**Question 2.1**

Describe a situation or problem from your job, everyday life, current events, etc., for which a classification model would be appropriate. List some (up to 5) predictors that you might use.

As a Nuclear Engineer, you must consider transient events when designing a nuclear reactor. Transient events occur when a nuclear power plant shifts from operating in a normal state to an abnormal state.

Classification – Categorizing data into different classes

Thermal hydraulics