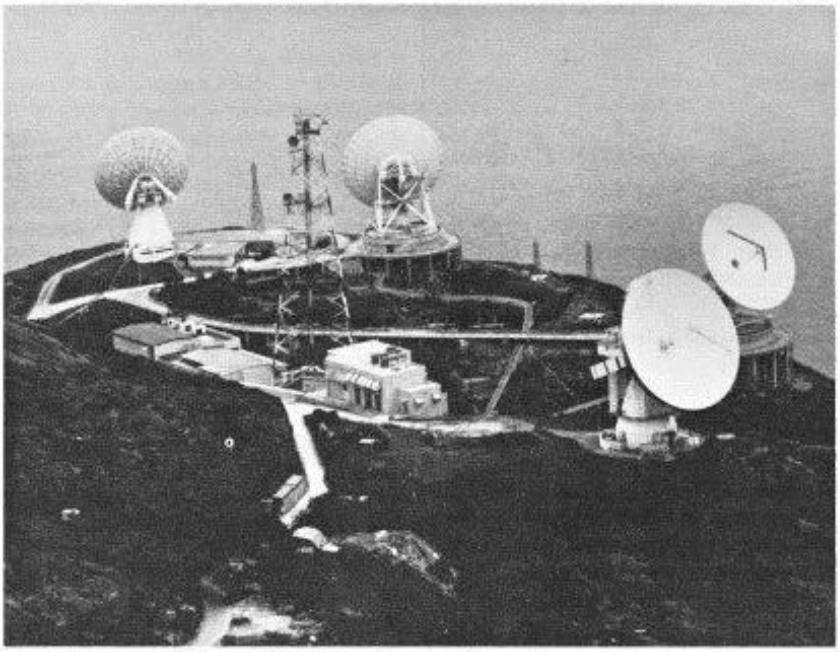
Communication and Broadcasting - March 1988

Marconi equipment for Hong Kong

An export order valued in excess of £1 million has been awarded to Marconi Communication Systems by Cable and Wireless (Hong Kong) Ltd. for the upgrading of the Hong Kong 4 satellite ground station.

Under the terms of the contract, Marconi will upgrade the transmit system of the terminal thereby facilitating the transmission of Intermediate Data Rate (IDR) carriers. This international digital satellite communication service, recently introduced by INTELSAT, provides for the transmission of data at rates up to 8·44Mbit/s.

The equipment to be supplied and installed includes high-power amplifiers, high-stability frequency converters and a computer-based control and supervisory system. The new installation is due to be commissioned in mid 1988.



'Marconi equipment at Hong Kong'

This contract maintains the long and close relationship enjoyed by Marconi with the Cable and Wireless station at Stanley Peninsula Hong Kong. The company completed construction of the first station at the site in 1969, the second in 1971 followed by Hong Kong 3 and 4 in 1983.

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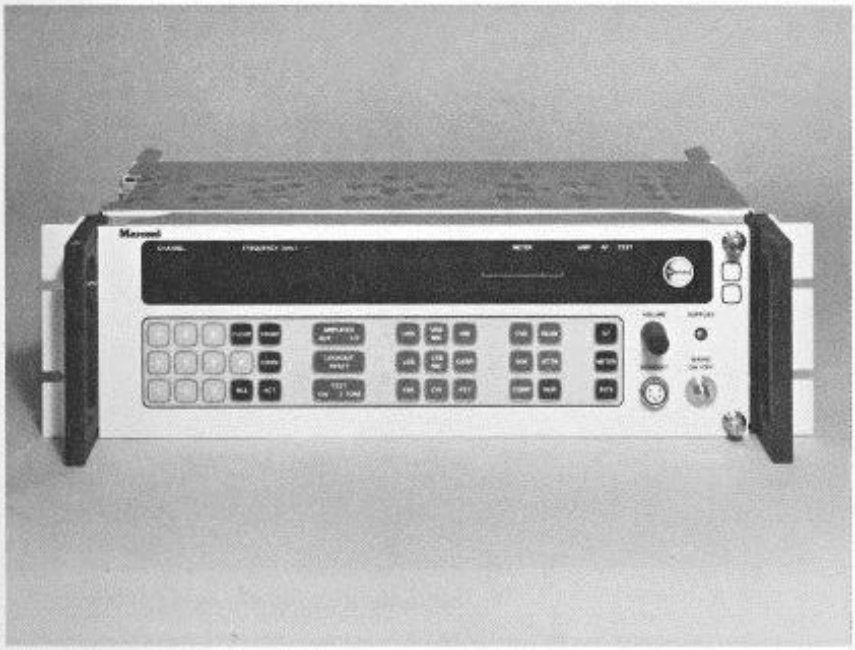
Fast-tuning transmitter for CTNE maritime services



The Marconi H1542 Drive Unit

Compania Telefonica Nacional de Espana (CTNE), has ordered a quantity of Marconi Communication Systems' latest 10kW fast tune linear h.f transmitters with H1542 Synthesized Drive Units and remote control, for its maritime radio services. The equipment will be installed in the CTNE Pozuelo radio station near Madrid and will be used primarily for ship-to-shore communications.

