

Raytheon

Request for Special Temporary Authorization

09 May 2000

Federal Communications Commission
Experimental Radio Service
P.O. BOX 35830
Pittsburgh, PA 15251-5320
ATTN: Mr. Carl Huie
(202) 418-2430
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166572K

Dear Mr. Huie:

This FAX correspondence is being sent to you to obtain a Special Temporary Authorization (STA) by 15 May 2000 (if possible). NOTE: This is the second submission for this STA, per your earlier conversation with Dr. Wilkinson our request has been amended. See: EIRP, Transmitter Power and Operational Range as noted below.

General Information

Applicant The Raytheon Company. Technical questions regarding this request should be addressed to: Dr. Steven R. Wilkinson (310) 647-0939 phone, (310) 647-3250 fax.

Purpose The purpose of this effort is the development of a Tactical Remote FLIR System for customers within the United States Government/United States Military. A check for \$45 to FCC and the completed form 159 will be sent to your offices in Pittsburgh, PA via certified mail within the next few days. *7 Lemo*

Time Period This effort will begin upon receipt of the STA (15 May 2000) and shall continue for approximately six months.

Locations This effort will take place within a 25 mile radius of the geographical center of El Segundo, California (Lat./Long. Location: NL 33 degrees, 58 min. 8 sec./W 118 degrees, 3 min. 39 sec.). *41 km rad*

Device Description One transmitter will be used for this development. Dellstar Inc. is the manufacturer of the transmitter. The transmitter model number is DSX-1837. *34N 118.1W*

Technical Parameters

1749 MHz

Frequency Band:	1800 MHz. Needing ~ 17 MHz bandwidth within this region.
*Transmitter Power:	300 milliwatt (peak).
*EIRP	300 milliwatt (peak).
Emission	17M F 8 W
*Operational Range	Will be limited to 500 Meters.
Identification	Waiver of section 5.152 is requested. (These units are unable to self-identify).
Antennas	In no case will the antenna extend more than 6.1 meters (20 feet) above existing structures (other than existing antennas) or the ground. Antennas are a dipole that is oriented in a vertical plane.

* Amended per your conversation with Dr. Wilkinson.

When approved, please send notification of approval for our STA request to my FAX number (310) 647-4582.

Sincerely,

Rick Samojan

Rick Samojan

Radio Frequency Coordinator, EO/EO1/F170
Raytheon Company
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