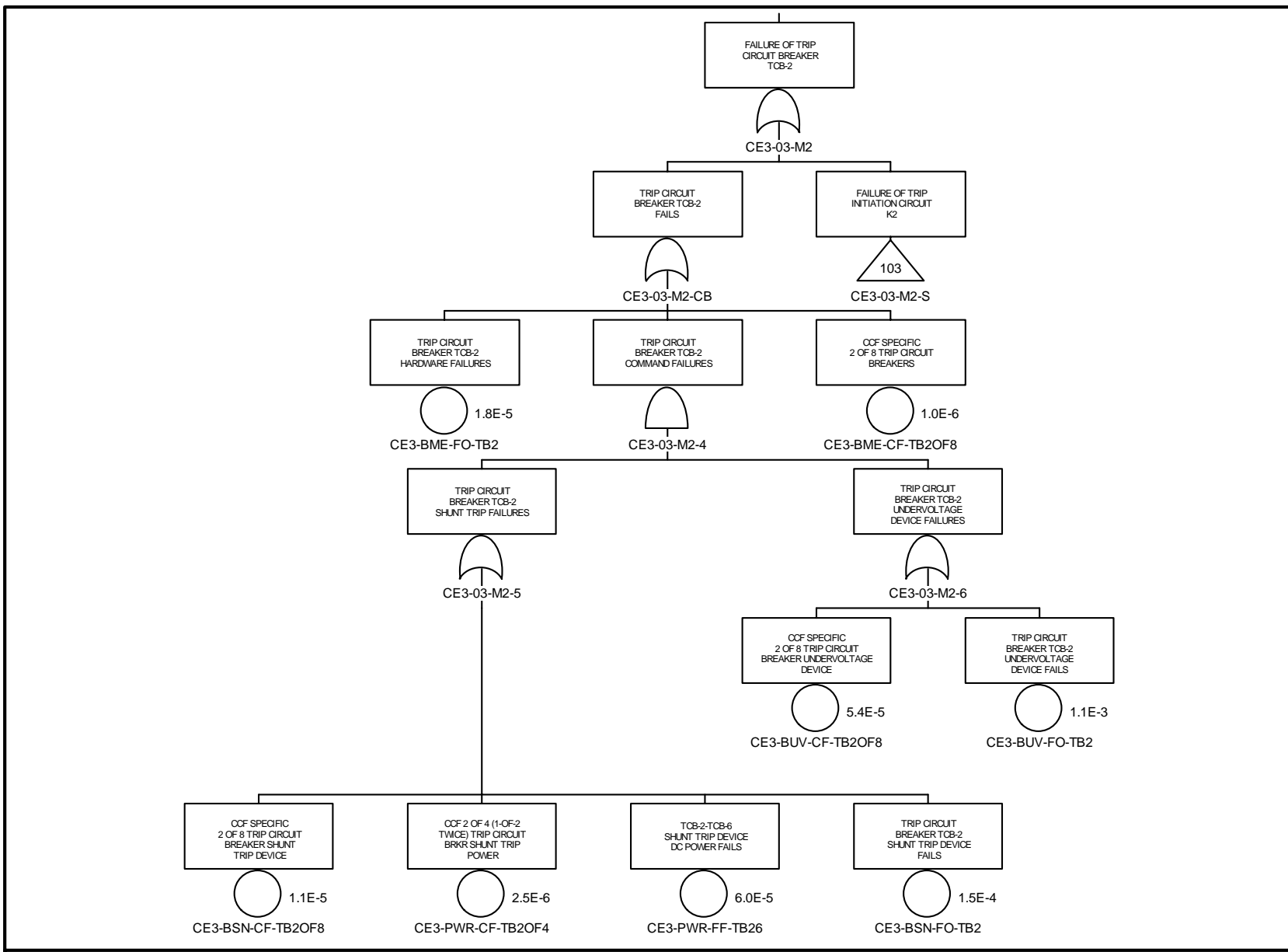




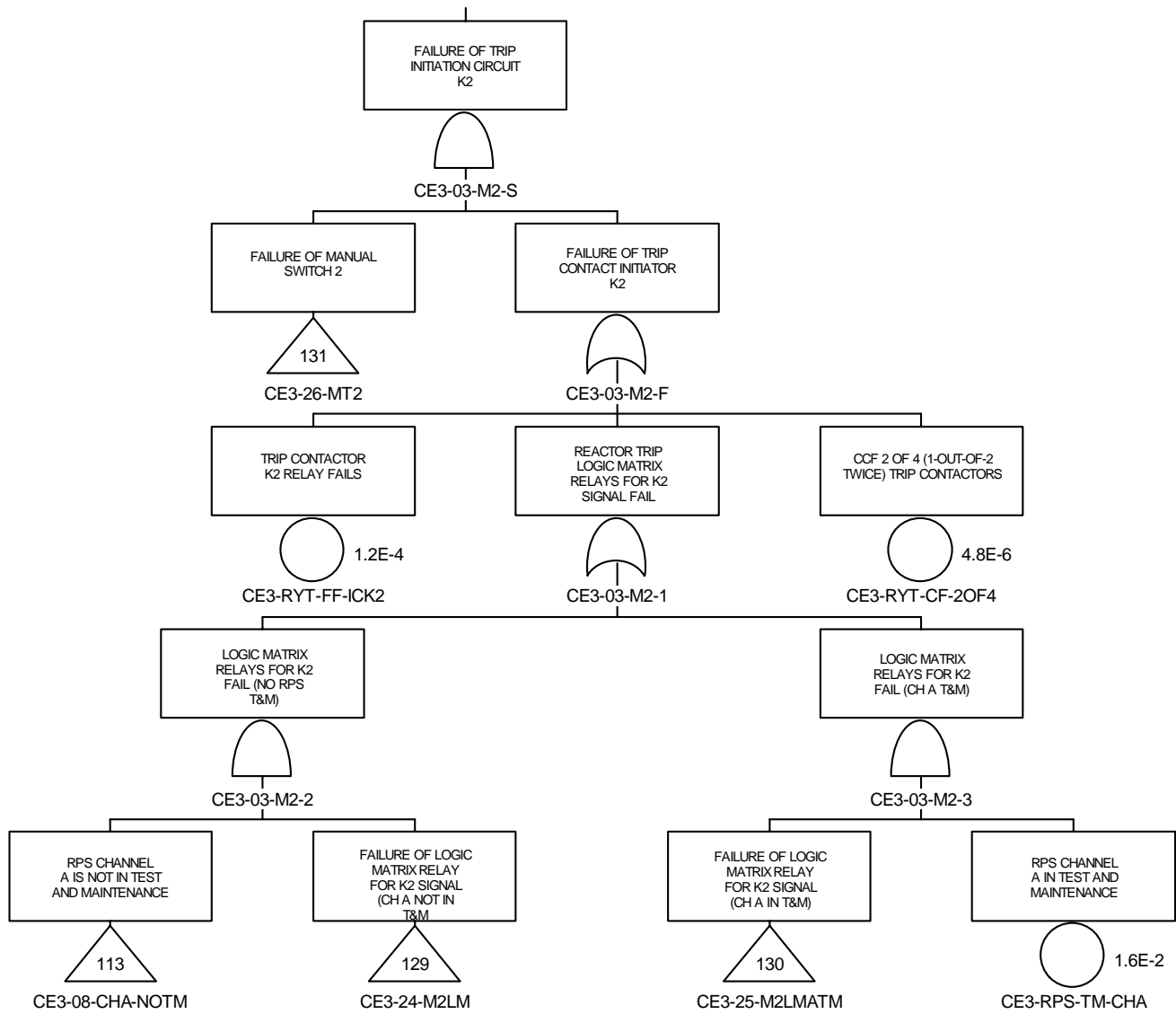


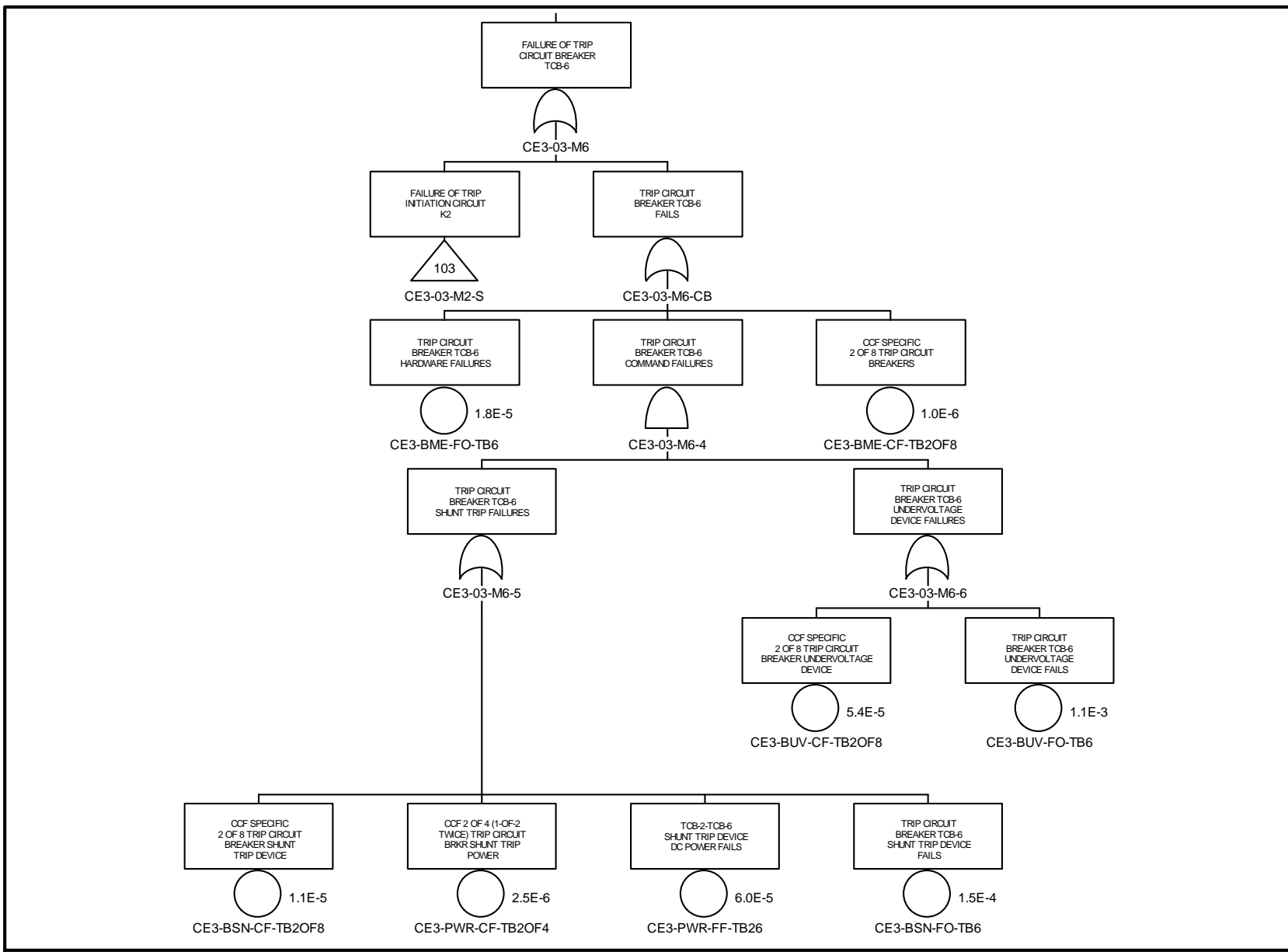




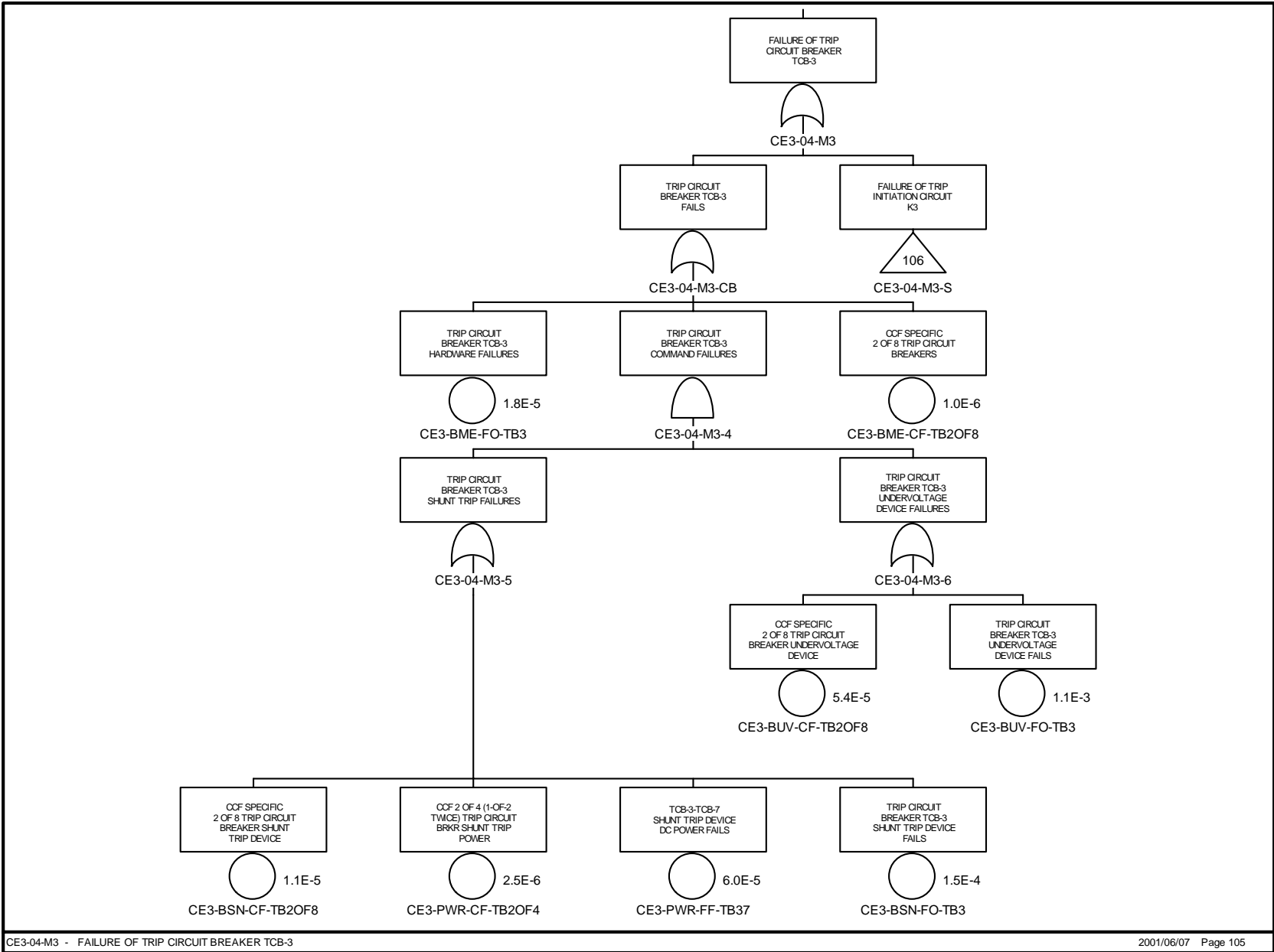


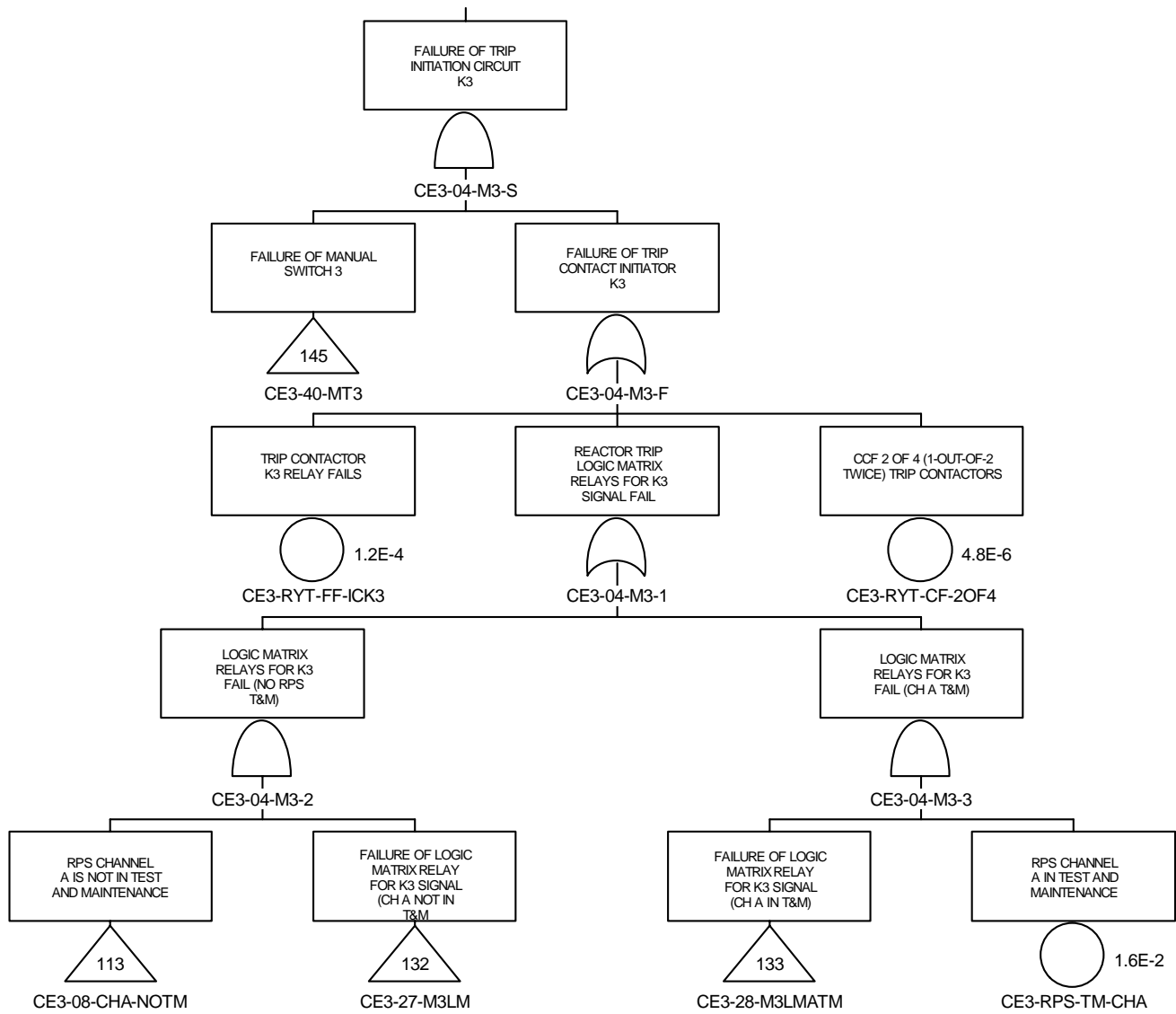
CE3-03-M2 - FAILURE OF TRIP CIRCUIT BREAKER TCB-2

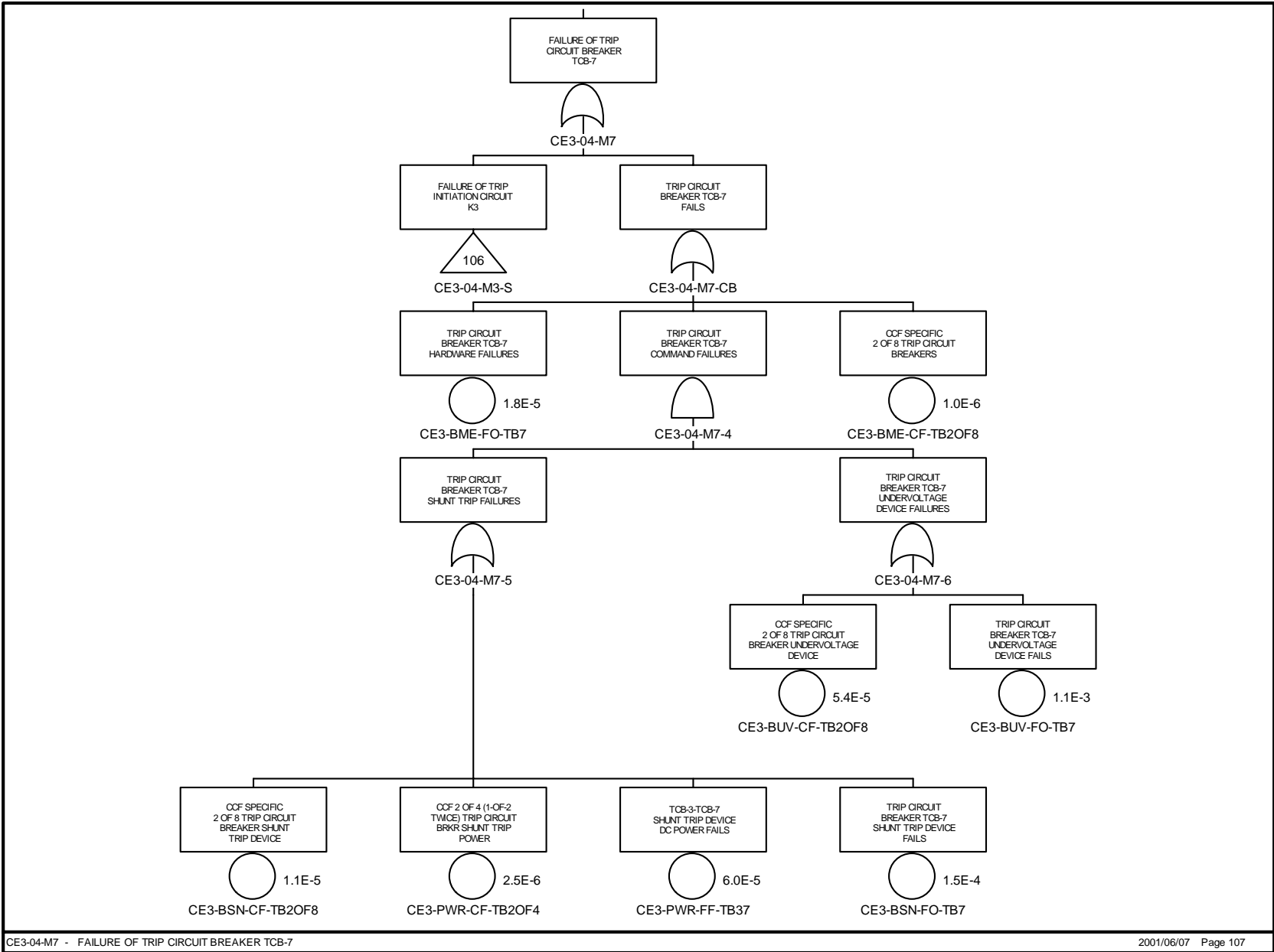


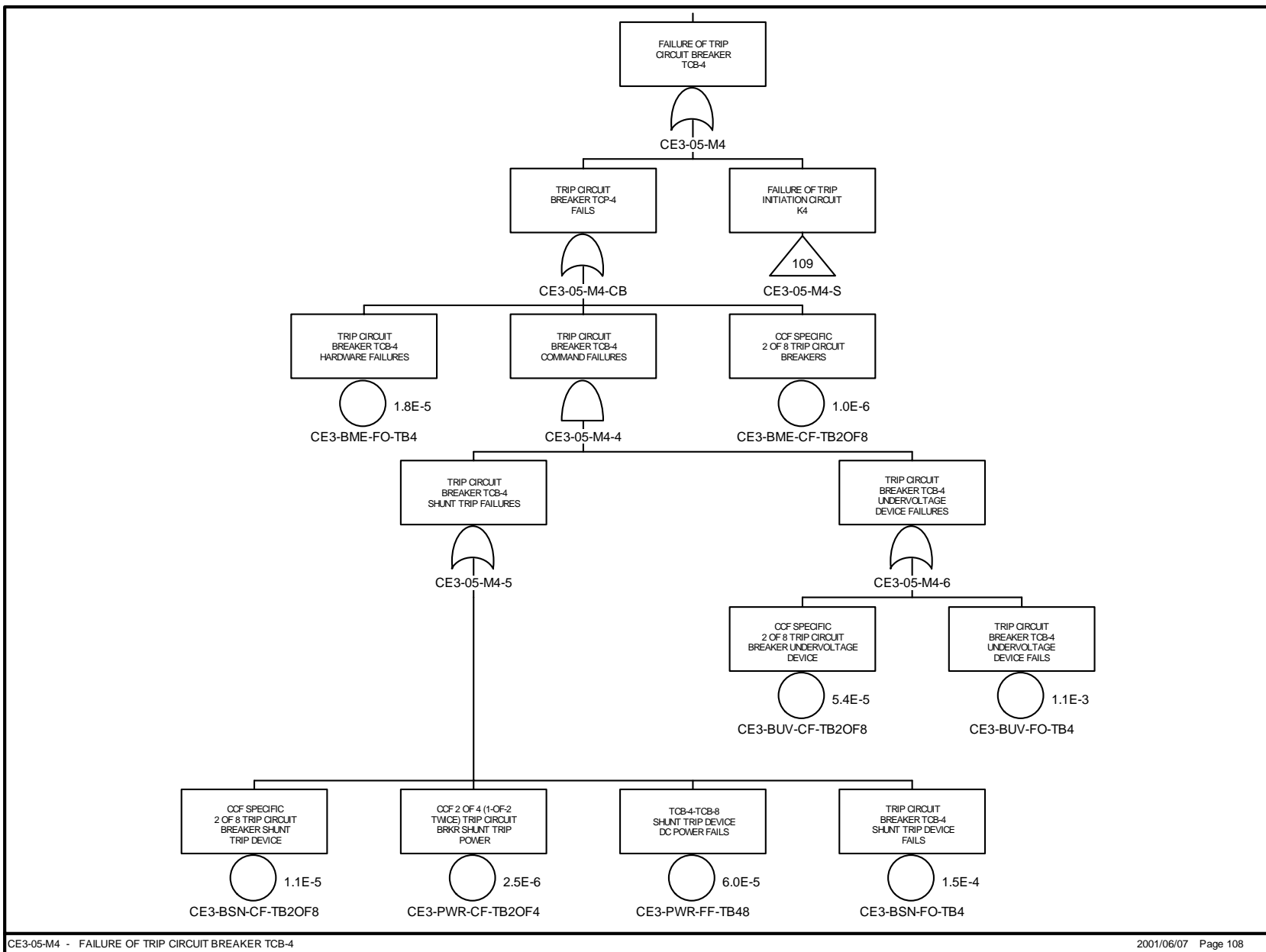


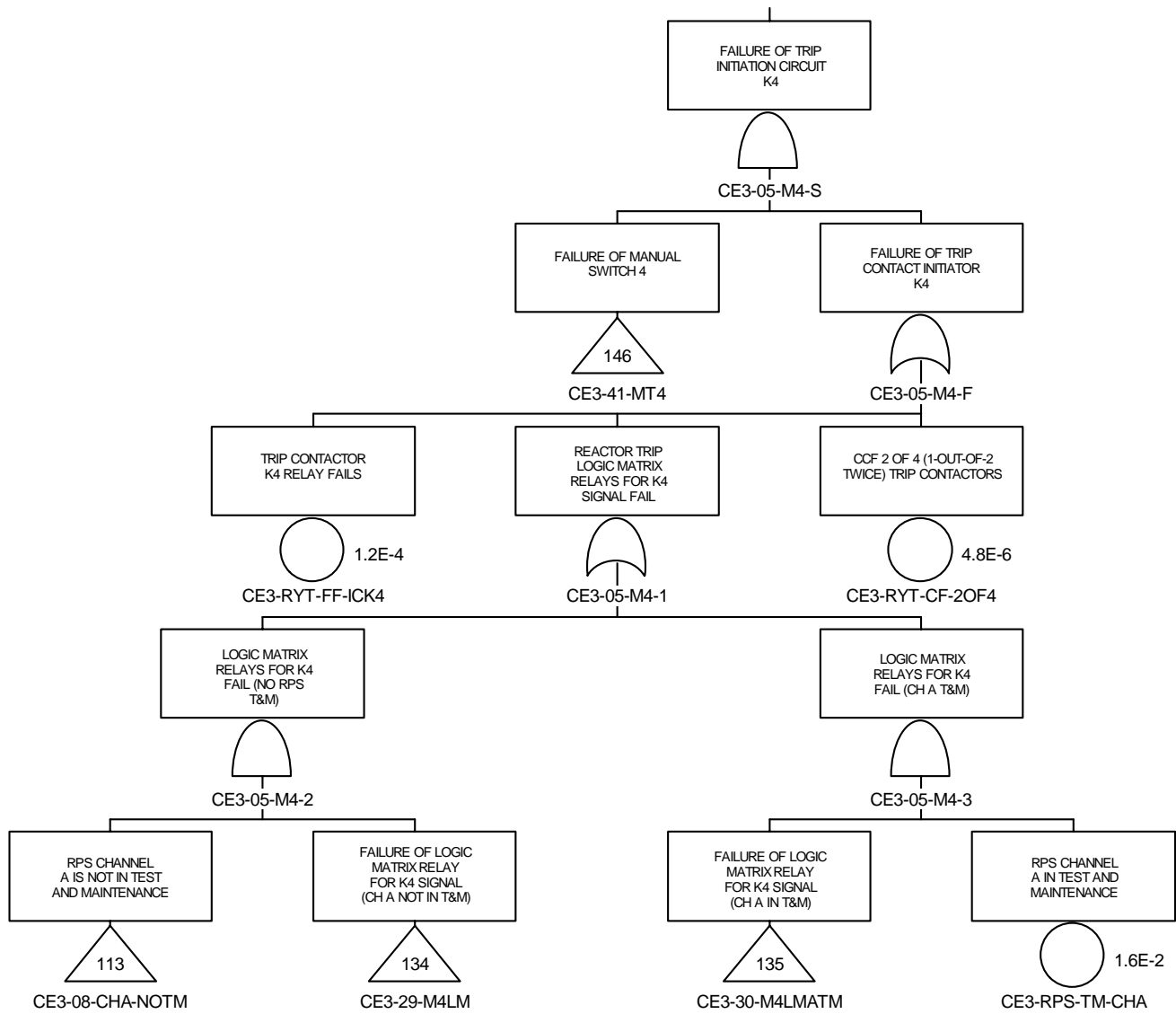
CE3-03-M6 - FAILURE OF TRIP CIRCUIT BREAKER TCB-6

