

Risk Analysis of Ageing Nuclear Plants



Background

Almost 60% of operating nuclear plants have exceeded their design life. The design life has little in common with the potential operational life of a nuclear plant.

Current approaches are not generally suitable to analyse the activities necessary for a nuclear plant to meet additional extended operational life.

Objective

- Develop an asset management system for a nuclear plant.
- Investigate the impact of system properties on the safe operation of nuclear plants.

Methodology

Hybrid Petri Nets are used to model component degradation, failure and maintenance.