Marconi's H1141 Fast Tune Linear H.F Transmitter is a member of the Marconi Fast Tuning 2 (MFT2) range. It is fully automatic and provides an output of 10kW mean or peak envelope power over the frequency range 1·6MHz to 30MHz. It will tune to any frequency within the stated range in typically two to three seconds, is very flexible, and can be operated remotely.

Marconi amplifier for India's NPL

Marconi Communication Systems is to supply two h.f auto tune linear amplifiers to The National Physical Laboratory, the Indian Government's research organisation. The Type H1141 10kW Amplifiers, complete with antennas, installation and spares, have a total value of more than £130k. They will be installed in New Delhi where they will be used for standard time and frequency broadcasting.

Marconi H1141 10kW amplifiers on assembly at Chelmsford

A change in technology for the Royal Navy

The Royal Navy has introduced the United Kingdom Maritime Coastal Communication System (UKMACCS) into service to satisfy present and future command communication requirements for UK coastal and off-shore sea areas.

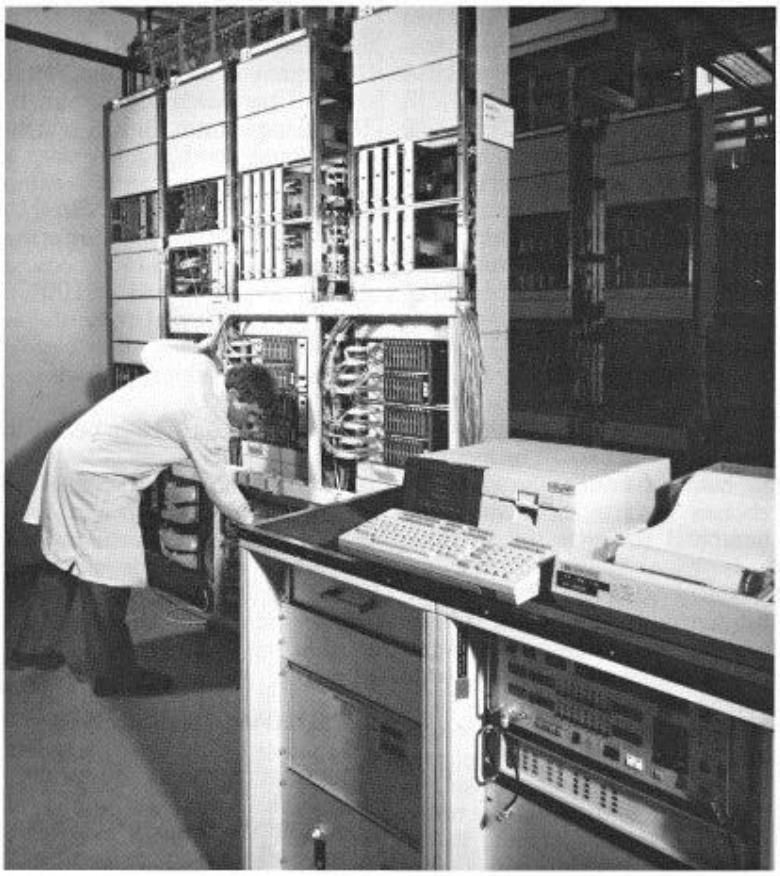
The system, which represents an important change in technology and concept for communications, was designed, installed and commissioned by Marconi Communication Systems. UKMACCS will be controlled from the Primary Coastal System Control (CSC) at Whitehall Naval Communications Centre in London by remotely controlling transmitters and receivers situated in northern and southern coastal regions. The system provides gapless radio coverage between ships and shore HQ out to a range of 200 nautical miles. There is also a Secondary System Control situated at HMS Forest Moor in Yorkshire. During recent operational trials, UKMACCS proved successful in providing additional centralised radio and telegaphic facilities.

UK's big four use Marconi's ACE

The four largest network operators in the country have chosen Marconi Communication Systems' automatic cross-connect equipment (ACE) to provide network management facilities and increase the flexibility and efficiency of their networks. ACE is already in service with British Telecom and Mercury Communications. Now the cellular network operators Cellnet and Racal Vodafone have ordered Marconi's automatic cross-connect equipment valued in total at approximately £1m.

A total of eight ACEs will be installed by Marconi engineers at Cellnet and Racal Vodafone telephone exchanges nationwide, the first Cellnet ACE being installed at Birmingham and the first Vodafone system at Warrington, Cheshire.

Commenting on the significance of these orders, Brian Ackroyd, marketing manager in Marconi's Line Division said: 'These orders are the result of persistent efforts in marketing to private systems and we are confident that other areas of this marketplace will open up to us in the future'.



