


Broward County Aviation Department

320 Terminal Drive
Fort Lauderdale, FL 33315
(954) 359-6100

August 16, 1999

Mr. Fred Thomas
Chief, Frequency Liaison
Federal Communications Commission
445 12th Street S.W., 7th Floor
Washington, DC 30554

Dear Mr. Thomas:

Pursuant to Section 5.56 of the Commission's rules, 47 C.F.R. Section 5.56 (1989), the Broward County Aviation Department 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. This applicant hereby certifies that it is eligible for such an exemption because Broward County Aviation Department is a governmental entity in the County of Broward, State of Florida.

In support of this request, the following is shown:

1. Applicant's Name and Address:
Broward County Aviation Department
320 Terminal Drive
Fort Lauderdale, Florida 33315
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:
This low power signal will be continuously directed at the area into which tagged vehicles will travel. Accordingly, we request authority for continuous transmission.



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4. **Purpose of Operation:**
The automatic vehicle monitoring system will be used at our facilities 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 September 1, 1999, and last for a period of six (6) months.
6. **Class of Station:**
The station class is experimental and will be used to provide automatic vehicle monitoring.
7. **Location of Proposed Operation:**
The operation will be conducted at:
Fort Lauderdale-Hollywood International Airport
Dania, Florida 33304
8. **Equipment to be Used:**
The equipment to be used consists of thirty (30) model 10-1620-104 Amtech Tag Decoder Systems and model AT5100 identification tags.
9. **Frequencies Desired:**
The desired frequencies in MHZ are: 902 MHZ
10. **Radiated Power:**
The maximum effective radiated power will be approximately four watts or less. The power and frequency are in accordance with the rules or Section 90.357, frequencies for LMS systems in the 902-928 MHZ band.



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11. Type of Emission:

The type of emission is 50K0NON. It is a continuous wave signal from the reader. 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 eight (8) feet above ground.
(Note: must be less than 6.0 meters (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,
Broward County Aviation Department

Diana Lewis
Director of Planning and Development