

Maintenance Management Plan

- Development of the EU DEMO maintenance strategies is being undertaken to understand:
 - The plant design driving maintenance requirements
 - Suitable maintenance-oriented strategies that are required to achieve the plant availability
 - Technologies that are required that have a low readiness level
- A maintenance management plan is being written to control the design development by:
 - Defining standard maintenance systems, tools and interfaces to be used across the plant
 - Defining the classification of maintenance operations and associated design rigour
 - Preventing unnecessary complexity developing in the maintenance burden
 - Considering the safety principles for human risk mitigation (industrial as well as nuclear risks)
 - Technical risks and the development work and associated cost to mitigate them
- The maintenance management plan must be defined early to achieve a feasible DEMO:
 - The maintenance-oriented strategies are a device defining driver
 - It would be very costly to develop the facility design without having thoroughly considered the plant maintenance activities that drive the plant layout and those related to plant safety
- As the design develops the MMP will be developed to define:
 - Arrangements for the regular and systematic examination, inspection, maintenance and testing of all plant systems, with particular arrangements for safety related components
 - Guidance on how to comply with IAEA guidelines and national regulations on site licencing