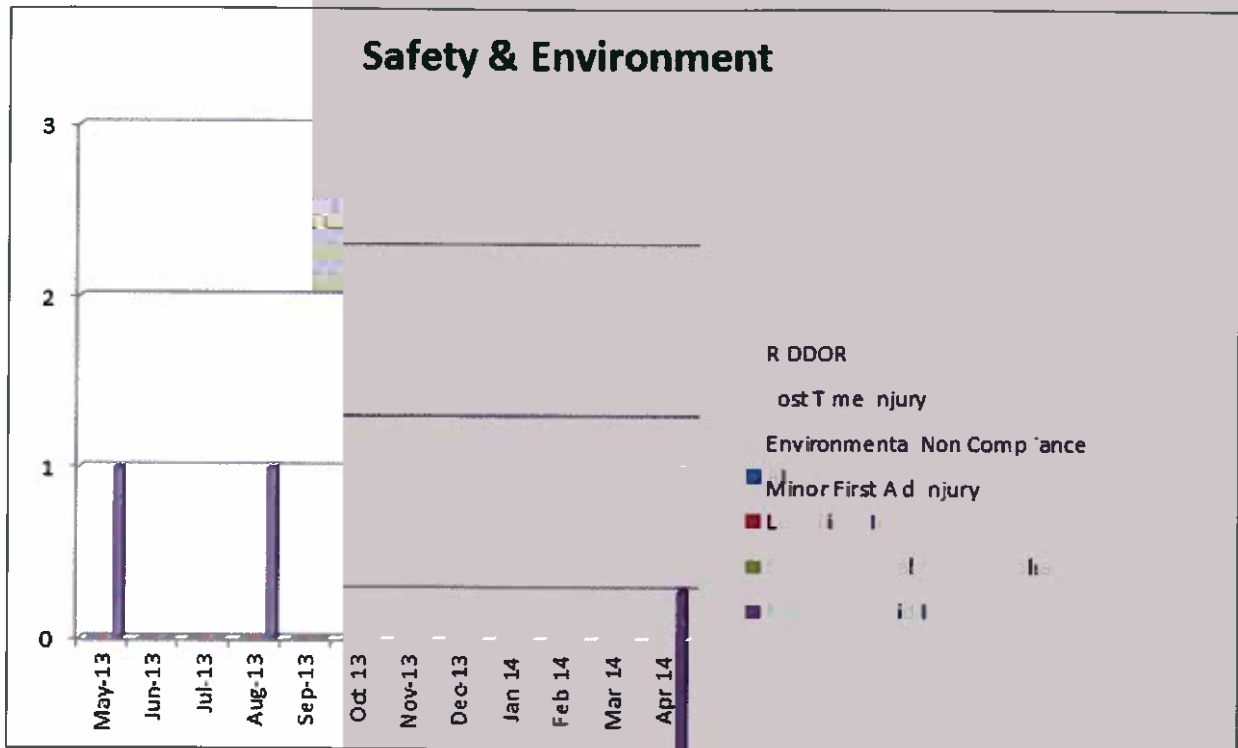


VULCAN Naval Reactor Test Establishment Report to DSG dated 12 Jun 14

Health, Safety & Environmental Performance



Health and Safety

No Lost Time Accidents since 1st October 2010 (1328 days as at 22 May 2014)

No RIDDOR reportable incidents.

Rolls-Royce Submarines was awarded the RoSPA Order of Distinction Award for Occupational Health and Safety (May 2014).

Rolls-Royce Submarines recertification to ISO 9001, 14001 and OSHAS 18001 was confirmed by Bureau Veritas audit (April 2014).

Rolls-Royce Submarines continue to participate in the UK BP Safety Reps Forum and the National Operating Experience Learning Group (NOELG). Both offer a good opportunity for benchmarking and sharing good practice.

Environment

No environmental non-compliance incidents.

Shore Test Facility Programme

The annual maintenance period completed to schedule on 23 May 2014. The MOD continues to review the benefits of (1) critical operations at the Shore Test Facility in support of the validation of the safety justification of current and future submarine reactor cores, or (2) decommissioning early in order to expedite Post Irradiation Examination of the core to try to determine the root cause of the fuel element breach. Since the last meeting no Events have occurred that required reporting to ONR or SEPA in accordance with their respective mandatory reporting criteria.

Radioactive Waste Disposal

The current percentage level of discharge against the maximum detailed in the SEPA letter of agreement at 30 Apr was:

| | Type | Percentage |
|---------|---------------------------------|------------|
| Gaseous | Noble Gases | 4.9 |
| | Beta Particulate | 23.5 |
| Liquid | All Beta emitting Radionuclides | 2.9 |
| | Tritium | 21.4 |
| Solid | Other Radionuclides | 0.003 |

Inspection / Audit Programme

The table below outlines the current programme of audits for the next 6 months

| Year | Month | Auditor | Audit/Subject |
|------|----------|----------------------------|---|
| 2014 | June | DNSR | DNSR Head Annual Review |
| 2014 | 18 June | DNSR / ONR | Exercise Lonestar 14 – Level 1 exercise with limited external agency involvement |
| 2014 | June | ONR | Ionising Radiation Regulations & Conventional Health & Safety |
| 2014 | July | DNSR | Authorisation Conditions 16 & 23, Site Plans, Designs & Specifications and Operating Rules |
| 2014 | October | DNSR | Authorisation Conditions 11 & 30, Emergency Arrangements and Periodic Shutdown |
| 2014 | November | DNSR | Authorisation Conditions 13 & 14, Nuclear Safety Committee and Safety Documentation |
| 2014 | November | ONR | Deputy Chief Inspector (Defence Programme) Programme Review |
| 2014 | November | Principal Security Advisor | MoD Defence Equipment & Support assessed Annual Security Demonstration |
| 2015 | January | DNSR | Authorisation Condition 7, Incidents on the Site & Further Authorisation Condition 1 Duty of Co-operation |

Vulcan Defuel and Decommissioning Programme

As presented to the DSG in Dec 12 and updated in Jul 13, the Vulcan Defuel and Decommissioning Programme is currently in the assessment phase. The assessment phase is expected to report in 2016 and will make recommendations to Ministers on the future of the site. Ministers announced in November 2011 that a PWR 3 prototype reactor core at VULCAN NRTE was not required. The Defence Secretary has asked the MOD Chief Scientific Adviser to revisit this decision in light of the Fuel Element Breach and report to him by October.



K A Dyke
Commander Royal Navy
Naval Superintendent Vulcan