

LAEMG Safety Case

Customer: British Nuclear Group (Sellafield Ltd)
Project: Safety Case Production and Implementation
Location: Sellafield
Date: Dec 1999 – September 2004
Services: Project Management
Value: £9.5 Million



Scope of Work

The scope of the work included Safety Case production, delivery to the Nuclear Installations Inspectorate (NII), preparation of Clearance Certificates and supporting documentation, preparation of PMP's and subsequent operator training and implementation.

Description

B804 Enhanced Actinide Removal Plant (EARP). One of seven Safety Cases produced and implemented for Low Active Effluent Management Group (LAEMG).

Aker Solutions provided Project Sponsor Services, managing the production and implementation of seven Safety Cases for the LAEMG.

The work was carried out by an integrated team comprised of Aker Solutions, client's operations personnel, client's Engineering and Safety and Environmental Risk Management Group.

Since work began in 1999 the following Safety Cases were produced:

- B316 Break Pressure Tank and Sealines
- B225 Lagoon
- Street 3 Ventilation system
- Enhanced Actinide Removal Plant (EARP)
- Waste Packaging and Encapsulation Plant (WPEP)
- B242 Holding tanks
- Segregated Effluent Treatment Plant (SETP)

During this time the cost of the safety cases and the number of accepted recommendations reduced significantly due to process improvements initiated and implemented by the LAEMG Safety Case Team.

The Safety Cases addressed all aspects of plant safety and included the following assessments:

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|---------------------------------|------------------------------|
| ▪ Radiological | ▪ Conventional Safety |
| ▪ Chemotoxic and Environment | ▪ Plant Operations |
| ▪ Nuclear and Conventional Fire | ▪ Management of Safety |
| ▪ External Hazards | ▪ Engineered Safety Measures |