

## Marconi links the rigs

North Sea oilmen in the Brent oilfield will soon be able to telephone each other, thanks to new equipment now being installed by Marconi engineers.

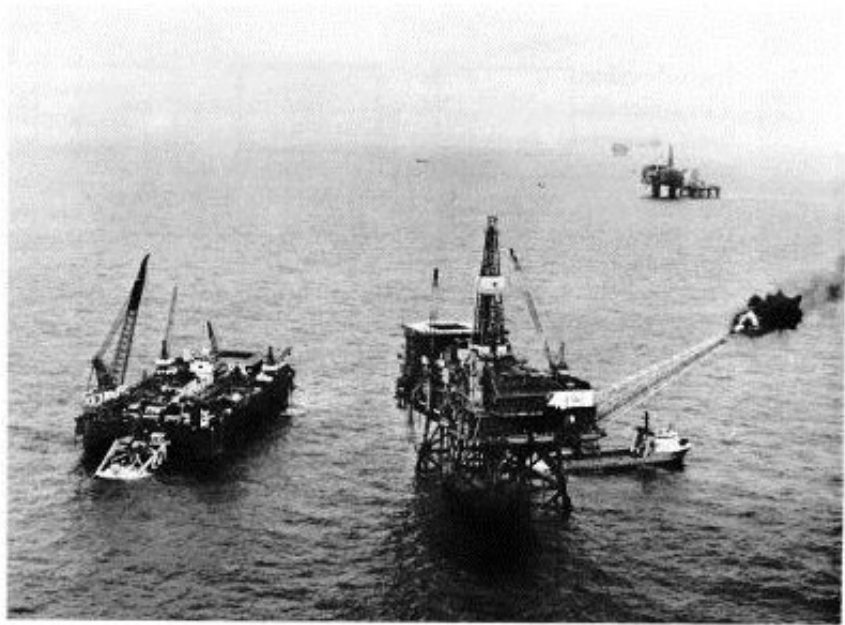
Shell (UK) Ltd placed a contract valued at over £300,000, with the Marconi Communication Systems, for the installation of radio equipment that will establish a communications link between offshore production platforms and additionally connect back to the mainland.

Under the terms of this contract, Company engineers will be installing equipment, supplied by Marconi through a previous £1.3 million order, in two phases. Phase one will be to link Dunlin and Brent A, B and D to each other by line-of-sight radio equipment and also to connect Dunlin to BNOC's Thistle platform, which has a troposcatter link relaying back to the new Post Office terminal in South Shetland. Phase two will be to connect Brent C and Cormorant into the system and establish a line-of-sight microwave link between Cormorant and Thistle.

When finally finished there will also be a troposcatter link from Cormorant to South Shetland and the line-of-sight microwave link between this platform

and Thistle will complete the triangulation for alternate path operation. Antennas, transmitters, receivers and

other equipment for the Post Office troposcatter stations were also supplied by Marconi Communication Systems.



*The Brent field*

## Marconi export more naval communications equipment

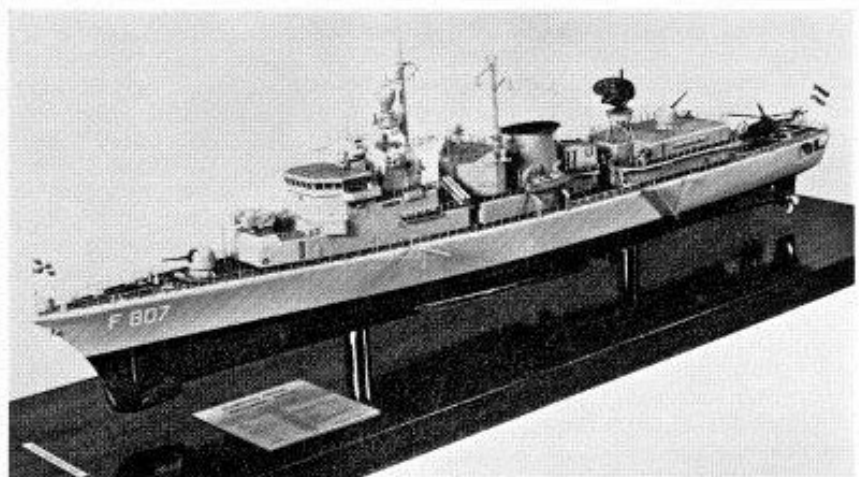
### Royal Netherlands Navy increases its order to £12 million

The Royal Netherlands Navy has placed another order for communications equipment with Marconi Communication Systems, bringing the total order value to £12 million.

