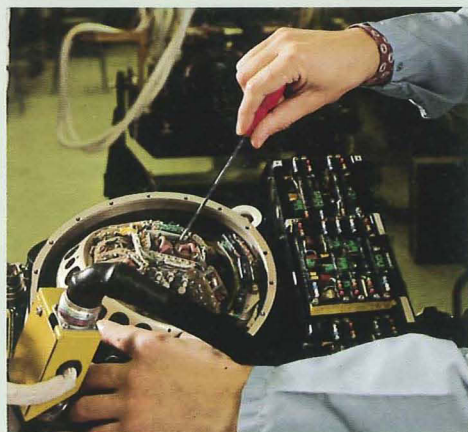


GEC AVIONICS



TOTAL LOGISTICS SUPPORT

TOTAL LOGISTIC SUPPORT

Logistic Support is the business of GEC Avionics product support organisation – Aviation Service and Repair Division (ASRD).

This division of the Company, dedicated solely to the support function, with its large resources can provide support as a total concept, or work with its customers to strengthen their own in-house capabilities.

The success of ASRD's business is in saving money for its customers, planning for cost-effective operations and putting those plans into action. ASRD's long experience of world wide logistic support has proved that success is the result of working closely with the customer and fully understanding his operations.

The application of total logistics support insures effective and economical operation of equipment and systems throughout their whole life cycle. Its application, through systematic logistics planning in the phases of equipment and system definition, design, development, procurement, production, operational service and disposal provides the most cost effective use of funds, material and manpower.

ASRD's flexible approach and organisation enables it to meet any customer support requirement, from planning and provision of complete logistic support packages from the outset of a programme, to augmenting existing capabilities at any stage of programme development.

Logistics Studies, Customer Training, Maintenance Documentation, Supply Management, Engineering Support and Equipment Repair are the basic elements applied in total logistic support and their employment as further described in this leaflet will assist in meeting ASRD's customers' precise requirements and help to make their operations safe and cost effective.

This is Logistic Support and Logistic Support is ASRD's business.



LOGISTICS STUDIES

ASRD carries out logistics studies to define the support criteria for any given operation and evaluate these in terms of support effectiveness and life cycle costs. Logistics studies can be applied either:

- (a) prior to the introduction of new equipment and systems, or
- (b) later, to optimise support procedures and organisation.

ASRD's studies reveal any fundamental logistic problems and evaluate solutions. Their effect is monitored from the initial concept through equipment design, development, production and operational service. A team of logistics engineers develops mathematical models and performs studies relating to Design Feasibility with reference to Reliability and Maintainability, Availability, Maintenance Planning, Configuration Management, Cost of Ownership and Life Cycle Costs. From these studies, ASRD develops and provides recommendations, plans and procedures covering:

- Information management and project control
- Optimised maintenance procedures
- Spares and repair parts inventories
- Spares distribution
- Facilities requirements
- Test requirements and distribution
- Training
- Maintenance documentation
- Equipment repair and maintenance
- Engineering support
- Operating data analysis and feedback

EQUIPMENT REPAIR AND MAINTENANCE

ASRD has earned a reputation for rapid turn-round of equipment received for repair and overhaul. This has been achieved through application of ASRD's unique dedicated repair project scheme. This uses an in-built self monitoring progress tracking system, repair project designation, flexible work routines and adaptive repair stations for high productivity.

Over 25 years of repair experience, combined with the expertise of the Engineering Support Group, also enables ASRD to assist customers to establish facilities of their own.

To ensure that customers develop an 'organic' capability to perform low-cost rational repairs, ASRD will:

- Define maintenance plans
- Specify maintenance requirements
- Develop maintenance, test and repair procedures
- Design, develop and supply repair test equipment
- Recommend and supply repair spares
- Train customers' technicians
- Provide repair documentation
- Deploy service engineers on-site
- Provide a rapid back-up repair service
- Provide continuation support during equipment operational life

