

submarine flotilla including 'special modes' trials

- Co-operated with Matra Marconi Space (UK) in PD Study and tendering for the revisited **Baseband Control and Traffic Exchange (BCTE)** and Advanced Modem (PUMS) installation to improve the RN SHF SATCOM system in major warships, UKMSCS ground segment and other shore facilities
- **Project Management Services** to Mouchel Consulting Limited for improvements to CIS and IT facilities in the NATO extension to Atlantic Building, HMS Warrior at Northwood. Also provided GIBB Limited with Building Works support services at Northwood including Health & Safety and Informations Systems aspects
- Familiar with the **US EHF SATCOM Programme for the US Navy**, including the functionality of the US AN/USC38 EHF SATCOM ground segment at NAVELEX Vallejo. Well developed liaison exists with US authorities and commercial organisations. Detailed knowledge and appreciation of associated RN/USN interoperability issues and background of the SKYNET satellite programme and related MOU aspects
- **Merlin Communications International Consortium Member** delivering the VLF Radio Received Signal Service PPP Project which will significantly improve the service quality of communications to the Royal Navy's submarine flotilla
- **Carried out System Engineering upgrades** and associated Configuration Studies of UK Submarine HQ and shore communications system. Produced the overall UKSUBCAMS System Handbook (BR 9015)
- **Bowman Communications System installation design consultancy** was provided to the Archer Consortium. This comprised installation guidance packages for a range of ships and vessels for the Royal Navy

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- Structured Wiring of Traffic Control Centre, Birmingham.
- Structured Wiring of Newbury College.
- Provision of IT, Telecommunications and TV briefing systems for the Permanent Joint Headquarters at Northwood. This £2.7 million project was completed to time and cost and enhanced the military's Joint Operations effectiveness
- Working with ICL to successfully design, install and commission the Tomahawk Land Attack Missile (TLAM) system communications infrastructure at UK sites. Delivered, installed and STW the core electronics for the Cruise Missile Support Activity (CMSA)(UK) facility in the Northwood Command Centre. This work included CCTV, telephone, Information Exchange and complete Office Administration LAN and sub-systems. This project culminated in a successful TOMAHAWK missile firing from HMS Splendid in Autumn 1998
- Naval EHF Satellite Communications Study with The Smith Group Limited into the feasibility of the introduction of this capability into the Royal Navy service
- Modifications to current Royal Navy SHF Satellite Communications (SCOT) System. Involvement in a rolling modification programme involving setting-to-work and presentation for Acceptance of refurbished RN SHF satellite communication systems (SCOT) comprising RF facilities and system support services
- Pilot JOCS Design Study Consortium Member with EDS Limited
- SR(S) 7392 HF Upgrade PD Study Team Consortium member responsible for ship and submarine installations
- Definition and Implementation of Royal Navy UHF SATCOM (DAMA) multiplexing system upgrade in submarines and UK sites. Integration and installation of Platform and Shore infrastructure and facilities to enhance the operational capability of the RN UHF SATCOM system. This work comprised Design Support to the Prime Contractor, Thomson Marconi Sonar Limited, and Installation Design of the shore station (MoD London and Northwood Combined HQ) together with submarine fits in the 'T', 'V' and Astute classes
- Extensive VLF Communications System for the Royal Navy's