



BBC

Engineering Information Service

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BBC DROITWICH 200-kHz TRANSMISSIONS

Carrier frequency stability

The frequency of the Droitwich high-power 200-kHz transmitter is controlled by a rubidium gas cell standard supplied by the National Physical Laboratory. This has a day-to-day stability of better than 1 part in 10^{11} and the frequency is maintained within ± 2 parts in 10^{11} of nominal, referred to the caesium beam frequency standard at the NPL.

The phase of the received 200-kHz carrier is monitored continuously at the NPL during the hours of transmission and the values of mean daily frequency are published monthly in the technical press. They are also available on application to The Director, National Physical Laboratory, Teddington, Middlesex.