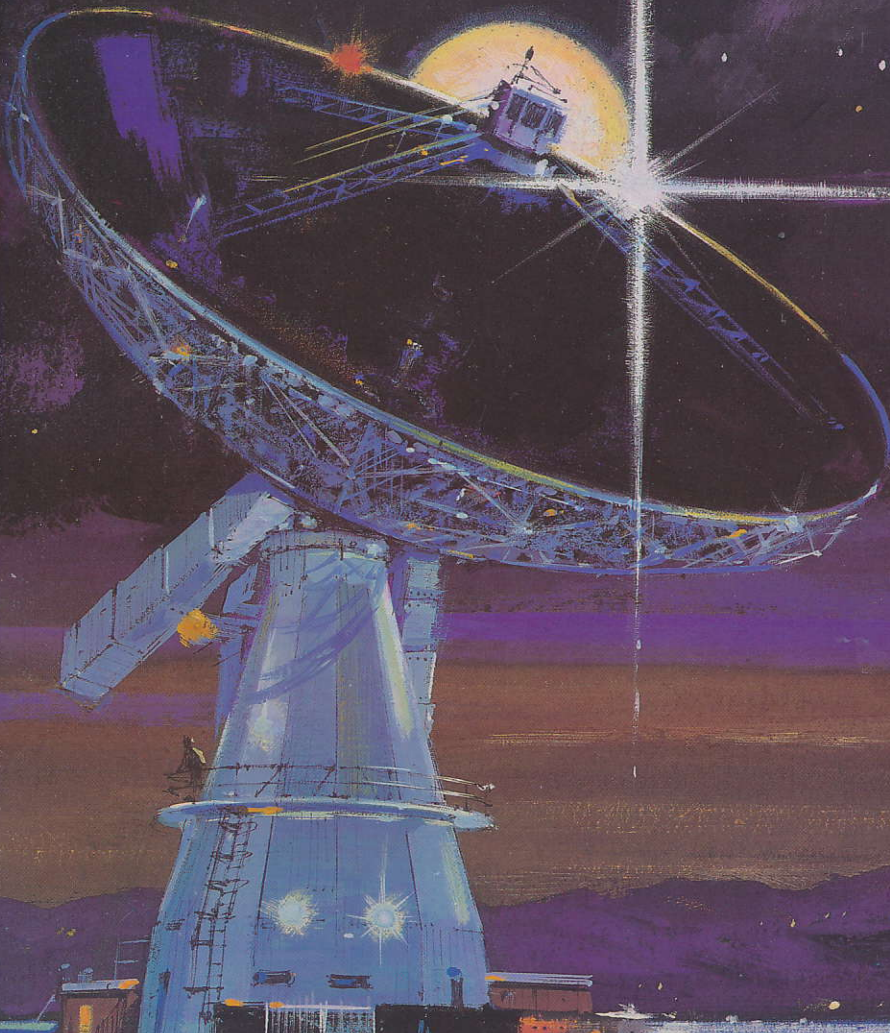




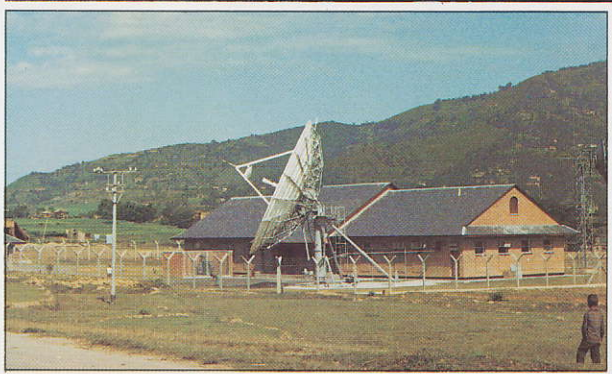
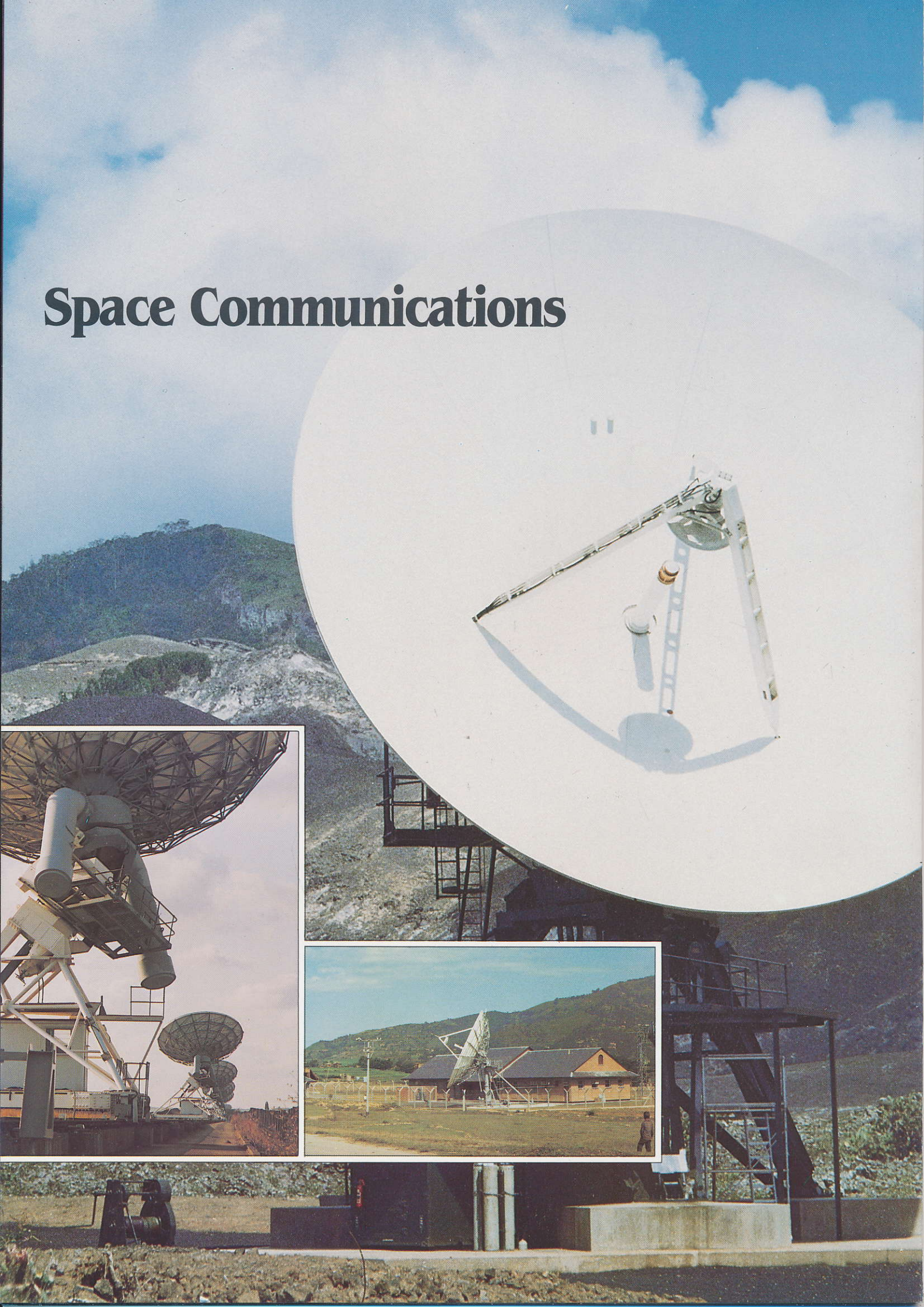
Space Communications