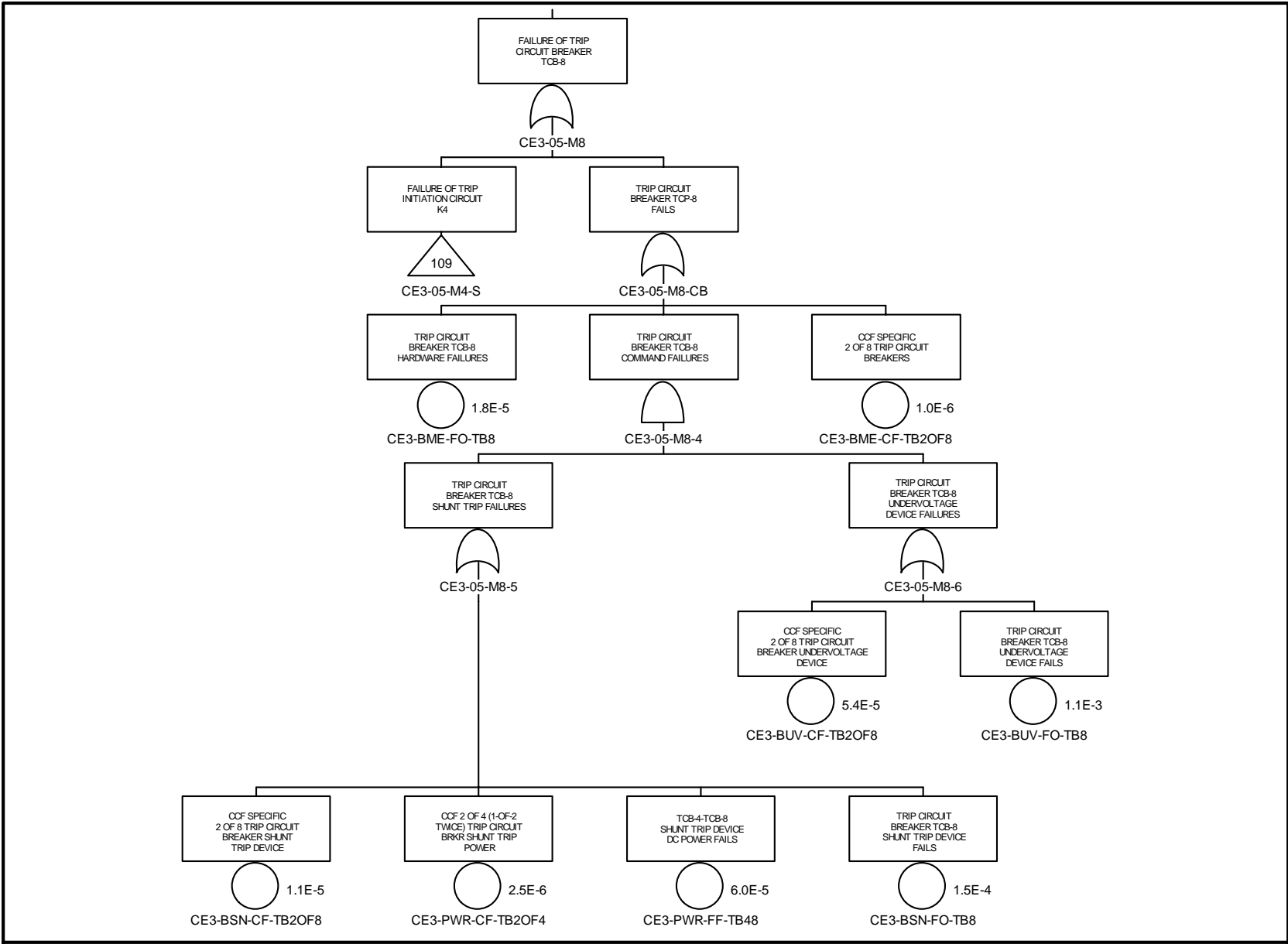




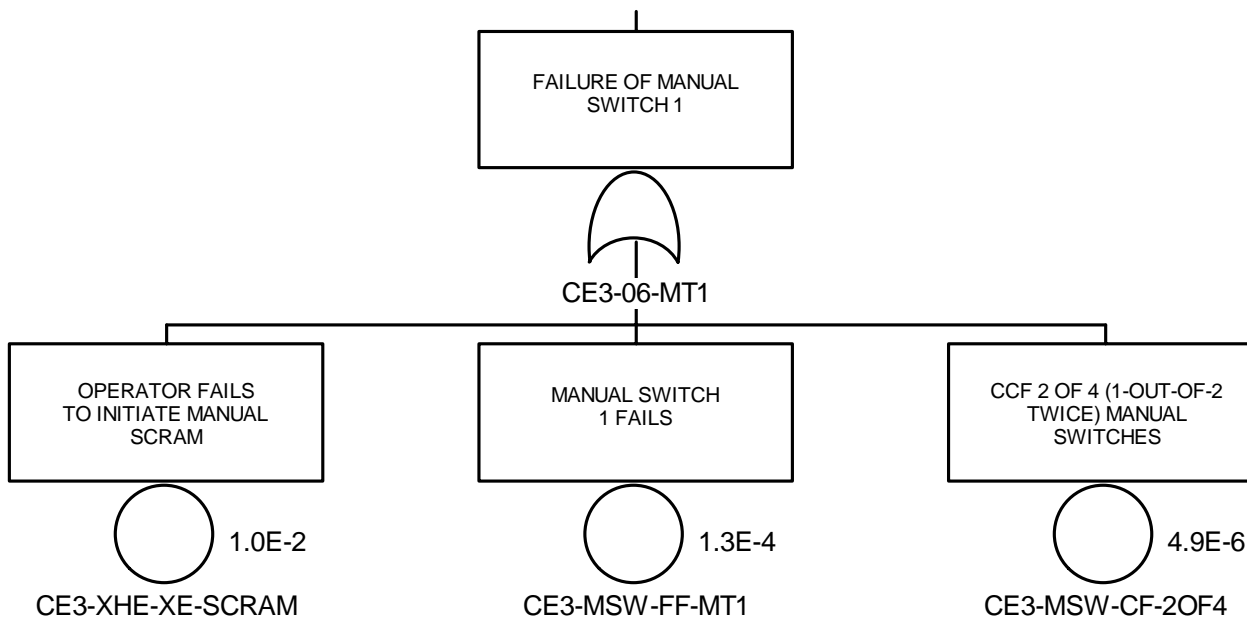


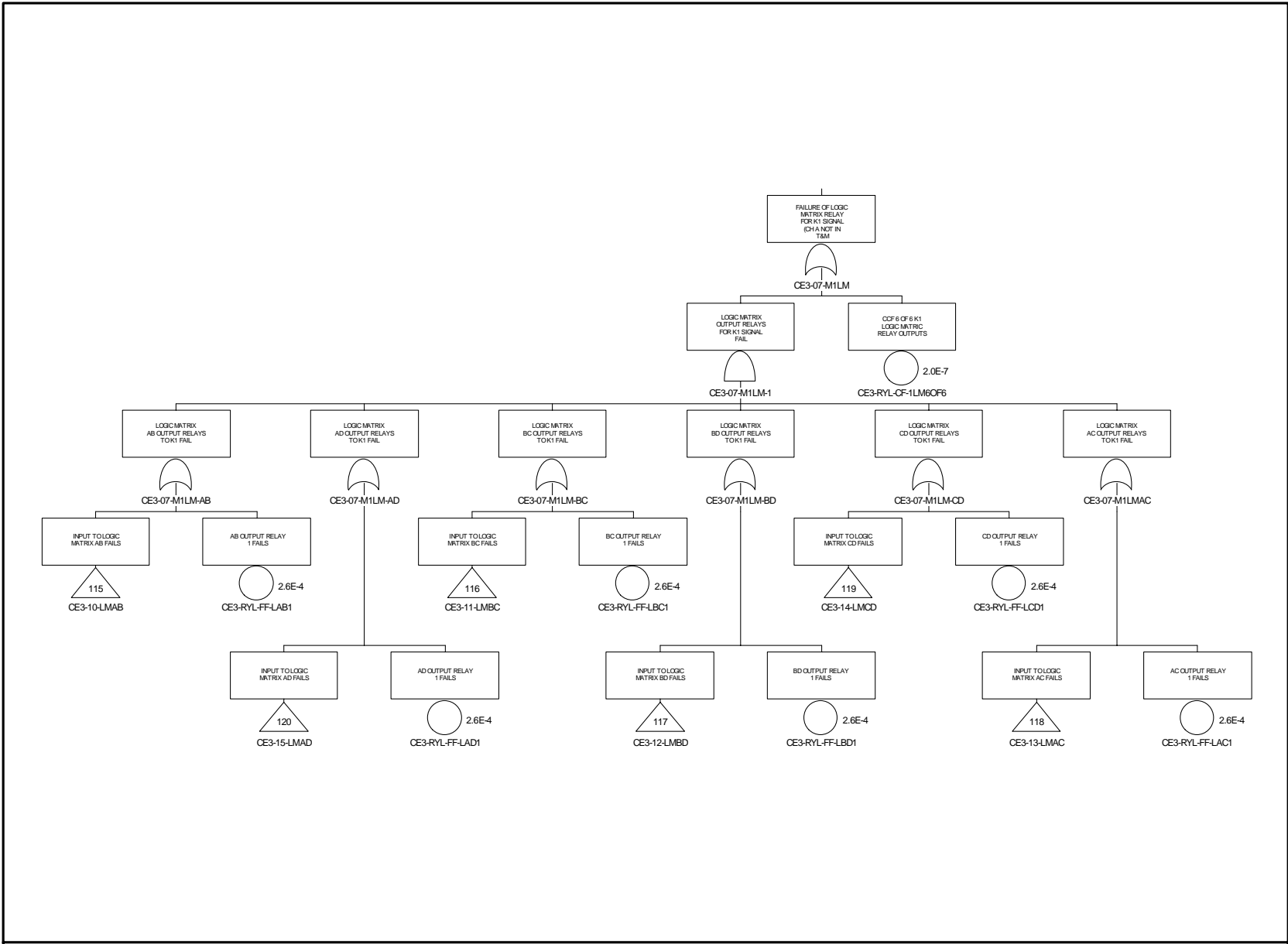




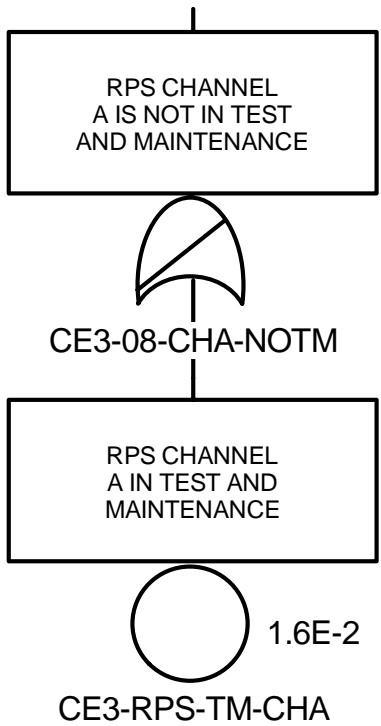


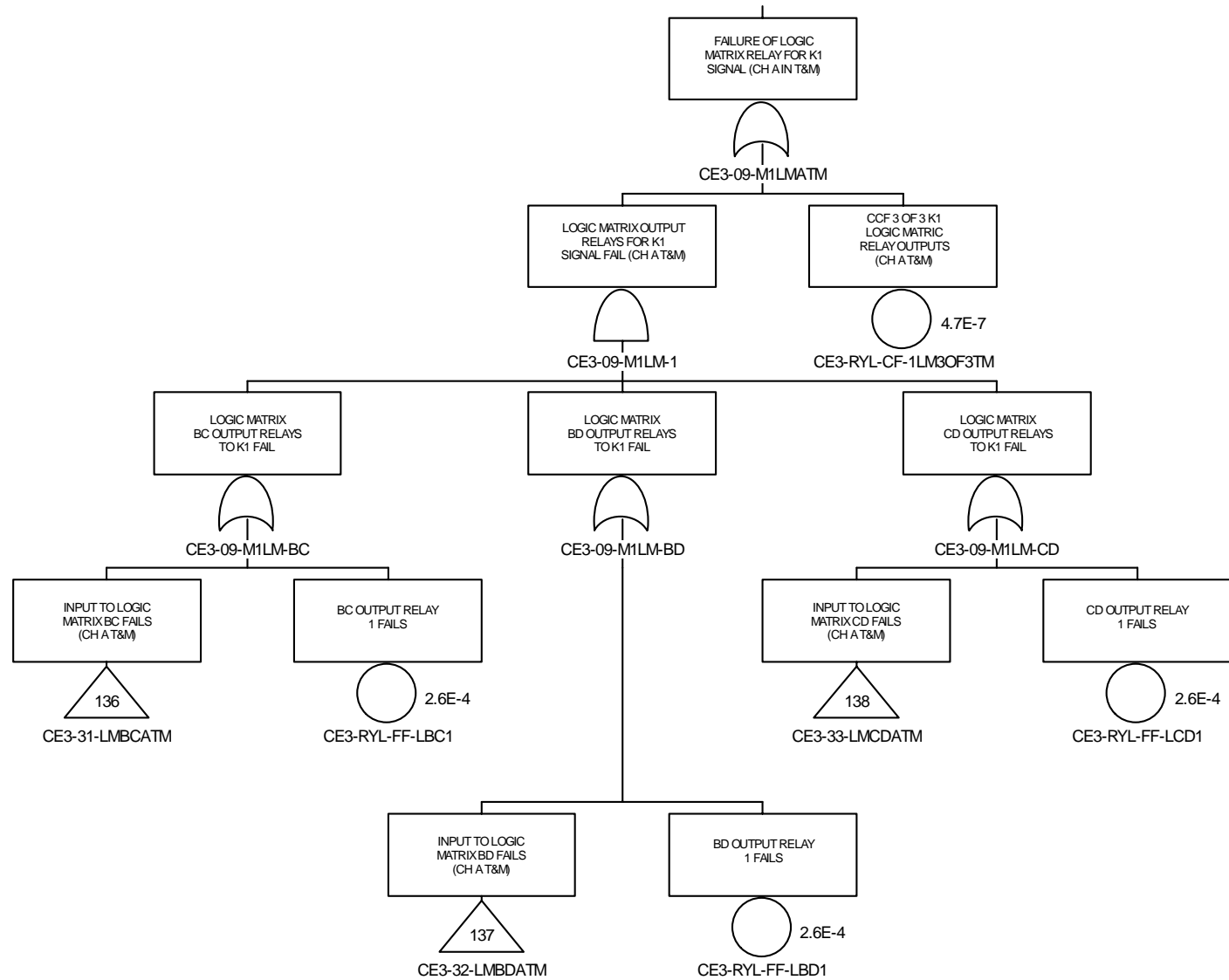
CE3-05-M8 - FAILURE OF TRIP CIRCUIT BREAKER TCB-8

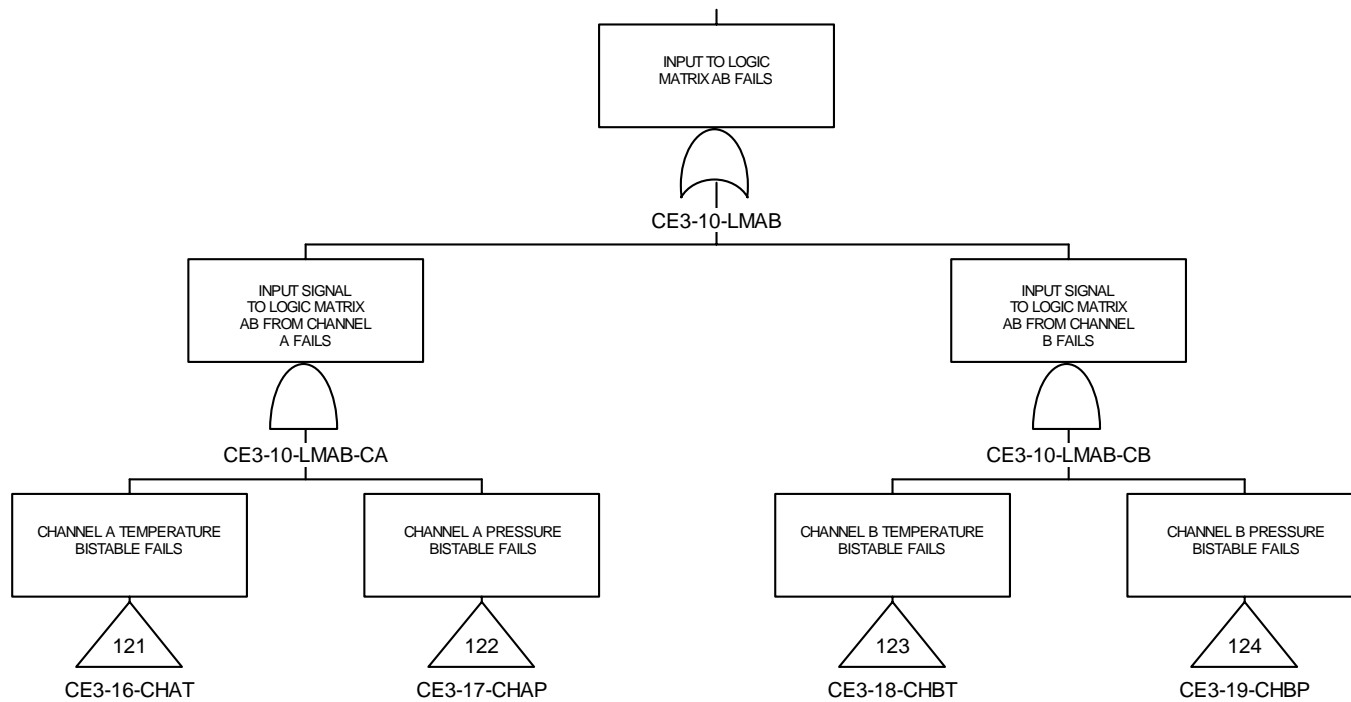


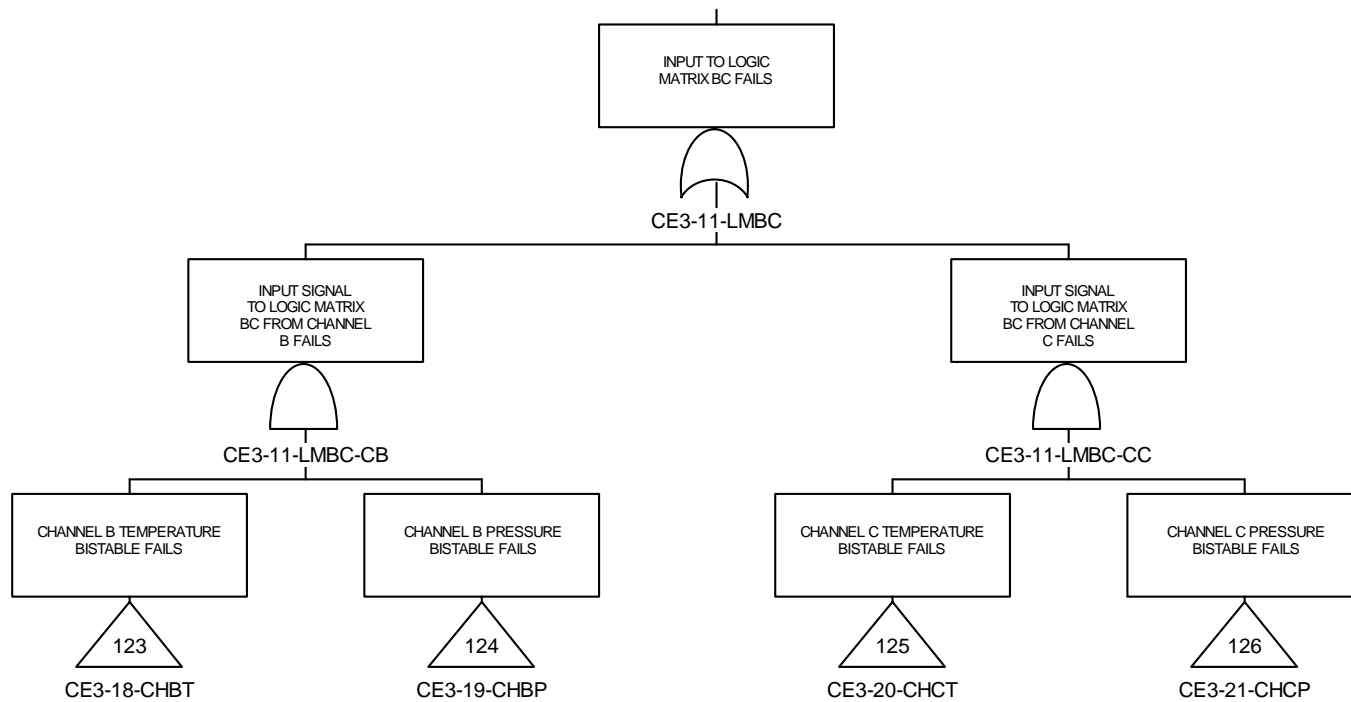


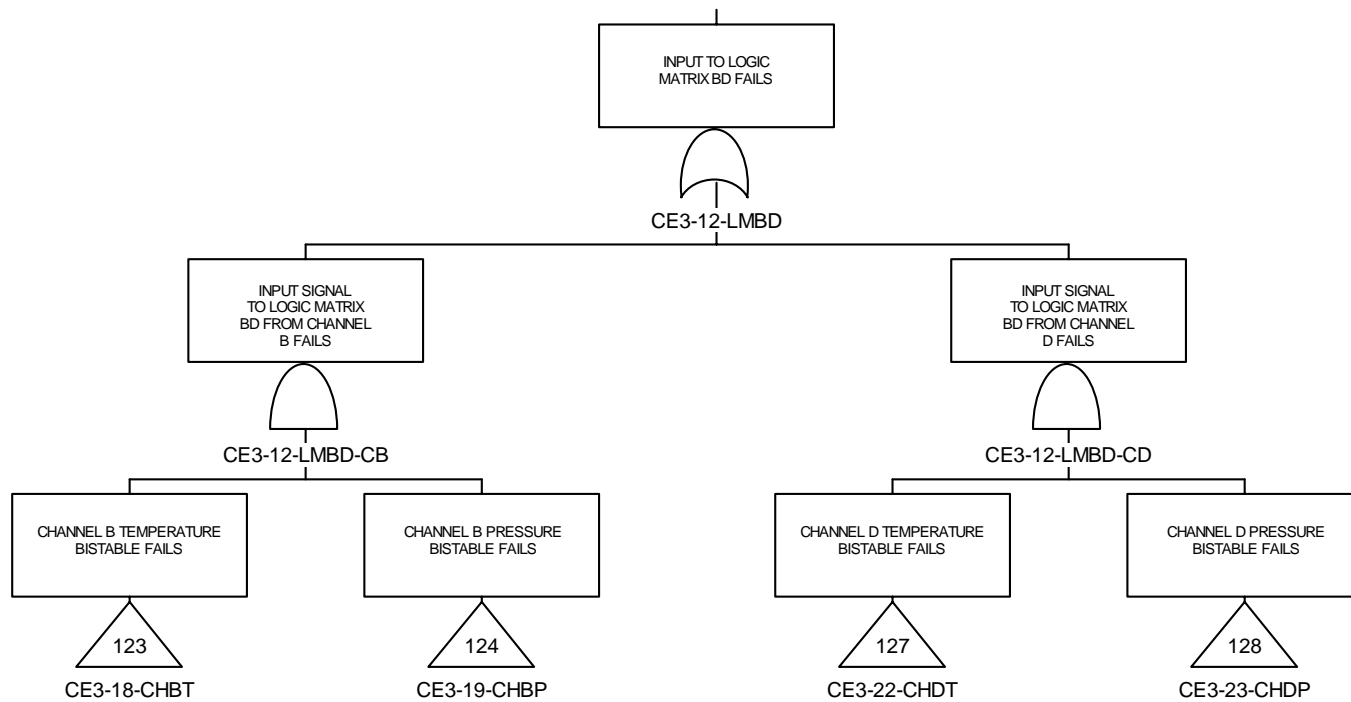
CE3-07-M1LM - FAILURE OF LOGIC MATRIX RELAYS FOR K1 SIGNAL

