TERMS & CONDITIONS
NON-DIRECTIONAL BEACON ("NDB") SERVICES

1 SERVICE PARTICULARS

Service Required:	NDB Services

2 THE PROVISION OF THE SERVICES

2.1 In consideration of the Customer being bound by the Contract, NATS shall provide NDB Services to the Customer on a Working Day, between the hours of 08:00 – 16:00, as follows:

2.1.1 Off Air Monitoring Services: NATS shall measure the parameters (detailed below) of the Customer's non-directional beacon(s) once during each calendar month for the period of the Contract. The results of measurements shall be sent to the Customer each month in writing. Any parameters found out of tolerance shall be reported to the Customer in writing. The Service shall be carried out by NATS at a measurement site, as appropriate, unless specifically agreed otherwise.

2.1.2 Ad-hoc Monitoring Service: NATS shall measure the parameters (detailed below) of the Customer's non-directional beacon(s). The results of measurements shall be sent to the Customer in writing. Any parameters found out of tolerance shall be reported to the Customer in the first instance in writing. The Service shall be carried out by NATS at a measurement site, as appropriate, unless specifically agreed otherwise.

2.1.3 Beacon Commissioning Service: NATS shall measure the Field Strength of the Customer's non-directional beacon at a number of locations but not less than six at the beacons Distance Of Coverage (DOC). These results shall be sent to the Customer in the form of a detailed report. Any parameters found out of tolerance shall be reported to the Customer in the first instance by telephone. The Service shall be carried out by NATS using mobile monitoring equipment, as appropriate, unless specifically agreed otherwise.

Measured parameters referred to in paragraph 2.1

The measured parameters are, as far as possible, in accordance with the Standard Operating Parameters in the Commissioning and Maintenance Requirements of CAP 670 Nav 02 as issued and amended by the CAA Safety Regulation Group, but measurement of Spurious Emission and Unwanted Modulation is not covered by the Contract. The parameters measured are as follows:

A) Carrier frequency (annual & ad-hoc only)

B) Modulation frequency (annual & ad-hoc only)

C) Modulation Depth (annual & ad-hoc only) (see Note 1)

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D) Field Strength (all services) (see Note 2)

E) Change of Carrier Power during Modulation (annual & ad-hoc only)

F) Verification of correct Identification (all services)

Note 1: Modulation Depth is normally assessed when coding. A more accurate measurement can be made, if required, during beacon maintenance if the beacon is made to radiate a continuous "mark".

Note 2: The Field Strength of a NDB is defined at the limit of its rated coverage. This is measured by NATS staff using mobile equipment, comparing this with the Field Strength measured at one of the following three stations being Pailton, Pisgah or Hill of Troup. This procedure establishes the Field Strength expected against one of these three sites when the Field Strength of the beacon is correctly set. The figure is verified periodically by further measurements.

Tolerances referred to in paragraph 2.1

The Customer will be informed if any of the above parameters are measured and found to be outside the allowable tolerances given in the Standard Operating Parameters of CAP670 Nav 02 as issued and amended by the CAA Safety Regulation Group. The current tolerances are as follows:

A) Carrier Frequency: Assigned frequency +/- 0.01%

B) Modulation Frequency: 400Hz +/- 25Hz

C) Modulation Depth: As near to 95% as practicable so as to ensure a signal to noise ratio of greater than 6dB at the limit of rated range

D) Field Strength: As set at commissioning +2dB / -3dB

E) Carrier change during Modulation: The carrier power shall not fall by more than 0.5dB when the identification signal is being radiated.

3 CUSTOMER OBLIGATIONS

3.1 It is the Customer's responsibility to ensure readings are within the aforementioned tolerances. The Customer shall provide NATS with written details of any changes to the approved operating conditions of the non-directional beacon(s).

4 NATS CONTACT DETAILS

Manager Base Support Services

Tel: 01489 444763 (Working Day during the hours of 08:00 – 16:00)

Email: NDBinfo@nats.co.uk

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