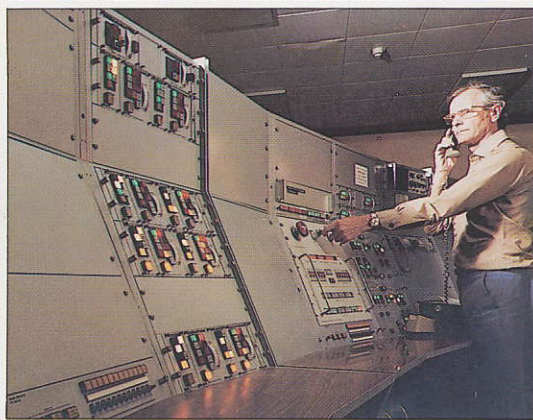


Marconi
Communication Systems



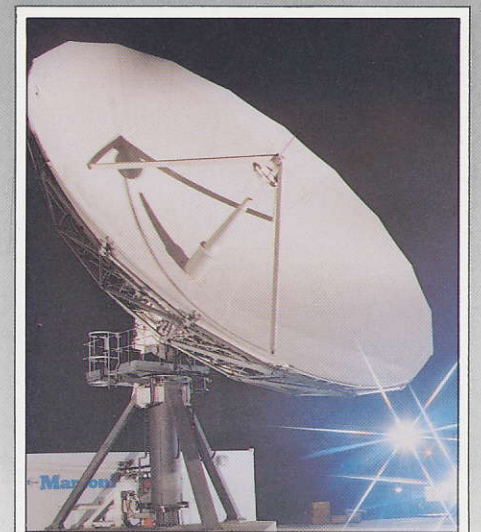
Space Communications





From the inception of commercial satellite communications there has been a constant growth in the traffic carried by satellite. This growth has necessitated the building of new earth stations and the constant enlargement and updating of existing stations. Marconi Communication Systems has been involved with this exciting growth from the beginning. Over the years the Company has built up wide experience in all aspects of earth station design, installation and commissioning, building a variety of earth stations worldwide, until today the Company has a Division dedicated to the earth station business with a large development team, systems engineering programme department, manufacturing unit and installation group all led by a highly competent management team, who have an unrivalled experience and background in satellite communications.

Marconi engineers have kept pace with the constantly changing pattern of satellite communications, and the ever increasing uses being found for this mode of communication, and are therefore able to offer the systems and equipment necessary to provide earth stations at C Band, Ku Band and Ka Band, transmitting telephony, voice, television and data.

