

Safety Case Implementation and Maintenance



It is a legal requirement for operators of nuclear licensed sites to produce, **maintain and operate** under a safety case that demonstrates that the risks associated with their **activities are suitably controlled** and ALARP.

Vectra is capable of providing a comprehensive safety case service for the production, **implementation and ongoing maintenance** for safety cases allowing demonstrable **compliance**.

Vectra's safety consultants are highly experienced in safety case preparation drawing upon operational experience of 'living' with the safety case. Using have detailed knowledge of the safety arguments and requirements to implement them, Vectra provide a **cost effective and efficient end to end** service.

Vectra also provide representation for customers at Management and Nuclear Safety Committees, and with Regulators to facilitate the timely issue of all necessary approvals, agreements and license instruments for projects and operational facilities.



Image courtesy of Sellafield Limited



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SERVICES AND EXPERIENCE

The combined knowledge and experience within Vectra's Nuclear Business Unit covers all aspects of power production, fuel cycle, defence, waste management and decommissioning. Vectra provides deterministic and probabilistic safety case documentation for all stages in the life of a nuclear facility including design, modification through to POCO and decommissioning. As well as safety case productions, Vectra's provides providing a comprehensive suite of operational safety support services effectively bridging the gap between the on-paper safety arguments and the on-plant positive safety assurance:

Safety Case Implementation

- ✔ Working level plant documents e.g.
 - Produce implementation strategy/plan (including safety issues) based on a gap analysis
 - Review of minimum manning level/baseline documents
 - Production and management of ALARP recommendations programme
 - Production of CC/ORCS, Surveillance Schedule & Operator Rounds
 - Production of PMS and pre implementation testing strategy
 - Management of production of OIs/MIs/EIs
 - Labelling including as built drawings Review and amend boundary documents e/g Interface Document and CBAs
 - Engineering Schedule
 - Positive compliance review
- ✔ Training/transfer of safety requirements e.g.
 - DAP & SQEPing
 - Interface building training
 - Review and amend CFAs/QPs
 - Review and amend Emergency Exercise programme
- ✔ Alarm Management
 - Alarm principles and rationalisation
 - Alarm Schedule and Alarm Response Instructions
 - Annunciator windows

Safety Case Maintenance (Including Management of Modifications)

- ✔ Conduct "Short Term Periodic Review"
- ✔ Production of OSM/Update of HAZAN for modifications and implementation
- ✔ Training of new arrangements for modifications
- ✔ Management of lesser safety significant ALARP recommendations