

From: Henry Wisneski

To: Doug Young

Date: April 04, 2003

Subject:

Request for Info - STA File # 0101-EX-ST-2003

Message:

Mr. Young:

□ I apologize for the confusion. MOA in this case is a Military Operating Area. The YANKEE ONE & TWO MOAs are restricted airspace in central New Hampshire. We were directed to use a MOA for our test flights, but coordinating access to the MOAs near our facility is more difficult than previously supposed. Access to the YANKEE MOAs is controlled by a USAF fighter wing, and there are high blocks and low blocks through which air traffic must be scheduled. Rather than fly over these MOAs, I would now like to set up to fly a racetrack pattern approximately between Danbury, NH and Claremont, NH. My ground site would be south of this area, possibly on top of Mt. Kearsarge (if the road up is open by May and if my desired frequencies do not interfere with operation of any of the antennas already there), or in the rest area on the south side of US89, north of Warner, NH.

Our test program consists of several separate elements.

□ First, we need to measure the coupling between our on-board antennas. For this test, from the aircraft, we transmit a sweep or a number of closely spaced (<2 MHz) frequencies at low power levels, at approximately -10 dBm. The total test takes less than 2 hours, but much of that is set up time. Actual transmit time should be much less.

□ Second, we transmit fixed VHF frequencies (e.g., 30.500 MHz) and sweep over the 20.5 - 40.5 MHz range at +10 dBm. This is repeated from several antennas. This test takes less than 2 hours, but much of that is set up time. Actual transmit time should be much less.

□ Third, we transmit from the ground at our assigned VHF (6K00F3E) and CB (6K00A3E) frequencies and verify our receivers in the air can detect the signals. While we are doing this, we can transmit a signal (F1D-hopping) from our on-board SINCGARS transmitters so we can measure the effects of these transmissions on our operation. This test should take less than 2 hours.

□ Fourth, we transmit from the ground to the aircraft with one of our assigned VHF (6K00F3E) and CB (6K00A3E) frequencies, and we transmit back to the ground, again at one of our assigned VHF (6K00F3E) and CB (6K00A3E) frequencies. While we are doing this, we can transmit a signal (25K0F1D-hopping) from our on-board SINCGARS transmitters so we can measure the effects of these transmissions on our operation. This test should take less than 2 hours.

□ Fifth, we transmit a JTRS-2C waveform (1M10G1D) between the ground site and the aircraft. This test should take less than 1 hour.

□ Some of the test elements may be repeated, but the total expected flight time is 10 to 16 hours.