

October 23, 2002

Federal Communications Commission
Office of Engineering and Technology

Application Filed Via OET Laboratory Electronic Filing Site
<https://gulfoss.fcc.gov/prod/oet/index.html>

Re: Equipment Authorization Under Part 87
Certification
HST-900 High-Speed Transceiver
FCC ID: AJK8221772

In accordance with the requirements of the Federal Communication Commission Rules and Regulations, Rockwell Collins, Inc. hereby notifies the Federal Communications Commission of **additional testing information** for its certification application for the Rockwell Collins HST - 900 High Speed Data Transceiver.

Figure 8 of Section 3.6 "Occupied Bandwidth", measured the bandwidth which contained 99.5% of the transmitted energy. However, 47CFR 87.135(a), defines the Occupied Bandwidth as "the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to 0.5 percent of the total mean power of a given emission." For a symmetrical spectrum, the proper test equipment settings should have been established as 99.0% of the transmitted energy. This error resulted in an occupied bandwidth measurement greater than if measured properly.

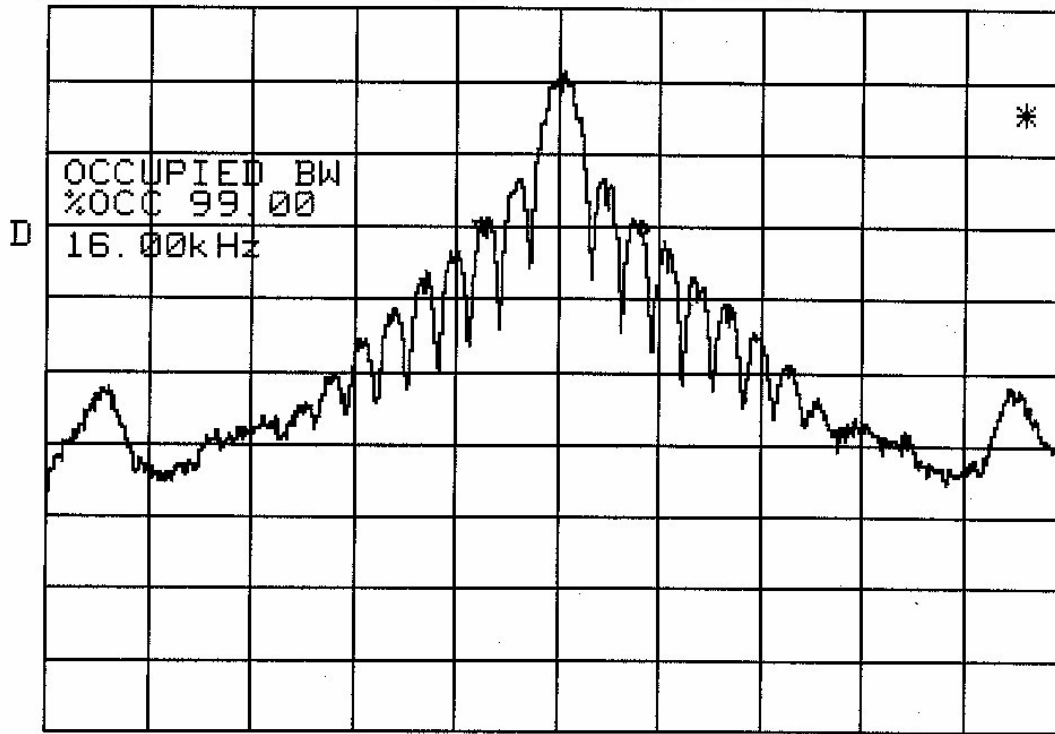
Rockwell Collins requests that the attached spectrum plot replace the spectrum plot contained as Figure 8 in Section 3.6.2 of our original submission. In addition, we request that the text of Section 3.6.3 be replaced with the following text to accurately reflect the new measured data.

3.6.3 Test Results Discussion:

The 3000 bps signaling channel has an occupied bandwidth measured at 16.00 kHz. This is within the 25 kHz Authorized Bandwidth specified in 87.137 for aircraft earth stations using G1D emissions.

The 134400 bps 16-QAM user data channel has an occupied bandwidth measured at 39.84 kHz. This higher data rate class of emission (D1D, D1E, D1W) and associated occupied bandwidth is not accommodated by the table of 87.137. Rockwell Collins intends to submit a Request for Waiver to accommodate the new emission type utilized by the INMARSAT Swift64 service and their associated occupied bandwidths.

ATTEN 10dB VAVG 100 ΔMKR 1.16dB
RL 0dBm 10dB/ 21.5kHz



CENTER 1.6435000GHz SPAN 100.0kHz
*RBW 300Hz VBW 300Hz SWP 2.80sec

HST 900 SN 1002 Date: 08 Oct 2002

R. Young, R. Tomar, W. Li, R. Chen

Occupied BW

Please direct any questions regarding this filing to Mr. Joe Cramer, (703) 516-8213.

Respectfully Submitted,

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cc: Federal Communications Commission