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## Software Engineering and Design - Paper 11 Question 11 (AFB) 2005

Imagine that you are the software designer responsible for a system that manages the shutdown of a nuclear power station. In normal shutdown mode fuel rods are withdrawn immediately, but steam generation is only stopped after turbine speed has dropped to one quarter. However in emergency shutdown mode steam generation must be stopped immediately.

- (a) Sketch initial UML diagrams showing important aspects of your design, including a use case diagram, a class diagram, a sequence diagram and a statechart diagram.

  | Process 30-35 | 4 | each |
- (b) What quality standards should be applied in managing these and subsequent design documents? Press 107-112 of 15075 [4 marks]
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