

Exercise 3. STUDY OF ALTERNATIVES AND THEIR RISKS

Or Design with safety

One of the main aspects to consider for the design of these alternatives, is the security. All the things, products, objects, machines, devices... with material body represent some potential danger for the people. One is to put in evidence in the particular case, which can be those dangers and which is the specific legislation of application. The exercise has to cover the following points:

Analysis of security:

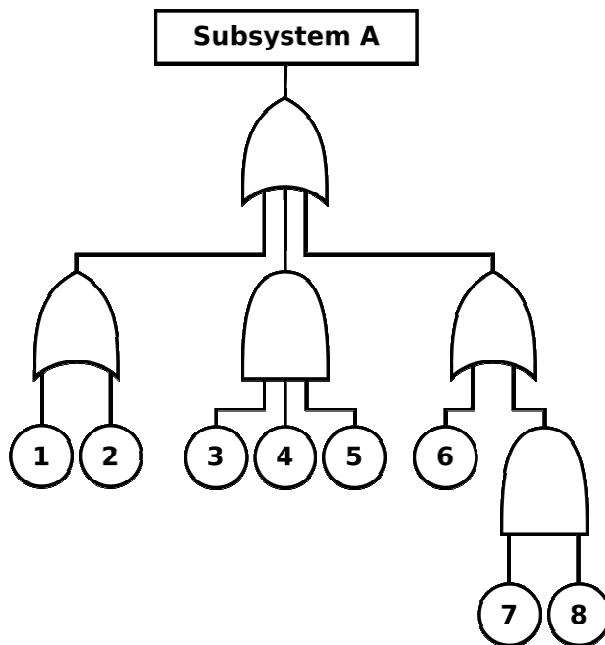
1. The state of the machines means some kind of danger:

- Starting
- On operation mode
- Stopping

2. The aggressions of the machines to the users (any kind of tem)

- As far as obstacles.
- Using with any kind of error:
 - Of ignorance
 - Of estimation
 - Of mistake in the actions
- By losses of own stability or wrong internal operation:
- Results of badly operation
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3. Main derived consequences of the errors - **Tree of risks - Tree of consequences**
The **TOP EVENT** related with the Subsystem A must cause potentially injured



4. The dangers of products, things, objects..., that come from the devices that produce them
 - By a lack of homogeneity in the "production"
 - By wrong operation of the system

5. Effective legislation:
 - In the composition
 - In the use or application
 - In the handling
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