



# Reliability Improvements and Disaster Readiness Plan

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# Definitions

- **Reliability** is the ability of a system to perform and maintain its functions in routine circumstances, as well as hostile or unexpected circumstances
- A **disaster** is a natural or manmade (or technological) hazard resulting in an event of substantial extent causing significant physical damage or destruction, loss of life, or drastic change to the environment.

# Non-adaptive Behavior





# Adaptive Behavior



# Adaptive Protection and Control

- Adapting to changes in system topology
- Adapting to changes in load and generation
- Adapting to failures in components of the fault clearing system
- Detecting natural and human based disasters and adapting to them

# Situational awareness

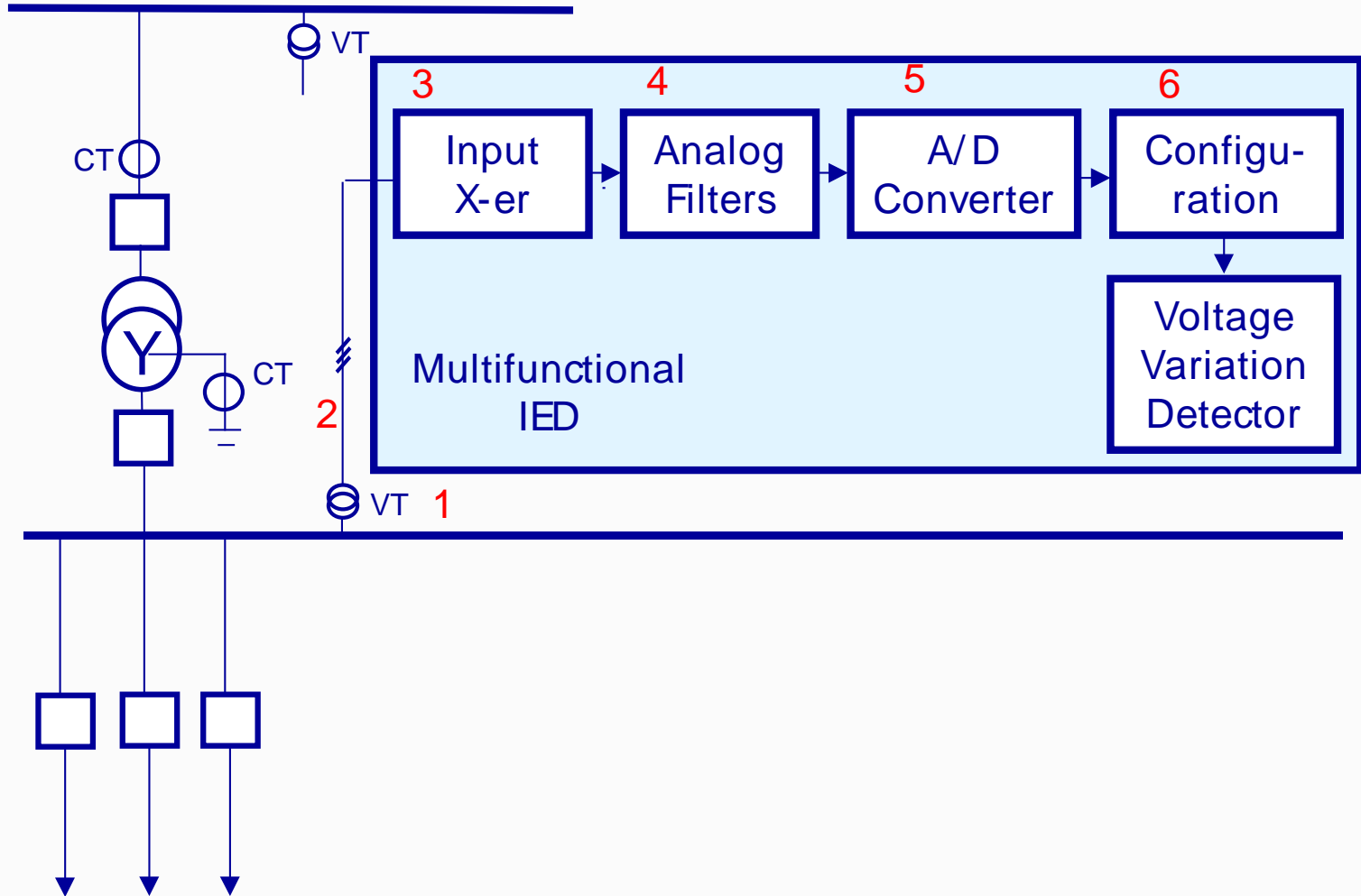


SITUATIONAL AWARENESS

This tank didn't have it

PROT.COM

# Potential failures in FCS



# Quality Assurance Process