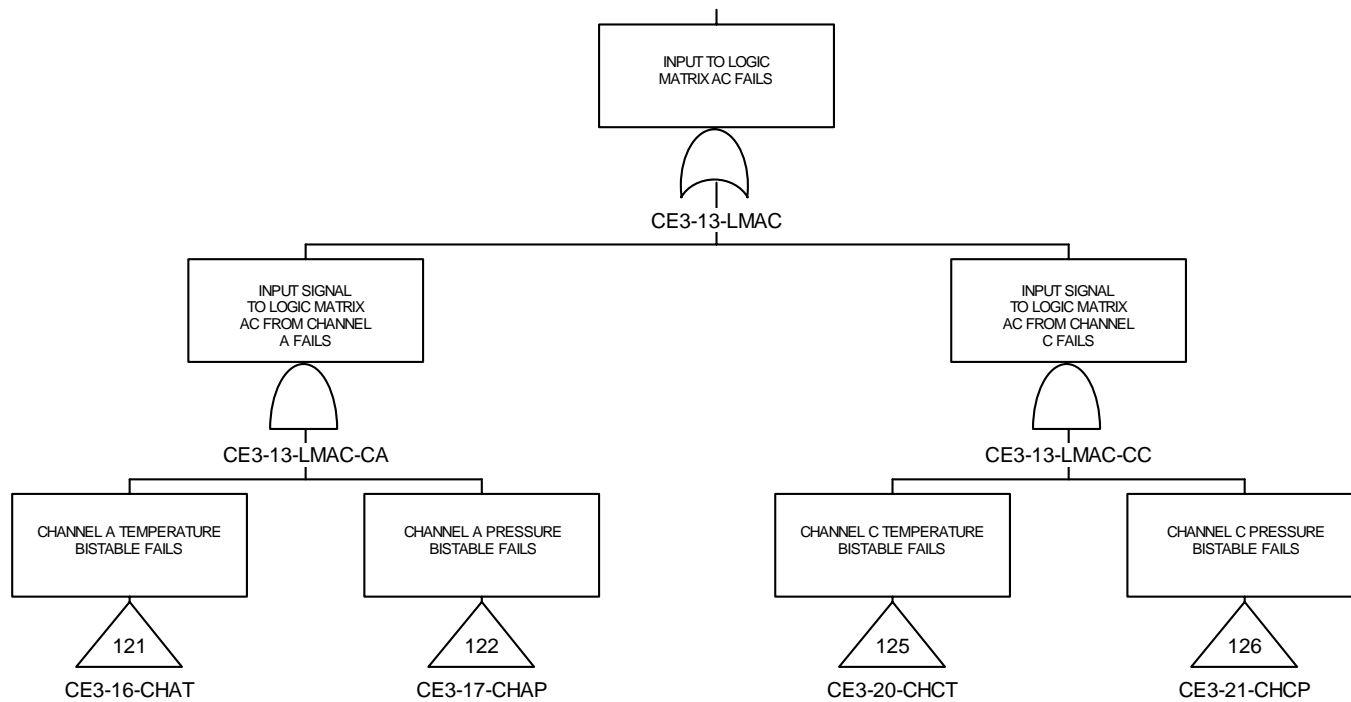


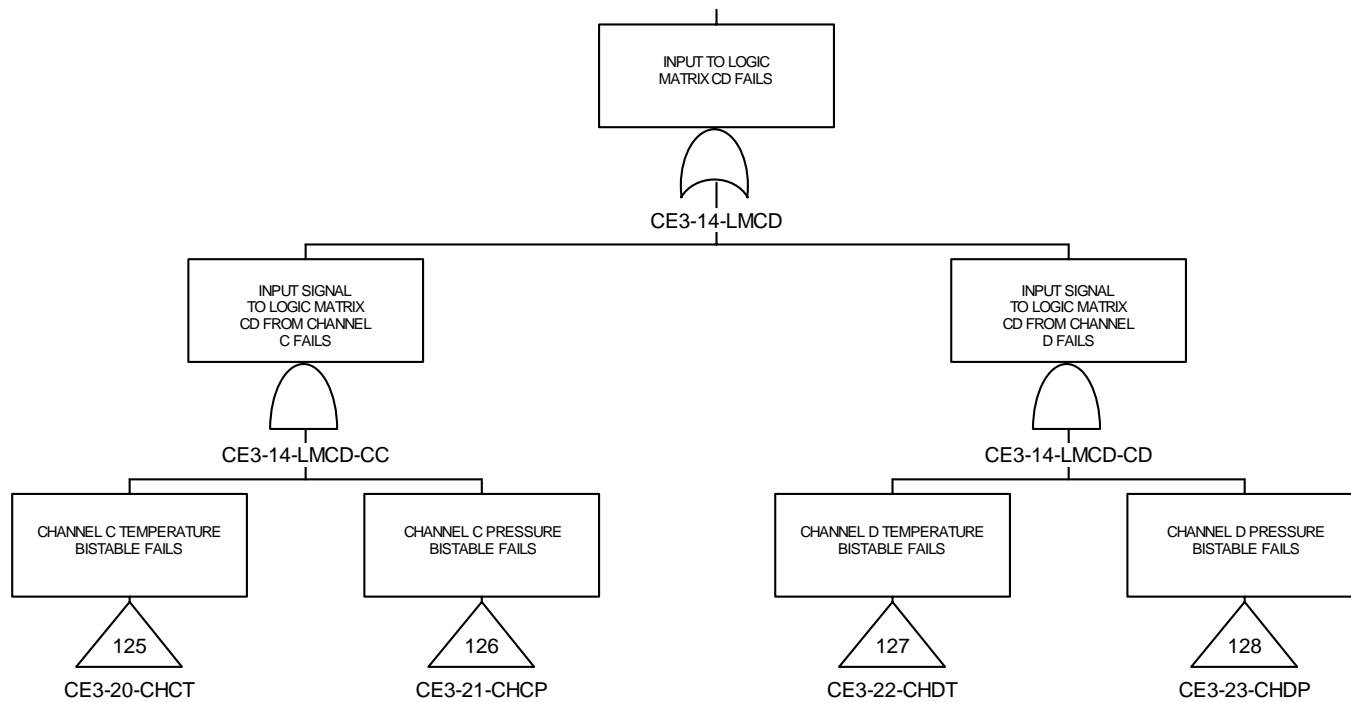


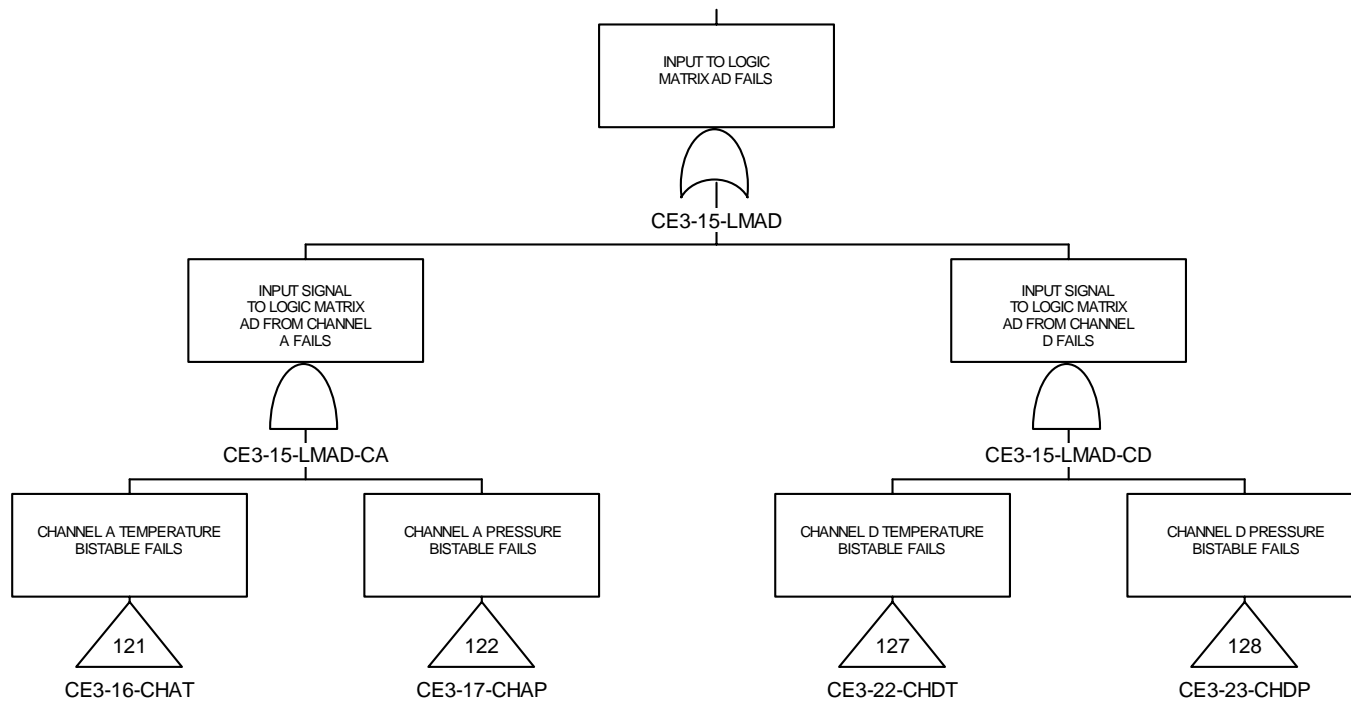


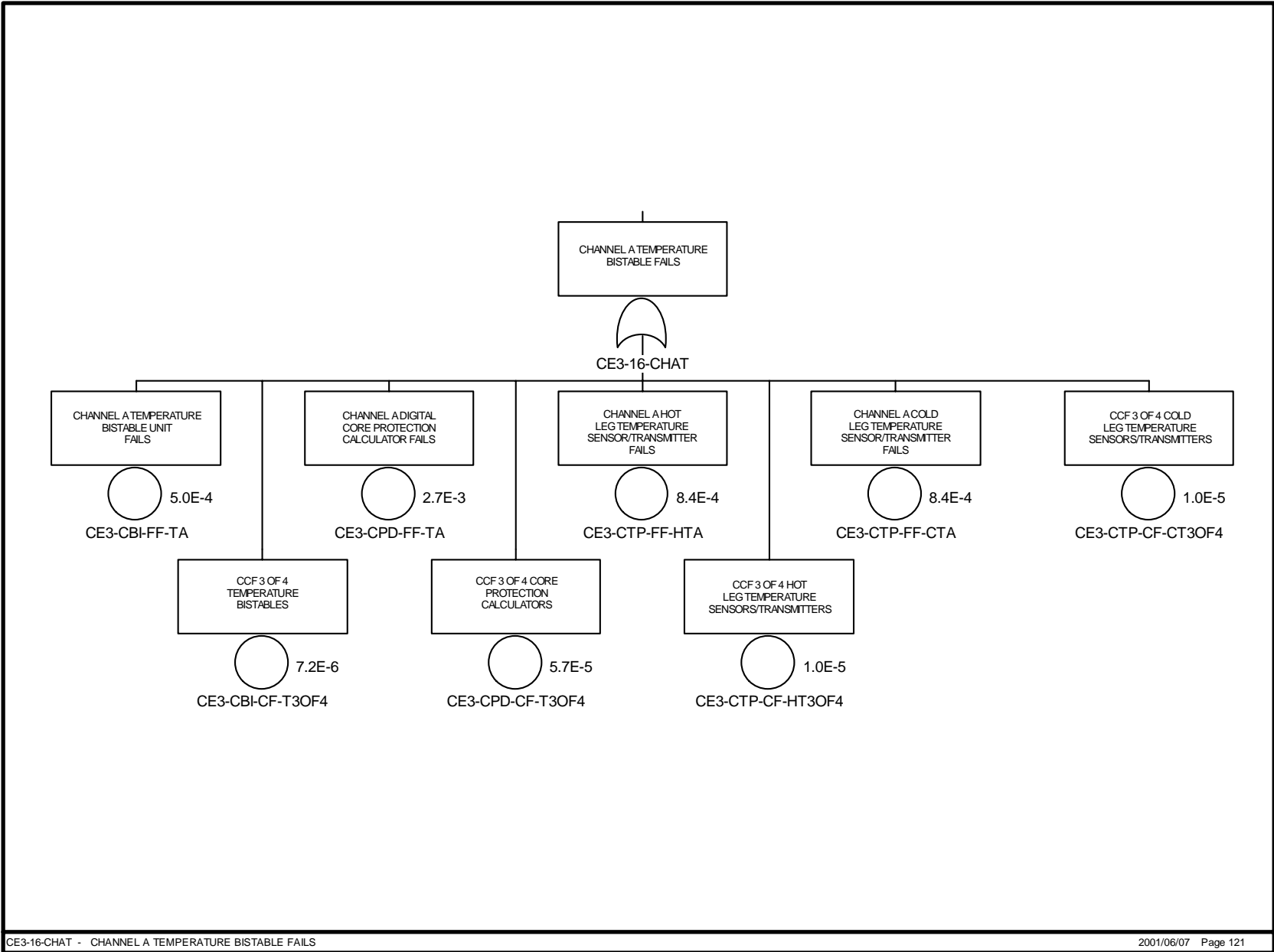


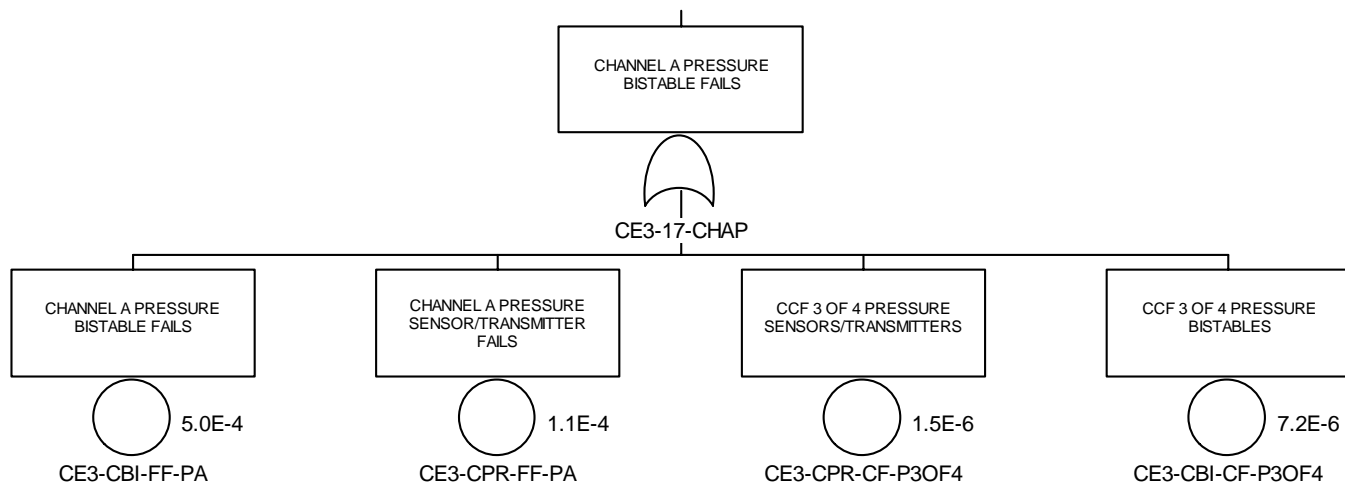


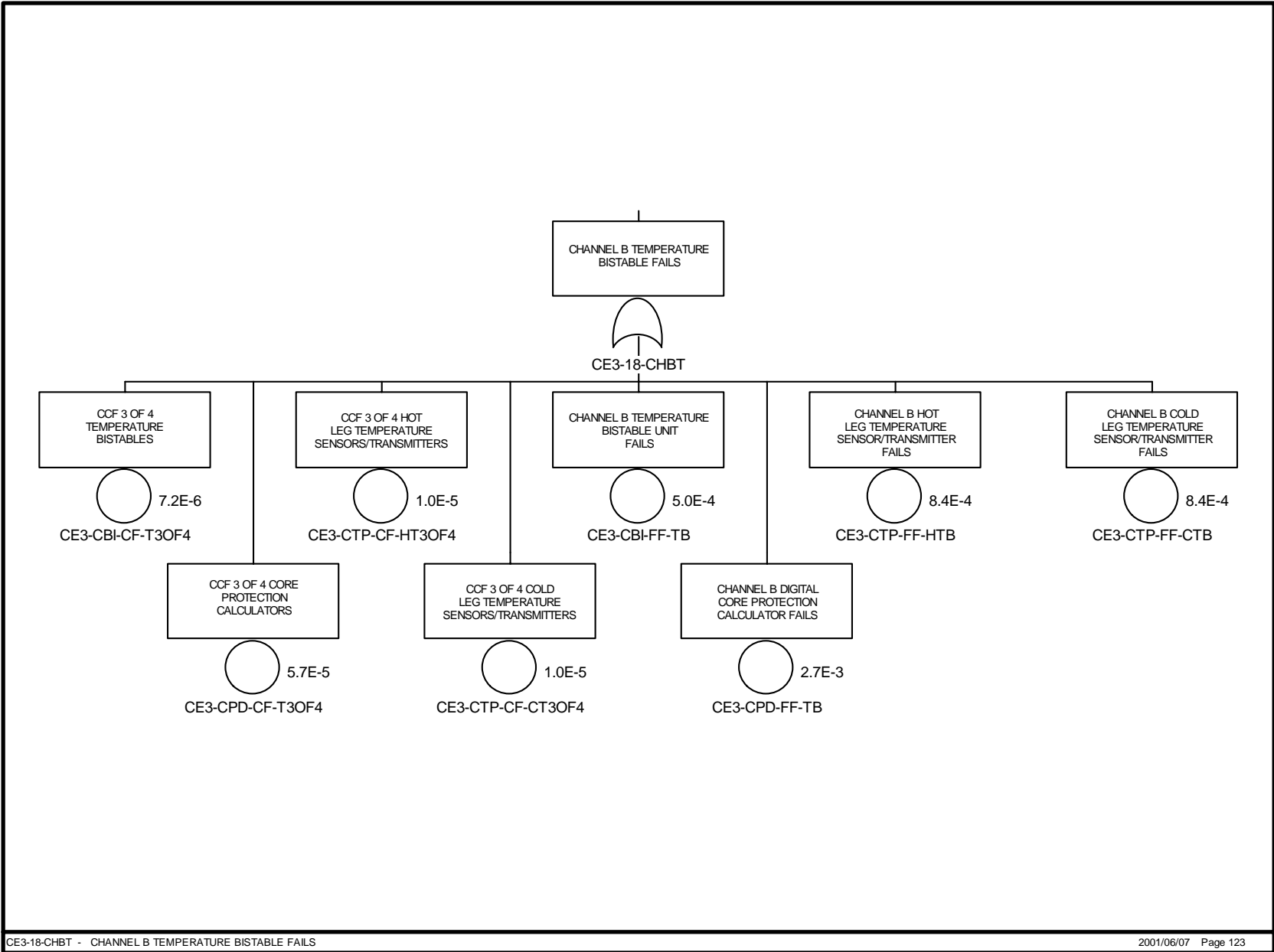


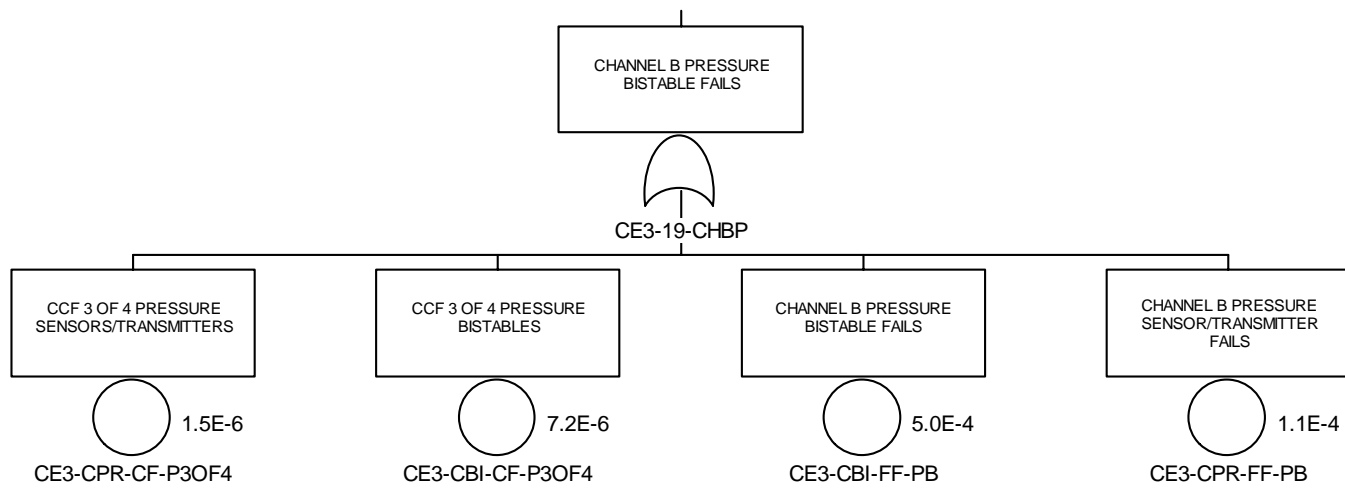


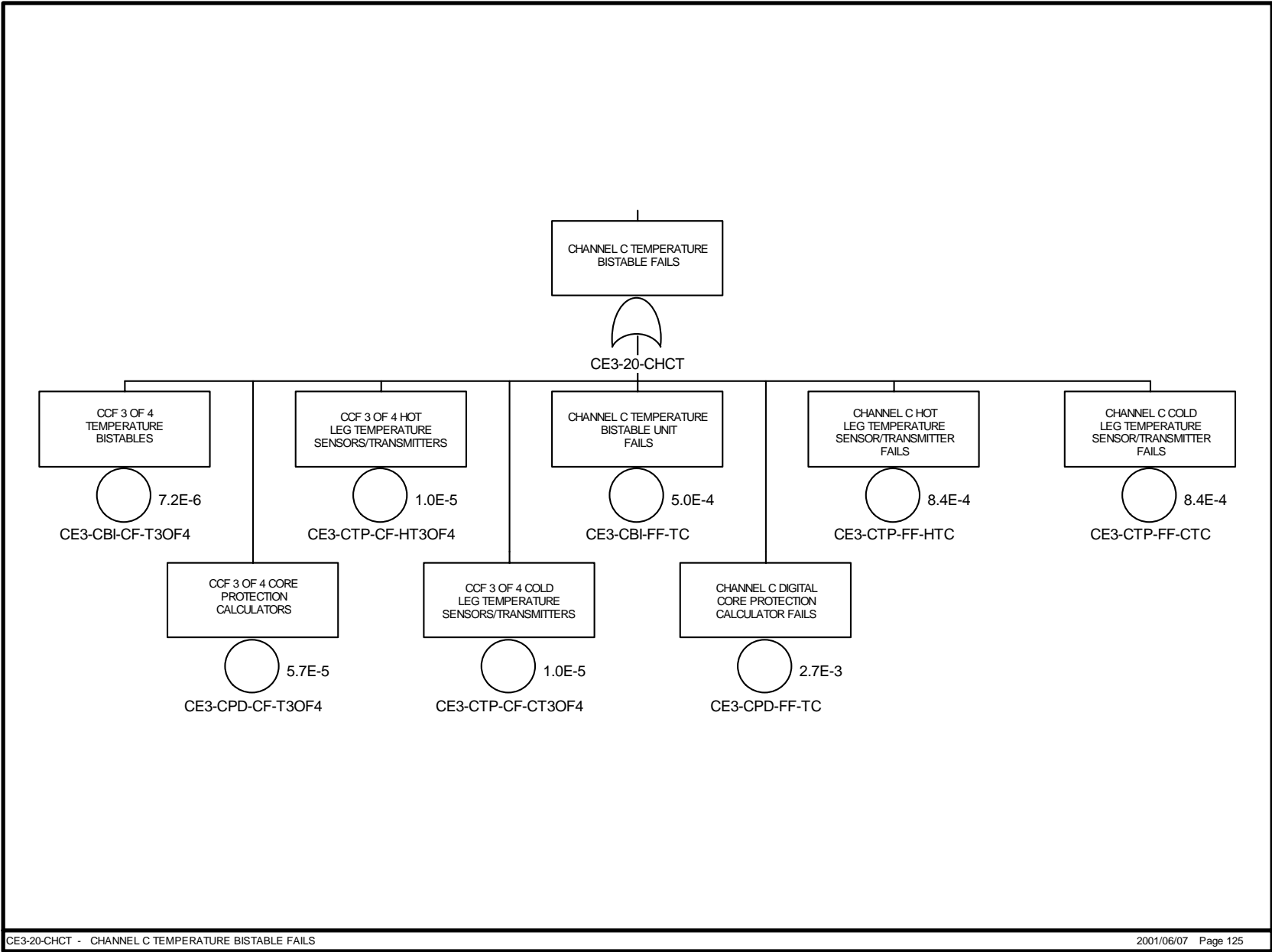


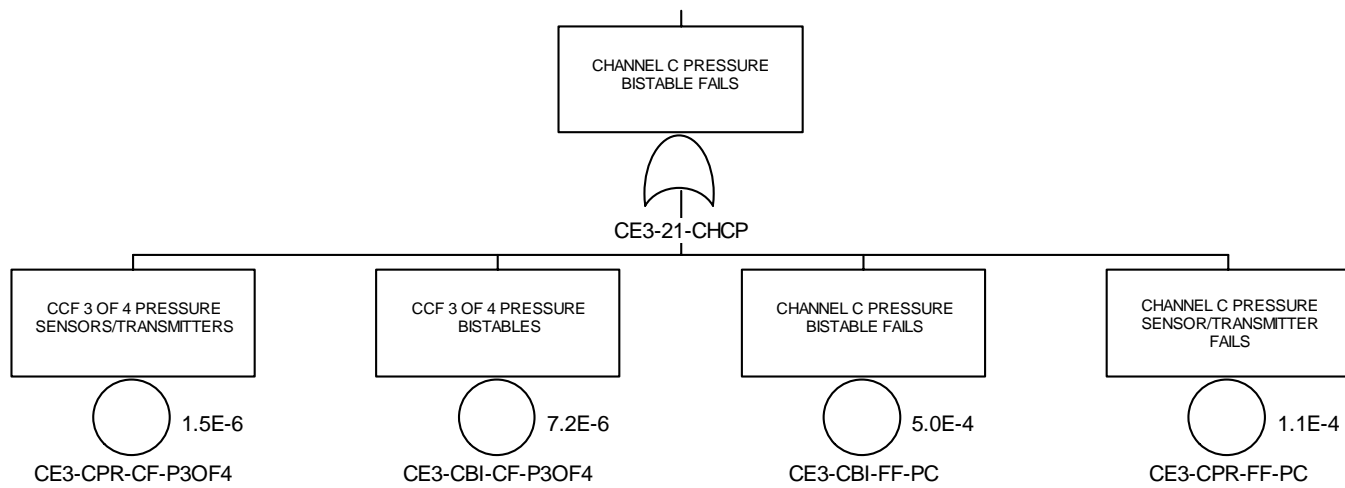


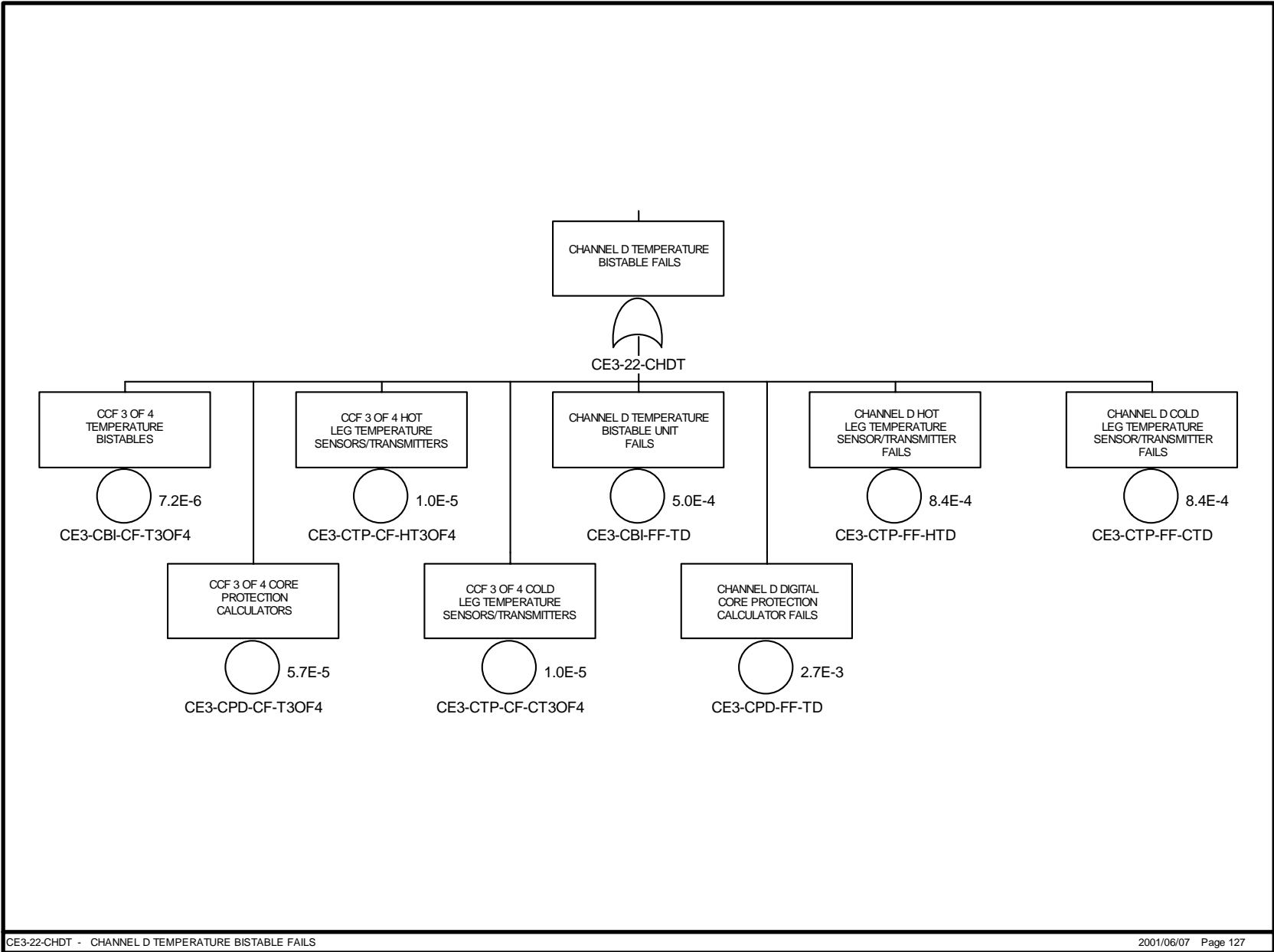


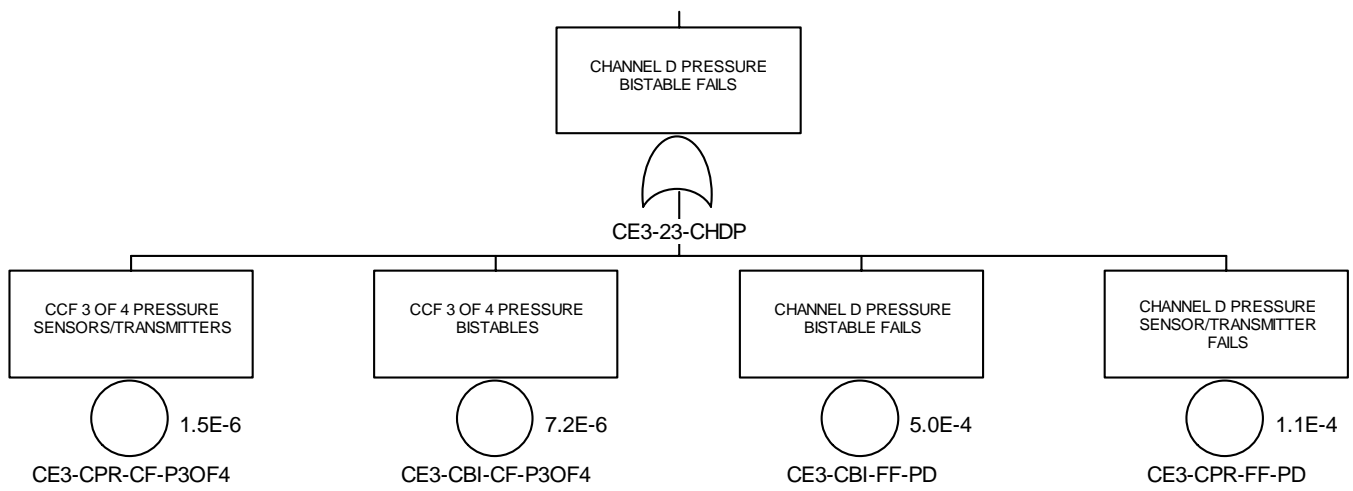


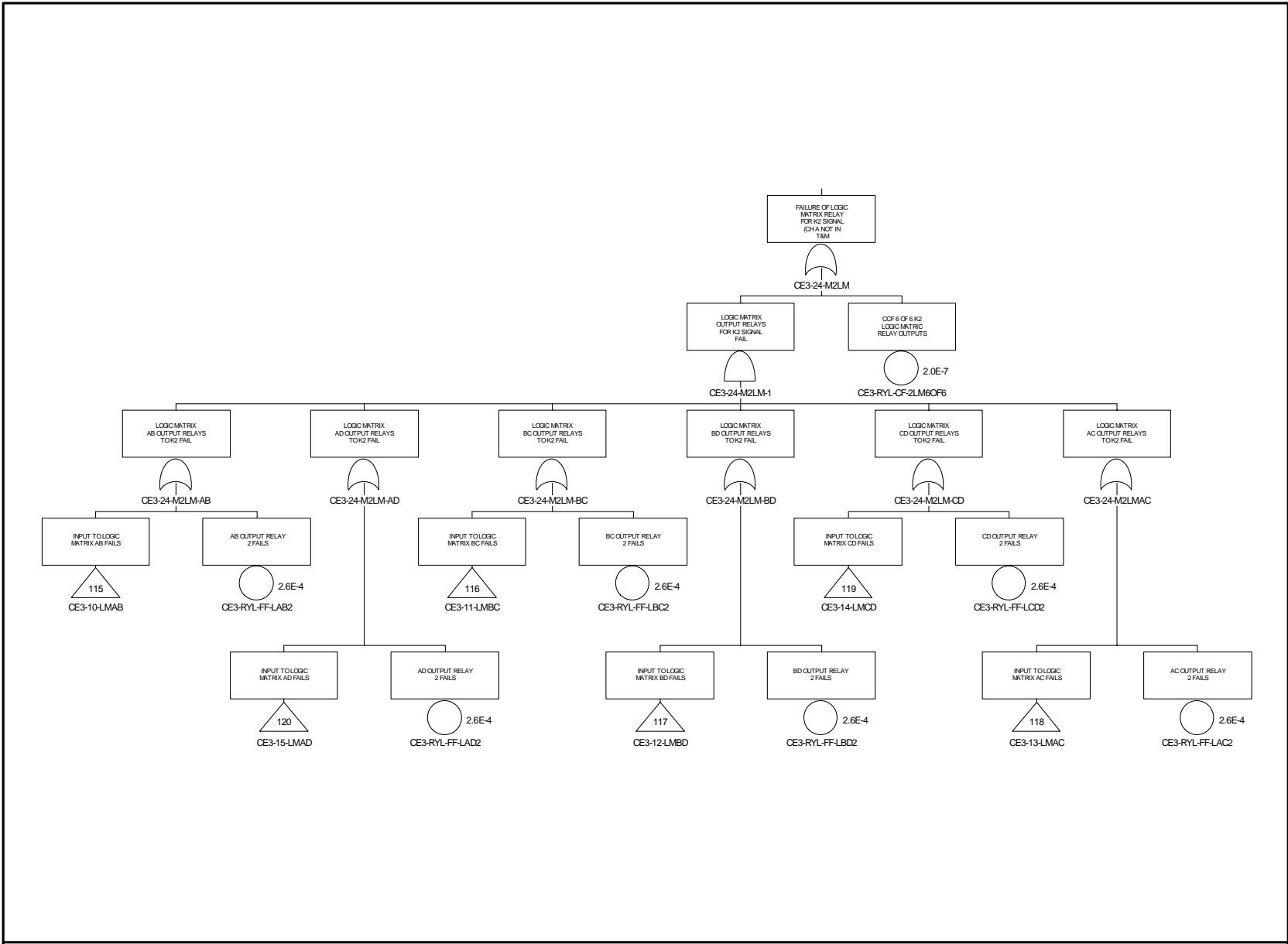




