

Case Study

QEC Explosive Safety Management



Service

- Platform level Explosives Safety Management

Life Cycle Phase

- Design & Build

Expertise

- Safety Management Plans and Certification Strategies under JSP 430 Part 3/DSA02-DMR
- Ship/Class Explosive Safety Cases & associated Reports
- Magazine Material State Assessment and Design Compliance Assessment against Def Stan 00-101
- MAP 01-103 compliant Threat, Hazard Assessments
- Hazard/Risk ALARP Statements
- Naval Environment Assessment Statements (NEAS)
- Ship Explosives Store Safety Instruction (SEXSSIs)
- Warship In Harbour (WIH) Assessment

Requirement

The Aircraft Carrier Alliance needed to develop and deliver the strategy for achieving coherent certification of the Queen Elizabeth Carrier Class from an Explosives Safety and Environmental perspective through the design and build phases of the Vessels' Life Cycle.

Approach

SDE deployed a Suitably Qualified and Experienced team led by a Senior Experienced Explosives Safety Manager who:

- Produced the Explosives Safety and Environmental Management Plan and Certification Strategy.
- Facilitated and Chaired the Ship Explosives Safety & Environmental Working Group.
- Facilitated HAZID, Risk Assessment and Risk Management forums.
- Produced the QEC Class Explosives Hazard Log.
- Produced and Updated the QEC Class Explosives Safety Case and associated Reports (CESC/CESCR).
- Produced Design Safety Justifications.
- Facilitated the issue of Certificates of Safety Explosives (CSE).
- Conducted safety assessment on new and updated weapon systems integration.
- Conducted Warship in Harbour assessment.

Benefits

SDE's deep understanding of the Naval Explosives Safety Policy & Procedures, Key Stakeholders and Regulatory Authorities ensured that the DSA02-DMR/MAP 01-103 requirements for all aspects of the Explosives Key Hazard Certification process, were rapidly and effectively assessed and carried out helping the Customer achieve critical programme milestones.

Opportunities

The timely issue of the QEC Certificate of Safety Explosives (CSE) underlined SDE's capabilities in this area and demonstrates the benefits that would be gained if used in future programmes.

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