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May, 2004

FAA, Spectrum Engineering Division
800 Independence Ave. SW.
Washington, DC 20591

Dear Sir,

The intent of this letter is to advise your agency that Narco Avionics Inc. Is applying for FCC certification of the Type AT165 Transponder Equipment. The AT165 uses the same transmitter as the previously approved AT155 (FCC ID A9SAT155)

Listed below is the information required by your agency:

Manufacturer:	Narco Avionics Inc. 270 Commerce Drive, Suite 200 Fort Washington, Pa 19034
Type Number:	AT165
FCC ID:	A9SAT165
Antenna Characteristics:	Rod type antenna which is $\frac{1}{4}$ wave length at 1090Mhz.
Rated Power out:	125 watts minimum at antenna end of transmission line.
Maximum Power Rating:	300 Watts at the AT165 RF connector. With 2dB of cable loss this would translate to 190 Watts at the antenna (+23dbW)
Transmitter Frequency:	1090Mhz
Type and Character of Emission:	Pulse type modulation. FCC designation – M1D

Transmitter Occupied Bandwidth: 14Mhz (99% of radiated power)

Emission Masks: See attached measurements from the FCC report.

Receiver Characteristics: Receiver center frequency 1030Mhz.
Bandwidth at 60db points $\pm 25\text{Mhz}$

Purpose: The AT165 transponder is used for receiving ATC interrogations and replying to same, both for aircraft identification and altitude data.

The AT165 will be TSO'd. The application for TSO will be filed with the NYACO.

Very Truly Yours,



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