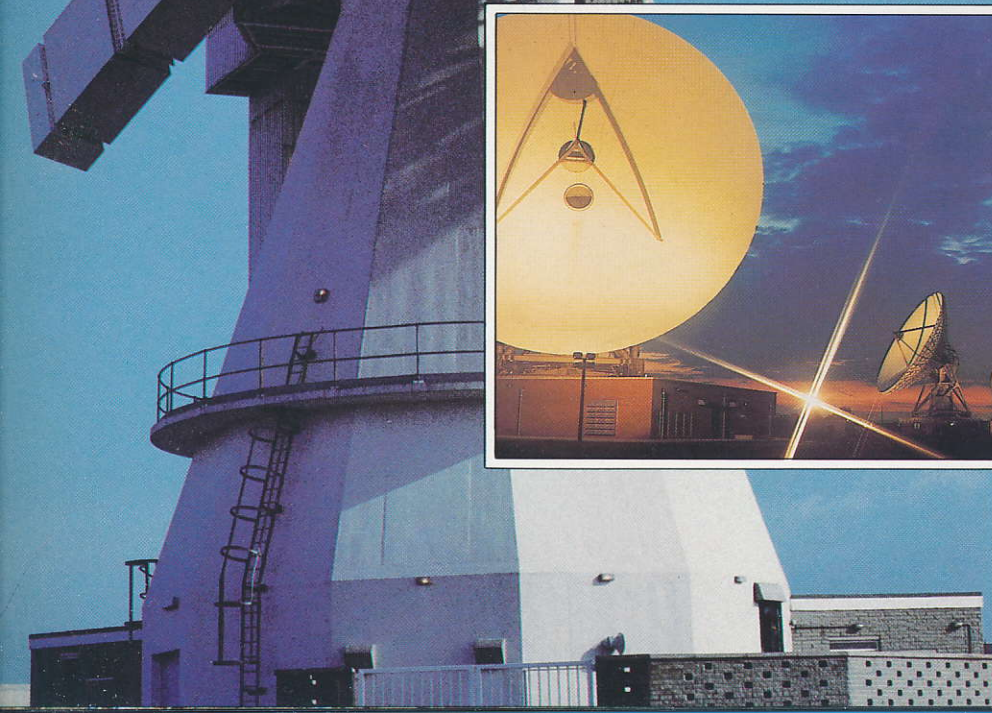
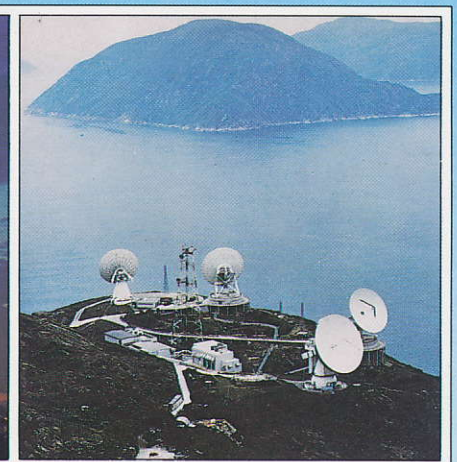
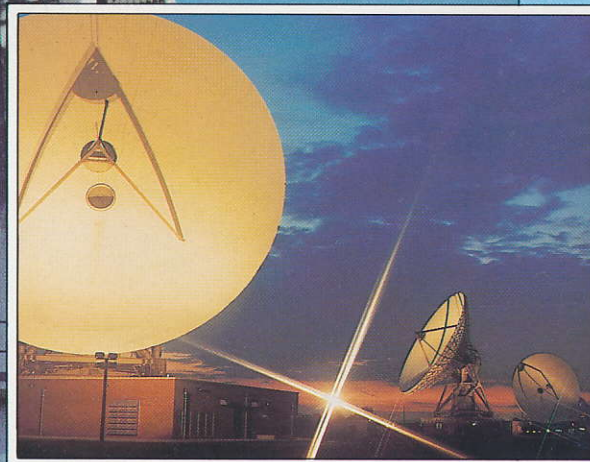
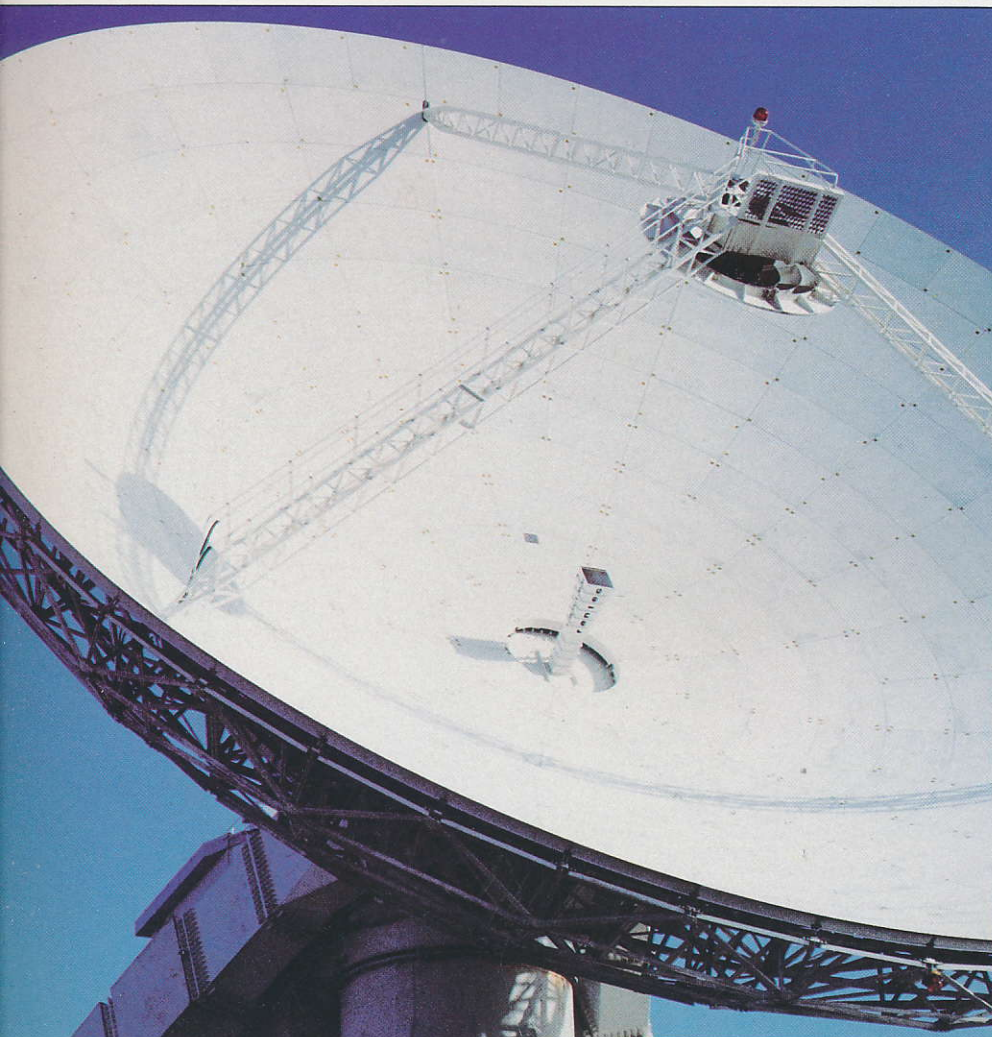


Large Stations

The backbone of the satellite communications system was the Standard A station, used for worldwide trunk communication system controlled by the Intelsat organisation.

Marconi has long and extensive experience of this type of station having installed its first one in 1968 and since then has been involved in turnkey and prime contracts around the world.