This latest £4 million order is for the supply of transmitting and receiving systems to be installed in a further four of the RNLN Kortenaer class frigates. Marconi is already supplying identical equipment for eight other ships of this class, the first of which started sea trials in April of this year.

The delivery dates for the new equipment start in mid-1980 and will be phased to meet the building programmes of the Dutch shipyards 'Rhine-Schelde Verolme' and 'Wilton-Fijenoord'.

The overall system uses techniques and hardware similar to that which was evolved in the development of the Royal Navy's latest communications systems ICS3, suitably modified to suit the requirements of the RNLN. When completed two NATO navies will have



*Model of Kortenaer class frigate*

similar communications systems allowing for a standardization of operation and logistic support.

The system provides a voice, telegraphy and data communications capability covering ship-to-ship, ship-to-shore and ship-to-air services and

interfacing with the tactical internal communications. Supervisory control and monitoring facilities fitted in a centralized position provide for frequency and transmitter power selection, monitoring of equipment readiness and circuit performance checking.

## £500,000 mobile radio order

An order worth over £500,000 has been placed with the Mobile Radio Division of Marconi Communication Systems by Hotpoint Limited, who manufacture and supply domestic appliances.

The contract, for a nationwide radio communication system between service engineers and area service depots, was won in open competitive tender and is believed to be one of the largest single commercial orders for mobile radio equipment ever placed in the United Kingdom.

Nearly 900 service engineers will be linked by over 50 base stations to 41

depots via radios installed in their vehicles. The radios will be used to pass information to and from field service engineers and service offices.

The type of radio to be used is a single channel RC625 v.h.f.f.m mobile, with an internally mounted facilities board. Facilities to be fitted include Selcal, Automatic Vehicle Identification and Job Identification. In areas where multi-station schemes are necessary, Marconi are fitting their new five-station voting unit with automatic selection of receivers and transmitters. The schemes will be controlled from 41

depots each using Marconi's new remote-control equipment, the display of which will be fitted with a memory store.

Base stations will be type RC731 v.h.f controlled over Post Office land-lines, and a total of over 50 remotely-sited stations will be used.

It is expected that the complete system will handle up to 10,000 message exchanges a day, and is calculated to make substantial savings in telephone charges, man hours and fuel.



*The pilot scheme operating at Hotpoint*

## Post Office contract for Eddystone Radio

Eddystone Radio Limited has been awarded a major contract to manufacture and supply the Post Office with receivers for use by its Radio Interference Service. This contract, which was won in the face of fierce competition, calls for the production of over 200 radio receivers Type 40A.

The receiver is a portable single conversion super-heterodyne which covers the frequency range 130kHz to 32MHz

and can be operated from either mains or battery supplies. Special design features have been incorporated within the receiver which permit it to measure impulsive and quasi-impulsive noise in accordance with the provision of British Standard 727. It is therefore suitable for measurements in connection with the EEC Directives relating to radio interference.

With the introduction of new regu-

latory powers governing the acceptable level of radio frequency interference that may be generated by all electrical appliances, the receiver Type 40A will provide the Post Office Radio Interference Service with a specialist equipment to trace and measure electrical noise.

## New Marconi line-of-sight equipment

A new generation of microwave line-of-sight communications equipment, the H7200, from Marconi Communication Systems made its first public appearance at Communications '78 this April. Designed for use in both single or multi-hop communications networks the compact unit can operate in single or dual diversity systems and is ideally suited for the demanding service availability of modern communication networks.

The H7200 Radio Relay equipment, operating within the 1700-2300MHz frequency band with standard channel capacities of 24, 72, 132 or 300, is designed to British Post Office requirements RC4030 and to meet full CCIR recommendations. Designed as a fully-duplicated equipment, two transmitters, two receivers, engineer's order wire, duplexer and twin power supplies are housed in one unit 180mm (7in) high, 480mm (19in) wide and 410mm (16½in)

deep for shelf or rack mounting.

Completely solid state with low power consumption - nominally 100W - the equipment can be operated from batteries or standard a.c mains supplies. Comprehensive monitoring and alarm facilities are provided to enable the operator to establish quickly the operational state of the equipment. Digital readouts of transmit power, receive signal level and voltages are an inbuilt feature of the equipment.



*H7200 Line-of-sight equipment*