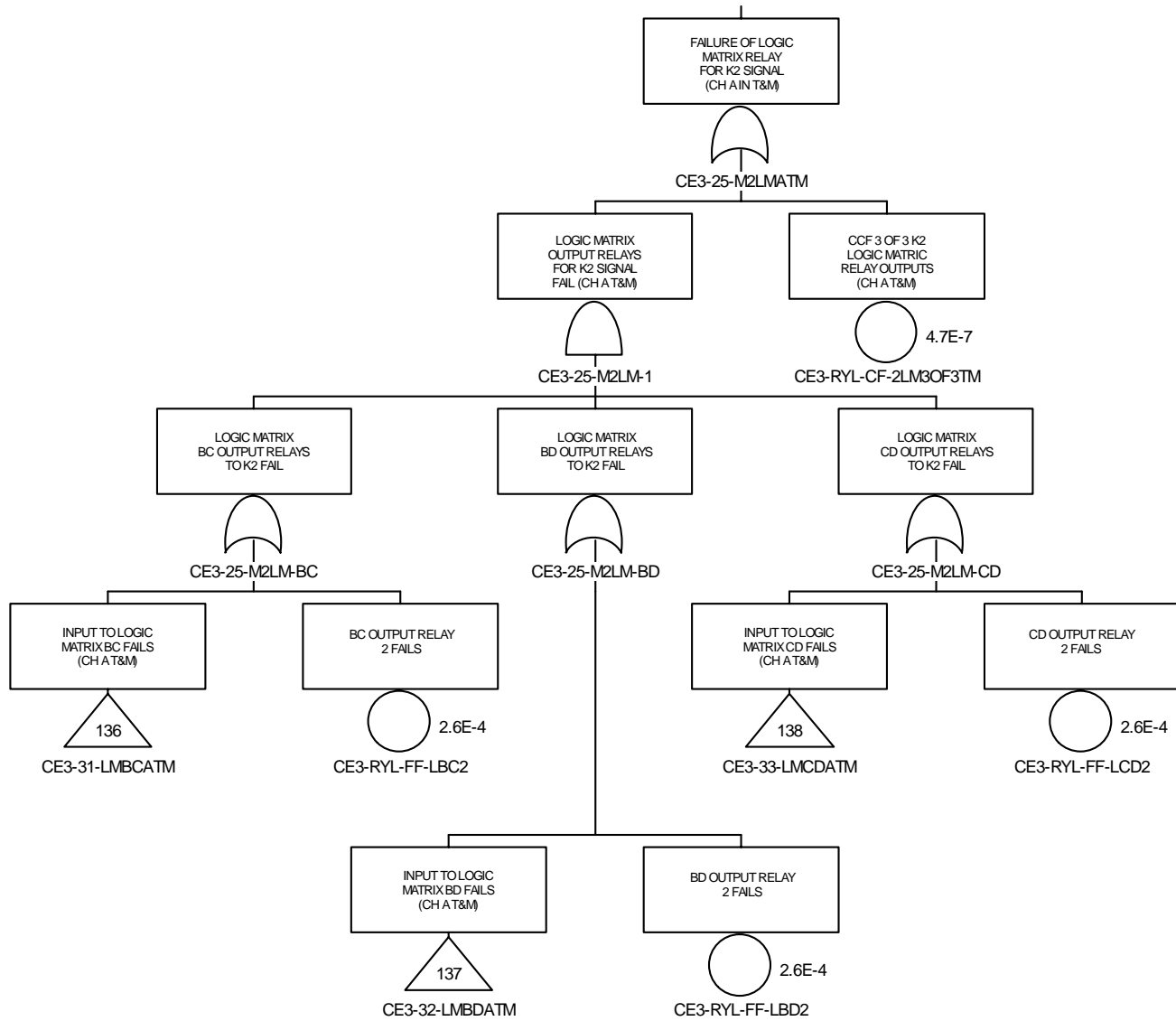


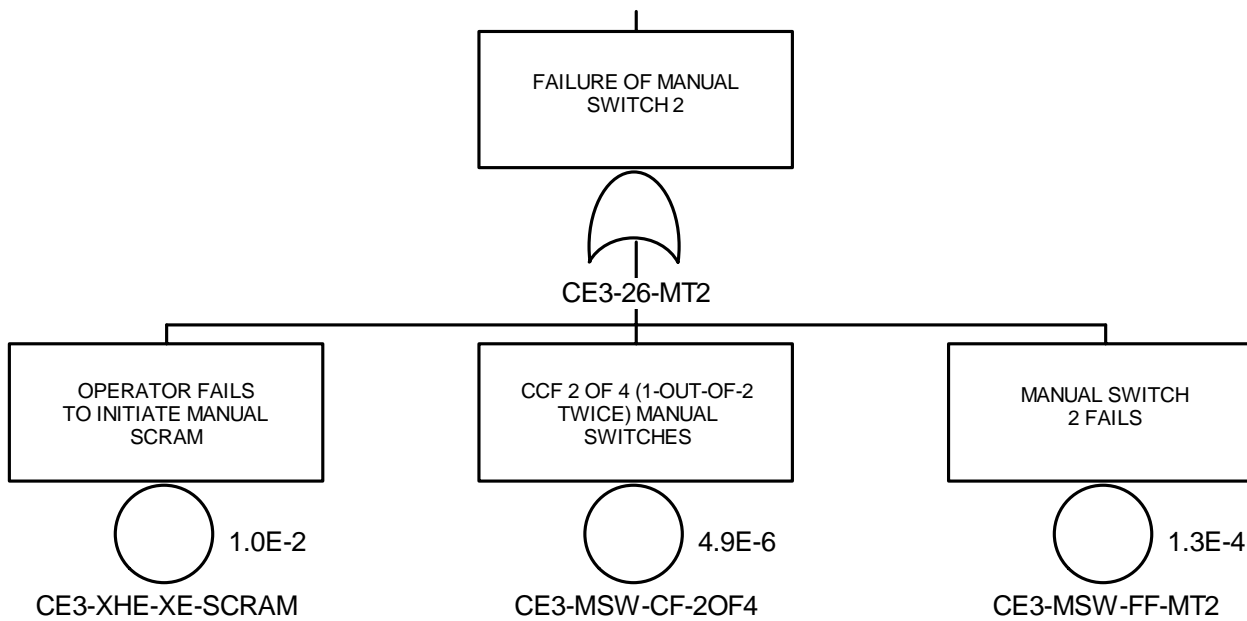


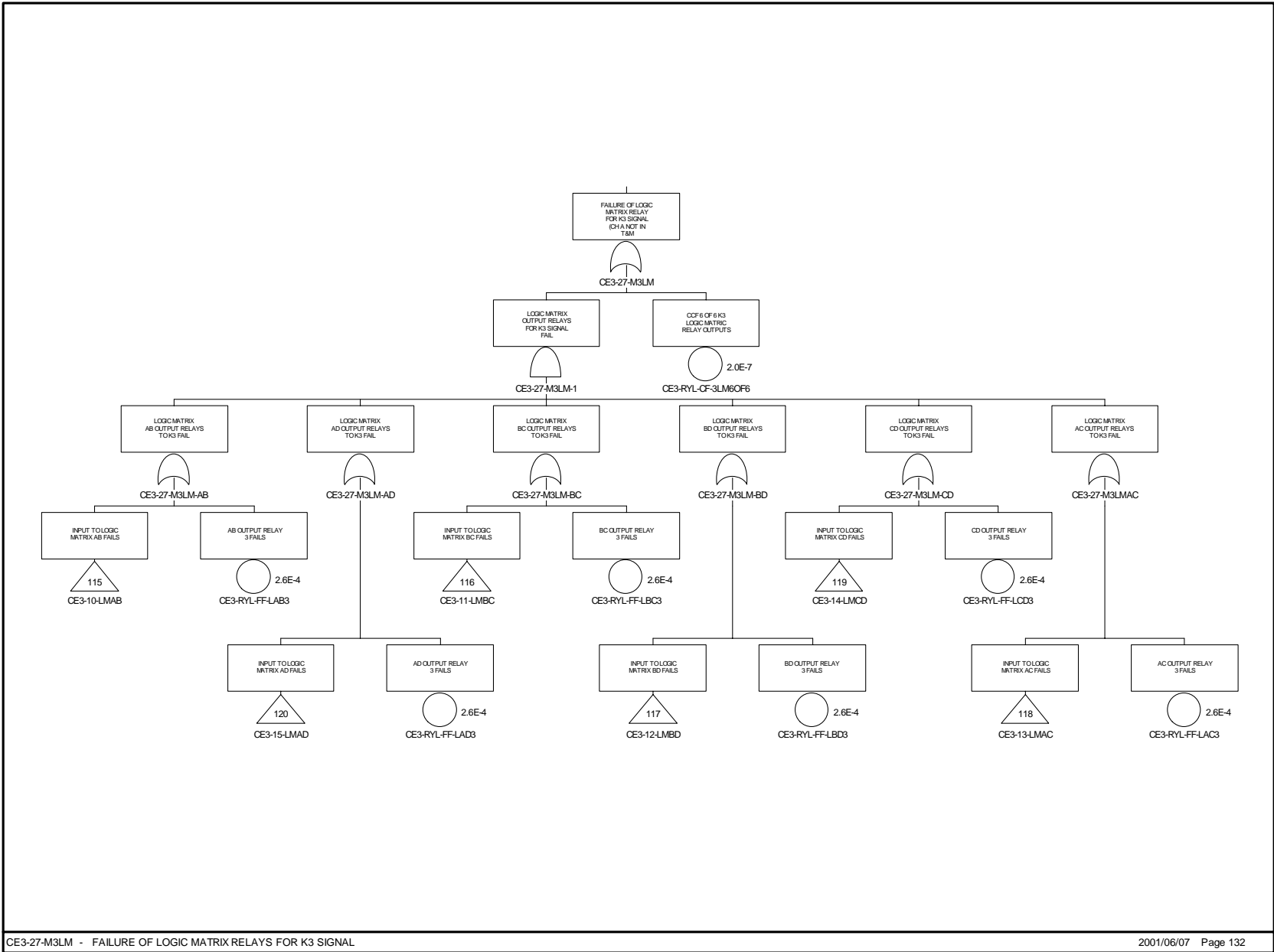


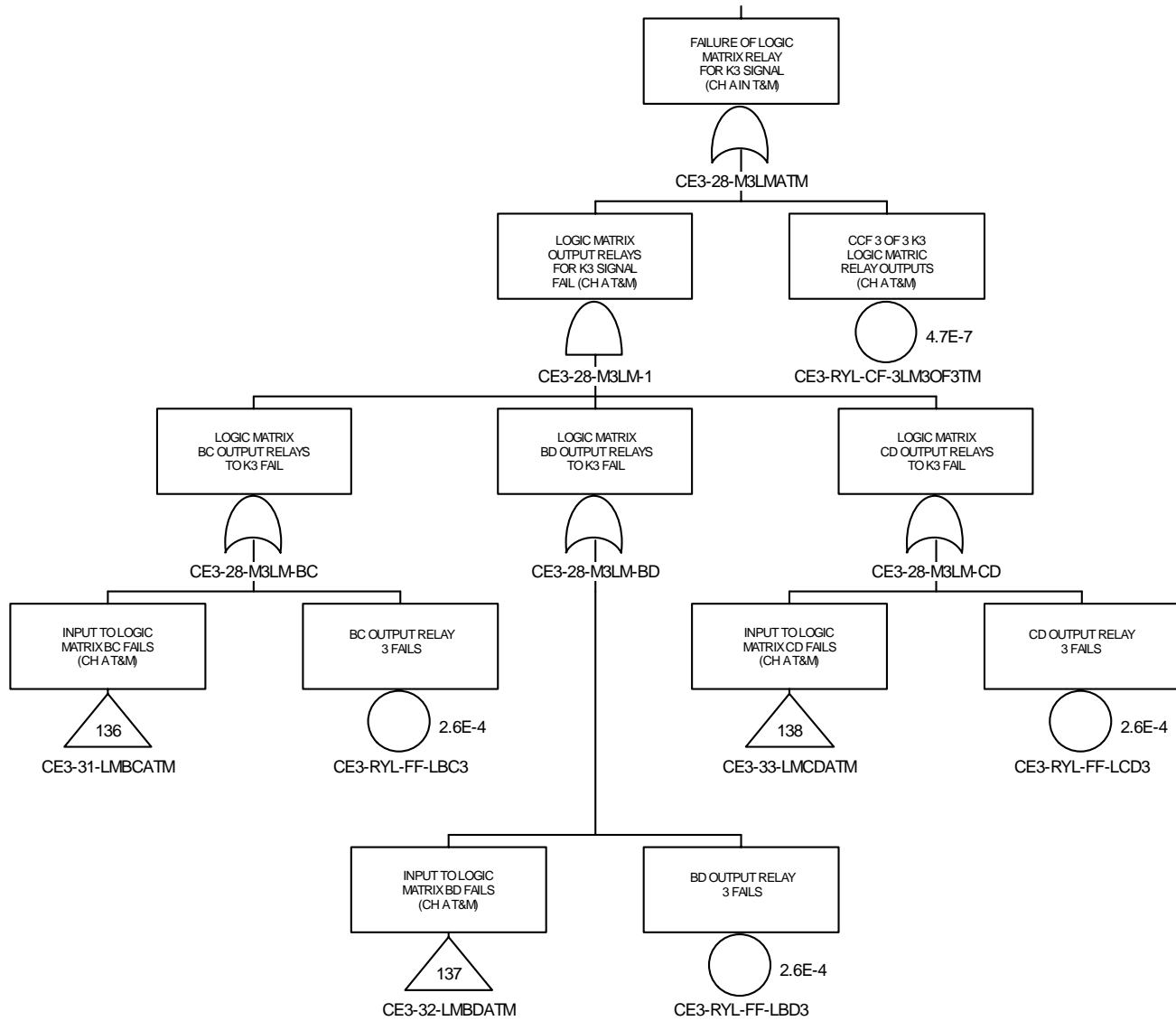


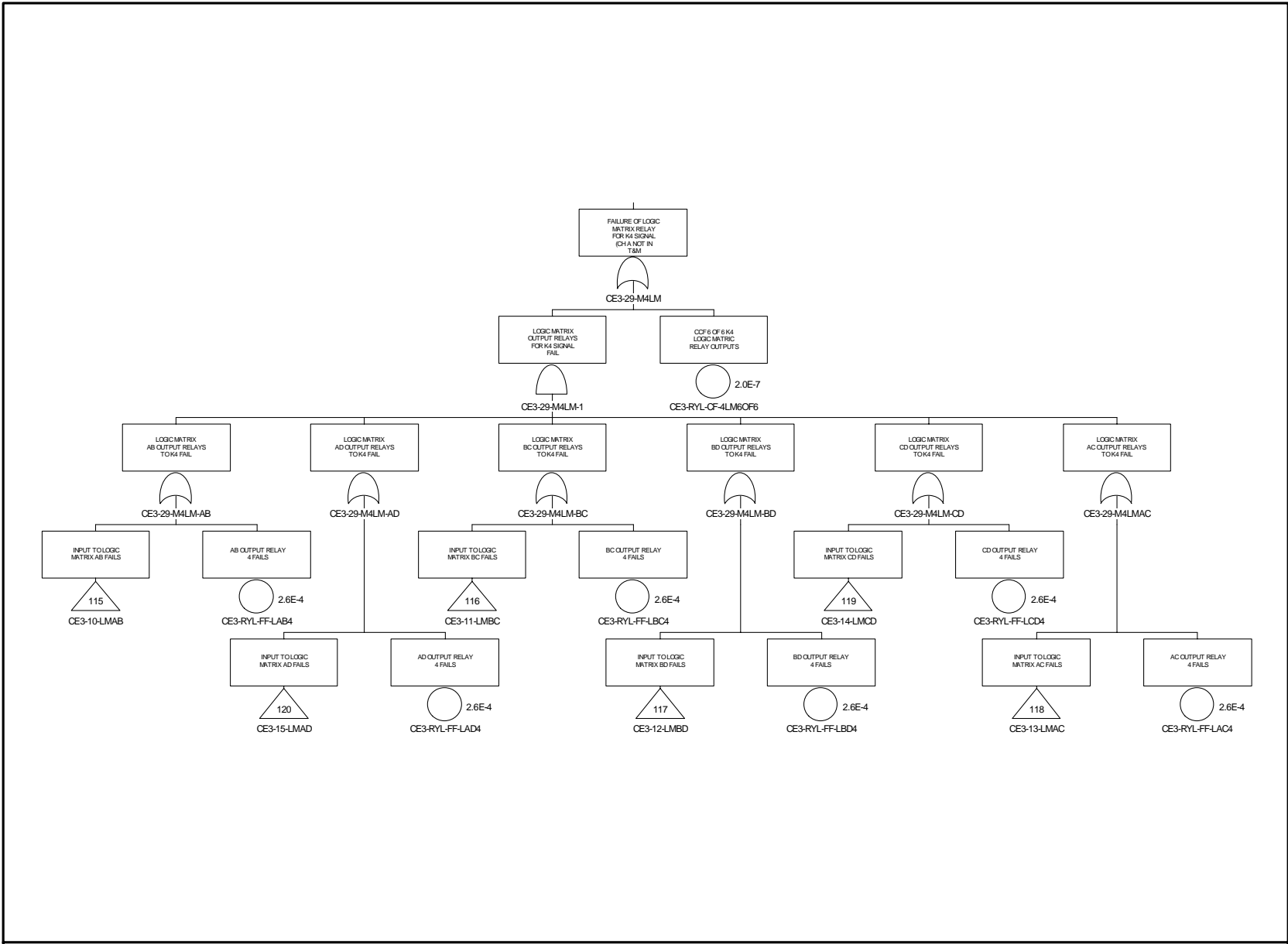
CE3-24-M2LM - FAILURE OF LOGIC MATRIX RELAYS FOR K2 SIGNAL



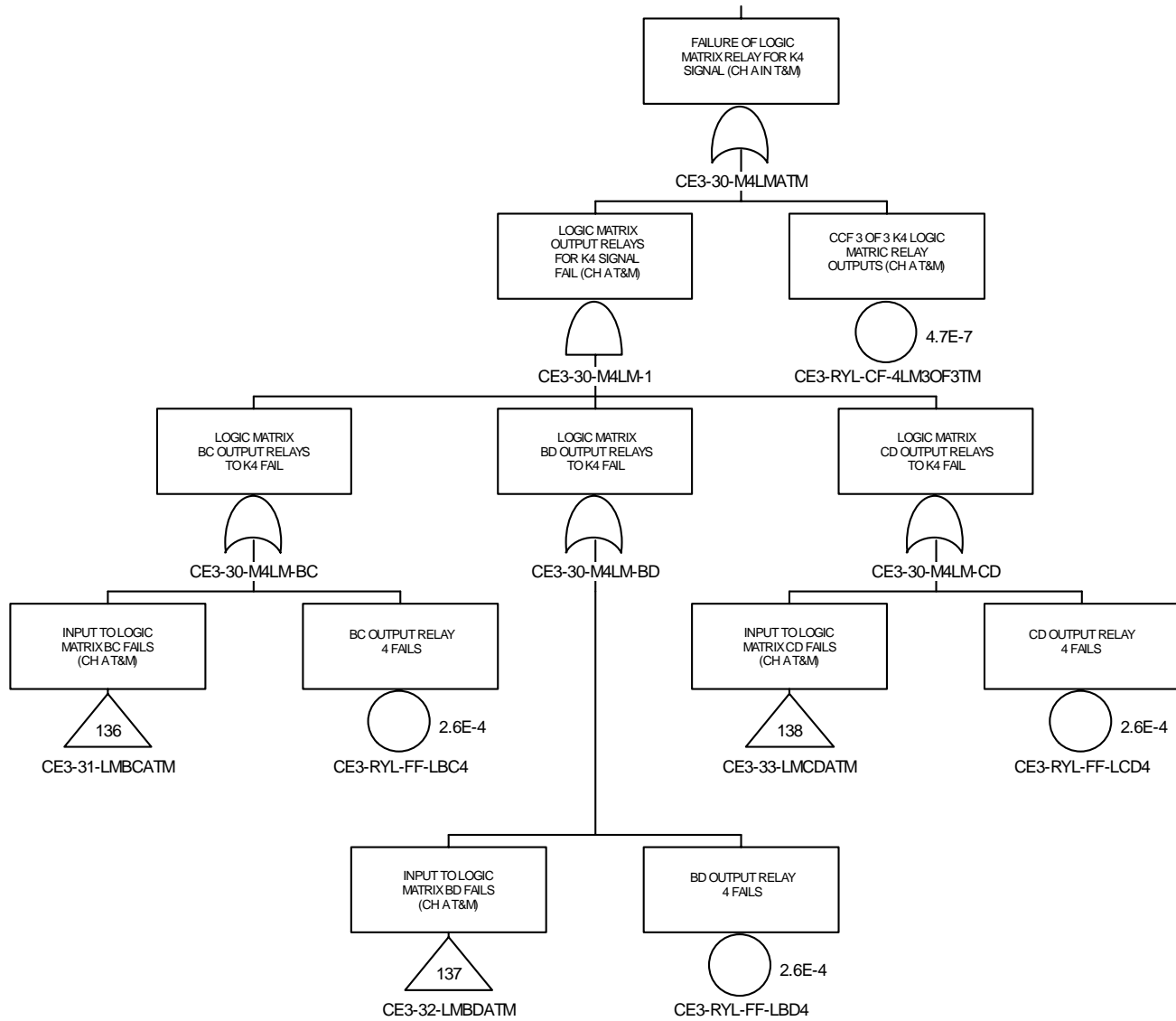


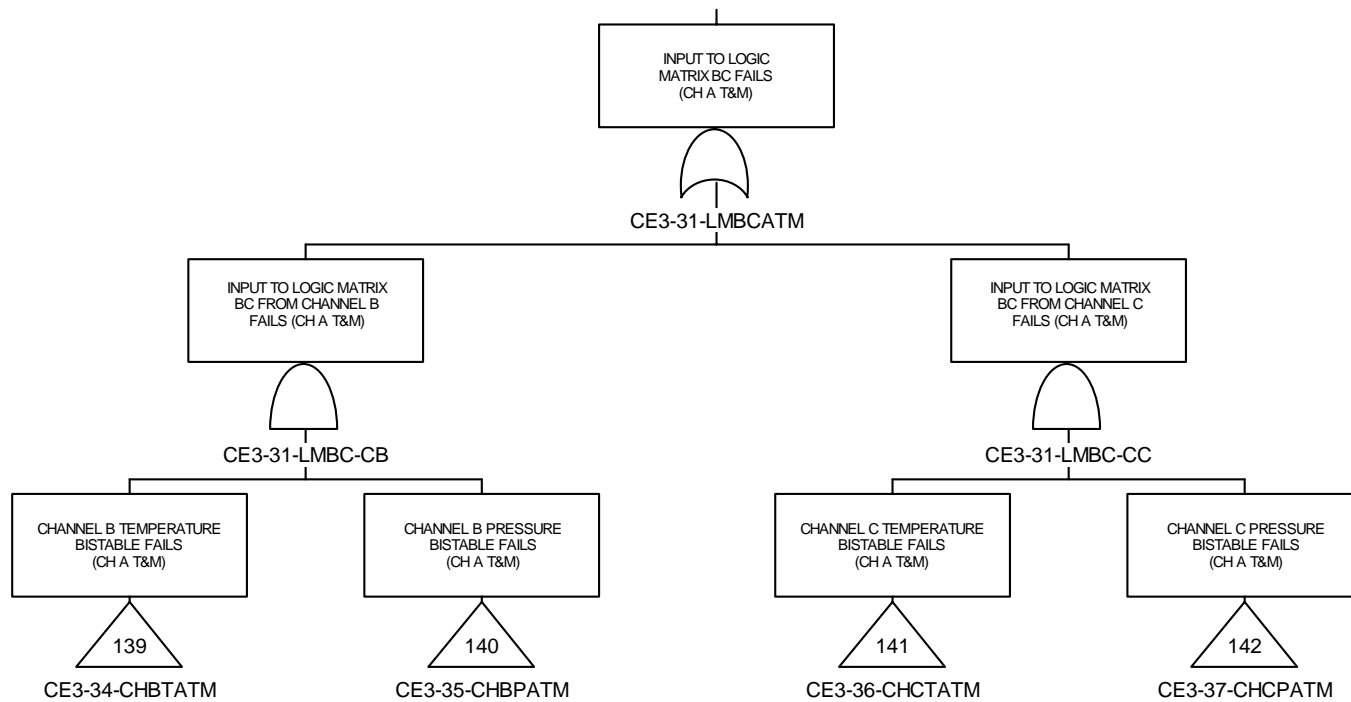


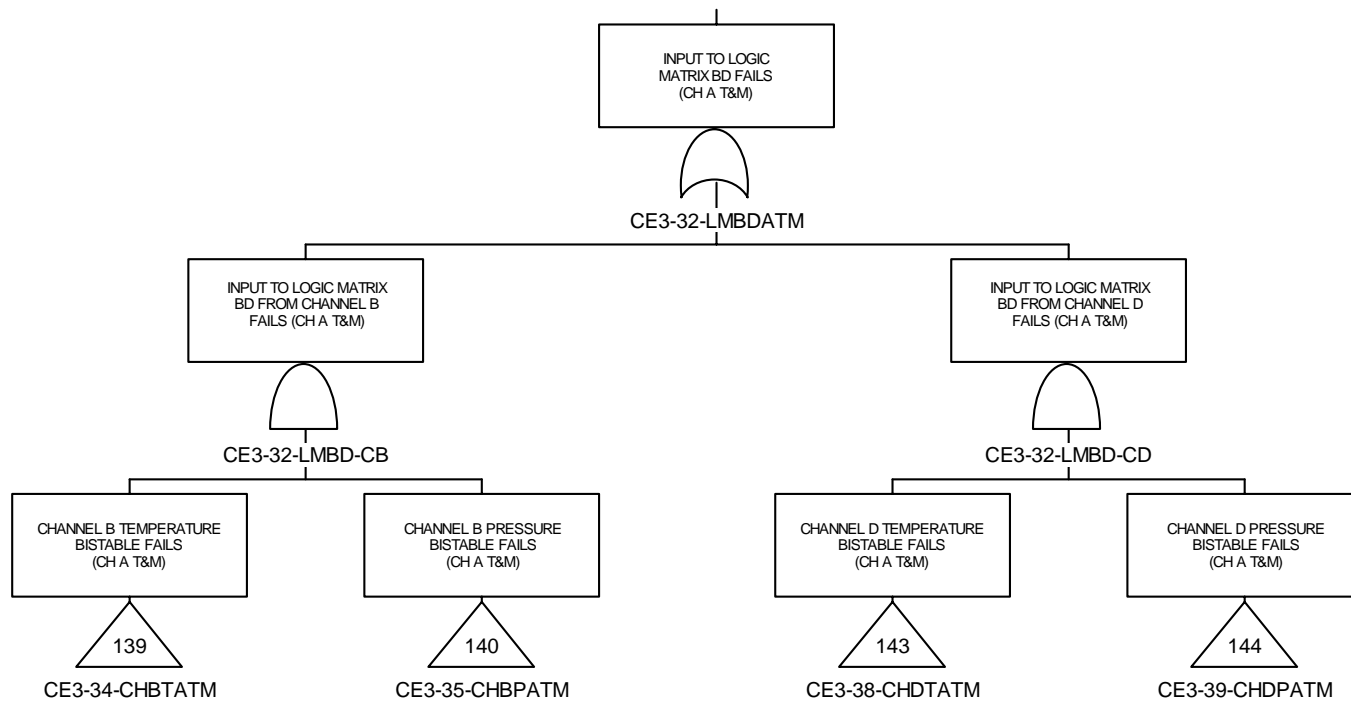


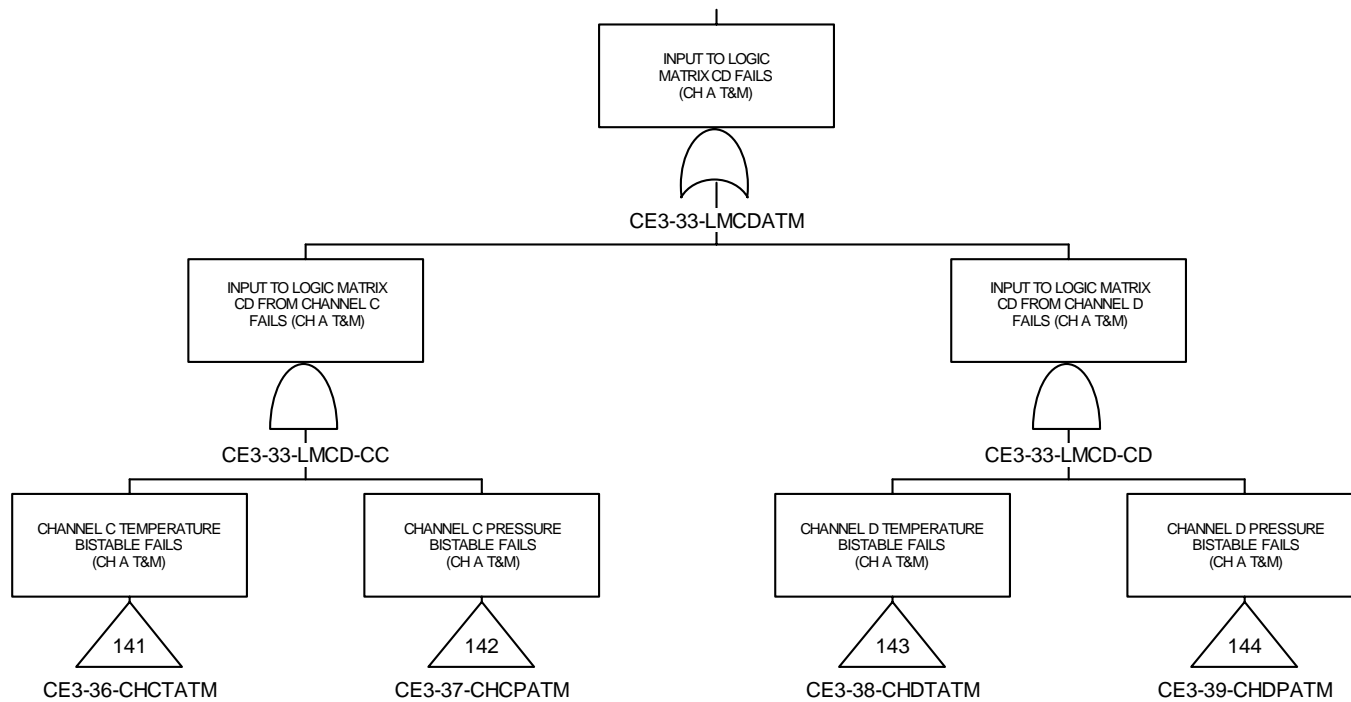


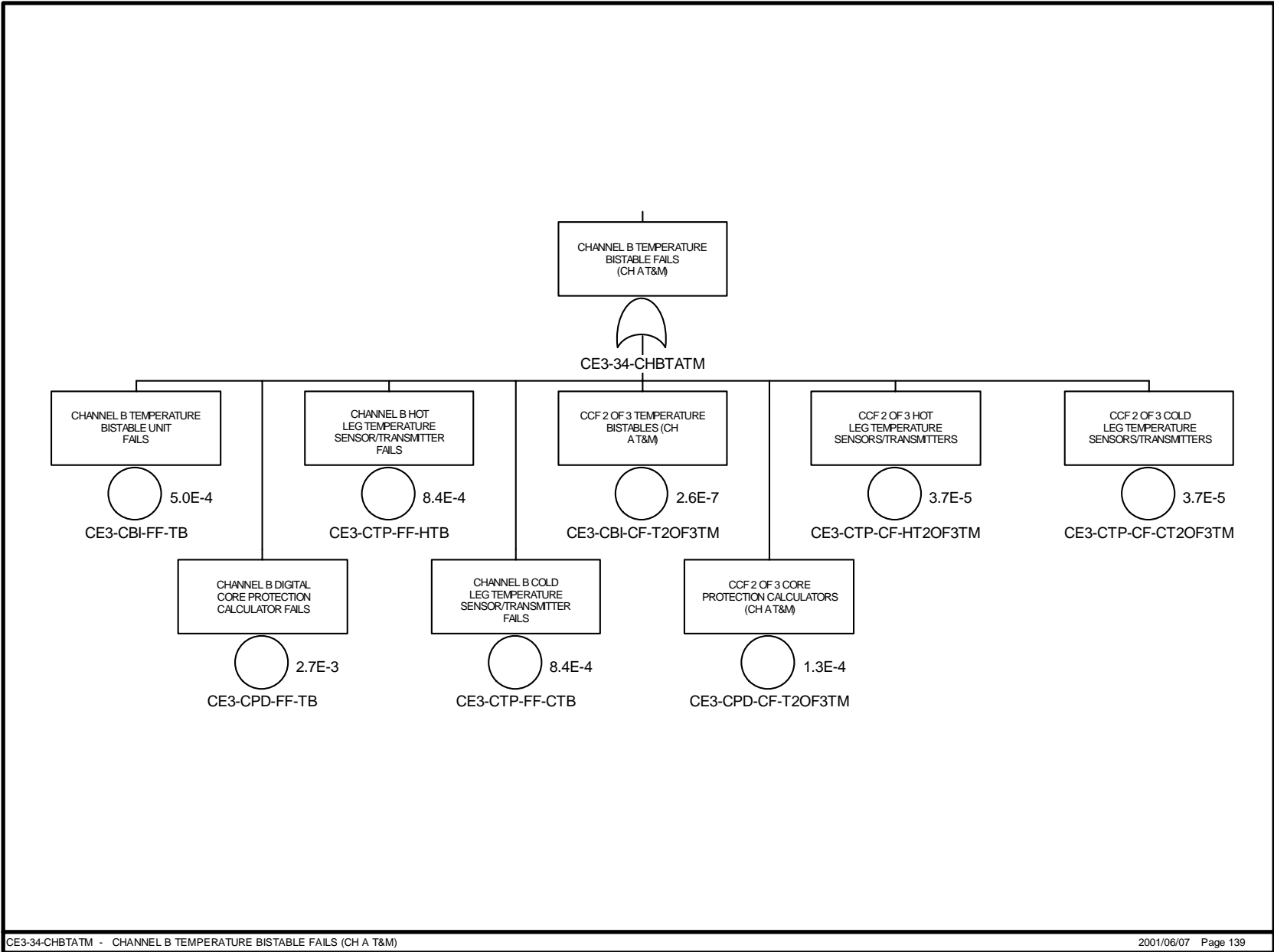
CE3-29-M4LM - FAILURE OF LOGIC MATRIX RELAYS FOR K4 SIGNAL