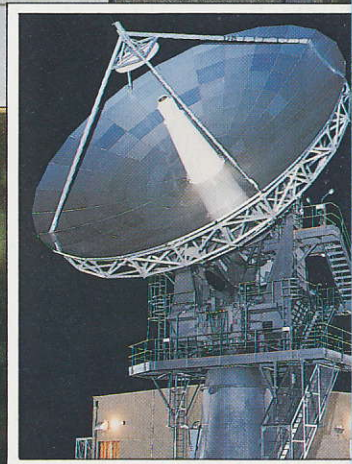
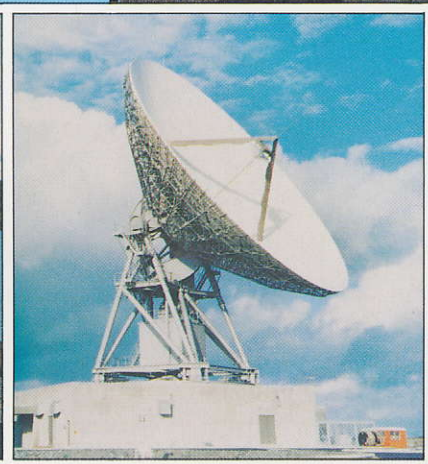
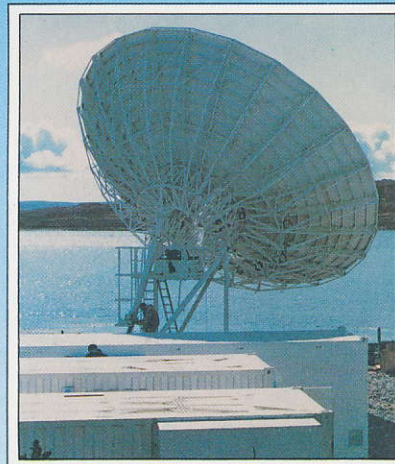
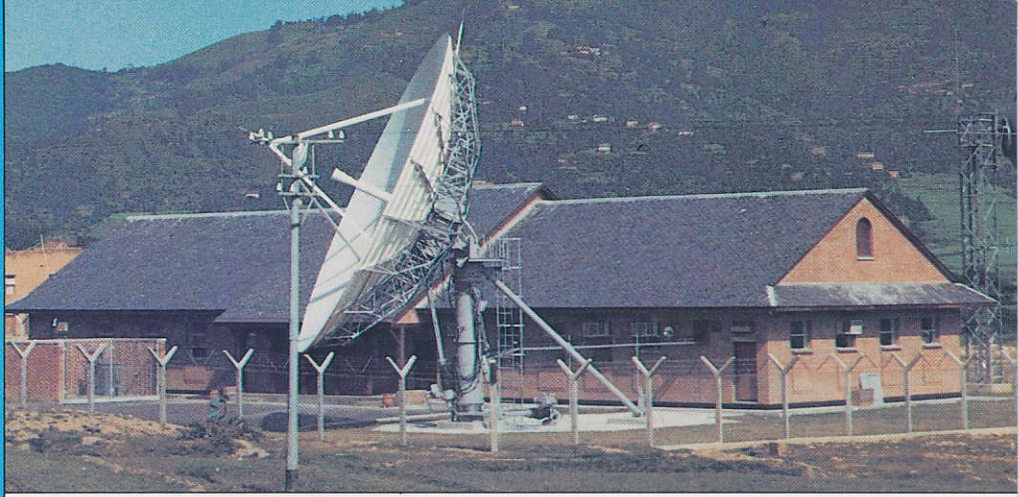
To keep pace with increasing traffic requirements, the Intelsat organisation expanded into the Ku or 11-14 GHz frequency band and to meet these needs Marconi developed equipment to fit this new Standard C earth station.



Medium Stations

