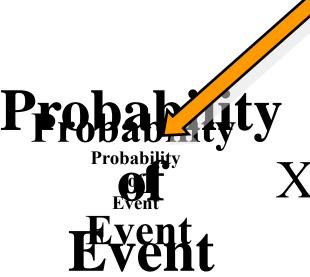
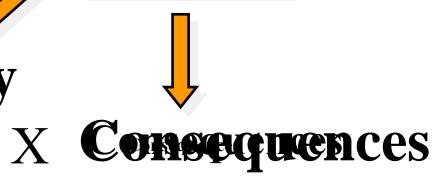
Nuclear 101

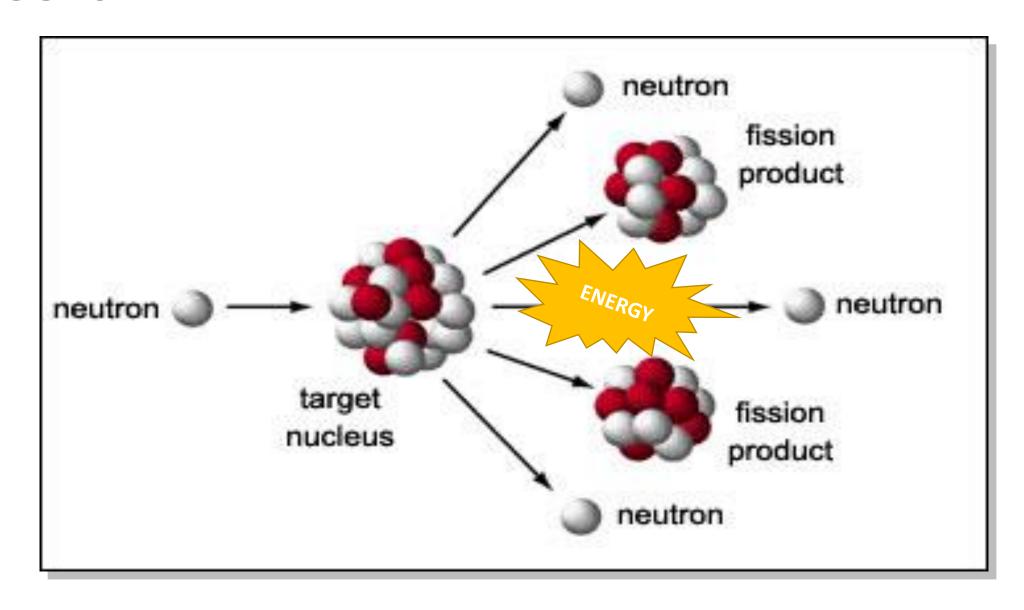
RISKS



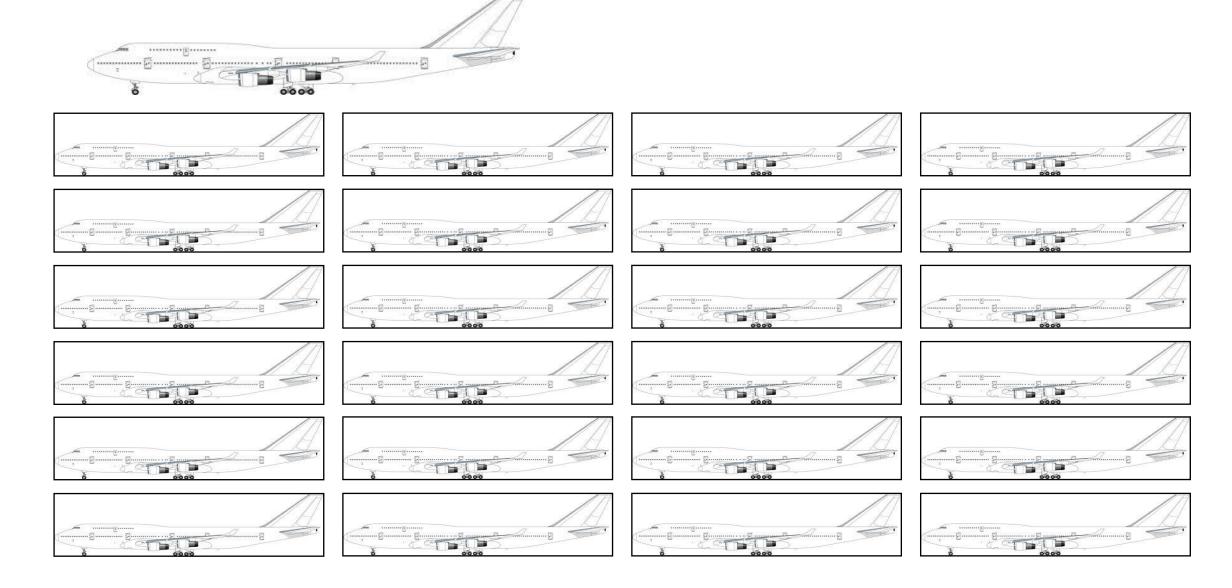
Design
Procedures
Training
Safety Culture
Behaviours



Fission



How Much Energy?



Nuclear Safety –The 3 Cs

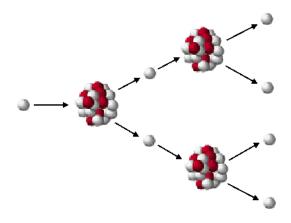
Control

Cool

Contain

Control

Maintain Control of the Chain Reaction



Shut Down the Reactor





Cool

Cool the Fuel at all times



Even after Shut Down

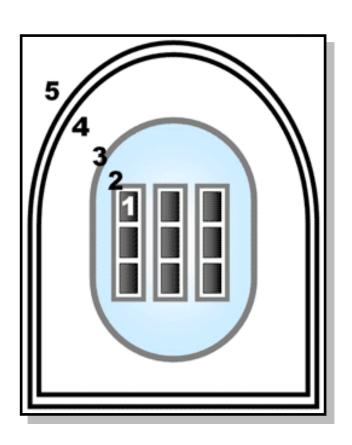
Shut Down Cooling

Emergency Core Cooling

Contain

Contain any reactivity that may be released

- 1. Fuel Pellet
- 2. Fuel Bundle
- 3. Heat Transport System
- 4. Containment Structure
- 5. Exclusion Zone



Probability RISK = of x Consequences Event

Questions?