



TOYOTA TECHNICAL CENTER, USA, INC.

5-3442-EX-1998

May 26, 1998

Mr. C. Huie
Federal Communications Commission
Office of Engineering and Technology
Washington, DC 20554

Dear Mr. Huie,

Thank you for your quick response regarding are needs for a temporary authorization. I am including the information for Part 5.56 of the Experimental Radio Services. I will forward form 442 to the Pittsburgh office next week. First I will describe a brief background then the information required for part 5.56.

1. Background:

Toyota Technical Center (TTC) is a R&D facility for North American Toyota Vehicles. We are planning to tune antenna systems for radio reception in the United States beginning next fall.

To tune these antenna systems, we are constructing a site at our proving grounds located in Wittman, AZ. The construction is scheduled to be completed in mid June and we would like to cross-check the site in July. The test equipment will consist of a signal generator, dipole antenna, and measuring devices.

In order to tune these antenna systems, it is necessary for us to emit FM signals and measure the captured signal. For this reason, we are requesting a temporary authorization for us to confirm selected frequencies we determined earlier as a cross-check of the new site.

2. Part 5.56 Information:

(1) Name and Address

Tyrone Taketa
Toyota Technical Center
1850 W. 195th Street
Torrance, CA 90501
Tel: (310) 787-5586
Fax: (310) 787-5555

(2) Need for Special Action

This is a temporary test to determine useable frequencies and cross-check the performance of the newly constructed site.

(3) Type of Operation to be Conducted

Emission of frequencies through the use of a signal generator and confirmation of the frequency received through the use of a log-periodic antenna.

(4) Purpose of Operation

This operation is conducted for 2~4 days using 2 antenna suppliers to determine the capabilities of each supplier for tuning activities expected later this year.

(5) Time and Date of Proposed Operation

Time: 9:00 ~ 17:00

Period: July 6, 1998 ~ July 17, 1998 (only 2~4 days will be used. We are negotiating the schedule with our Japan colleagues for their participation)

(6) Class of Station

Fixed type generation of electric wave

(7) Location of Proposed Operation

Toyota Technical Center
Arizona Proving Grounds
30700 West Patton Rd.
Wittmann, AZ 85361

Latitude: 37° 44' 34" North

Longitude: 112° 45' 55" West

(8) Equipment to be used

- One Signal Generator HP8656B
- One Dipole Antenna Anritsu MP534A
- One Field Strength Measuring Receiver Anritsu ML521B
- One Log-Periodic Antenna Anritsu MP635A

(9) Frequency (ies) Desired

(MHz) 88.0, 89.2, 90.0, 91.1, 91.9, 92.7, 94.3, 95.3, 96.3, 97.1, 98.2, 99.0, 100.1, 101.2, 102.3, 103.2, 104.1, 105.1, 106.1, 107.3

(10) Effective Radiated Power (ERP)

27dBm

(11) Type of Emission

Vertical and Horizontal polarized wave

(12) Overall Height of antenna structure above ground

3~5 meters

If you have any questions or need further clarification/information please call me at (310) 787-5586
fax (310) 787-5555 or e-mail: taketa@ttc-usa.com

Sincerely,



Tyrone Taketa
Senior Engineer