

Douglas Young

From: Wisneski, Henry [henry.wisneski@baesystems.com]
Sent: Wednesday, May 07, 2003 12:31 PM
To: Jeffrey Kam; Douglas Young
Cc: Tremblay, Randal P
Subject: RE: FW: Low-Level Test Transmissions

Importance: High

Mr. Kam and Mr. Young:

> I have previously filed a request for an experimental license for
> transmissions from an aircraft in the area of Danbury, NH. My file
> number is 0101-EX-ST-2003. Mr. Young has informed me that my request
> is one frequency short of complete approval. (A change was requested
> on this one frequency last week.)
> Unfortunately, in my request, I neglected to include the need to
> perform EMI checks on the ground before the aircraft takes off with the
> new equipment. On previous flight programs from military facilities, this
> was handled by their support group. I find that I need to request some
> additional transmission authorizations for Friday, 9 May. As the attached
> notes show, I have requested and received approval from the local
> (Manchester, NH) FAA to perform these tests. However, FCC authorization
> is required.

I am requesting approval for the following tests, to be performed one time only at our Manchester airport facility. These are the highest priority signals. Note that these transmissions are already part of the transmissions authorization approved for our use, but transmitting from near Danbury, NH. This request would extend the region of use for these transmissions for one time only.

> (2.) Unmodulated VHF transmissions of single-channel signals, at
> less than 10 W into the quarter-wave monopole antennas mounted on the
> bottom of the aircraft. These transmissions would be performed at
> 27.005 MHz, 30.500 MHz, 38.270 MHz, and 41.970 MHz. Each transmission
> would last no more than several seconds. The transmissions would be
> repeated approximately 20 times. (The 27.005 MHz signal is an addition
> to the three VHF signals discussed this morning.)

> (3.) VHF transmissions from a SINCGARS transmitter, hopping in the
> range of 30 - 54 MHz. Transmitted power would be less than 4 W into
> the quarter-wave monopole antennas mounted on the bottom of the
> aircraft. Each transmission would last no more than several seconds.
> The transmissions would be repeated approximately 20 times.

> Additionally, one time permission for Friday, 9 May to perform the
> following transmissions to verify system operation would be appreciated.

> (1.) Network analyzer (unmodulated) transmissions at -10 dBm at
> the following frequencies. (All transmissions are already part of the
> transmissions authorization approved for our use, but transmitting
> from near Danbury, NH. This request would extend the region of use for
> these transmissions for one time only.)

30.1 MHz, 30.5 MHz, 32.13 MHz, 32.93 MHz, 34.13 MHz, 34.93 MHz, 36.13 MHz,
36.87 MHz, 38.27 MHz, 40.23 MHz, 41.97 MHz, 142 MHz, 143.9 MHz, 148.1 MHz, 150.7 MHz,
225.1 MHz, 227.1 MHz, 245 MHz, 247 MHz, 265 MHz, 267 MHz, 285 MHz, 287 MHz, 305 MHz, 307
MHz, 325 MHz, 327 MHz, 345 MHz, 347 MHz, 365 MHz, 385 MHz, 387 MHz, 405 MHz, 407 MHz, 418
MHz, 419 MHz.

> Finally, as part of the aircraft EMI check, one transmitter will not
> be installed on the aircraft during the initial EMI check on Friday, 9
> May, but will be installed on Monday, 12 May. To perform the EMI
> ground check on this transmitter, I would like to request:

> (5.) UHF transmission centered at 304.25 MHz, spread across a 1.1-MHz
> bandwidth, at approximately 20 W into one quarter-wave monopole
> antenna mounted on the bottom of the aircraft. This transmission
> should last several seconds, and be repeated approximately 5 times.
> (This is the frequency change requested of the FCC last week. If that
> frequency request is granted at a different frequency, this frequency
> should be changed to the same one.)

> Thank you for your prompt attention.

> I will follow this e-mail with a telephone call to ensure its
> delivery.