Communication needs vary considerably and in many cases countries do not require the large channel capacities available from Standard A systems. Marconi has designed and installed low capacity systems, such as the Std. B system in Nepal, which was a turnkey project involving civil works buildings, earth station equipment, backhaul microwave, power supplies and gateway exchange.

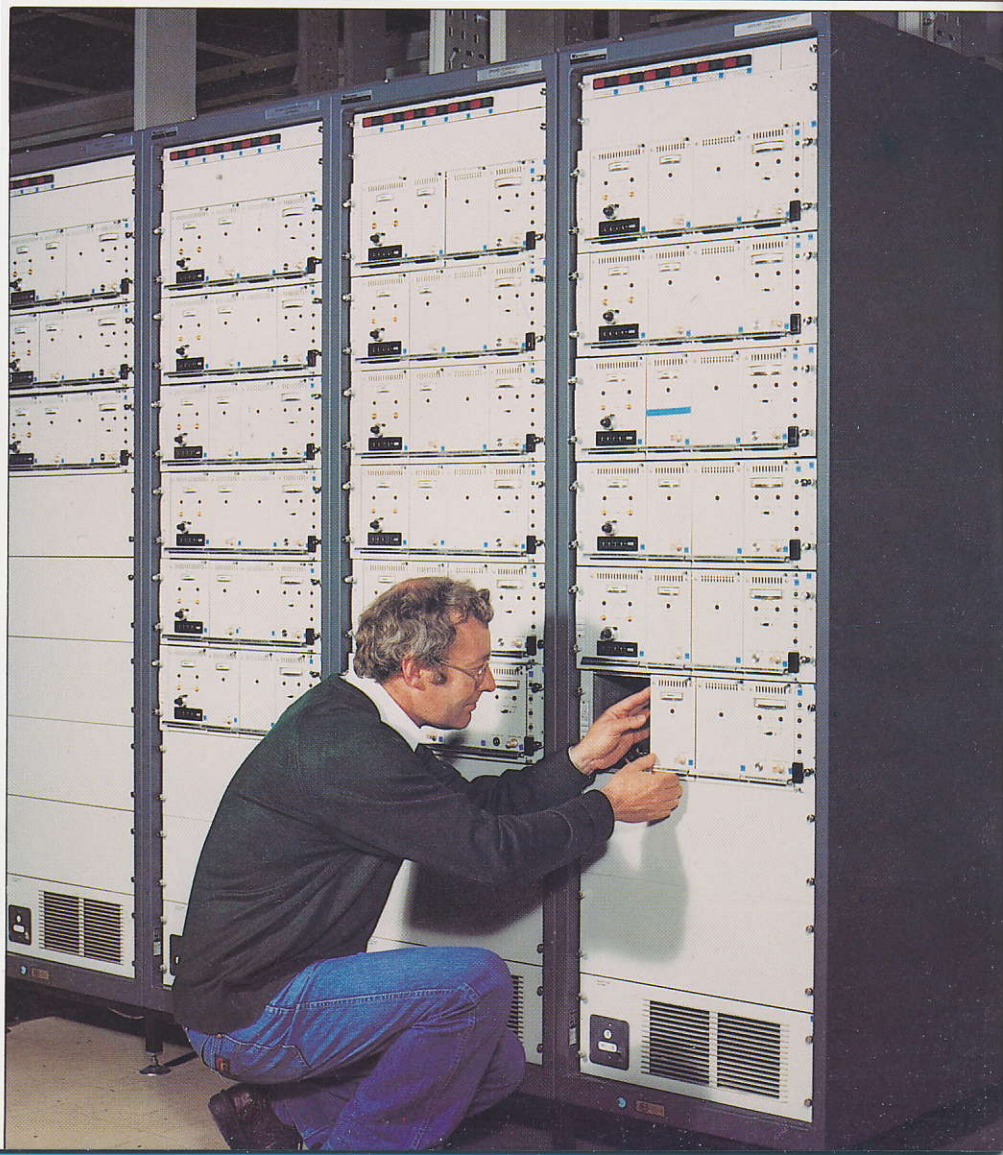
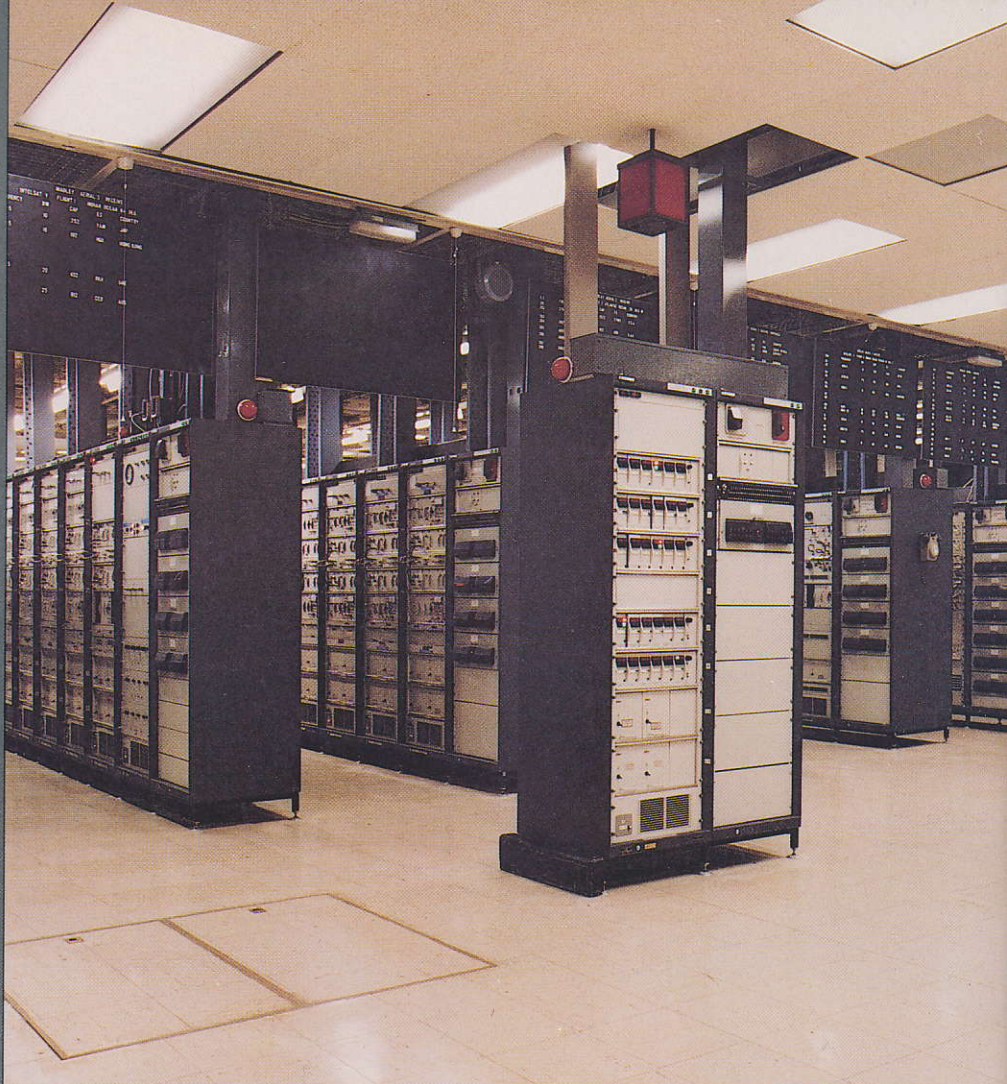
These stations require new equipment and systems.