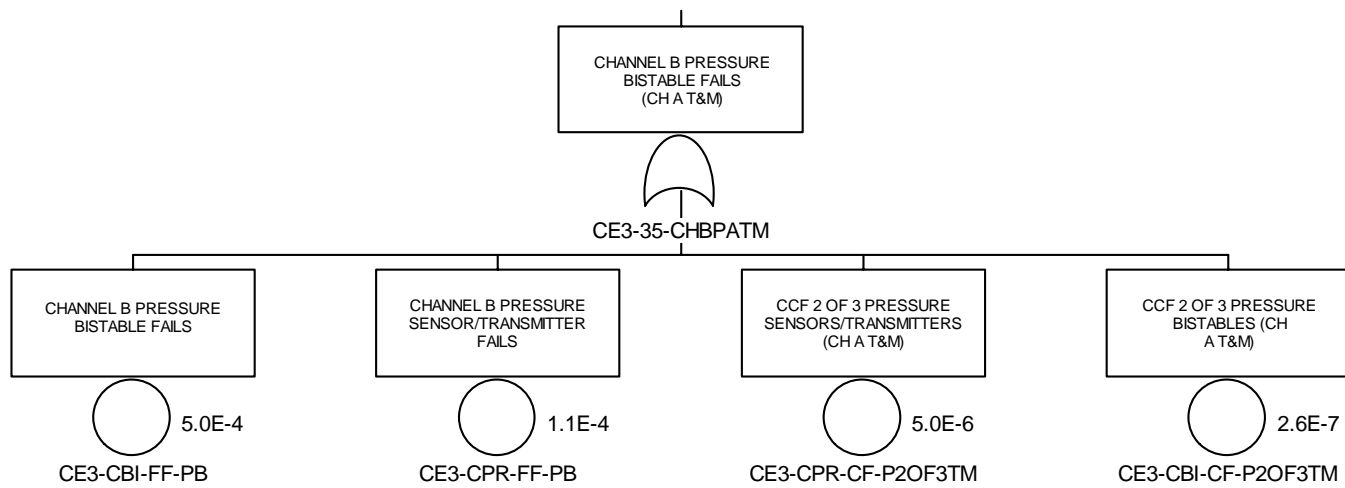


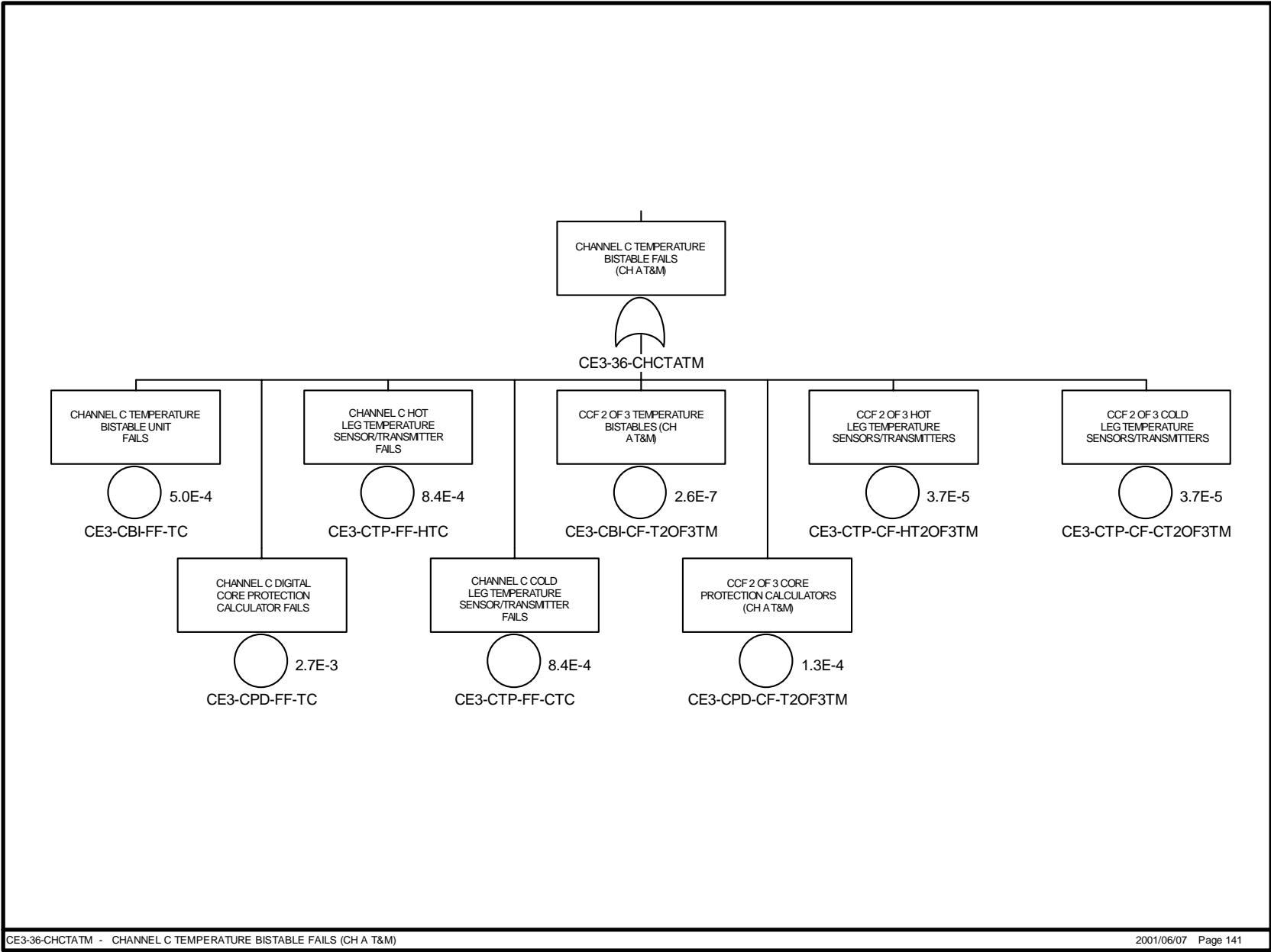


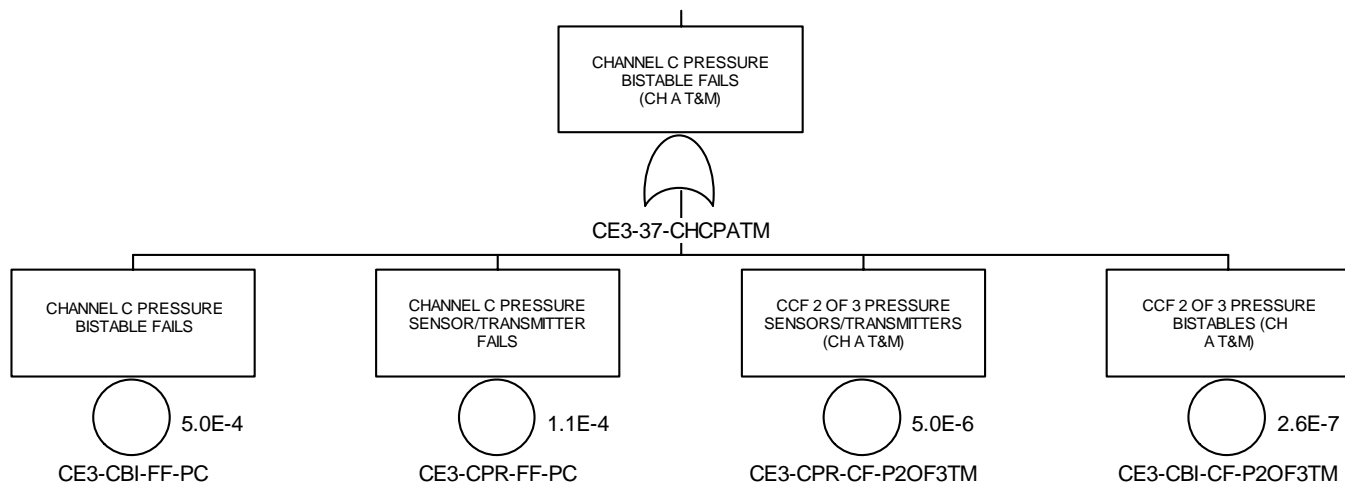


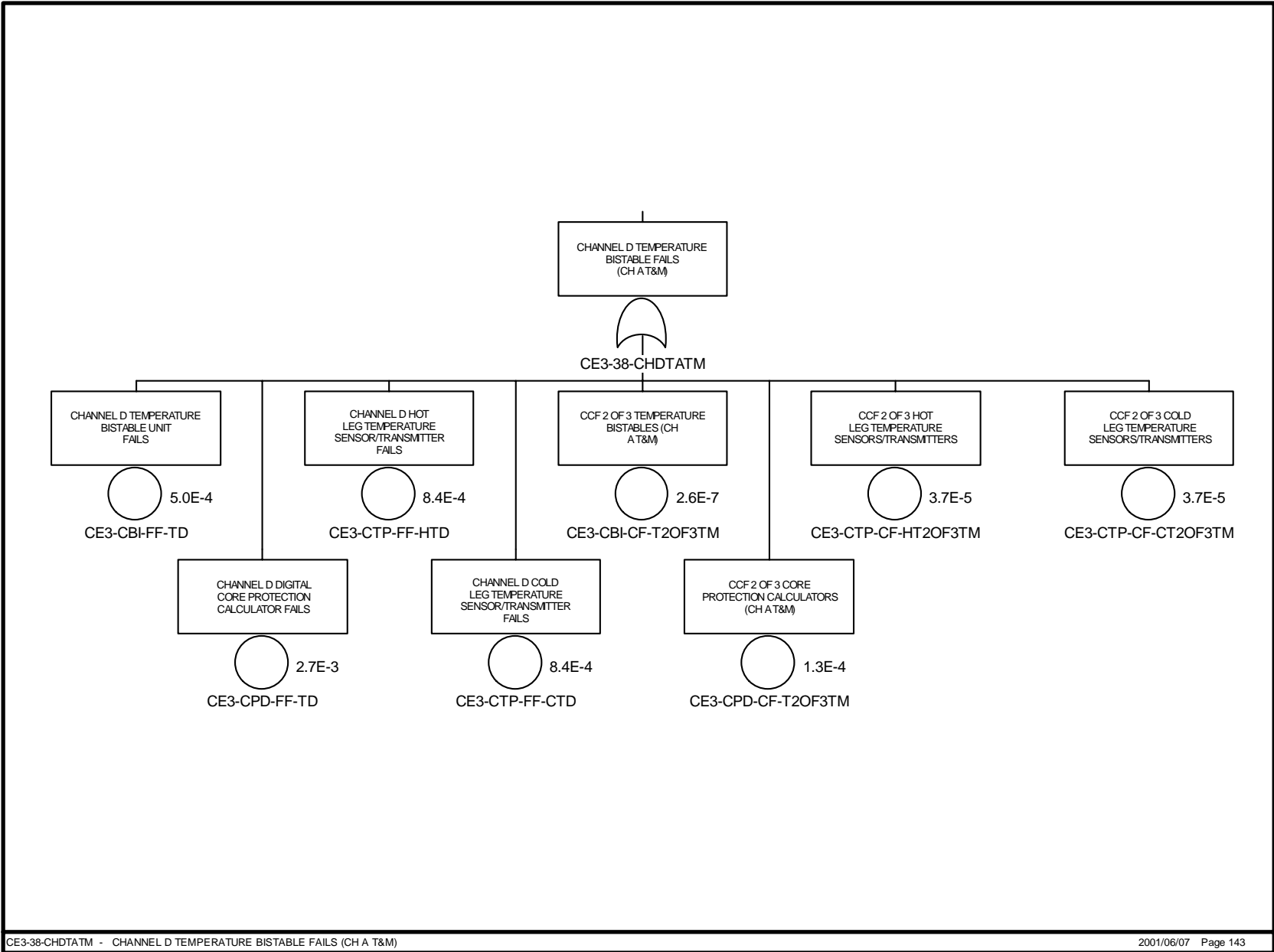


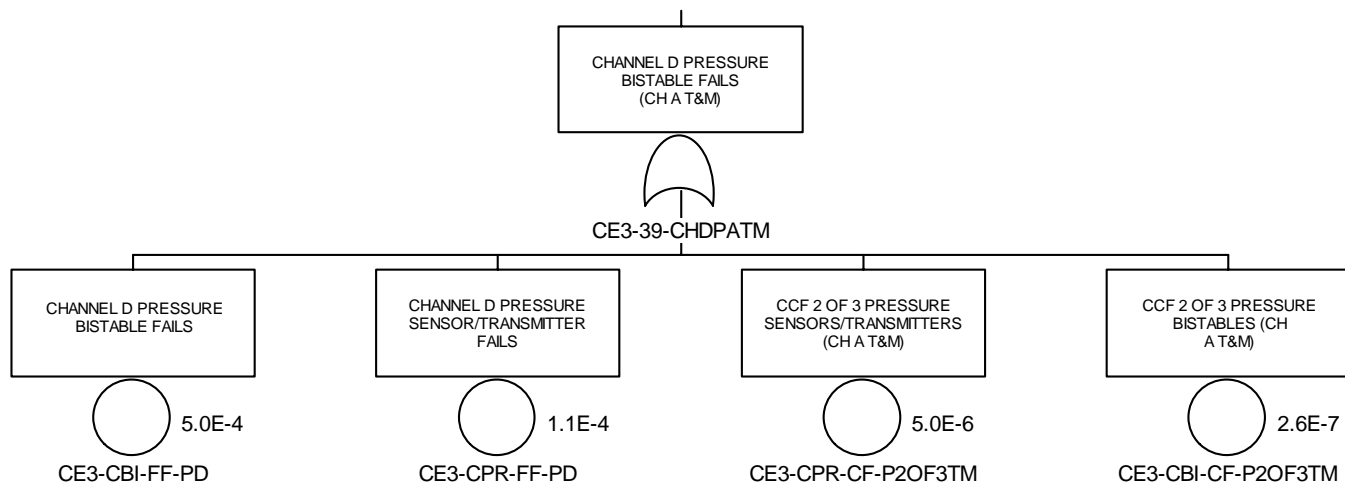


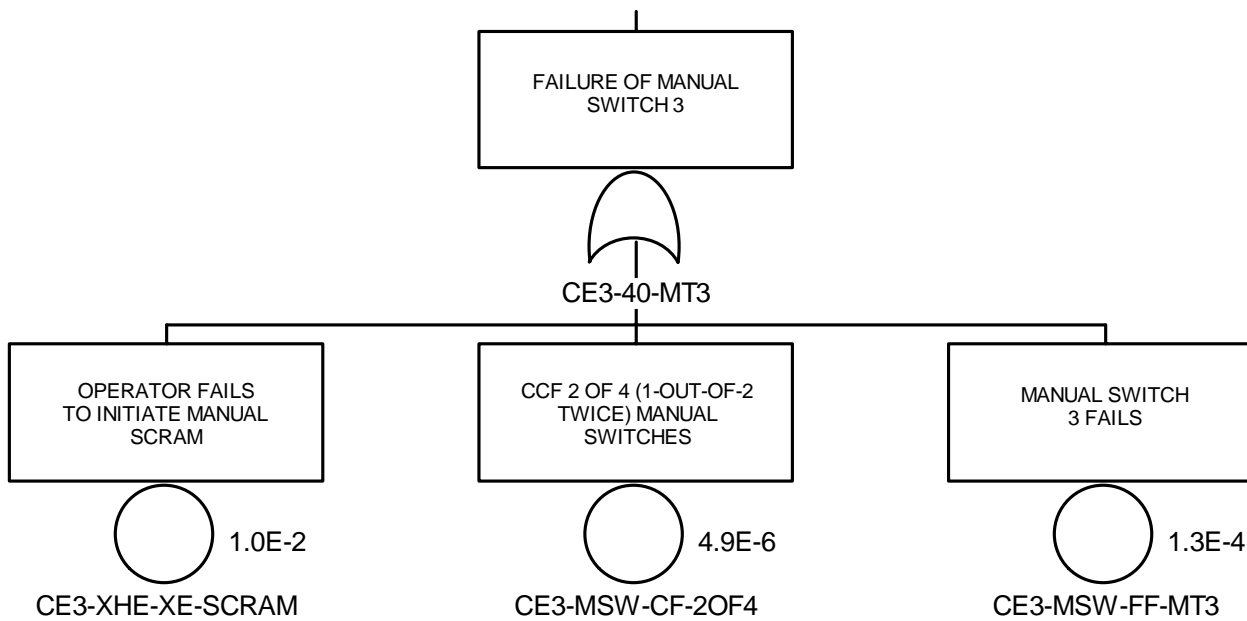


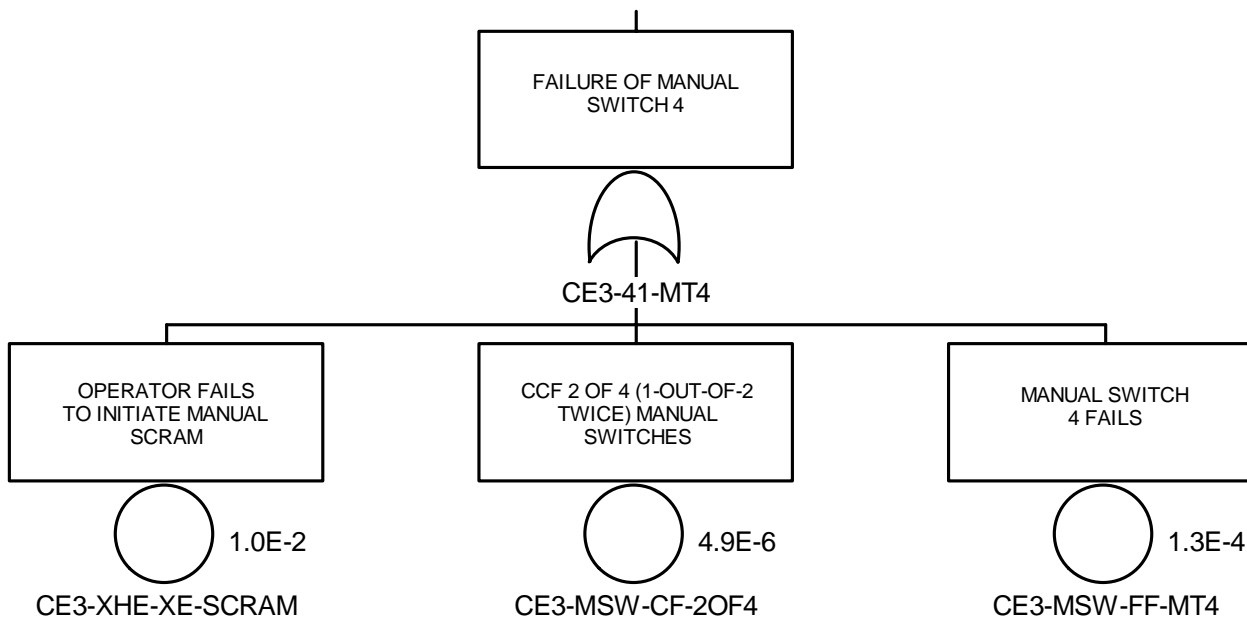




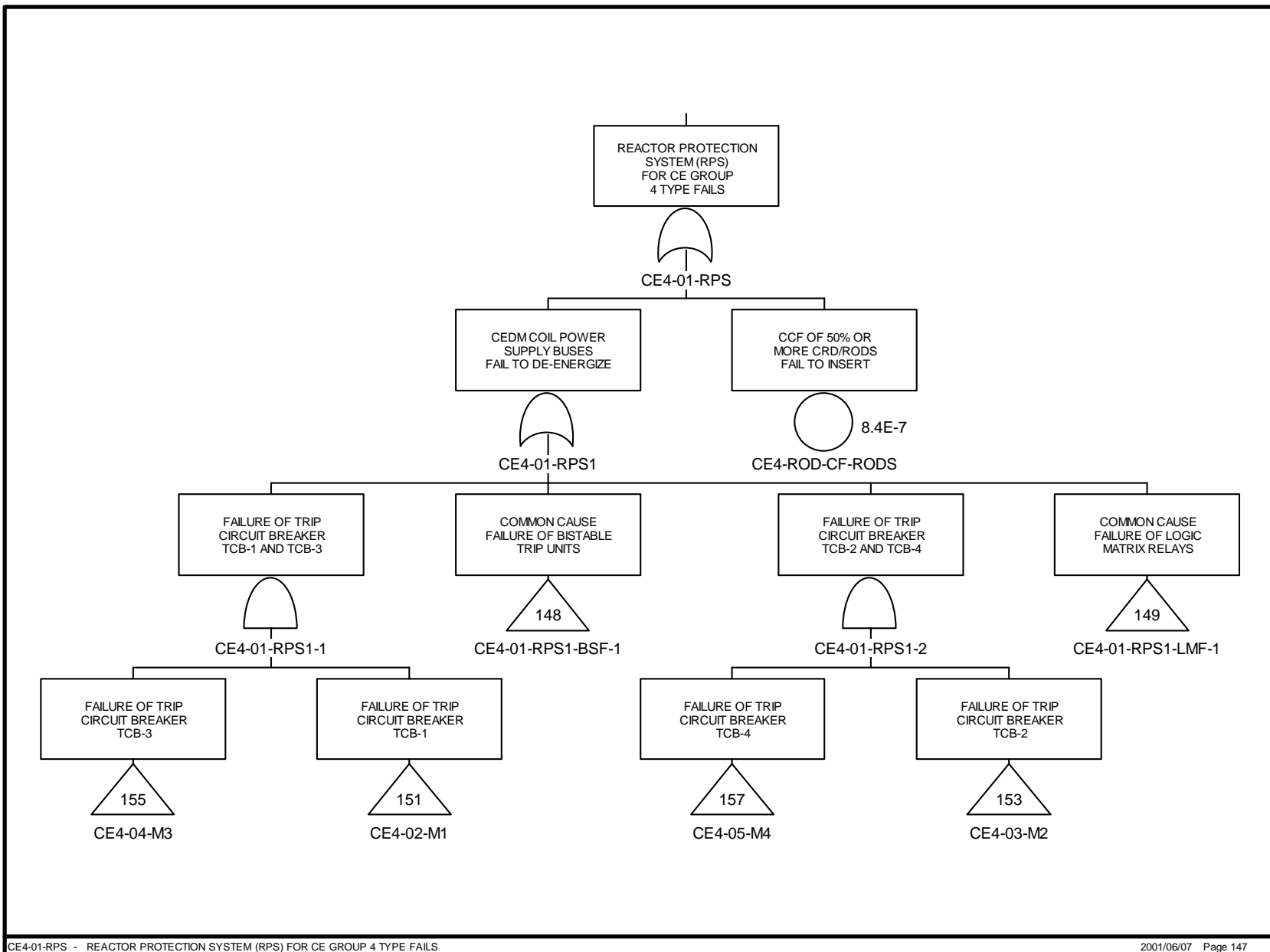


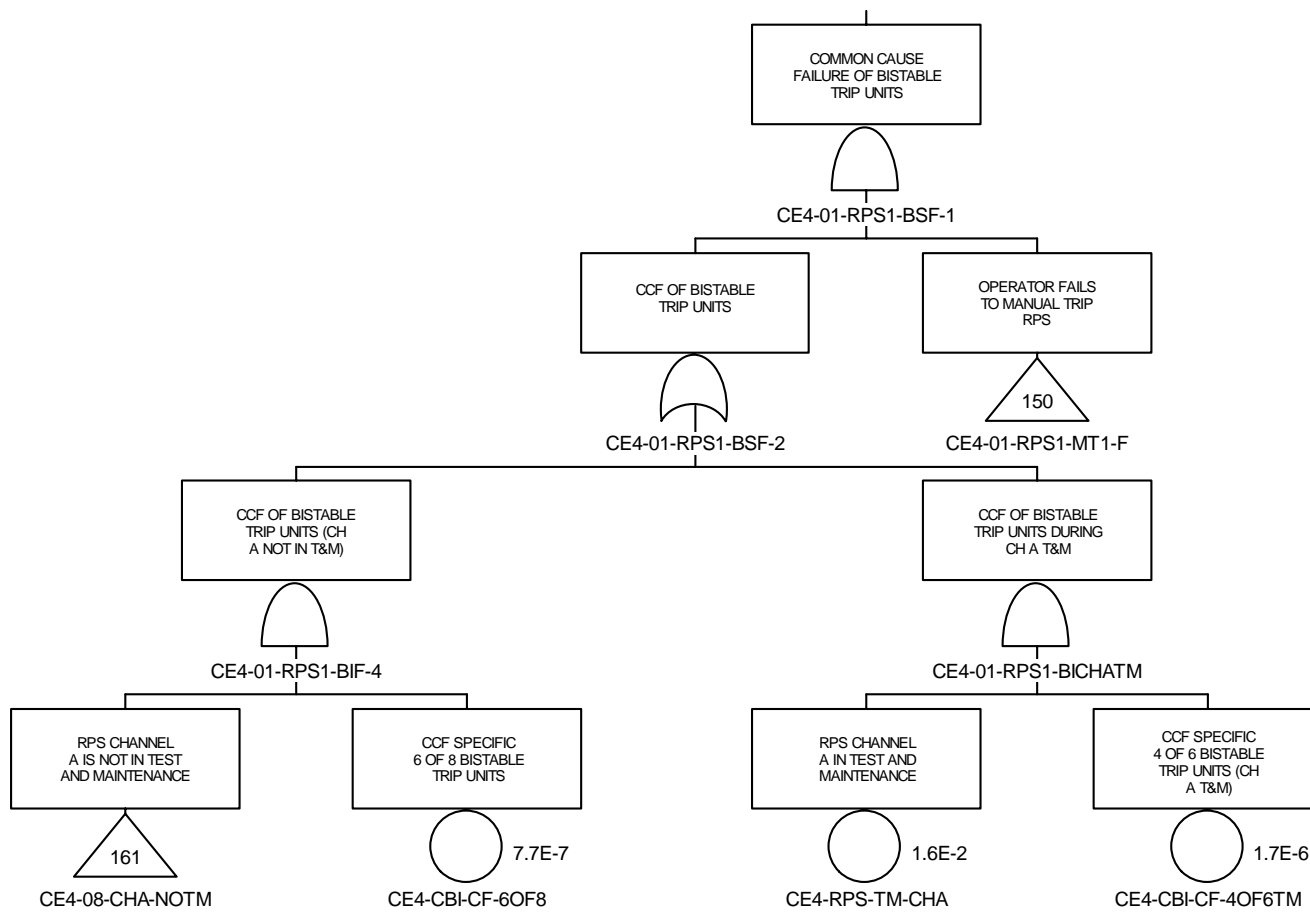


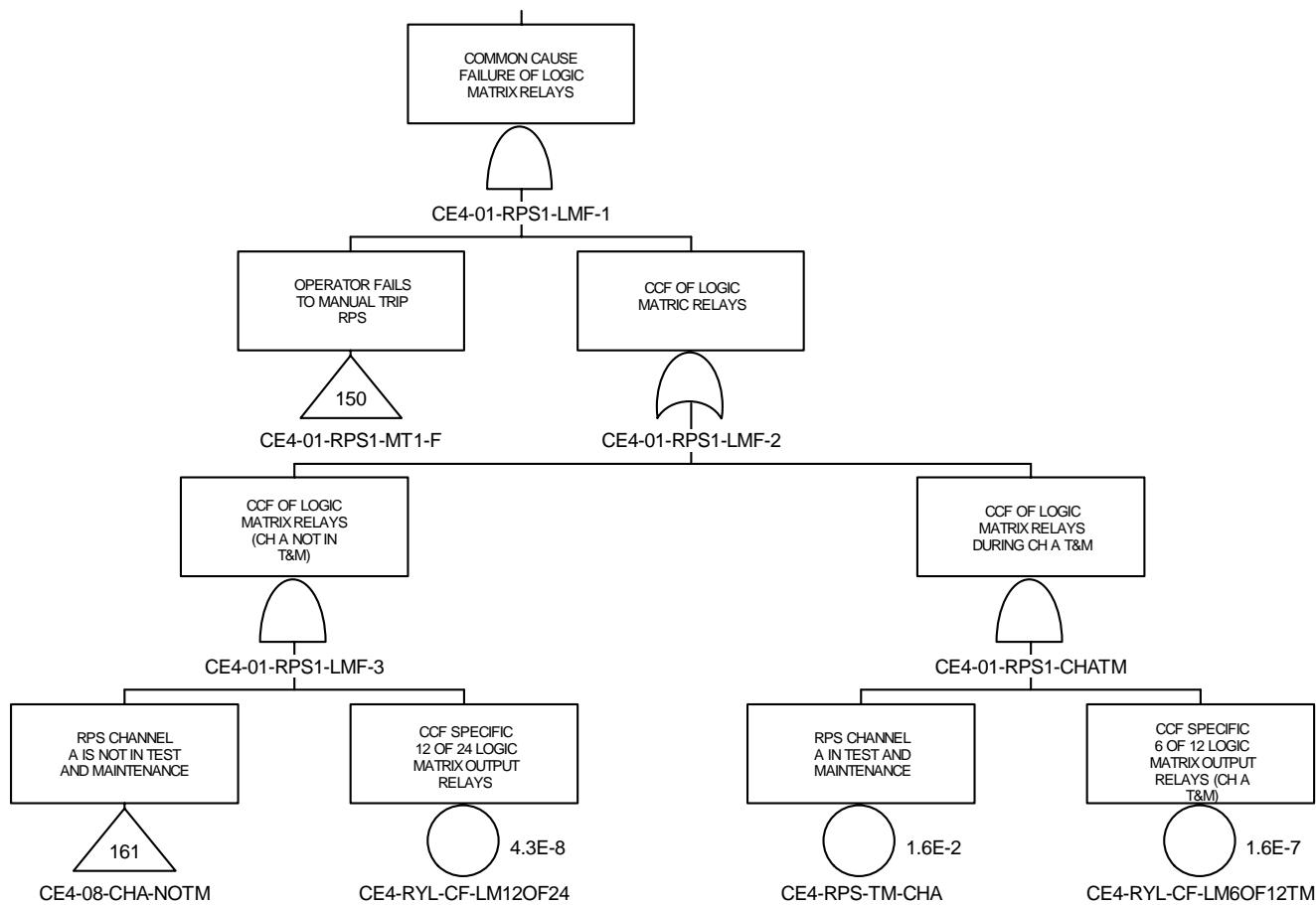


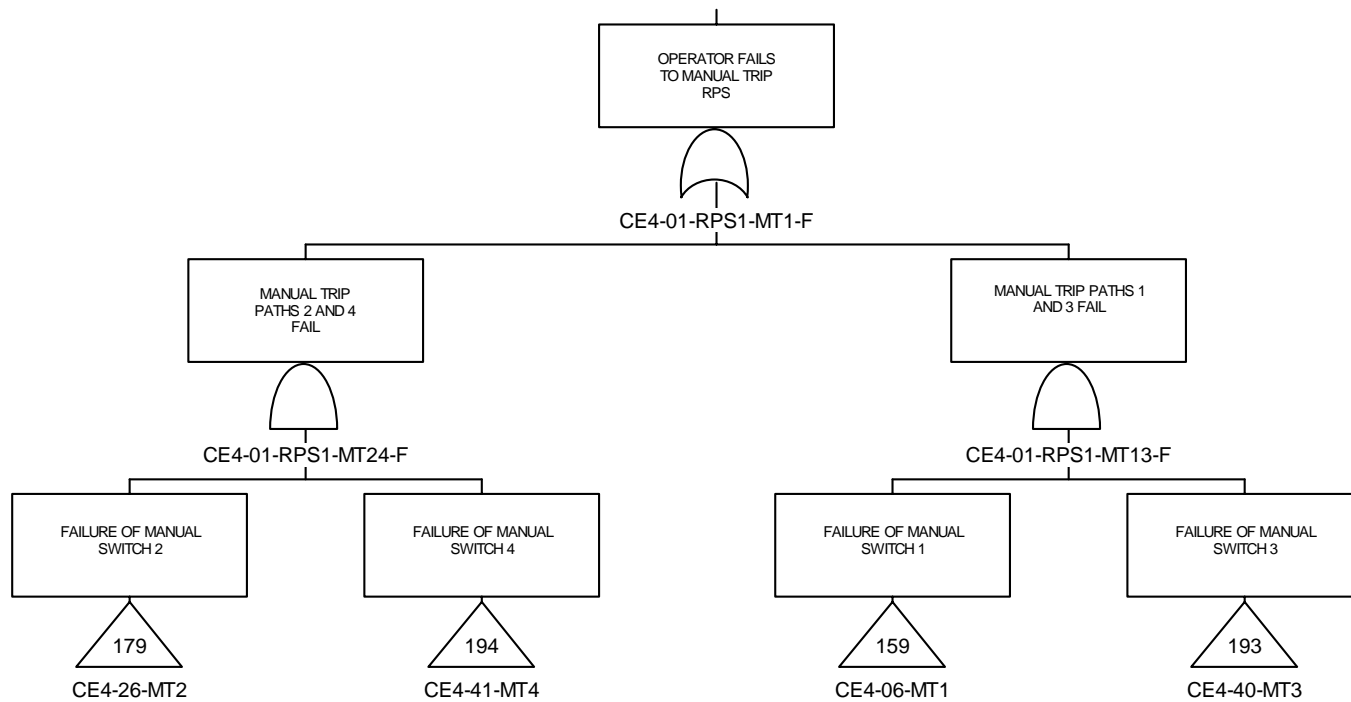


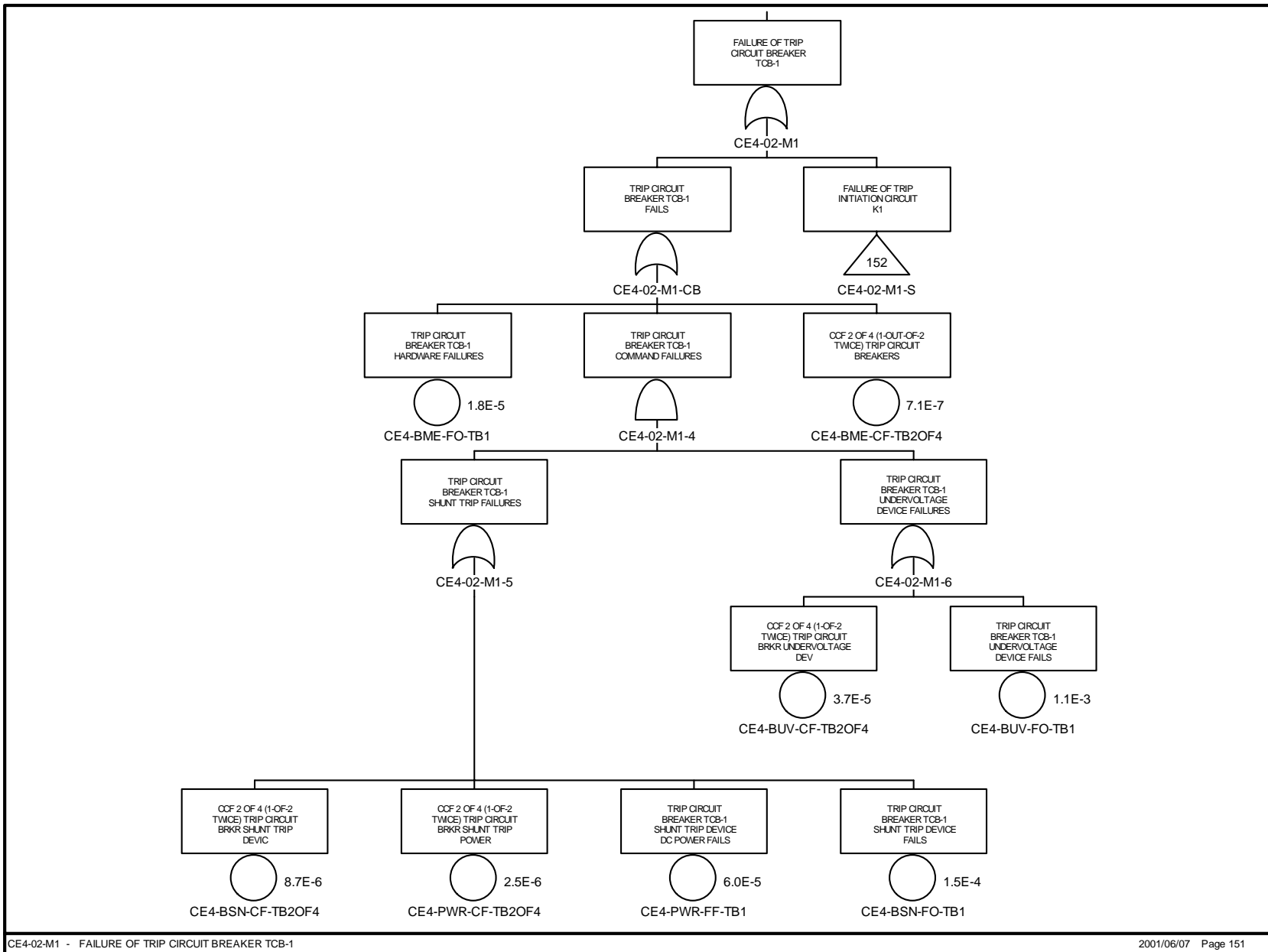
COMBUSTION ENGINEERING RPS GROUP 4 MODEL