> Thanks,

> Henry J. Wisneski

> BAE SYSTEMS

> 603-645-5663 (Hangar)

> -----Original Message-----

> From: william.g.decoste@faa.gov [SMTP:william.g.decoste@faa.gov]

> Sent: Tuesday, May 06, 2003 3:11 PM

> To: Wisneski, Henry

> Cc: donna.betz@faa.gov

> Subject: Re: FW: Low-Level Test Transmissions

> Henry,

> I was just informed that all of your test requests are approved,
> that our "Other" offices are advised, and have the "Stop buzzer"
> number. Good luck with your testing, please let me know the same way
> if you do it in the future, and I'll coordinate in similar fashion.

> Bill DeCoste

> "Wisneski, Henry"

> <henry.wisneski@baes

To: William G

> Decoste/ANE/FAA@FAA

> systems.com>

cc:

Subject: FW: Low-Level

> Test Transmissions

05/02/03 03:10 PM

> > -----Original Message-----

> > From: Wisneski, Henry

> > Sent: Thursday, May 01, 2003 1:32 PM

> > To: 'john.m.esdale@faa.gov'; 'james.f.tuttle@faa.gov'

> > Cc: Mabie, Charles R; Tremblay, Randal P; Gates, Vernon C;

> Schmitt,

> > Joseph W; Dufour, David C

> > Subject: Low-Level Test Transmissions

> > Importance: High

> >
> > Bill Decoste, Joe Esdale, Jim Tuttle
> > Gentlemen:
> > Thanks for the productive meeting this morning. Your
> cooperation is
> > really making our efforts easier.
> > The transmissions described below are planned for Friday,
> > 9
> May 03.
> > We will only transmit during the following hours: 0930 - 1130, 1300
> > - 1530, and after 1700 hrs. All periods of transmission will be
> coordinated
> > by a call to your office at 666-7552 or 666-7580 at least 15 minutes
> > before any signals are transmitted. That call will also confirm the
> STOP
> > BUZZER contact number.
> > The planned STOP BUZZER contact number is 645-5593. The
> responsible
> > manager at the hangar is Dave Dufour.
> >
> > I described three transmissions scenarios we will be
> performing at
> > our hangar (the Tyco hangar). These are listed below.
> > 1. Network analyzer output sweeps from 27 MHz to 450
> MHz, at
> > -10 dBm into the quarter-wave monopole antennas mounted on the
> > bottom of the aircraft. A typical transmission test would last no
> > more than
> several
> > seconds. We would perform approximately 30 such tests, measuring
> > the delay between all possible pairs of our installed antennas. (A
> > decrease in transmitted power can be arranged by a call to the STOP
> > BUZZER listed
> > above.)
> > 2. VHF transmissions of single-channel
> (approximately
> 6-kHz
> > bandwidth) signals, at less than 10 W into the quarter-wave monopole
> > antennas mounted on the bottom of the aircraft. These transmissions
> would
> > be performed at 27.005 MHz, 30.500 MHz, 38.270 MHz, and 41.970 MHz.
> Each
> > transmission would last no more than several seconds. The
> > transmissions would be repeated approximately 20 times. (The 27.005
> > MHz signal is an addition to the three VHF signals discussed this morning.)
> > 3. VHF transmissions from a SINCGARS transmitter,
> hopping in
> > the range of 30 - 55 MHz. Transmitted power would be less than 4 W
> > into the quarter-wave monopole antennas mounted on the bottom of the
> aircraft.
> > Each transmission would last no more than several seconds. The
> > transmissions would be repeated approximately 20 times.
> >
> > I would appreciate a return e-mail confirming these
> transmission
> > plans are acceptable.
> >
> > Two additional requests have been raised for additional
> tests.
> > Please let me know if these can be performed as well.
> > 4. VHF sweeps approximately +/- 10 MHz around the
> VHF
> > transmissions described above at 27.005 MHz, 30.500 MHz, 38.270 MHz,
> > and 41.970 MHz. These sweeps would be transmitted at approximately
> > +24 dBm. Each transmission would last no more than several seconds.
> > The transmissions would be repeated approximately 20 times.