Ground Communication Equipment

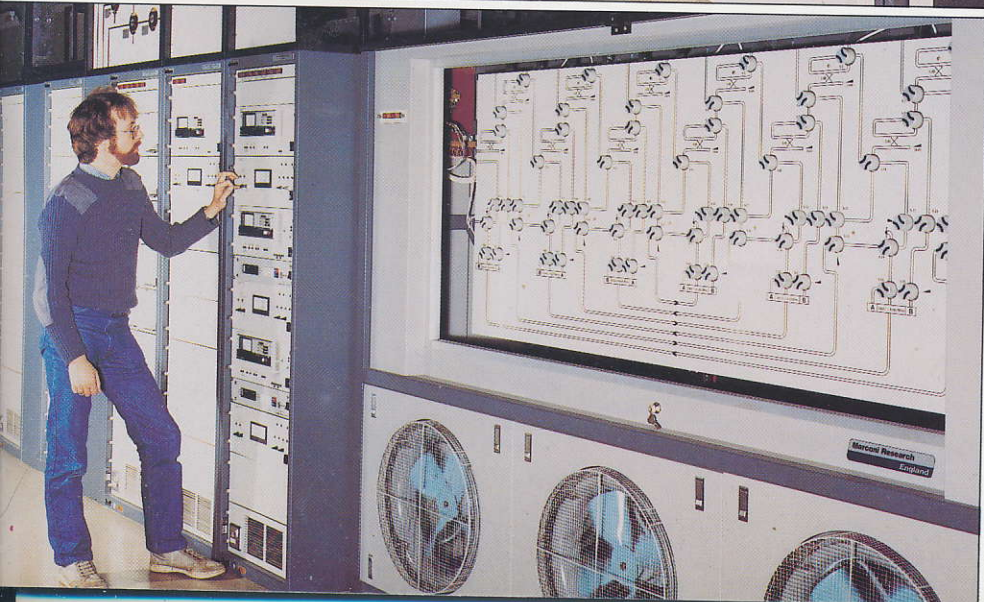
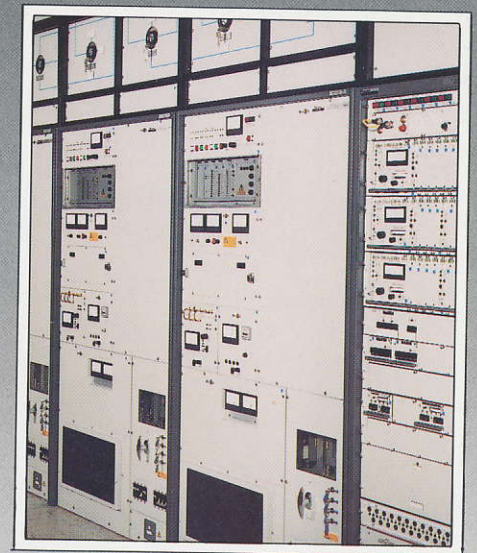
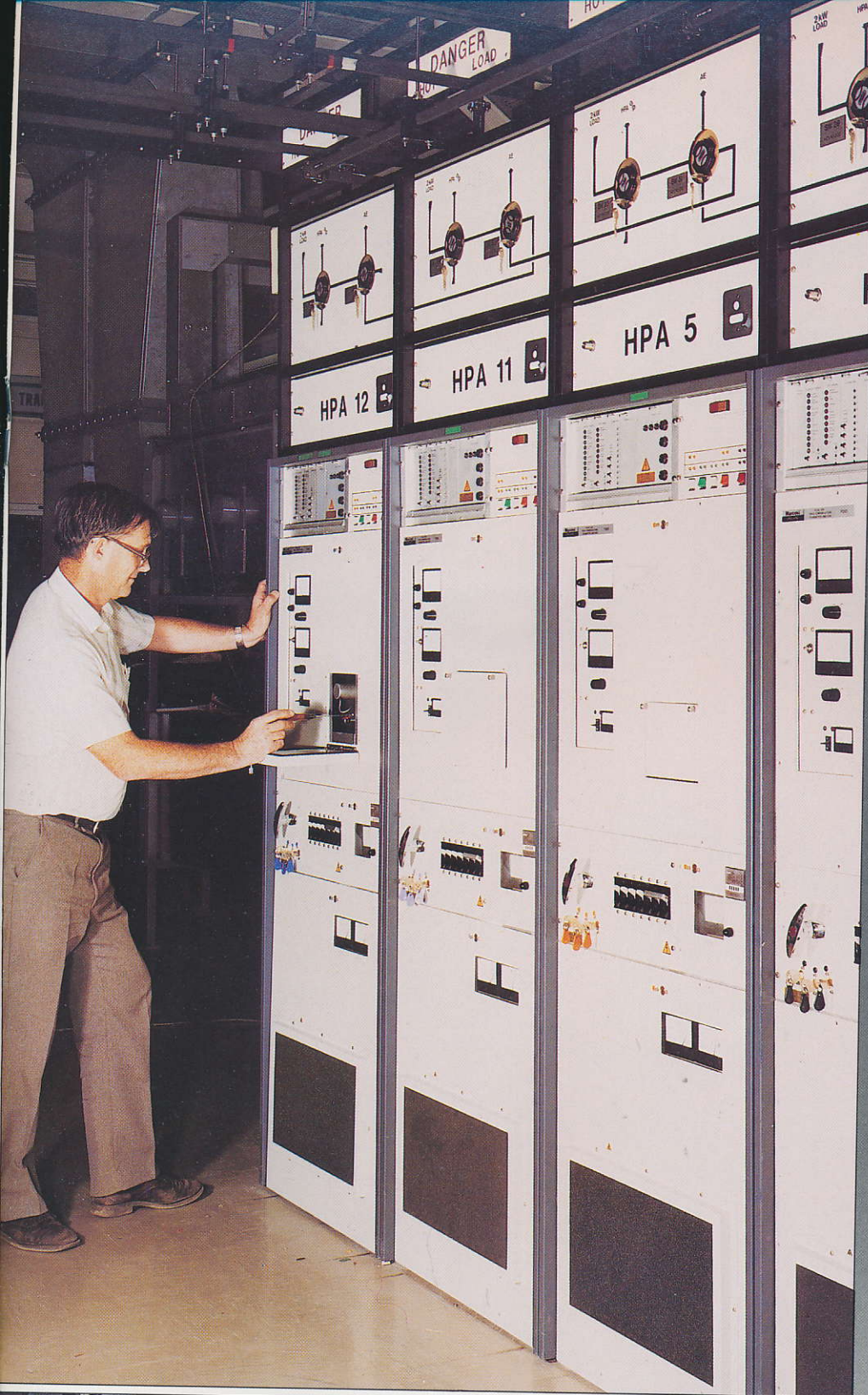
The Marconi range of Ground Communication Equipment is now into its fourth generation and is still being developed and extended to meet the changing and challenging requirements of international and domestic systems.

For performance reliability and flexibility Marconi GCE is hard to beat. This is the result of many years of experience in the design, development, manufacture and installation of earth stations around the world, an experience that goes back to the start of satellite communication. Our customers will confirm that not only have they had years of trouble free operation but have found our systems easy to operate and maintain and, what is more, they are designed to a customer's exact requirements in terms of redundancy, control and supervisory circuits, and rack layout. All this provided at highly competitive prices and short delivery. The Company intends to remain in the forefront of equipment design and manufacture and therefore devotes considerable resources to the ongoing development of these products.

