

0304-EX-ST-1999

FUJITSU TEN

September 14, 1999

TCMI19-M0074

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

Subject : Fujitsu Ten Corp. of America's Application for STA

FUJITSU TEN Corp. of America wishes to apply for Special Temporary Authority for purpose of operating a single mobile radar device, mounted onto a passenger car chassis, for the development of Adaptive Cruise Controls Systems in the US Transportation Industry.

The device itself enhances the performance of existing cruise control systems and is viewed to assist in creating a higher level of awareness for the operator of the vehicle, when the cruise control system is activated. The STA will provide Fujitsu Ten the opportunity the cumulative efforts of our company over the past 26 years, with the goal of promoting similar such application of devices here in the US.

The devices as described below.

Presently the device under development operates in the millimeter wave frequency band of 76.5GHz +/-50.0MHz. The unit is manufactured by Fujitsu Ten. The device has an effective radiated power emission of no greater than 2 milli watts, with an antenna gain of 30.5dB . The spurious power emission is less than 100 micro watts. The detection range is set for 120 meters and signal is classified as Frequency Modulated-Continuous Wave type device. The unit is to be mounted less than 1 meter above the road. A single vehicle with unit be configured for demonstration purposes and data gathering purposes.

The device will only be in use for a period of 6 months between October, 1999 and March 1999. The use will be limited to the metropolitan Detroit area and if necessary use can be restricted to the I-696, I-275, M-14, I-75 interstate corridor, during the hours of 6:00AM and 8:00PM.

If further information is deemed necessary, I will be please to supply such information upon request.

Sincerely,

Best Regards,



Maury Moribayashi  
Manager, Technical Center

Sep. 14. 99

Andy Matsui  
Senior Engineer, Technical Center

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