



GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

Chief, Frequency Liaison
Office of Engineering and Technology
Federal Communications Commission
2025 M Street, N.W. Room 7322
Washington, D.C. 20544

July 27, 1999

To Whom It May Concern:

Pursuant to section 5.56 of the Commission's rules, 47 C.F.R. section 5.56 (1989), the Golden Gate Bridge Highway and Transportation District requests Special Temporary Authority ("STA") to operate an automatic vehicle monitoring system.

Certification of Exemption from Fees. This request is exempt from fees under Section 1.1112(f) of the Commission's Rules. The applicant hereby certifies that it is eligible for such an exemption because the Golden Gate Bridge Highway and Transportation District is a governmental entity incorporated December 4, 1928, under legal jurisdiction of the State of California. The District consists of the City and County of San Francisco, and the Counties of Marin, Sonoma, Del Norte, and parts of Napa and Mendocino Counties

In support of this request, the following is shown:

1. Applicant's Name and Address.

Golden Gate Bridge, Highway and Transportation District
Post Office Box 9000, San Francisco CA 94129
Attn: Robert Thiel
Phone (415) 923-2210

2. Need for Special Action.

The Special Temporary Authority is being requested for the purpose of demonstrating and evaluating the automatic vehicle monitoring system described below.

3. Type of Operation.

The operation of the system is

Intermittent in that the signal transmitter only transmits when in the presence of a transponder

4. Purpose of Operation.

The automatic vehicle monitoring system will be used in the Toll Plaza at the Golden Gate Bridge to automatically record the passage of vehicles equipped with a transponder (tag). The system generally consists of a reader that transmits an unmodulated signal and passive transponder devices attached to the vehicles to be identified.

5. Date of Operation.

The demonstration and evaluation of the system is planned to start August 1 1999, and last for a period of up to 6 months.

6. Class of Station.

The station class is experimental and will be used to provide automatic vehicle position monitoring.

7. Location of Proposed Operation.

The operation will be conducted at: The Toll Plaza, Golden Gate Bridge, San Francisco CA.

8. Equipment to be Used.

The equipment to be used consists of Amtech model IT2200 Amtech Tag Decoder Systems (with model IT2020 tag decoder modules and model AA3152 antennas) and model IT2221 and IT2211 identification tags.

9. Frequencies Desired.

The desired frequencies in MHz are:

903.00, 918.75 and 912.75

10. Radiated Power.

The maximum effective radiated power will be less than 32 watts and will be reduced as much as practical to provide for effective communication. (This description for intermittent signal operation)

The power and frequency are in accordance with the rules of Section 90.357, Frequencies for LMS systems in the 902-928 MHz band.

11.Type of Emission.

The type of emission is 20K0N0N CW with no modulation frequency stability of 20 ppm. The low level modulated backscatter signal returned by the passive transponders has an occupied band width of approximately 2.5 MHz. It is reduced in field strength more than 39 db from the transmitted signal emitted by the reader.

12.Overall Height of Antenna Above Ground.

The antenna will be at or less than 19.6 feet above ground.

If there are any questions about the foregoing, please contact the undersigned. Thank you for your attention to this request.

Respectfully,



By: Robert Thiel

Electrical Superintendent

Date: 1/28/1999