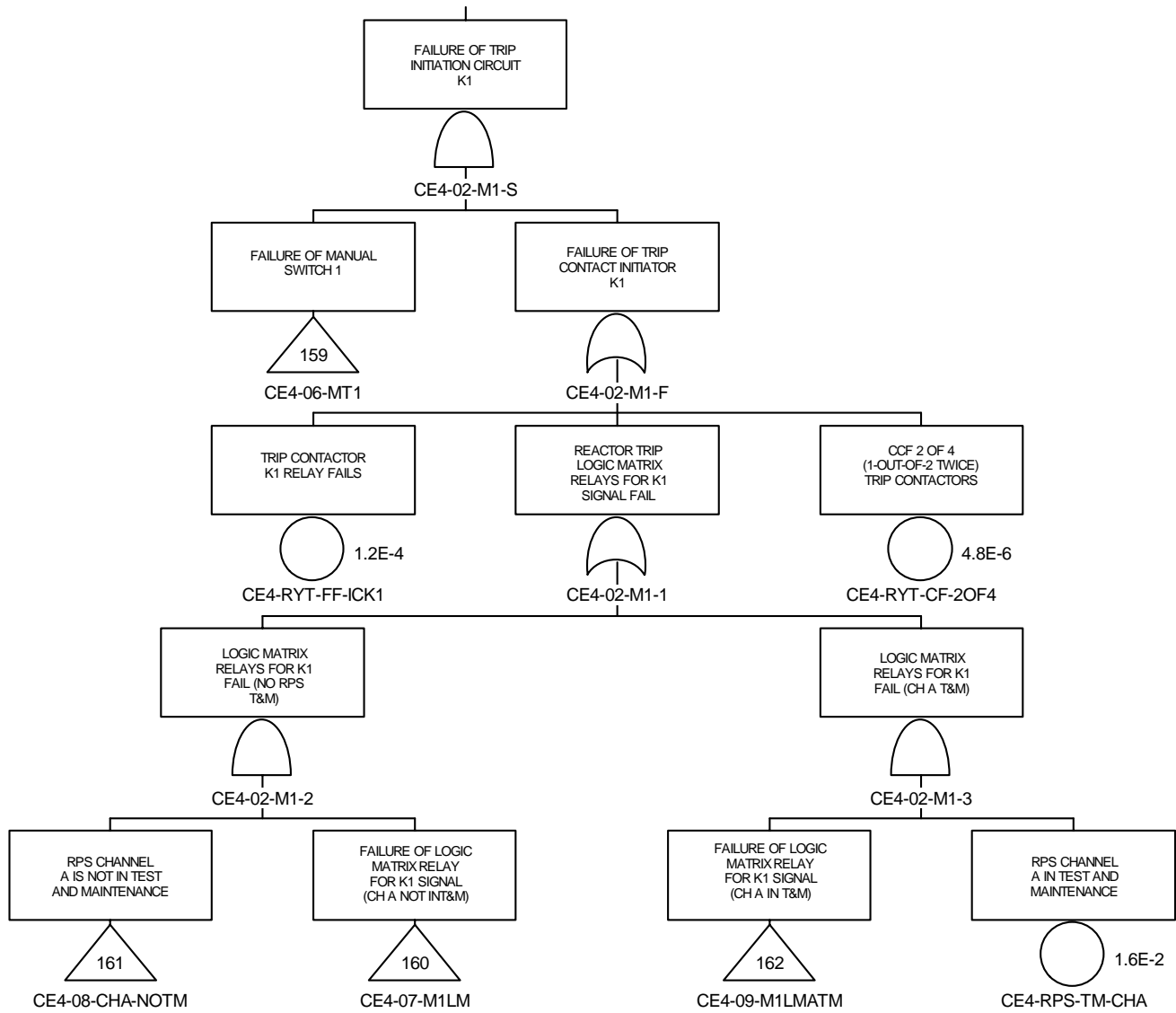


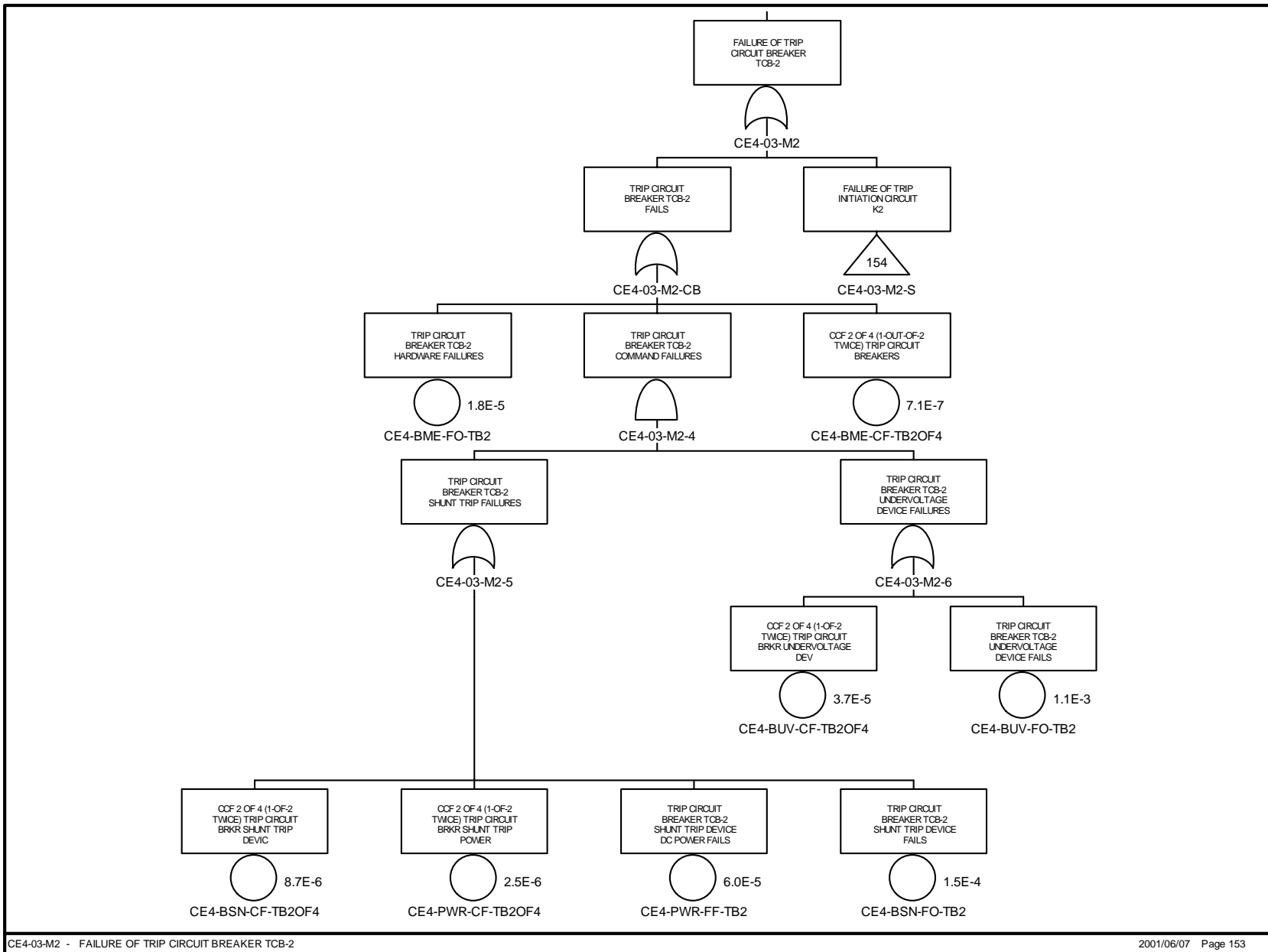


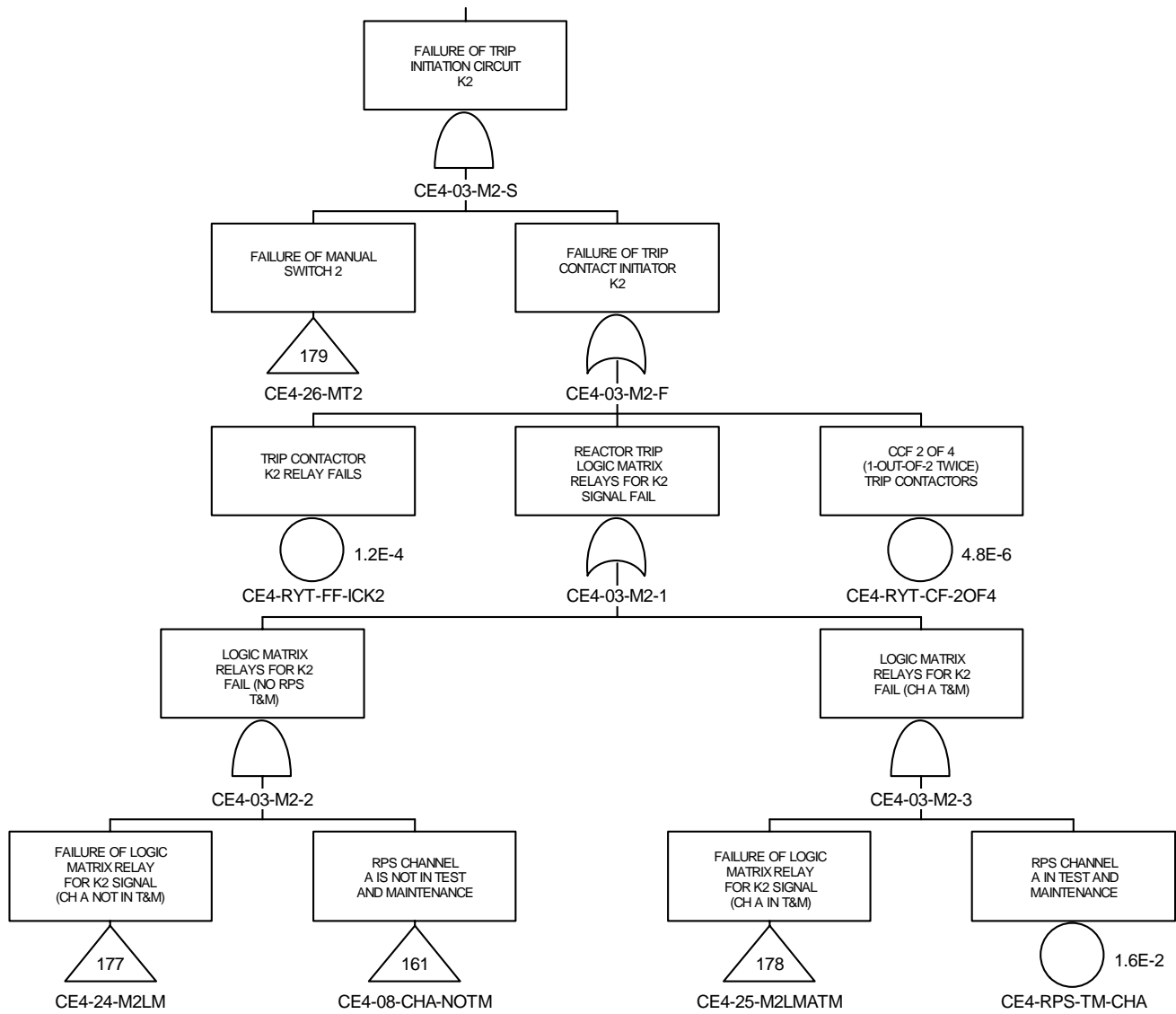


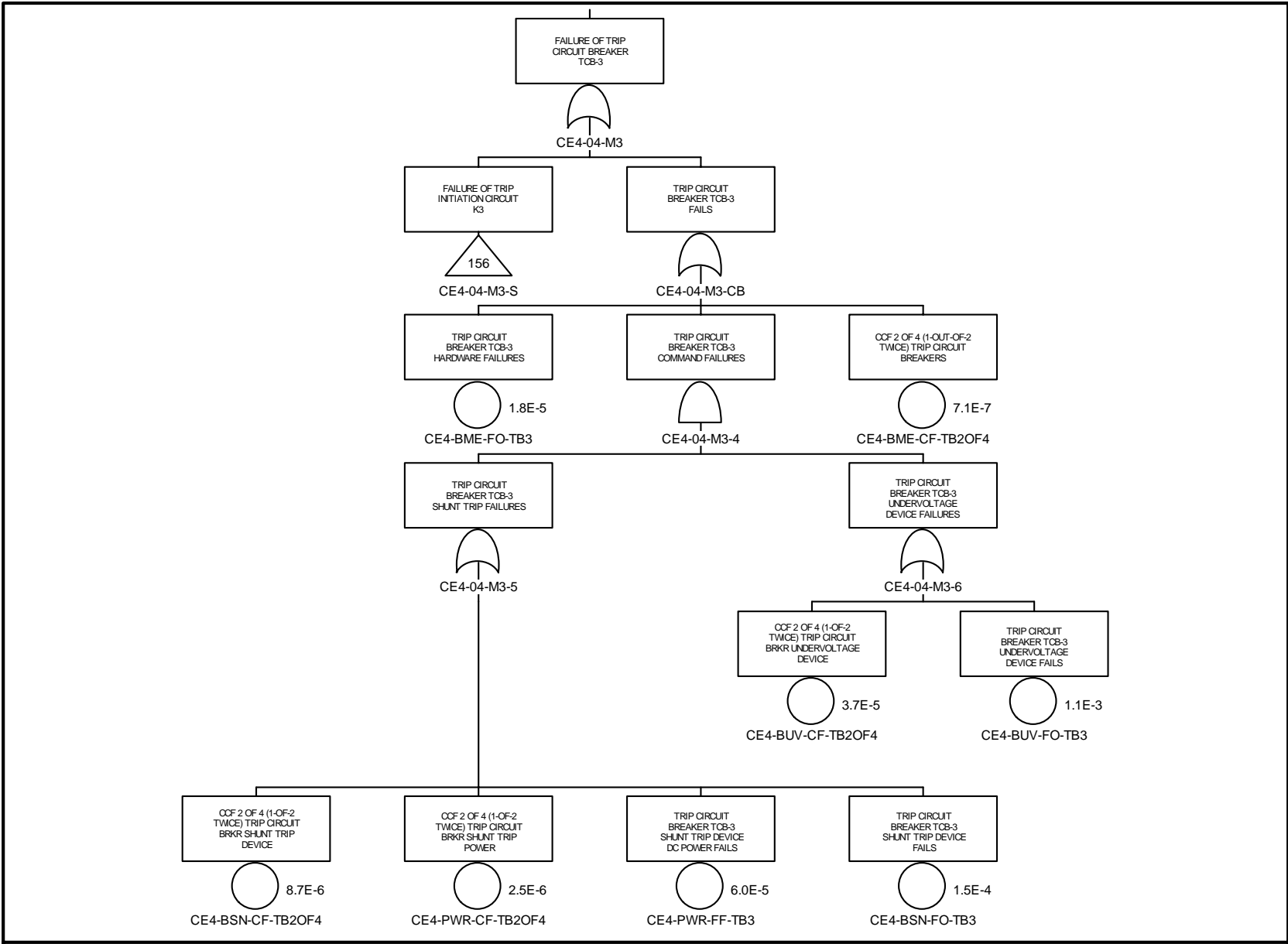




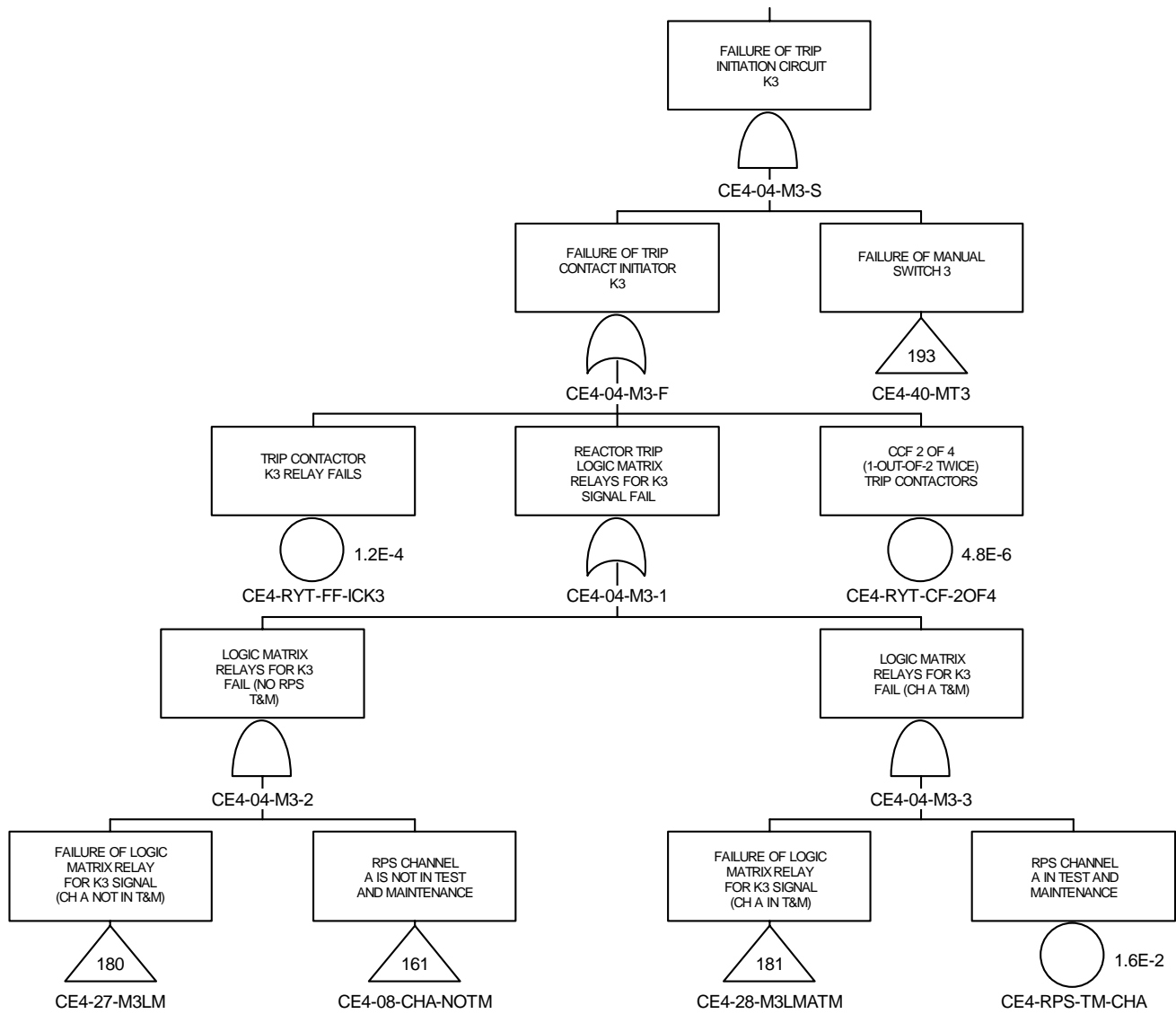


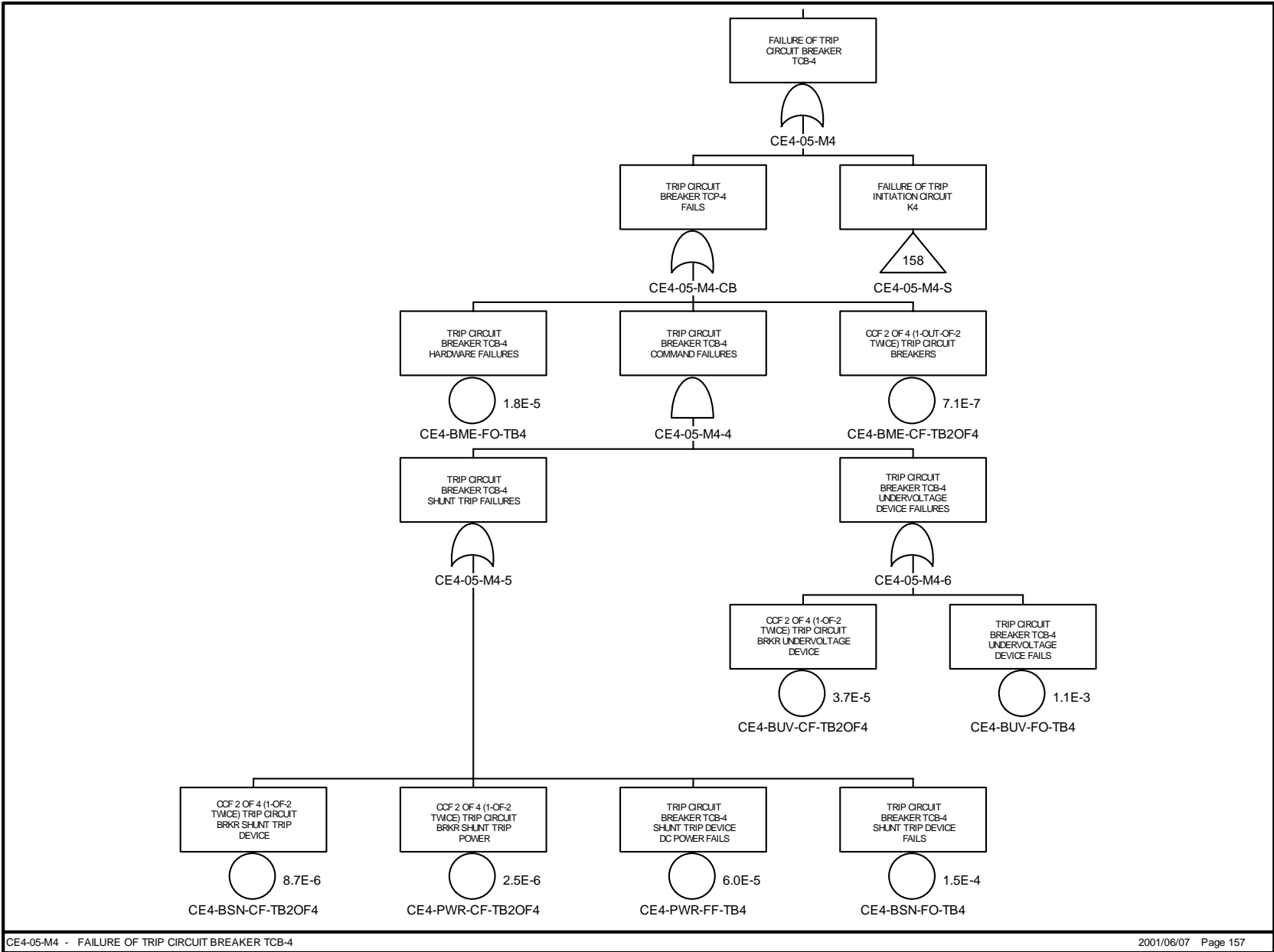




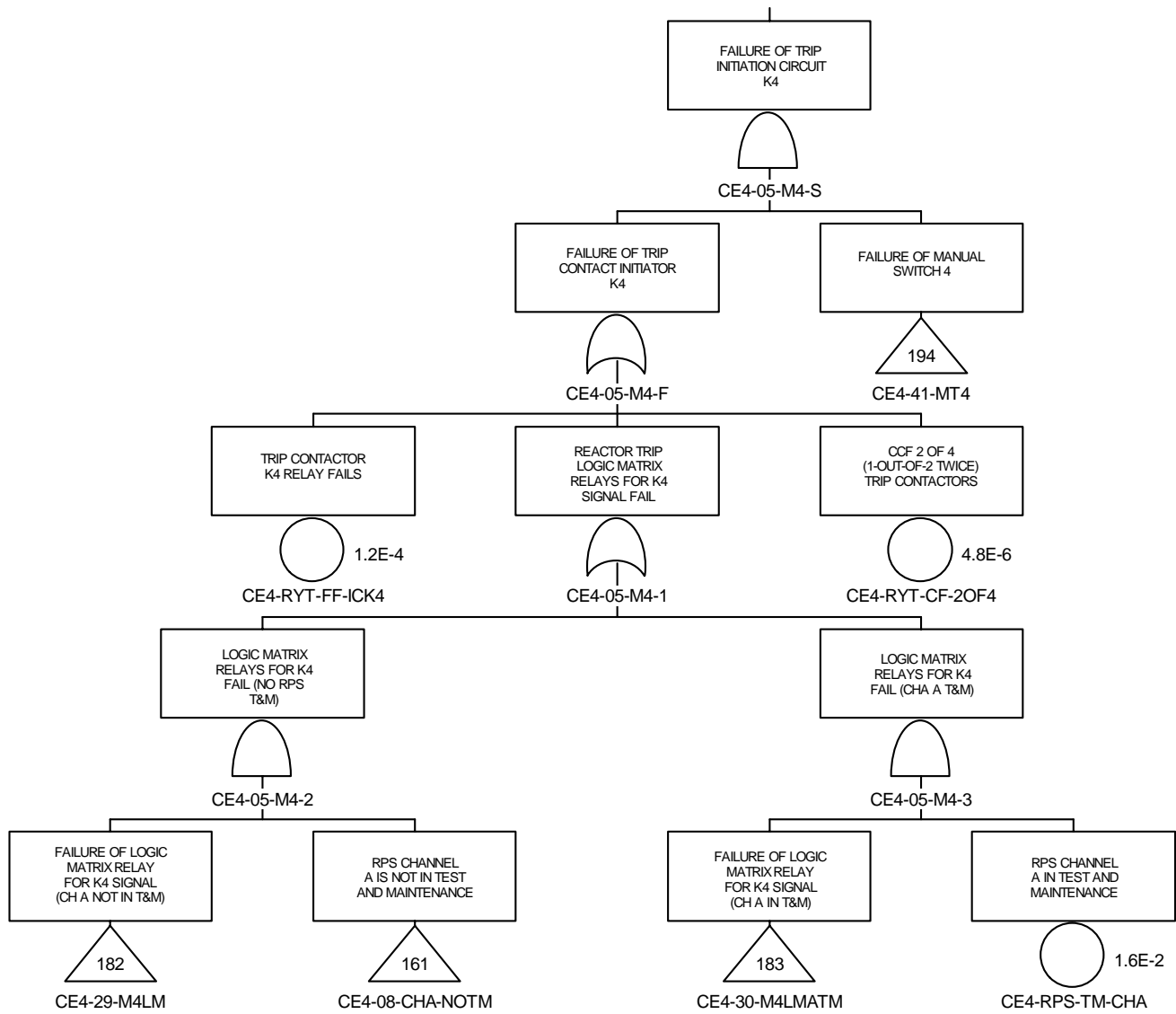


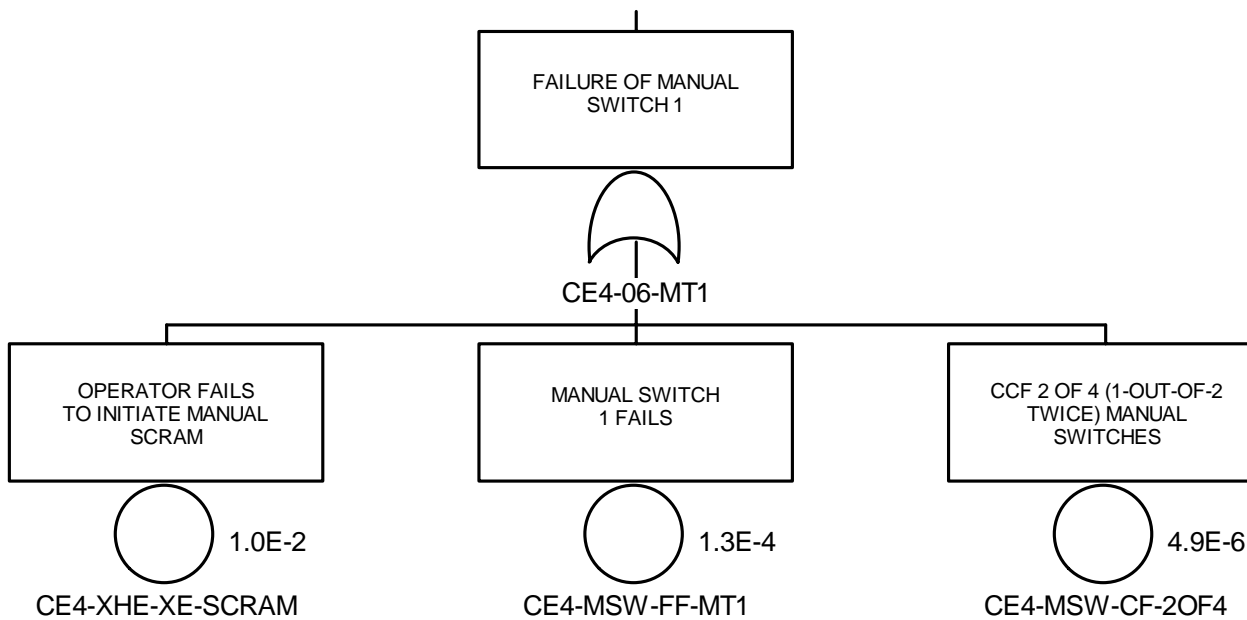
CE4-04-M3 - FAILURE OF TRIP CIRCUIT BREAKER TCB-3

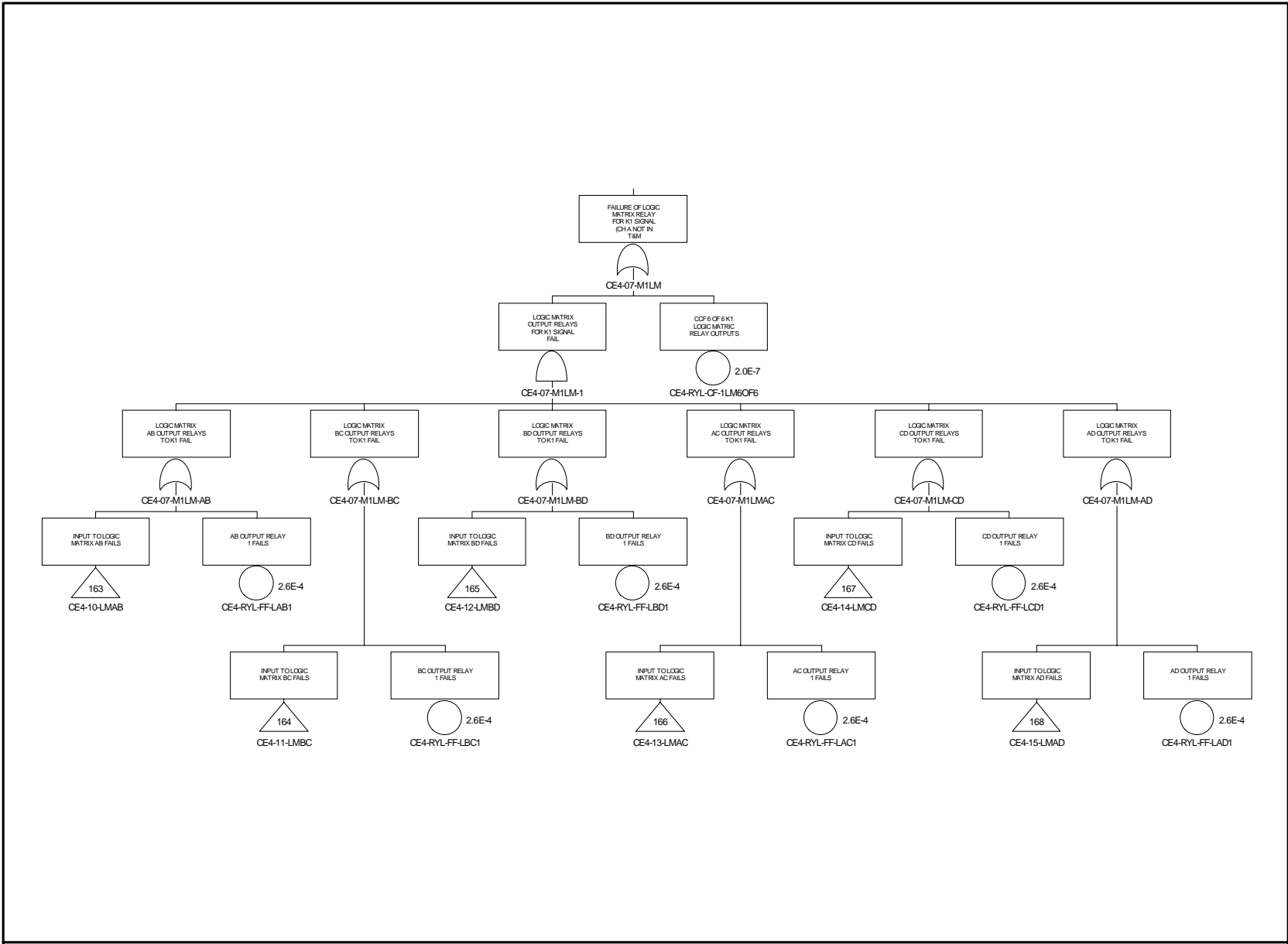




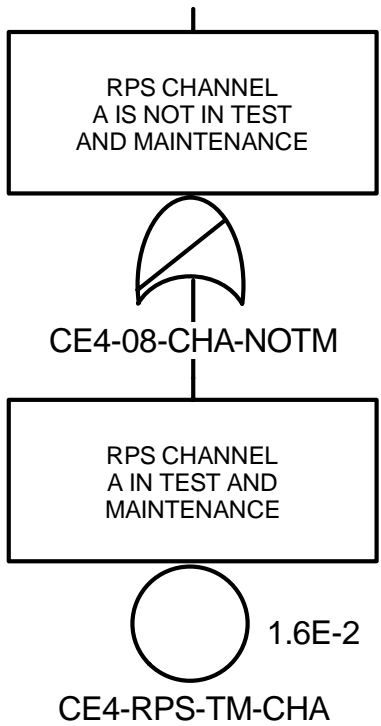
CE4-05-M4 - FAILURE OF TRIP CIRCUIT BREAKER TCB-4

