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USA

Raytheon Aircraft

Beech
Hawker

Raytheon Aircraft Company
B-99 Annex
PO Box 85
9709 East Central
Wichita
KS67201-0085
Attention:

Subject: STA Request 0142-EX-ST-2002

Dear Sir,

This letter is written in support of an application request for Special Temporary Authorization (STA) 0142-EX-ST-2002. This STA is required to perform High Intensity Radiated Field (HIRF) tests per the European and United States aircraft certification authorities (JAA and FAA) on two Raytheon Aircraft corporate jets over a six-month period. The test details may be accessed on the FCC web site under the STA 0142-EX-ST-2002. It should be stressed that the frequencies listed are discrete frequencies, and each frequency listed will be transmitted for a maximum of 1 second. The transmitter will then cease transmitting for approximately 1 second before transmitting at the next listed frequency. The frequencies listed are for continuous wave with no modulation. Frequencies used by emergency locator devices will be avoided.

Obtaining this STA is commercially important to Raytheon. This will allow HIRF testing on two of our corporate jets. The jet types are the Hawker 800XP with a new Collins Proline 21 avionics suite and the new Hawker Horizon. Raytheon Aircraft will be unable to sell the Hawker 800XP in Europe without first obtaining JAA certification on this product. Part of the JAA certification requires a successful HIRF test.

The HIRF testing on the Hawker Horizon is of a development nature. Successfully performing a HIRF test on this aircraft will allow Raytheon Aircraft to establish susceptibility levels that must be tolerated by critical components of the avionics and electrical system. These susceptibility levels will then be passed on to each equipment vendor. The equipment vendor will then design their components to meet the levels given. Delay in obtaining the STA application will delay susceptibility data to equipment suppliers and could delay completion of design and testing to support FAA certification and its placement in the aircraft market. The delay also has a potential for buyers to withdraw their order for the aircraft.

Raytheon Aircraft have applied for this license previously under STA 302-EX-ST-2001, unfortunately, this application was not adequately tracked and coordinated between Raytheon Aircraft and the FCC and has since expired. Raytheon Aircraft are planning to start HIRF testing in the first week of May, obviously this date is subject to Raytheon Aircraft obtaining FCC approval. While it is understood that obtaining approval for this STA is subject to approval by various government departments, Raytheon Aircraft would be very appreciative if the FCC could expedite this STA request as much as possible.

If you require any further details please do not hesitate to contact Steve Haycock, 316 676 6445.

Best regards,

Myrl Kelly
Manager III – Electrical Engineering