

From: Bertin Koala

To: Jose Trevino

Date: August 30, 2007

Subject: FCC file 0104-EX-ST-2007

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Message:

Yes we still need this license to continue lightning testing on aircraft and research. Please use start date as grant date of 09/01/07 and end date of six months from grant date (3/01/08).

This STA is required to conduct testing necessary to support airframe certification for induced lightning. The test data will be used to validate lightning indirect effects analytical models, and assure compliance with lightning requirements as specified in the following:

1. FAR 25.581, ?Lightning Protection?
2. FAR 25.1316, ?System Lightning Protection?
3. FAA issue paper SE-2, Boeing 777, ?Lighting Protection Requirements.?
4. FAA Special Condition #25-ANM-25, Boeing 747-400 & 747-400F, ?Boeing 747-400 Lightning and Radio Frequency Energy Protection.?

The test consists of a direct drive, swept CW transfer function test on a production aircraft. The different frequencies are swept and resonance is analyzed.