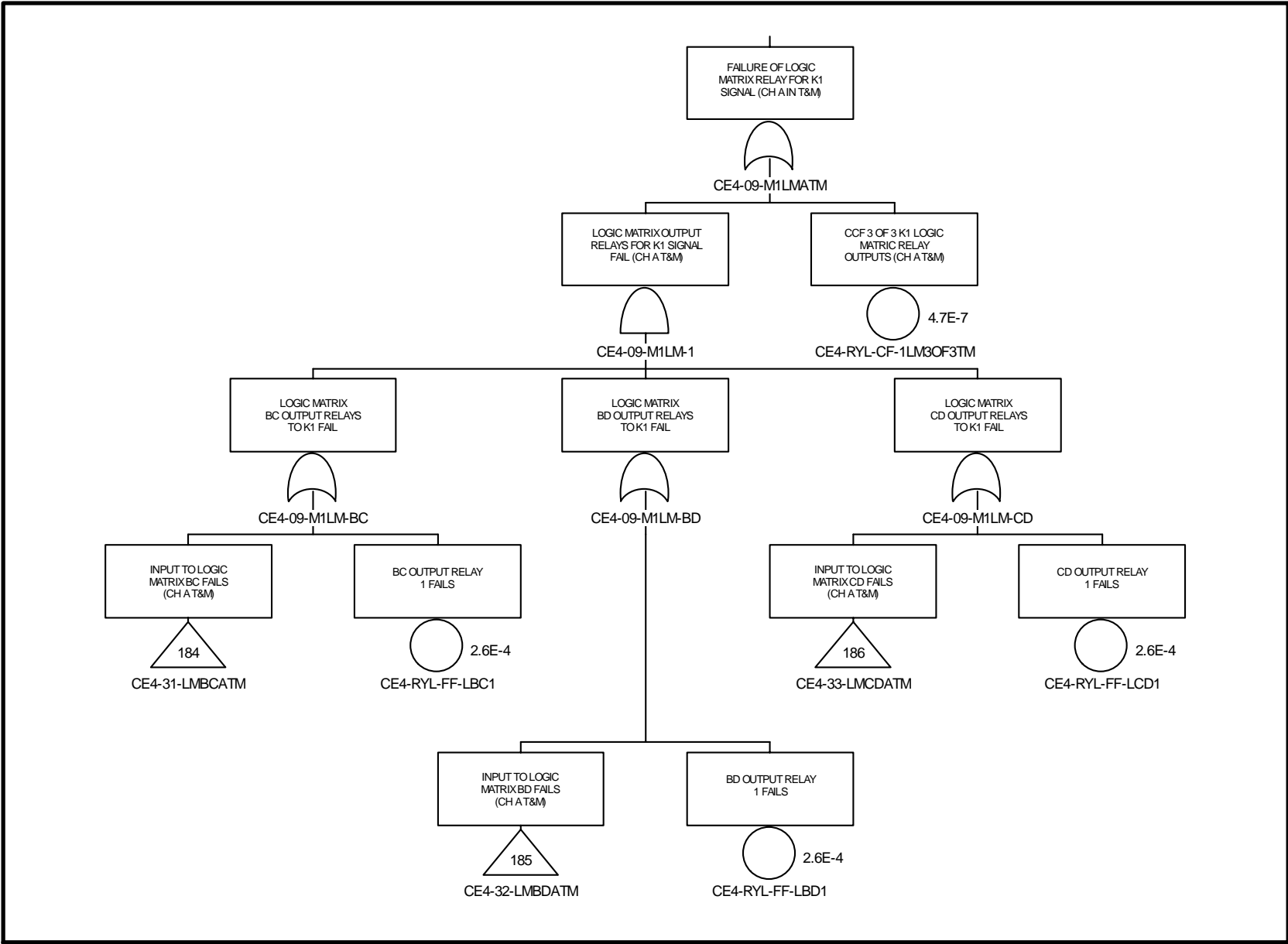


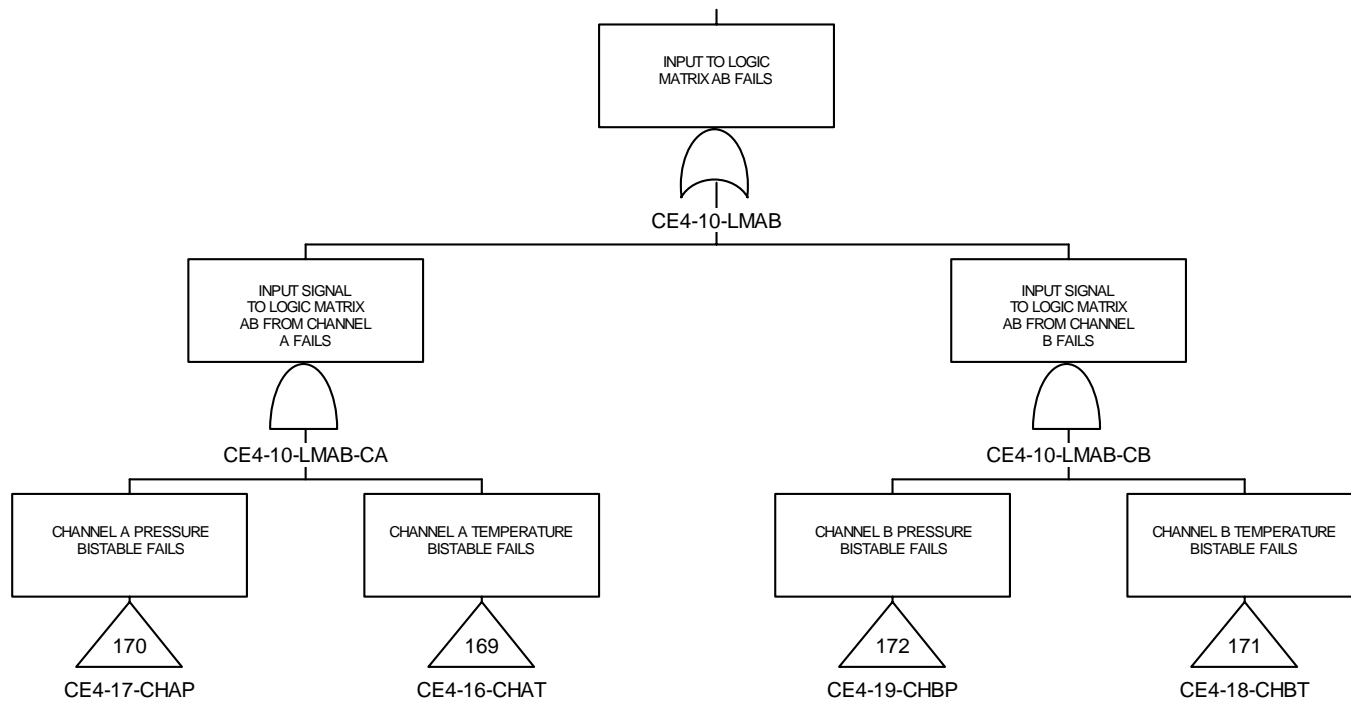


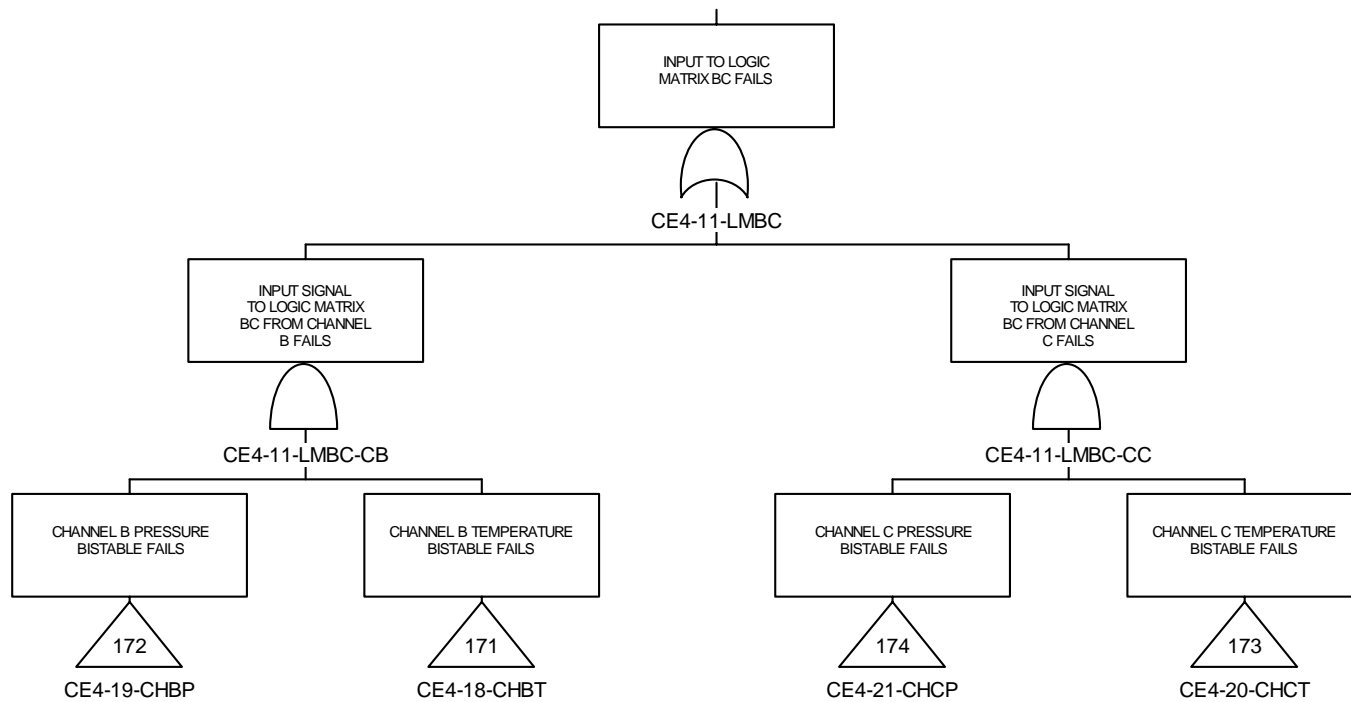


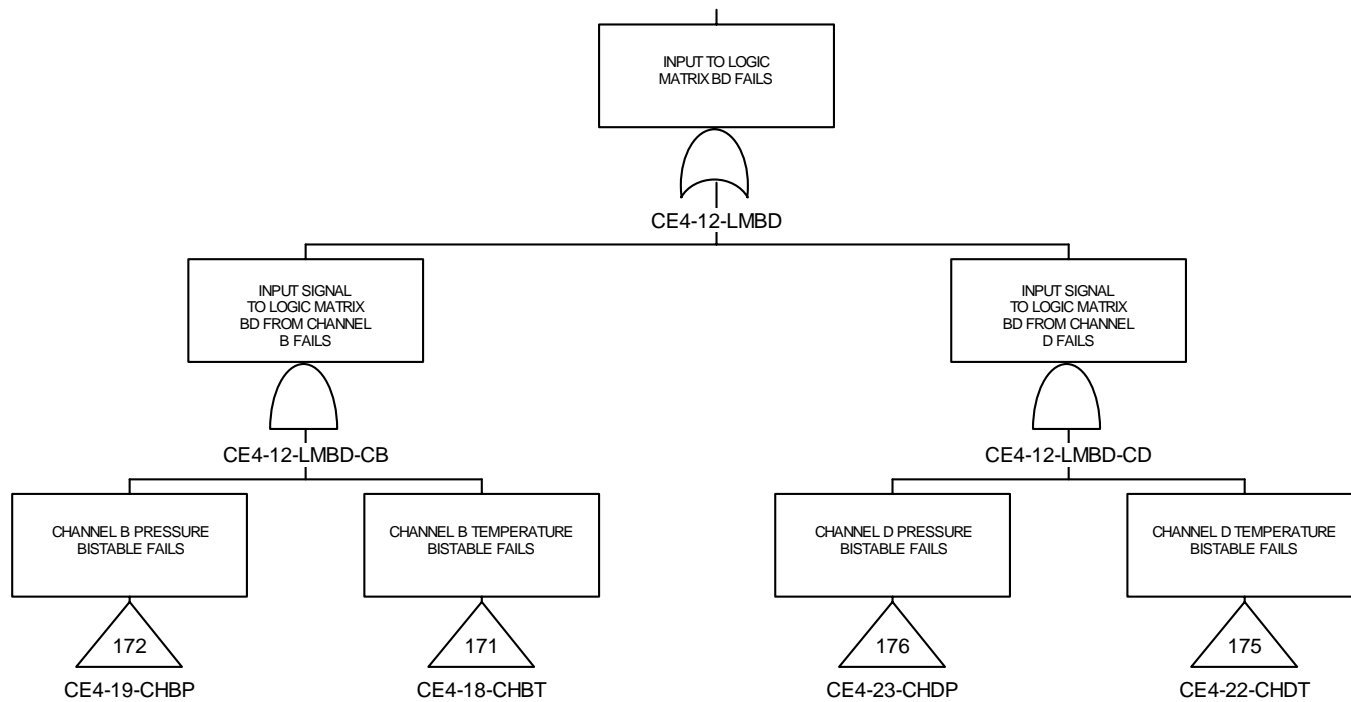
CE4-07-M1LM - FAILURE OF LOGIC MATRIX RELAY FOR K1 SIGNAL (CH A NOT INT&M)