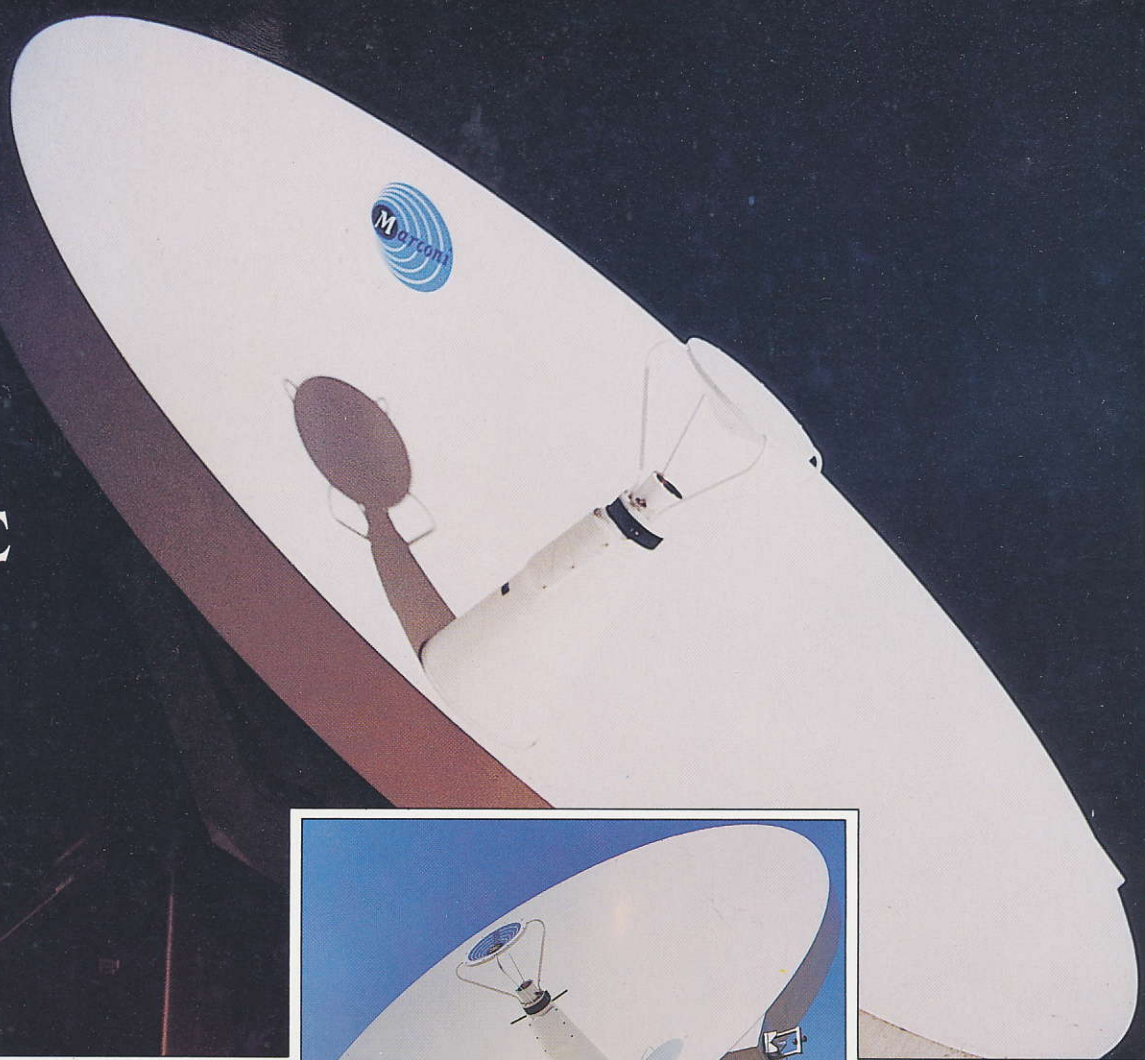


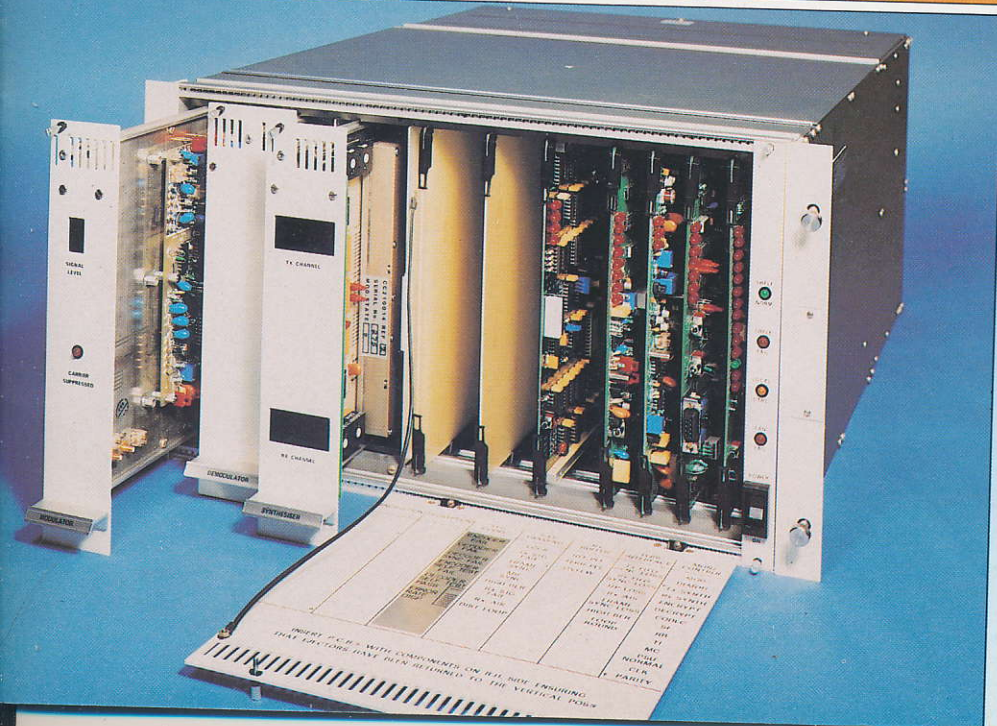
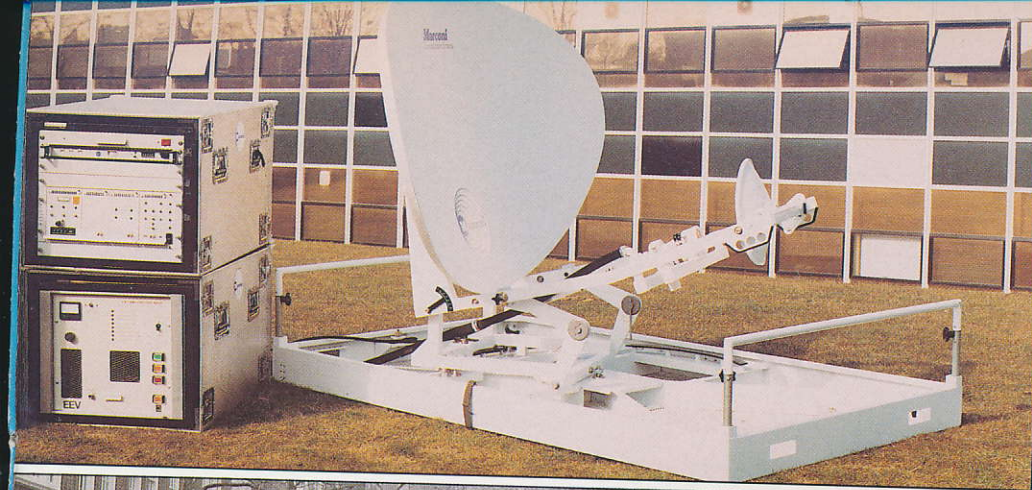
HPA's

Continuous development of our High Power Amplifier (HPA) range over a period of 20 years has produced some of the most reliable HPA's available. These working in the C and Ku bands are modular in construction, use either klystron or travelling wave tube, are easy to maintain, safe to operate and highly reliable. Marconi amplifiers perform day after day in earth stations across the world, clear proof of our expertise and capabilities built up from long experience of giving the customer what he needs to have a trouble free satellite earth station.



