

EXPERTISE



Managing risk, reliability and safety of complex systems have been a major concern for local and international organizations. The cost and having in house resources and expertise to address critical issues are also affecting decision-making process. With our services, you have all the experience and disciplines combined to consolidate your reliability, safety and risk assessment.

*Informed decision-making process;
Safer, better-managed risk*

RISK AND SAFETY DIVISION

Successfully used *Probabilistic Risk Assessment* (PRA) methodology during Risk and Safety Assessment produces eye-opening results. PRA are used as an underlying scientific tool for risk assessment and management solutions. In this process, the system or process under study is modeled using FMECA and fault tree analysis to explore and identify potential risks. Event tree analysis are also used to model hazards progression sequence.

Risk management goals can be identified in terms of availability, reliability, risk, and safety. Safety risk management is an iterative process, where risk management tries to achieve the safety goals, and risk assessment verifies the achievement of the goals. At AESC, we have developed modeling techniques to perform iterations without actual implementation that save time and money.

ENGINEERING DIVISION

AESC blends PRAM methodology to standard *System Engineering* practices to ensure success with complex system engineering challenges. This methodology has proven successful in control and management of all phases of engineering.

With expertise in scientific, analytical, and specialized algorithm software development our experienced *Software Engineering* team are ready to develop and deploy your high quality desktop, and web-distributed platforms, as well as real-time embedded monitor control applications. Our staff specializes in multitude of platforms and software development technologies.