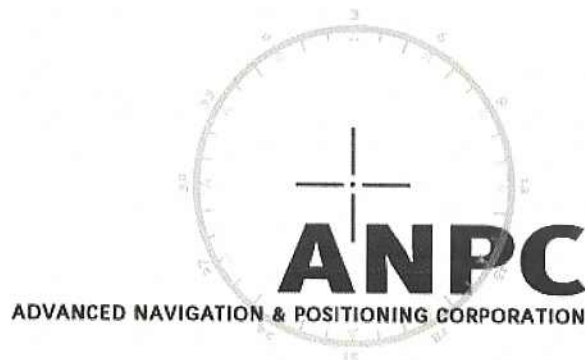


**RESPONSE TO
REQUEST FOR INFORMATION
FCC FILE NO. 0237-EX-PL-2006
REFERENCE NO. 4711**



February 7, 2007

Originator:	John Church
Approver:	
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SECTION 2: REQUESTED PARAMETERS

2.1 NGT Numbers

108.35 NG T070155

333.95 NG T070156

1030 NG T050070

1090 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.

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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.

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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.

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2.11 **Sector Blanking**

This product is directional and does not incorporate sector blanking.

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2.12 **Radius of Operations**

The system is fixed based.

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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.

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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.