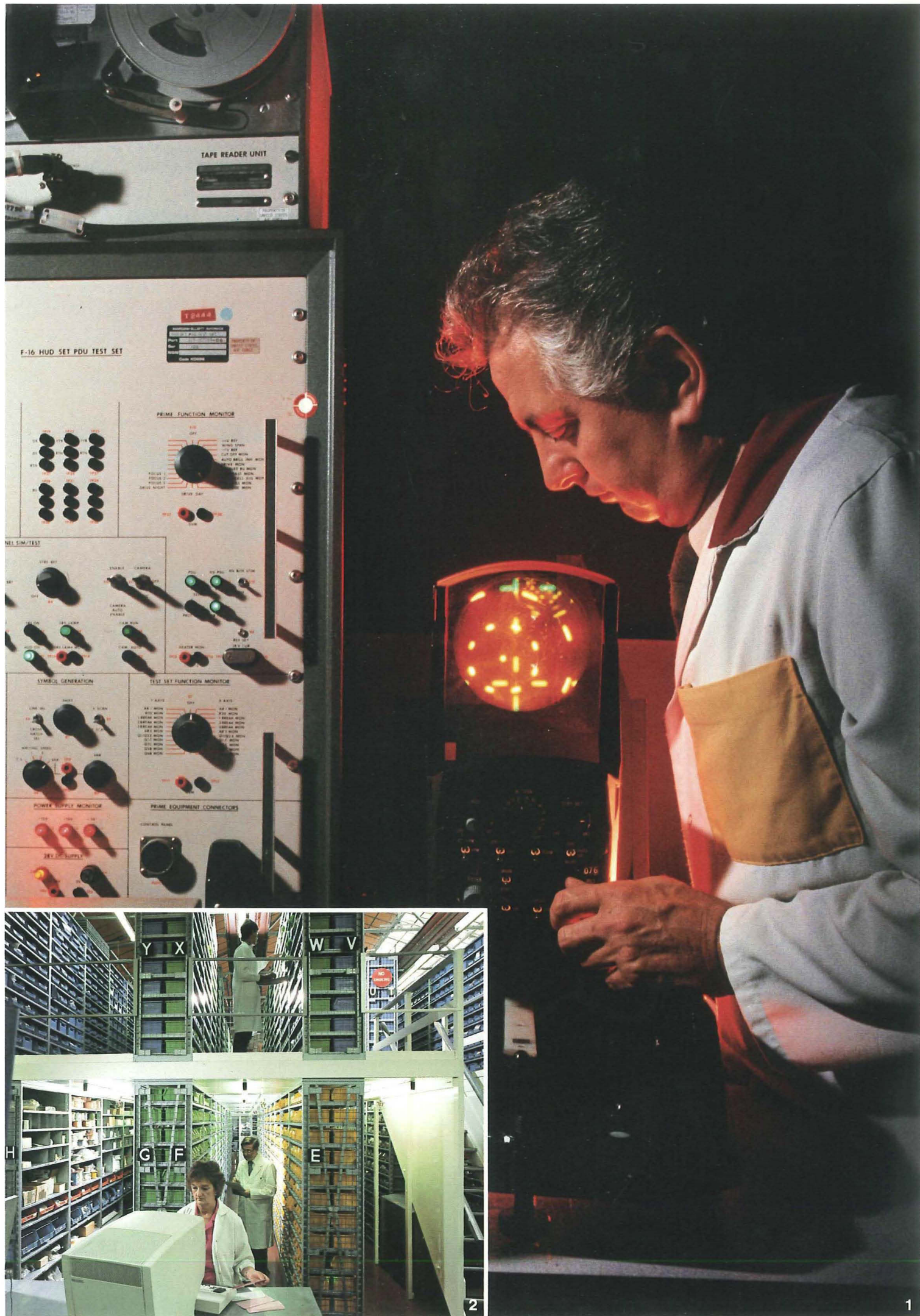
SUPPLY MANAGEMENT

With a large inventory of spare parts instantly available to meet its support responsibilities, ASRD operates computer based control systems and has developed and optimised supply management procedures.

This experience in supply management enables ASRD to recommend and implement complete systems or selected aspects of control. The procedures can be adapted to meet any customer's individual requirements and can be integrated into existing control systems.

ASRD's Supply Management services include:

- Identification, codification and cataloguing of spare parts
- Provision of illustrated parts lists and catalogues
- Determination of initial and follow-on spares requirements
- Provision of spares recommendations to meet operational needs
- Training in initial provisioning procedures
- Recommendation and implementation of supply management systems
- Recommendation and implementation of inventory control procedures
- Standardisation of spare parts to avoid duplication
- Control of spare parts movement



ENGINEERING SUPPORT

In its support of many diverse equipments and systems, ASRD has developed a comprehensive engineering support group providing to customers a wide range of technical services.

Following joint assessment of requirements with its customers at an early stage, ASRD plans and provides engineering support services to meet agreed operational needs.

The range of services available includes:

- Analyses of maintenance requirements and provision of maintenance plans
- Development of maintenance routines and test requirements
- Recommendation, design and supply of test facilities
- Provision of on-site technical assistance, resident or on-call
- Response to maintenance queries and problems by in-house engineers
- Defect investigations and analyses
- Reliability analyses
- Modification, product and design improvement recommendations
- Complete depot maintenance facility planning
- Depot maintenance facility development and transfer to customer
- Depot maintenance documentation and training

CUSTOMER TRAINING

The value of dedicating personnel and facilities specifically to customer training has long been recognised by ASRD as of major importance in its concept of Total Support.

ASRD's well equipped Customer Training School provides instruction to all levels of management, operational and technical staff. Courses cover equipment familiarisation, operation and maintenance practices for electrical, electro-mechanical, electronic, avionic, optical, navigation and communication equipment and systems.

A continuous programme of instructor preparation ensures that staff are always equipped to deal with state-of-the-art technology, and the latest instructional techniques and training equipment are employed.

In particular, the Customer Training School provides services for:

- Planning and controlling training projects
- Developing courses to meet customer requirements
- Designing and producing training aids
- Courses in the Customer Training School or at customers' sites
- Training manuals and course notes
- Training for customers' own instructors

MAINTENANCE DOCUMENTATION

To maintain operational readiness and provide economic operation of equipment and systems it is essential that adequate and correct maintenance documentation is available. To meet customers' requirements for all levels of maintenance, ASRD acquires and processes source data from which maintenance publications are prepared and produced. All documentation is validated and produced in accordance with internationally recognised civil and military publications specifications.

ASRD, which employs automated techniques for information storage and retrieval, has in-plant printing and photographic facilities and a fully automated

graphics capability. ASRD is capable of performing a full range of documentation tasks including:

- Producing maintenance, repair and overhaul manuals
- Providing test equipment support manuals
- Preparing illustrated parts lists and catalogues
- Monitoring equipment modifications
- Preparing Service Bulletins and Service Information Letters
- Updating maintenance manuals and parts catalogues
- Providing a distribution service

1. Maintenance data being displayed to an engineer on a Head Mounted Monitor.

2. Customer Training School

3. Video composition of technical manuals.





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