

RAYTHEON COMPANY
13510 North Central Expressway
Mail Station 17
Dallas, Texas 75243
Telephone: (972) 344-5560
Fax: (972) 344-5564

April 14, 1999
(AMENDED)

**CONFIDENTIALITY REQUESTED
UNDER SEPARATE COVER**

Mr. James Burtle
Chief, Frequency Liaison Branch
Office of Engineering and Technology
Federal Communications Commission
2000 M Street, N.W., MS 1300A3
Washington, D.C. 20554

c/o Mellon Bank
Three Mellon Bank Center
525 William Penn Way
27th Floor, Room 153-2713
Pittsburgh, PA 15259-0001
ATTN: Federal Communications Commission
Wholesale Lockbox Shift Supervisor

Experimental Radio Service
P.O. Box 358320
Pittsburgh, PA 15251-5320

Re: Request for a Special Temporary Authorization with Confidentiality

Dear Mr. Burtle:

On behalf of Raytheon Company d/b/a Raytheon Systems Company ("Raytheon"), and pursuant to Section 5.61 of the Commission's rules, 47 C.F.R. § 5.61, this is to request special temporary authorization ("STA") beginning **May 1, 1999**, to operate equipment described below, for a period of time not to exceed 180 days, in support of an experimental test. Additionally, Raytheon seeks confidential treatment of certain technical information contained in this request and any associated authorization pursuant to the provisions in Section 0.457(d) of the Commission's Rules. 47 C.F.R. § 0.459(d)(1998).

In accordance with Section 5.61 of the Commission's Rules, the following information is provided in support of this request:

1) Name and Address of the Applicant:

Raytheon Company d/b/a Raytheon Systems Company
13510 North Central Expressway
Mail Station 17
Dallas, Texas 75243

Technical Contact:

Robert Pearson, Manager — Electronic Systems
Telephone: (972) 344-5560
Facsimile: (972) 344-5564

Legal Contact:

David Hilliard
dhilliard@wrf.com
Kurt DeSoto
kdesoto@wrf.com
Wiley, Rein & Fielding
1776 K Street, N.W.
Washington, DC 20006
Telephone: (202) 719-7000
Facsimile: (202) 719-7207

2) Need for Special Action:

An STA is needed to test the functionality and capability of prototype equipment prior to filing for appropriate governmental approvals. It is requested that certain technical information contained in this request be treated as proprietary information. This information subject to this request is provided under separate cover.

3) Description and Purpose of Operation:

This equipment will be used as part of an experimental program to characterize the deletion and tracking capabilities of a modern technology radar.

4) Time and Dates of Operation:

Raytheon proposes operation under the STA beginning May 1, 1999, and ending October 31, 1999.

5) **Class of Station:**

Mobile.

6) **Location of Operation:**

The radar will be installed in a test aircraft and operated within a 120-km (75-mile) radius of Raytheon's test facility at McKinney, Texas, located at the following geographical coordinates: 33-12-58 N; 096-39-27 W (NAD 27).

7) **Equipment to be Used:**

The equipment is a proprietary experimental radar system designed and constructed by Raytheon. Only one units exists. No model number has been assigned.

8) **Frequencies Desired:**

80,000 MHz to 86,000 MHz
92,000 MHz to 105,000 MHz

Raytheon recognizes that the proposed operation must not cause harmful interference to authorized facilities. It therefore will coordinate its activities so that no interference will occur. Should interference occur, however, Raytheon will take immediate steps to resolve the interference, including, if necessary, discontinuing operation.

9) **Overall Heights of Antennas Above Ground:**

Raytheon will comply with all FCC and FAA antenna requirements. The antenna will be mounted not higher than 20 feet above ground, when the aircraft is not airborne, and in a manner that does not require FAA approval.

10) **Maximum Power:**

(REDACTED; information contained in and subject to request for non-disclosure).

11) **Type of Emission:**

(REDACTED; information contained in and subject to request for non-disclosure).

12) 47 C.F.R. § 1.2002 Certification:

Raytheon Company hereby certifies that it, its officers and directors, and any party with five percent or greater interest in this request for special temporary authorization is not subject to a denial of the Federal benefits requested herein pursuant to Section 5301 of the Anti Drug Abuse Act of 1988, 21 U.S.C. § 862.

Raytheon submits that issuance of an STA is in the public interest, convenience and necessity, as it will help Raytheon in developing an advanced radio system.

If you have questions, please call our counsel David E. Hilliard or Kurt E. DeSoto of Wiley, Rein & Fielding at (202) 719-7000.

Respectfully submitted,

/s/

Robert Pearson
Manager — Electronic Systems

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