RESEARCH DEPARTMENT

KILVEY HILL U.H.F. RELAY STATION: SUMMARY OF INSTALLATION

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U.H.F. RELAY STATIONS: SUMMARY OF INSTALLATION

NAME: 106.1 KILVEY HILL

TRANSMISSIONS COMMENCED: (TRADE) 3.2.68 (SERVICE) 17.2.68

SITE DATA
LOCATION: SWANSEA
GRID REFERENCE: SS 672940
HEIGHT, a.o.d.: 193 m (632 ft)

FREQUENCIES
BAND: IV
CHANNELS: 23, 26 (BBC-2)
29, 33 (BBC-1)

TRANSMITTERS
TYPE: Marconi Klystron 1 kW
OPERATING POWER: (1) 0.199 kW
(2) 0.795 kW

TRANSMITTING AERIAL
TYPE: BBC Standard Cardioid

RADIATING LENGTH: 16λ
H.R.P.: Fig.1
V.R.P.: Fig.2
MEAN HEIGHT: 50.8 m (166 ft 6 in)

NOTES: (1) Initial power
(2) Power increase when Station No. 132, East Devon comes into operation.
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Fig. 1. Horizontal radiation pattern
VERTICAL POLARIZATION

--- Transmitter power 0.199 kW
Mean E.R.P 1.6 kW

--- Transmitter power 0.795 kW
Mean E.R.P 6.3 kW

--- Stockholm E.R.P limit

Unit field corresponds to an E.R.P of 10 kW
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Fig. 2. Vertical radiation pattern

- - - - 475MHz
- - - - 528MHz
- - - - 580MHz

----- Specified minimum field