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**THE BOEING COMPANY**

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6Y-65

Mail Stop:  
P.O. Box 3707  
Seattle, Washington 98124-2207

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August 6, 1990  
4-7700-DLB-90-533B

Federal Communications Commission  
Experimental Radio Service  
Attn: Mr. Frank Wright  
P. O. Box 358320  
Pittsburgh, PA 15251-5320

Subject:           Application for Experimental Radio Station -  
Traffic Alert/Collision Avoidance system (T/CAS)  
Ramp Tester at Renton Municipal Airport

**FAA/NTSB SENSITIVE - TIMELY ACTION REQUIRED**

**LICENSE REQUIRED BY: OCTOBER 1, 1990**

- References:
- a. Stan Jenkins, this office, telephone conversation with Pete Holst, FAA Northwest Mountain Region, ANM-464H, August 3, 1990
  - b. Stan Jenkins, this office, telephone conversation with Tom Williamson, FAA T/CAS program office, July 31, 1990
  - c. Stan Jenkins, this office, telephone conversation with Marcus Stevens, FCC Aviation and Marine Branch, July 18, 1990
  - d. Stan Jenkins, this office, telephone conversation with you, July 17, 1990

Dear Mr. Wright:

The enclosed check and FCC Forms are submitted to obtain an Experimental Radio Station Authorization under part 5 of the Rules.

As explained, reference (d), this license is required to operate a new T/CAS Ramp Test device which, in addition to currently licensed Radionavigation Land Test (RLT) frequencies, operates on 1090 MHz, for which there are no provisions under Part 87 of the Rules. This equipment will be used to perform the system tests required for Initial and Follow-On Certification of aircraft as defined in FAA Advisory Circular Number 20-131 (Airworthiness and Operational Approval of Traffic Alert and Collision Avoidance Systems (T/CAS II) and Mode S Transponders), RTCA D.O. 185, and ARINC 735.

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We advised the FAA T/CAS Program office, reference (b), of the need to have the FCC Rules changed to permit the operation of T/CAS Ramp Testers on 1090 MHz. We also advised them of our intention to apply for this license as an interim measure to keep The Boeing Company T/CAS program milestones in keeping with those specified in the FAA Circular.

As recommended, reference (c), we pre-coordinated this application, with Pete Holst, FAA Northwest Mountain Region, reference (a), and obtained his preliminary verbal concurrence.

**In order to meet the first certification test date, we must have a license granted no later than October 1, 1990. Failure to have this license in place by this date will severely impact the Company's ability to meet the FAA mandated quota of T/CAS equipped and certified aircraft.**

Your expedited support of this request will be greatly appreciated. Should you require additional information, please contact Stan Jenkins at (206) 393-2914 or M/S 6Y-65.

*for Stan Jenkins*  
D. L. Barney  
Frequency Manager

STJ:sj

**Enclosures:**

Check Number: 006488

FCC Form 155

FCC Form 442 with Exhibits

cc: FAA Northwest Mountain Region, Seattle, WA, ANM-464H

Attn: Mr. Pete Holst

FAA T/CAS Program Office

Attn: Mr. Tom Williamson

FAA Frequency Management Office

Attn: Mr. Ken Thompson

FCC Aviation and Marine Branch

Attn: Mr. Marcus Stevens

Boeing T/CAS Program Office

Attn: Dave Yule R-6560 63-32