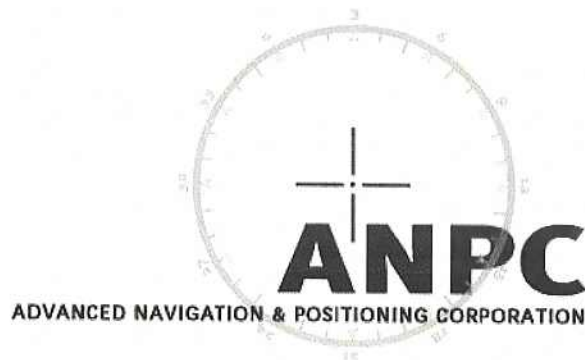


**RESPONSE TO
REQUEST FOR INFORMATION
FCC FILE NO. 0237-EX-PL-2006
REFERENCE NO. 4711**



February 7, 2007

Originator:	John Church
Approver:	
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SECTION 2: REQUESTED PARAMETERS

2.1 NGT Numbers

108.35 NG T070155333.95 NG T0701561030 NG T0500701090 NG T050071

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2.2 Peak Envelope Power (PEP)

- VHF input 2 W P.E.P.
- UHF input 5 W P.E.P.

2.3 Type of Antenna

- VHF is Poynting Innovations Localizer Antenna with Monitor
- UHF is Poynting Innovations Glide Slope Antenna with Monitor
- Interrogator (1030 MHz) is DBs Systems 610 DME.
- Cal/BIT (1090 MHz) is DBs Systems 610 DME.

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2.4 Transmit Antenna Gain

- VHF: 4 dBi. Antenna is highly directional with beamwidths $\pm 35^\circ$ azimuth, 1° to 7° vertical.
- UHF: 7 dBi. Antenna is highly directional with beamwidths $\pm 8^\circ$ azimuth, 1° to 7° vertical.
- Interrogator (1030 MHz): 6.3 dBi. Antenna is highly directional with beamwidths $\pm 35^\circ$ azimuth, 1° to 20° vertical.
- Cal/BIT (1090 MHz): 6.3 dBi. Antenna is highly directional with beamwidths $\pm 35^\circ$ azimuth, 1° to 20° vertical.

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2.5 Site Elevation

The site is at 240 feet MSL

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2.6 Antenna Height Above Ground

- VHF: 27'
- UHF: 10' 5"
- Interrogator: 4'
- Cal/BIT: 4'

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2.7 Antenna Polarization

- VHF: Horizontal
- UHF: Horizontal
- Interrogator: Vertical

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- Cal/ BIT: Vertical

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2.8 Antenna Orientation

The interrogator and UHF, VHF directional antennas are oriented towards 88°T. The directional cal/BIT antenna is ~500 feet in front of the system and oriented toward 268°T.

2.9 Pulse Repetition Rate (PRR)

The PRR does not exceed 10 Hz. The system is not interrogating at all when it is not providing guidance to an aircraft.

2.10 Pulse Characteristics

- The interrogator transmits P1, P3 and an optional P2 pulses with a pulse width of 0.8 μ s.
- The cal/BIT transmits a single pulse with a pulse width of 0.45 μ s.

2.11 Sector Blanking

This product is directional and does not incorporate sector blanking.

2.12 Radius of Operations

The system is fixed based.

2.13 Technical Operation Description

2.14 Use of 1090 MHz Transmissions

During a cycle, the cal/BIT transmits a single pulse on 1090 MHz. The cal/BIT antenna is located about 150 meters in front of the receive arrays. This pulse is used as a reference signal.

2.15 SSR 1030 MHZ Modes Utilization

This equipment currently utilizes an interlacing of Modes 3A and 3C. Utilization of Mode S is in the future development path.