Domestic Systems





As satellite communications have developed, so has the need for new types of earth stations for regional and domestic use, Marconi has kept abreast of those trends, developing data terminals, TV uplink systems, TVRO's and transportable earth stations to suit the new requirements.

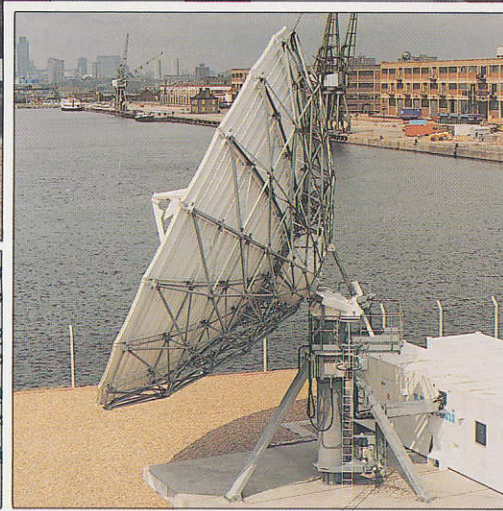
Marconi can provide your total system designed, manufactured and installed to meet your communication needs whether they be voice, data or television. Company engineers are able to design systems, large or small, to meet customers requirements whether they be P.T.T., news organisations, domestic consumers or for emergency situations.

Much of the new requirements for domestic systems is concerned with TV distribution and reception, both fixed and transportable, and hire. Marconi can offer complete uplink stations as well as a variety of transportable systems to meet customer requirements.

Containerised Equipment

As earth stations become smaller and customers need their systems earlier, Marconi recognised that a new approach to turnkey projects was needed and therefore created the containerised earth station, a system that is quickly produced, inexpensive to install, and easy to commission. A simple idea solving lots of problems and yet providing all of the sophisticated equipment needed in a controlled environment. A system that is fully tested in the factory before being taken to site where all that is required is the connection to the antenna before carrying out simple commissioning tests.

The end result is a more flexible, reliable, cost effective solution to your communication needs be they telephony, data, receive only or any other type of system that meets your particular requirements.



Support

A comprehensive support service is available to the customer. Marconi will undertake the investigation and planning of complete networks of the extension of those that already exist.

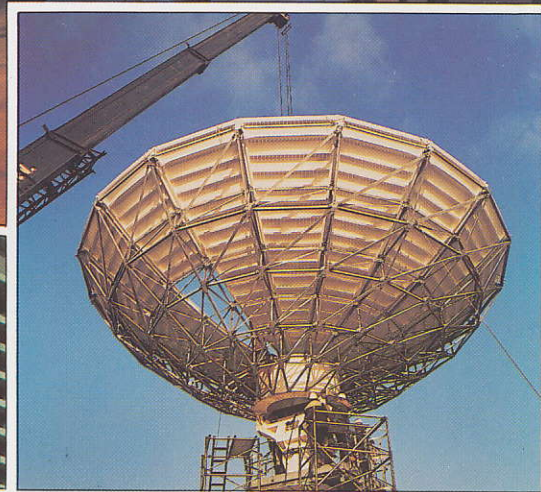
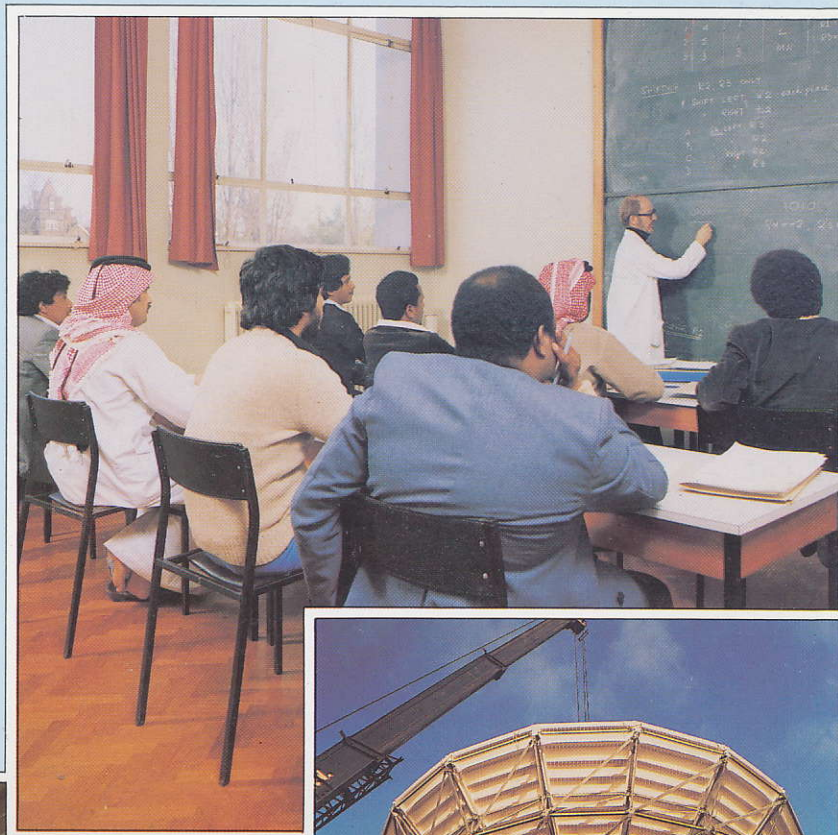
The Company is geared to undertake feasibility studies, system and installation of design, the procurement and manufacture of the equipment, of overall project control, and the installation, commissioning and testing of any project no matter what its size. This can be from the choice of the site, the design and erection of the building, through to a fully working station.

Marconi also provide a comprehensive technical service and maintain stocks of spares for the majority of the equipment in service. A guide to the spares holding that a customer may wish to hold for this equipment can also be provided, or a complete stores system designed and set-up.

At Marconi College a course of training can be arranged to suit a customers particular requirement. This can range from the simple repair of a printed circuit board to the complete understanding of the system. The courses in some instances are arranged in the host country.

The Company is part of the largest electrical/electronic groups in the world and therefore with this broad-base is able to provide for most of its customers needs for h.f. communications and ancillary equipment.

An ongoing programme of research and development ensures that the latest in equipment and techniques are available to provide the service for which the name Marconi has been renown.





Marconi

Communication Systems

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