Marconi ACE on test in Chelmsford factory

Eddystone Radio wins Greek fm order

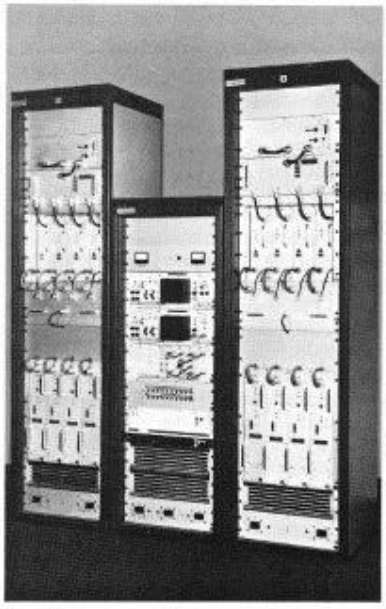
Eddystone Radio Limited, the Birmingham-based division of Marconi Communication Systems Limited, has won an order to supply the first commercial radio station in Greece with v.h.f /f.m transmitting equipment. The station, to be known as 'Top FM', is to be located on Mount Parnis to the North West of Athens at a height of 1200 metres. It will serve listeners in the Athens/Piraeus basin, an area with a population of some 2.5 million people.

The station is owned and will be run by ART SA, part of the LAMBRAKIS Group of newspaper publishers. The group owns the national daily 'Ta Nea' as well as a Sunday paper and three weeklies.

The equipment to be supplied by Eddystone comprises 4kW solid-state stereo f.m transmitter model 1708 and studio-to-transmitter link equipment. The studio is to be built and equipped by the Lambrakis Group which will also install the fm transmitter under Eddystone supervision.

The order was won against competition from other European suppliers and is the first for a series of commercial stations currently being planned in Greece by the Lambrakis organization.

The transmitter is modular in design, giving reliability with a high degree of redundancy. Eddystone Radio has sold over 200 of these transmitters to the British Broadcasting Corporation and the Independent Broadcasting Authority, and they are also in use in many parts of the world. The Company manufactures a range of transmitters based on common modules from 15W to 4kW output.



Another Marconi first with BTI

Over the next few years the world's major satellite earth stations will be engaged in an updating programme to convert to the Intermediate Data Rate (IDR) system of operation for which special modems are required to carry the digitized traffic.

British Telecom International is the first organization in the world to start the conversion, using the new Marconi modems which initially will be used for experimental transmissions with COMSAT in the USA.

The modems were designed by Marconi Communication Systems and are an extension of the company's range of International Business Services (IBS) and Satellite Multi Services (SMS) digital equipment for INTELSAT and EUTELSAT business services which are already in operation with worldwide organizations.

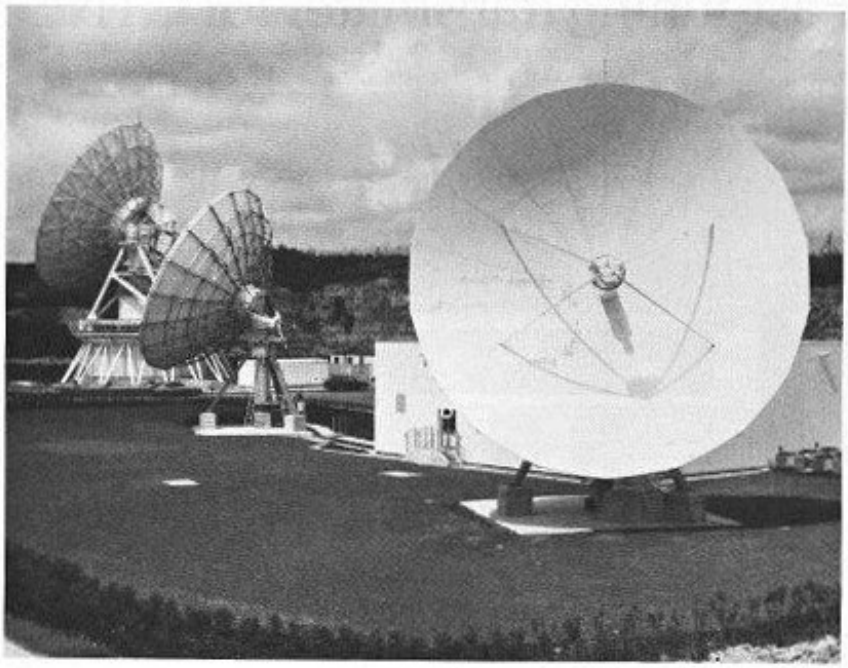
The IDR modems are equipped for 2·048Mbit/sec data rate and have a self-contained 3/4 rate VITERBI FEC CODEC.

Mercury buys Marconi again

Marconi Communication Systems has recently been awarded a contract for the supply of two Intelsat Standard A terminals to be installed at the Mercury Communications Satellite Earth Station at Whitehill, Oxfordshire.

The terminals are to be installed and ready for service early in 1988 and will extend the services already being provided by Mercury from this site. They will be used to communicate with the Far East and the USA via the Indian Ocean and Atlantic Ocean satellites.

The award of this contract reconfirms the position of Marconi as a world leader in the field of satellite communications and continues the company's association with Mercury at the Whitehill station, where there are already three other terminals for which Marconi was the prime contractor.



The three existing antennas at Whitehill