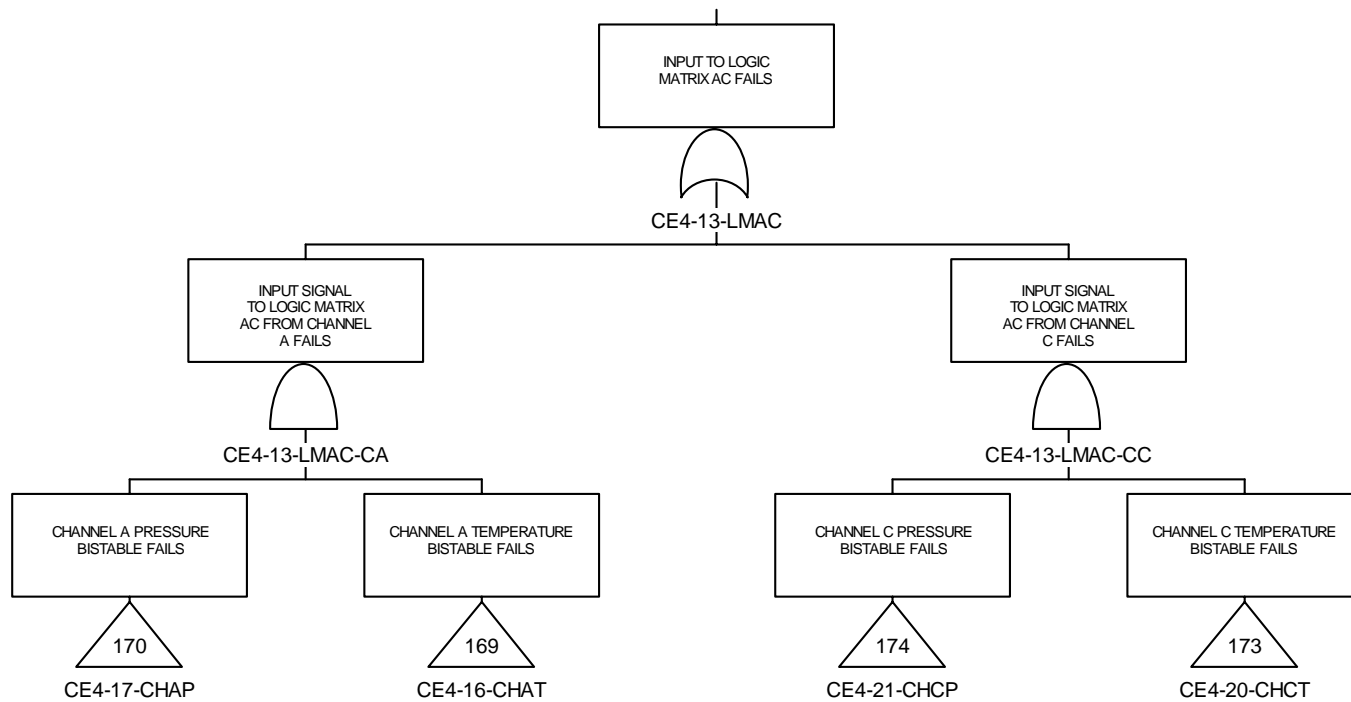


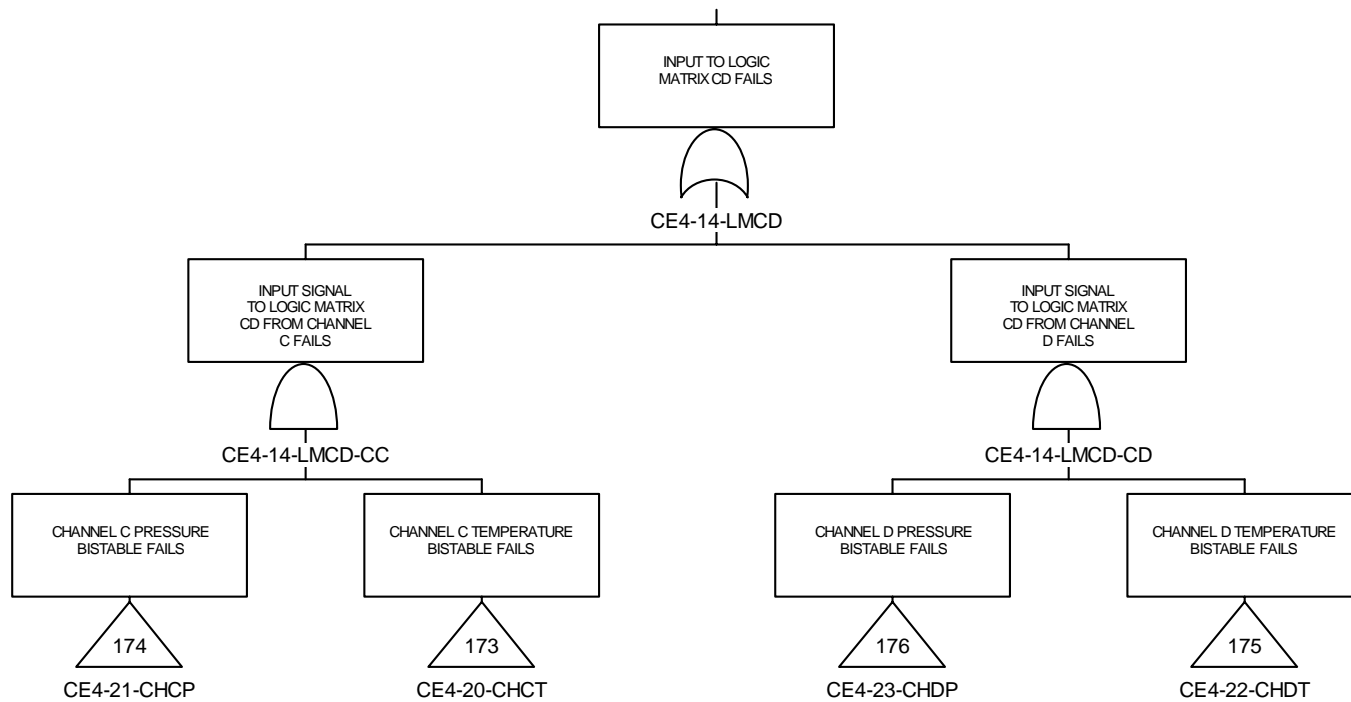


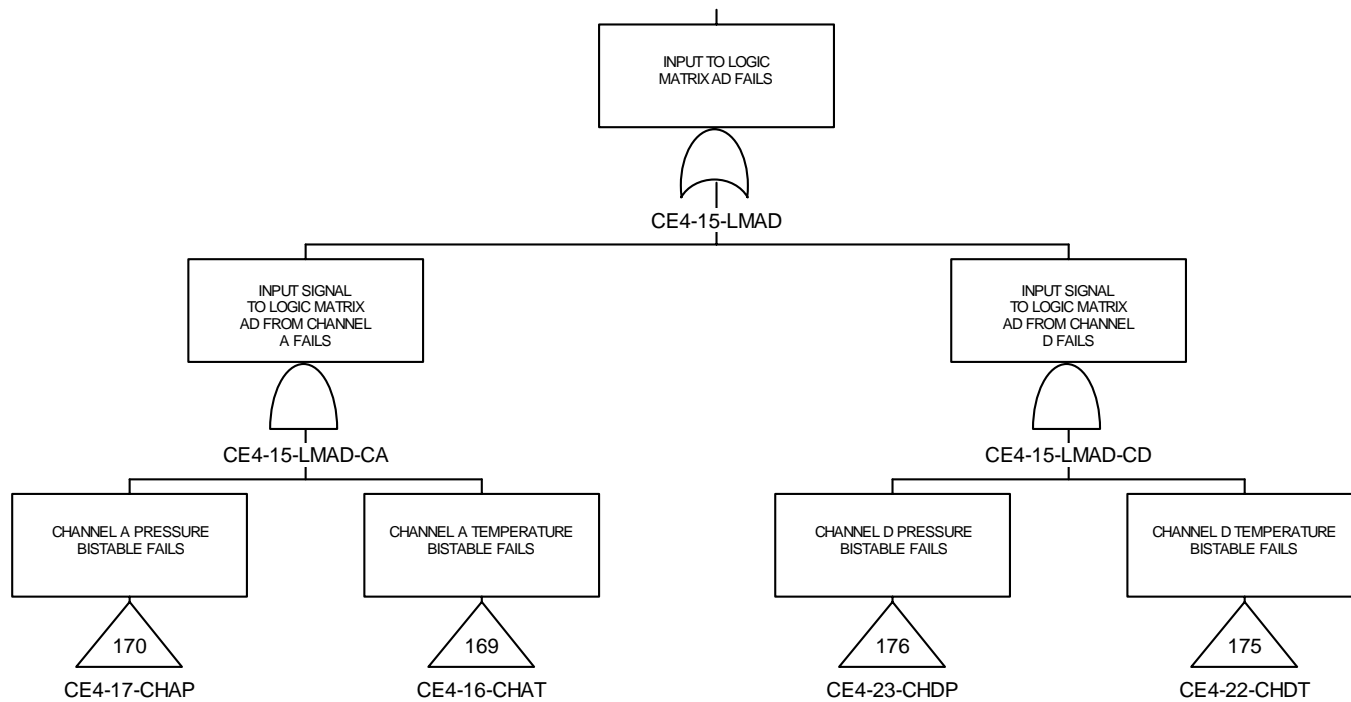


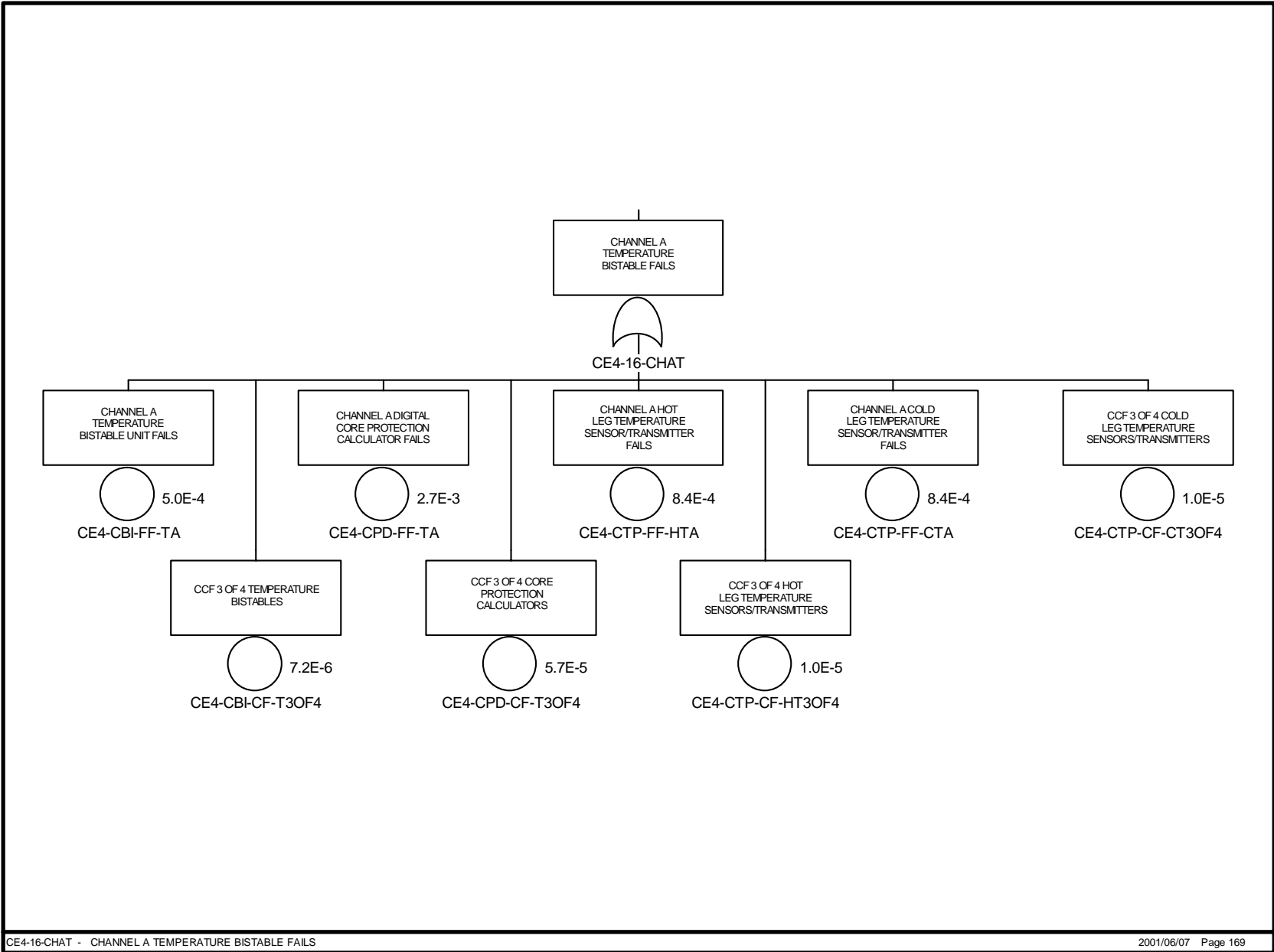


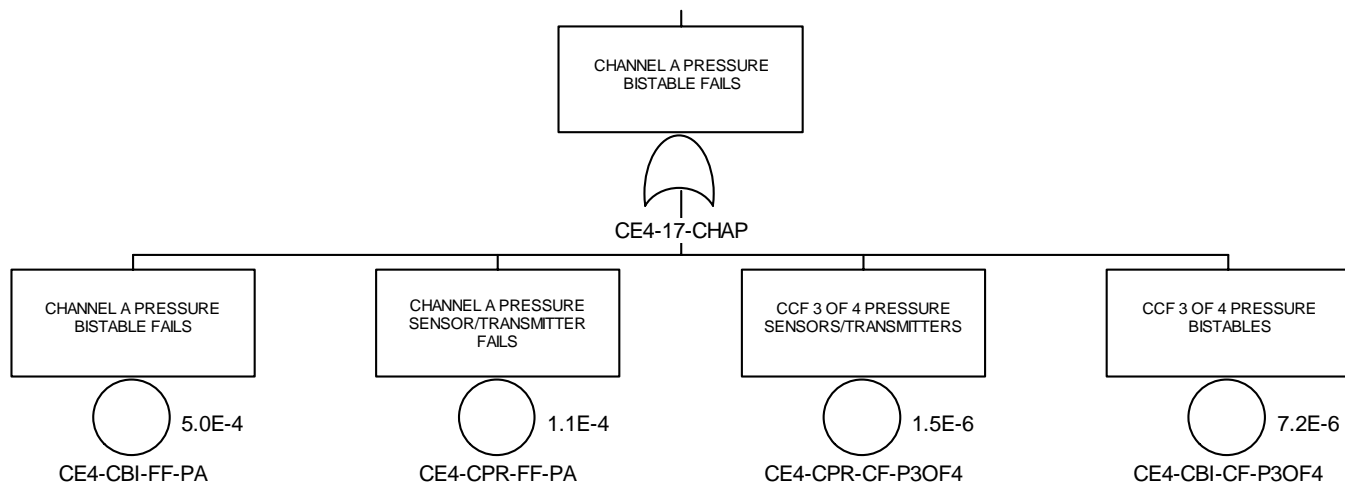


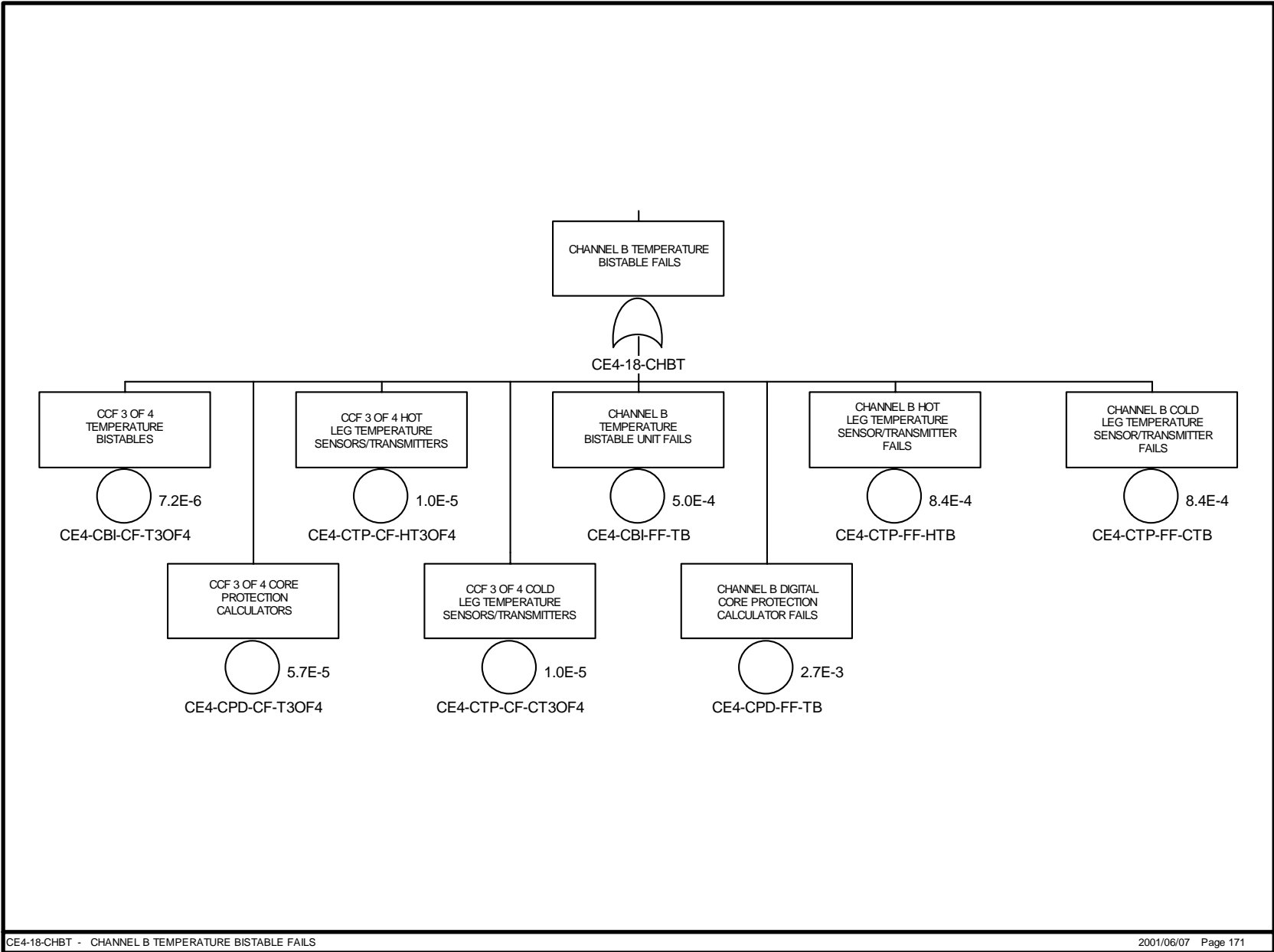


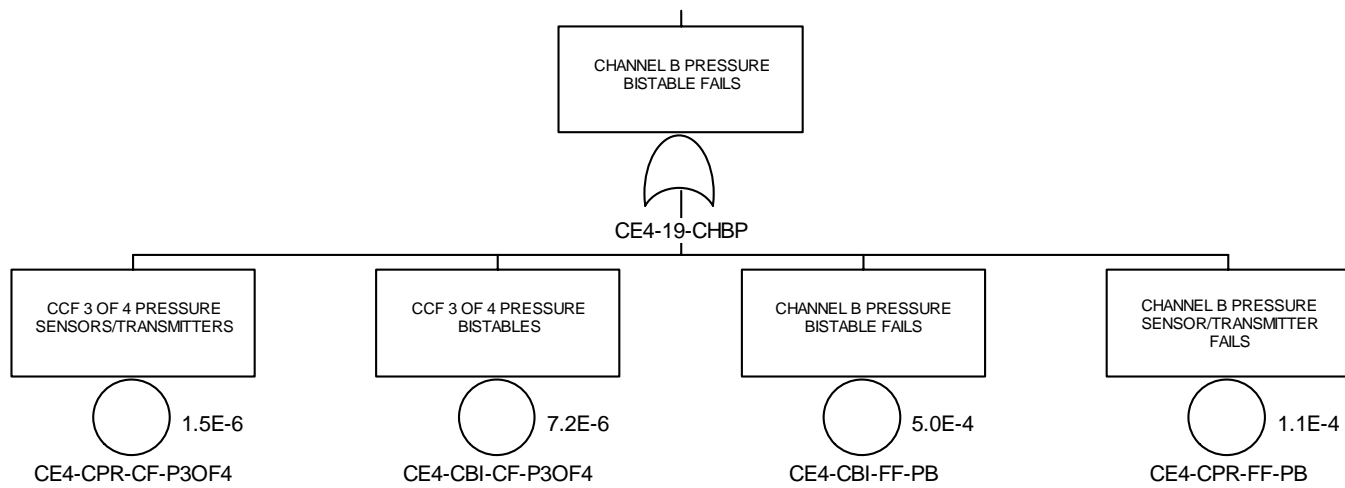


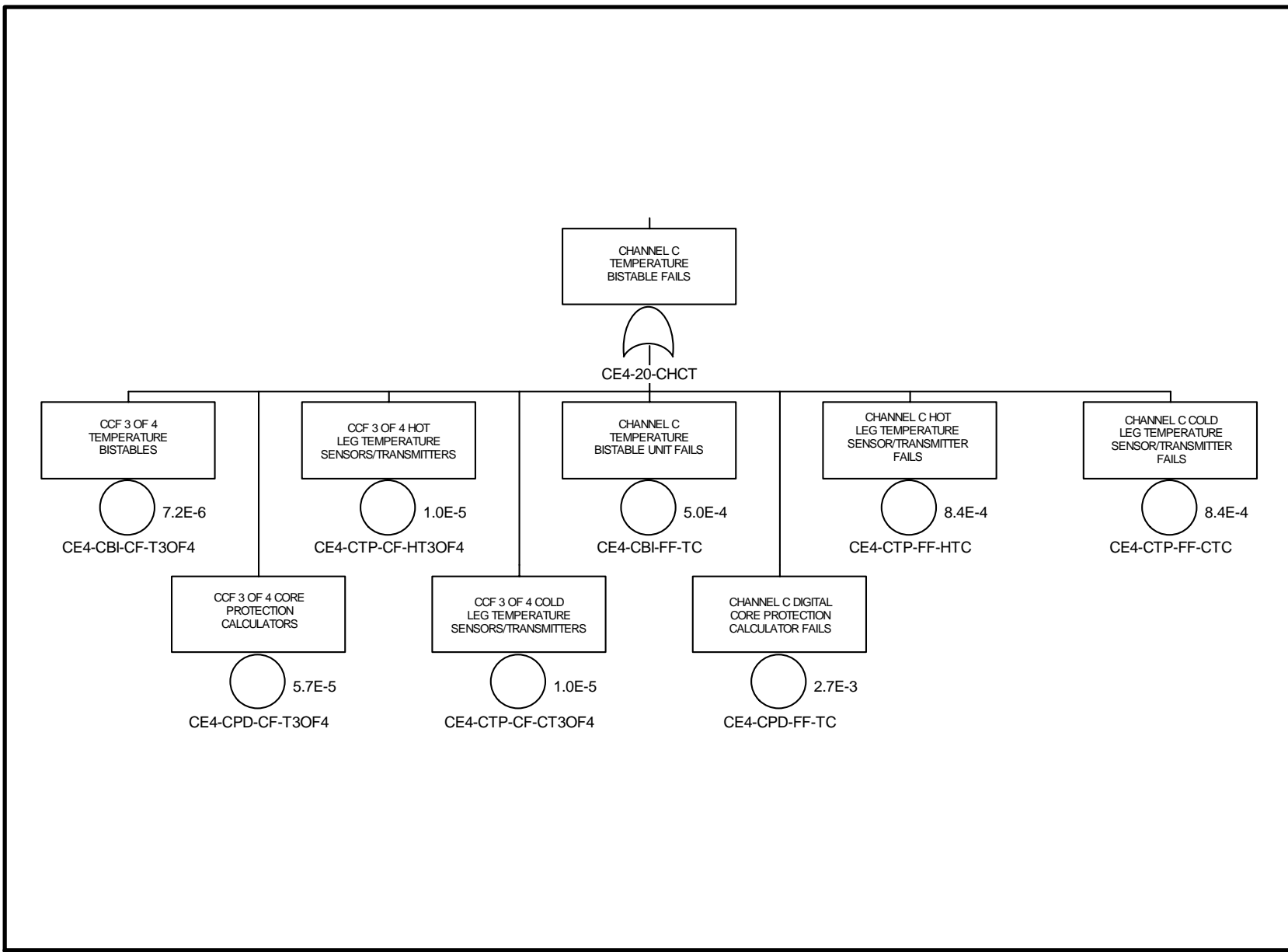


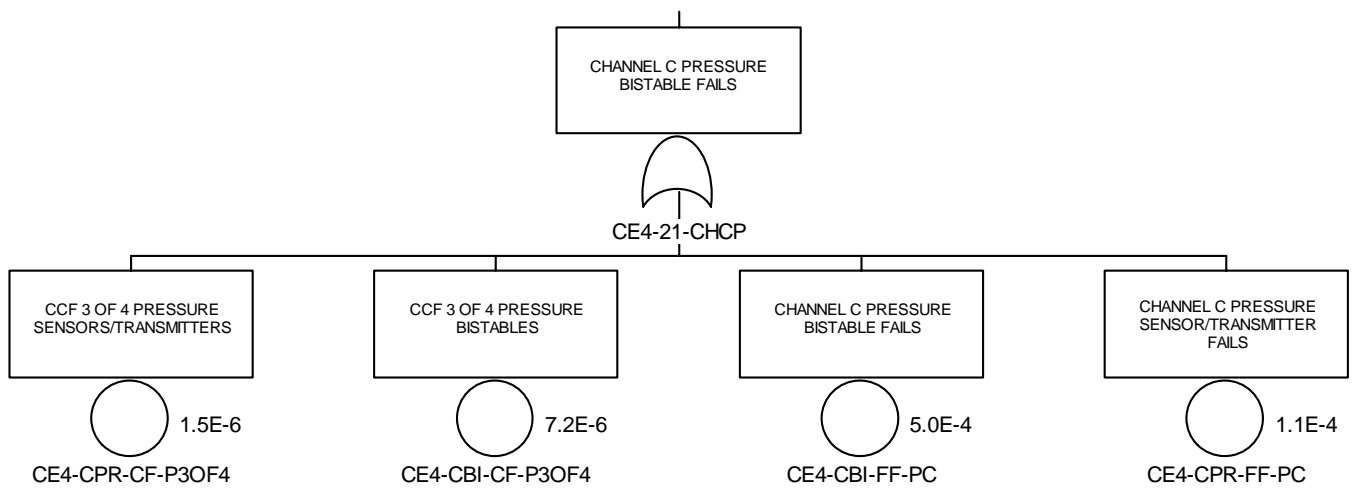


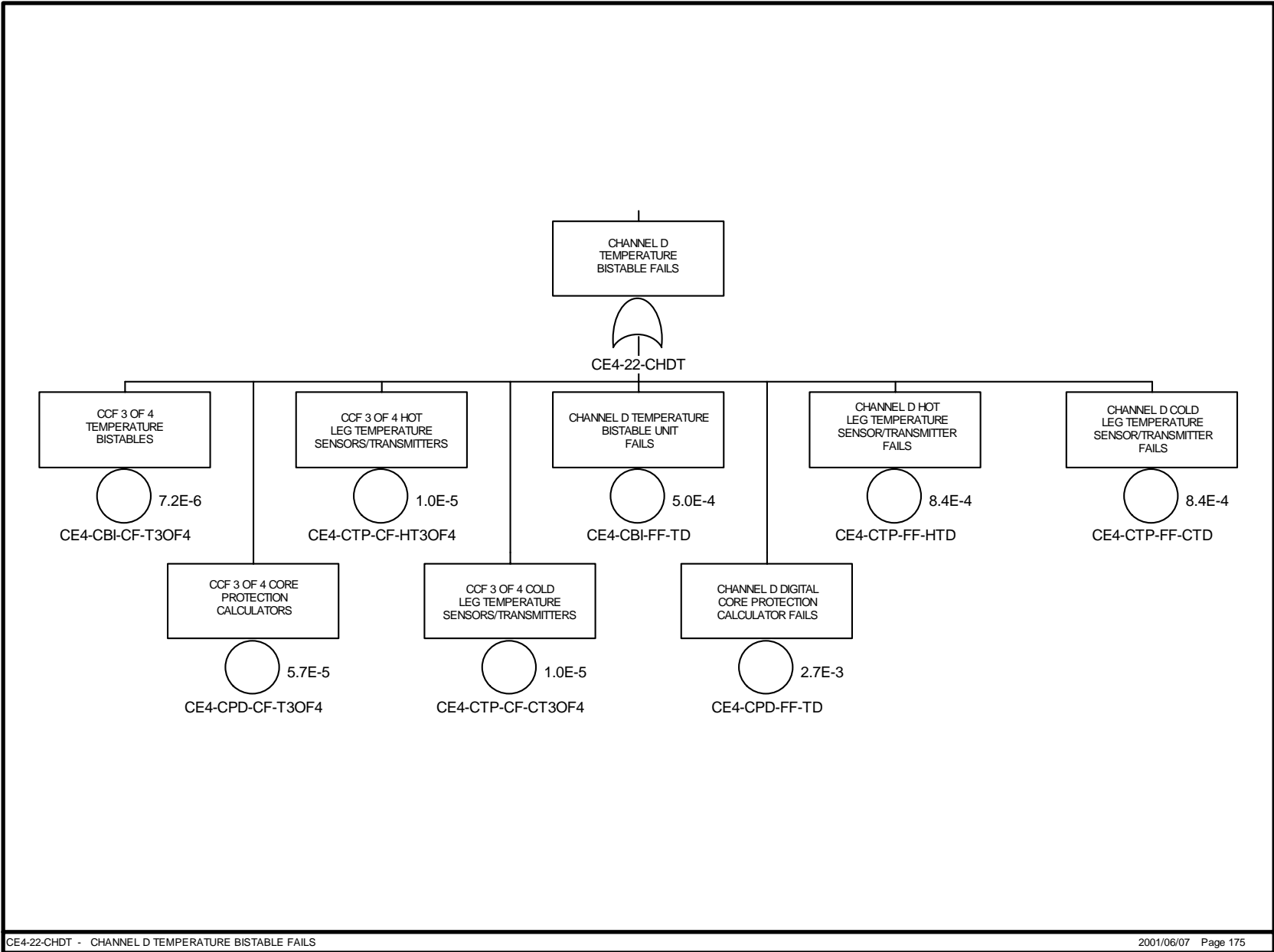


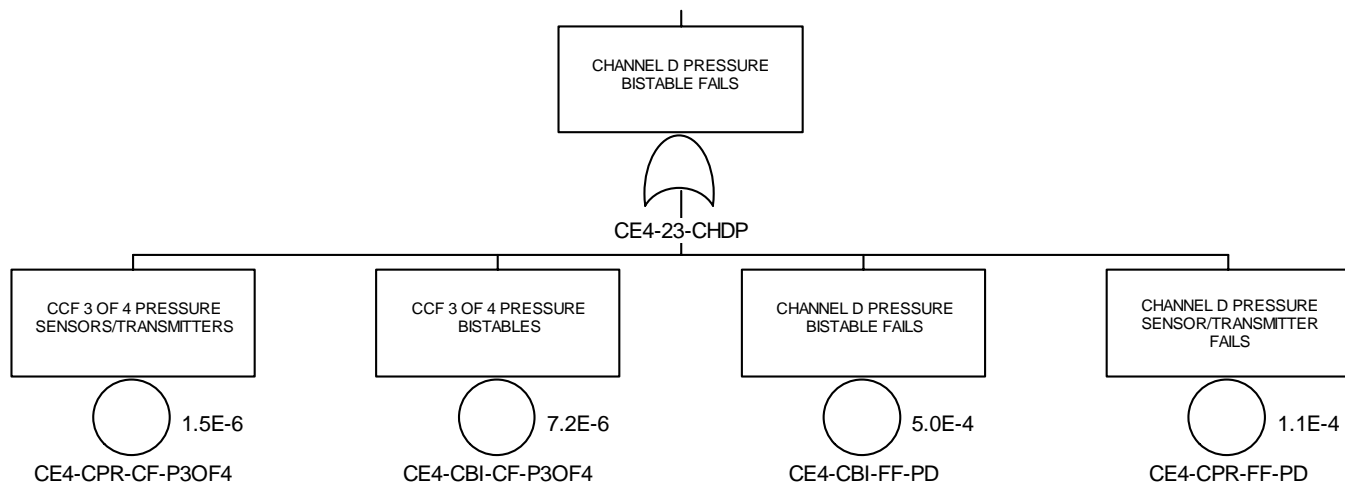


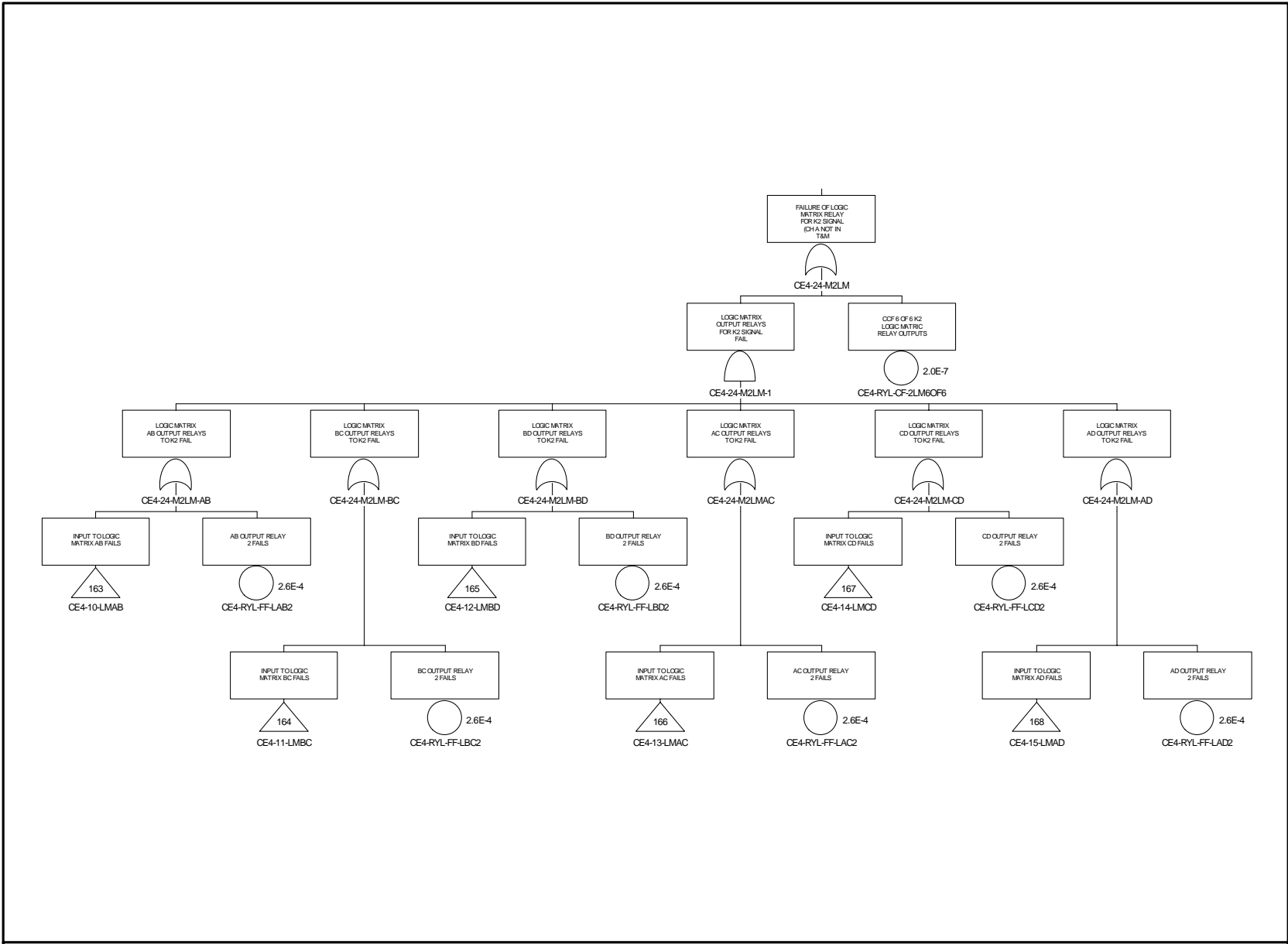




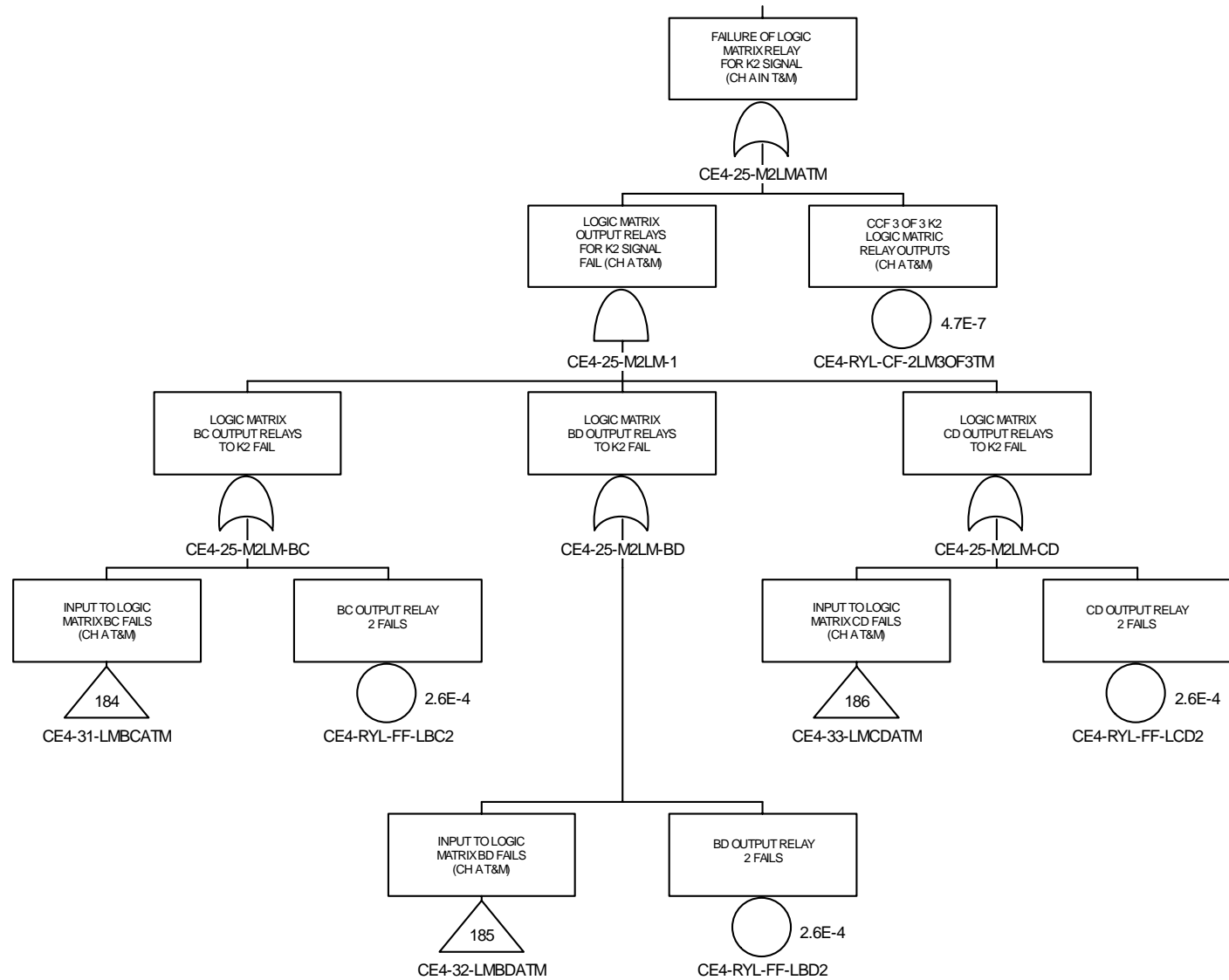


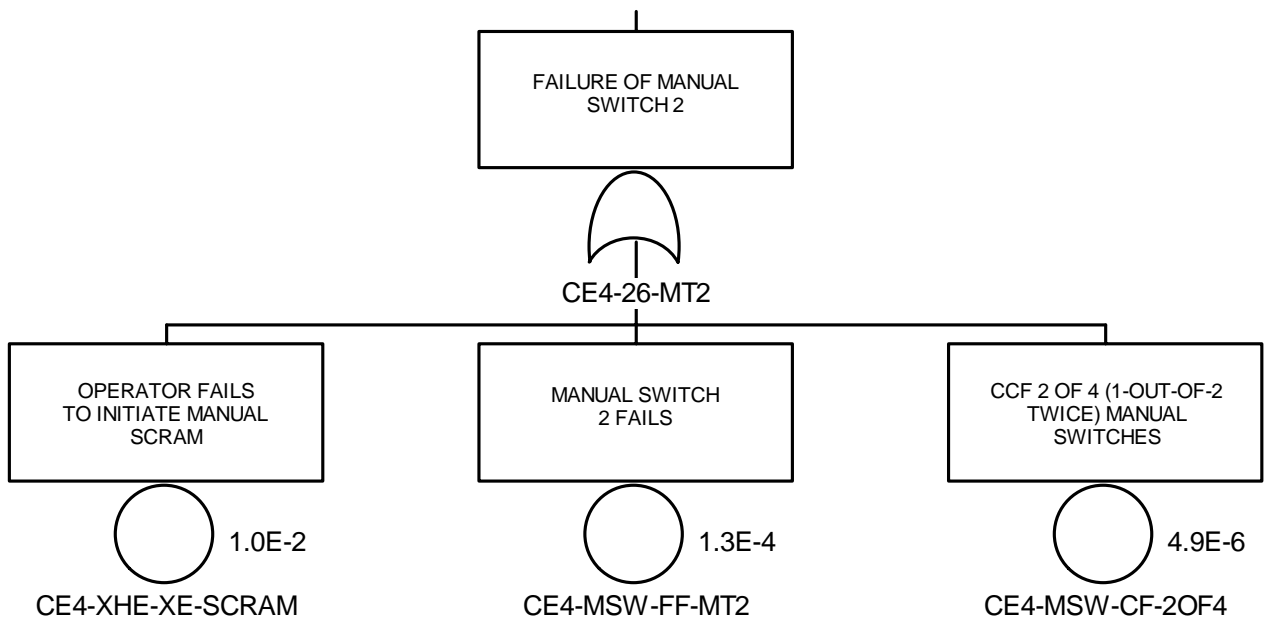


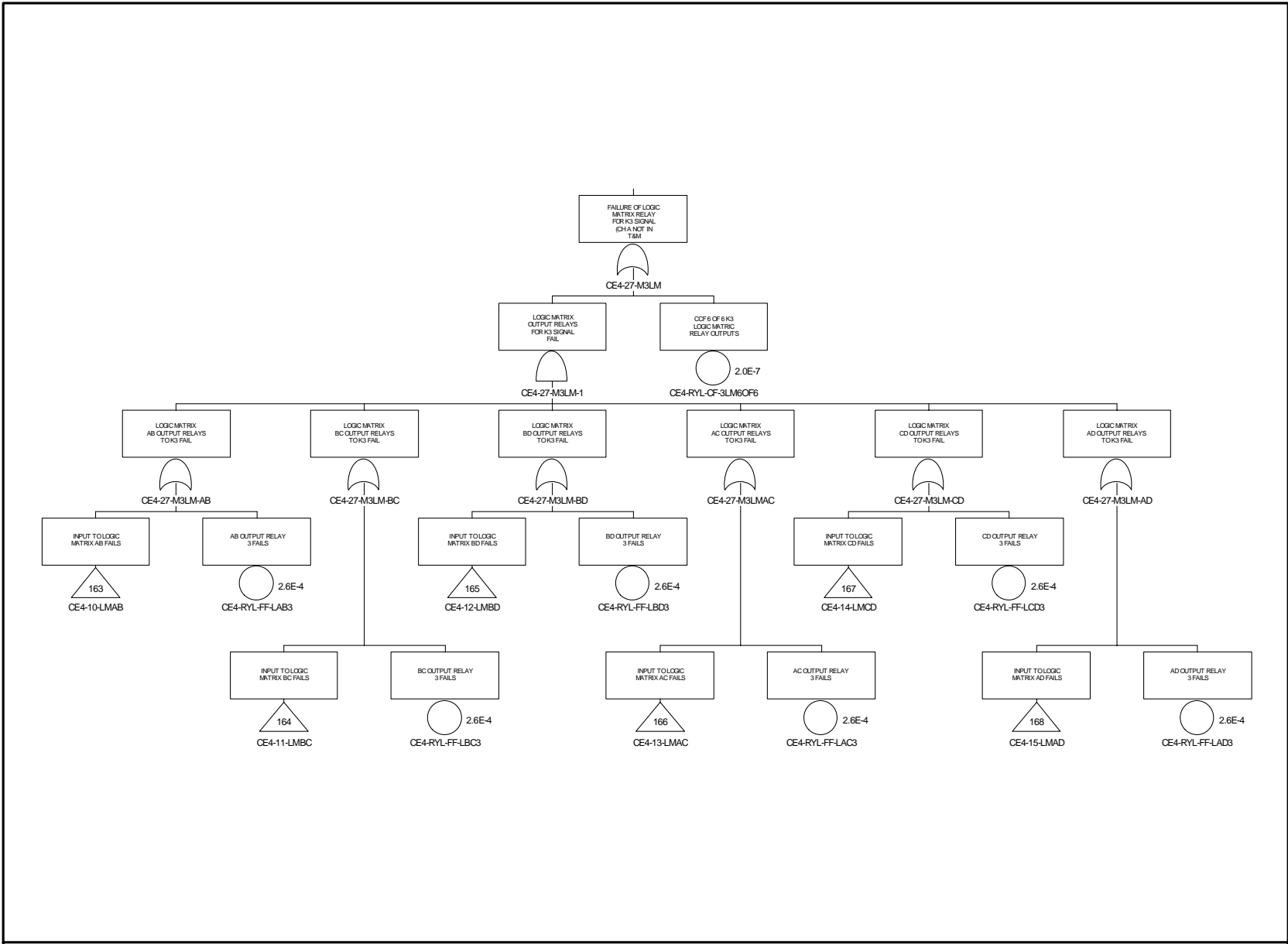




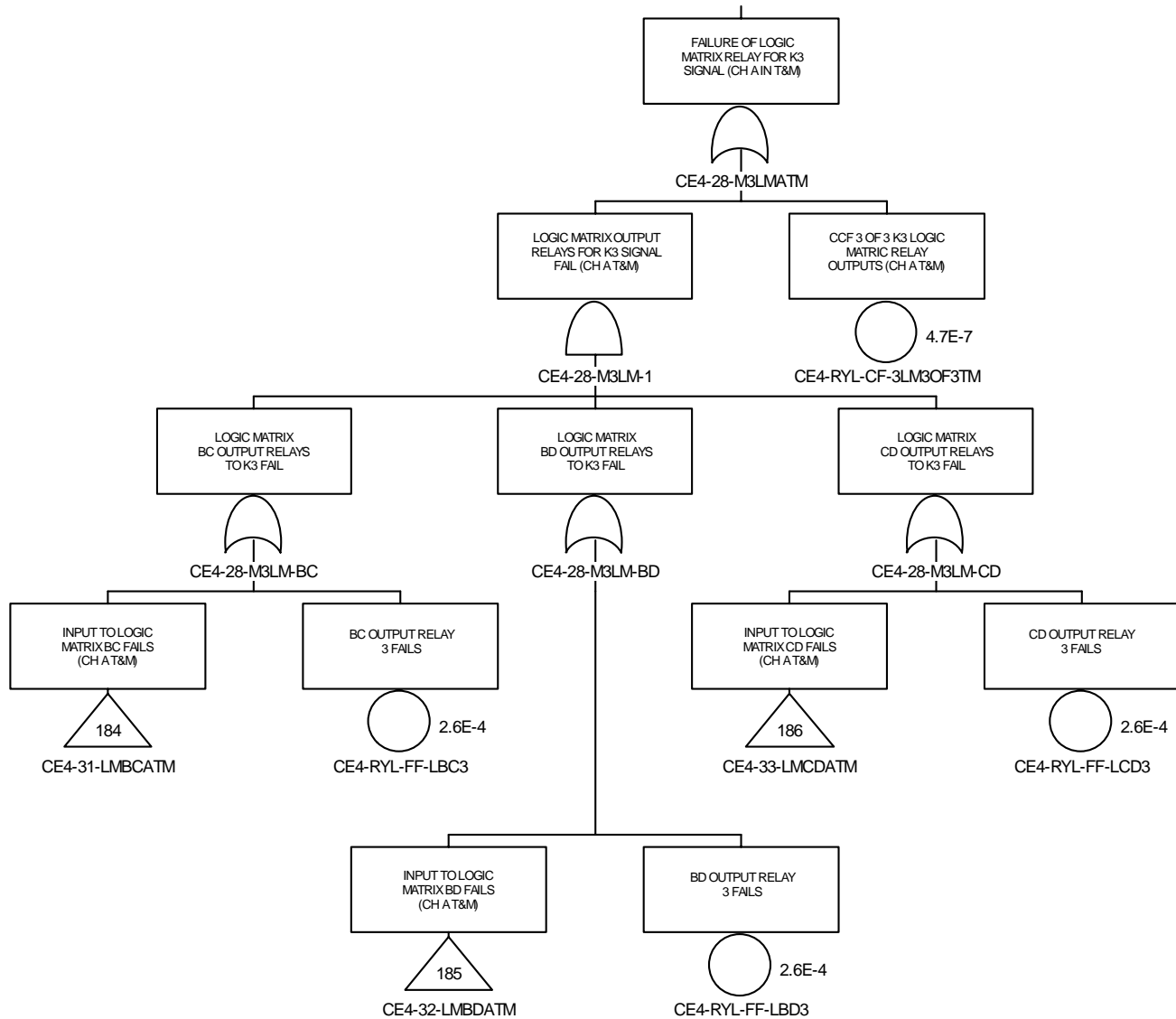
CE4-24-M2LM - FAILURE OF LOGIC MATRIX RELAY FOR K2 SIGNAL (CH A NOT IN T&M)

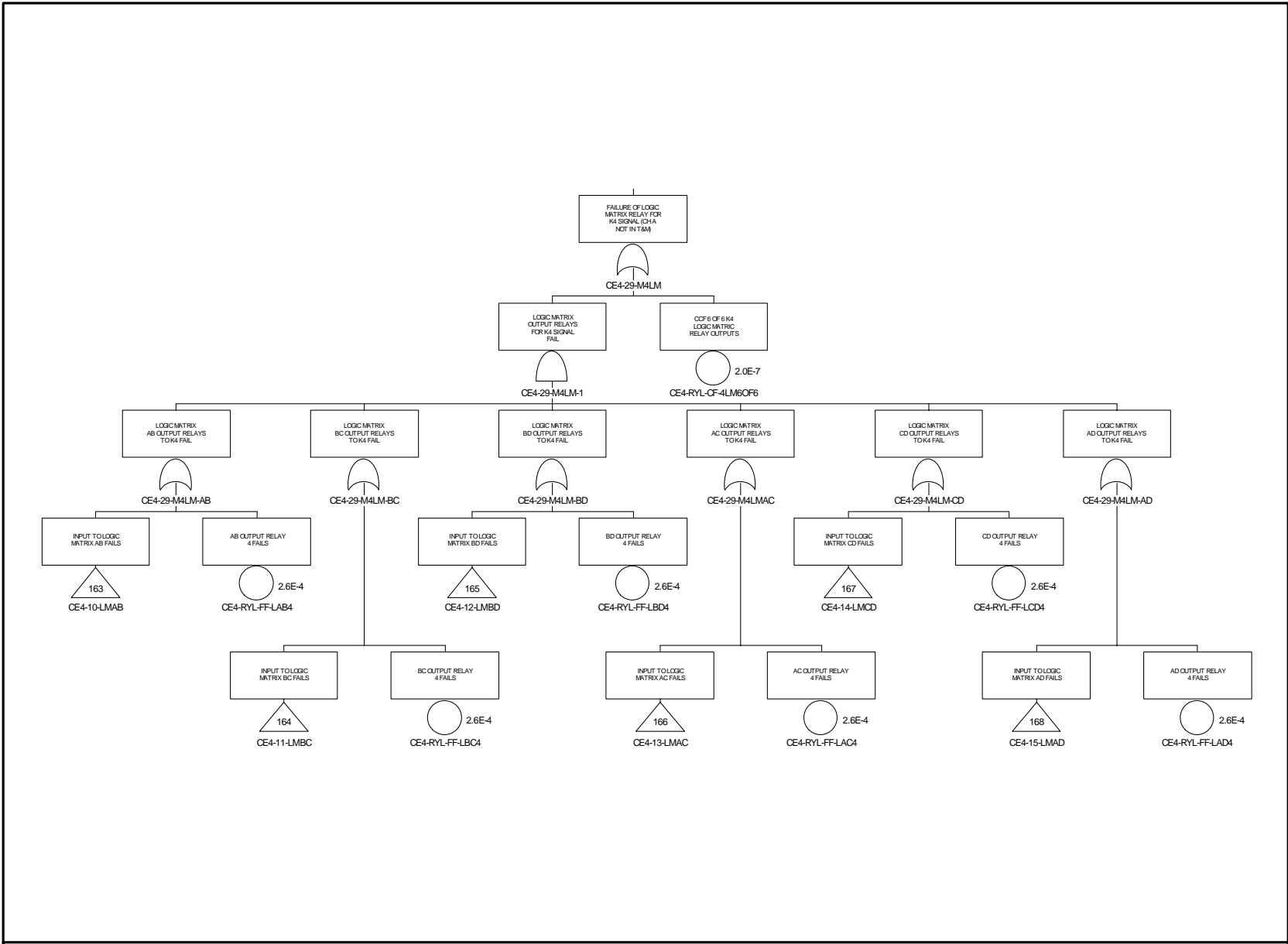






CE4-27-M3LM - FAILURE OF LOGIC MATRIX RELAY FOR K3 SIGNAL (CH A NOT IN T&M)





CE4-29-M4LM - FAILURE OF LOGIC MATRIX RELAY FOR K4 SIGNAL (CH A NOT IN T&M)

