



AP Technoglass Co., 1 Auto Glass Drive, P.O. Box 5000, Elizabethtown, Kentucky 42702-5000
Telephone (270) 765-8226 Facsimile (270) 769-1207

Federal Communications Commission
Experimental Radio Service
P.O. Box 358320
Pittsburgh, PA 15251-5320
To Whom It May Concern:

To whom it may Concern,

The following is a request for a temporary testing license.

It is my understanding that I can obtain a temporary license for the length of 6 months. I would like to request a 6 month temporary license for the period (4/1/00 – 10/1/00).

It should be mentioned that my company has held a license in the past. But since my arrival to the company it has been discovered that the licensed expired December 1998. It is our intention to renew our previous license contents this year. The previous experimental license:

Call Sign: KA2XAR
File No.: 5252-EX-ML-96

This year our company has been awarded future business that would require testing in our previous frequency range. Therefore, we would like to obtain a temporary experimental license for the above dates or until our official license is approved.

More Information

1) Operation to be Conducted

- Measurement of FM field strength using a signal generator through a log periodic-antenna. This is accomplished by using a "Field Strength Measuring Receiver". See attachment 1 for the frequencies measured.
- The Field Strength Data is compared to the automotive glass antenna reception strength to determine the glass antenna performance.

2) Equipment Being Used

- One Signal Generator: Model No.=HP8656B
- One Field Strength Measuring Receiver: Anritsu ML521B

- One Log Periodic Antenna: MP635A
- One Dipole Antenna: Anritsu MP534A

3) Type of Emission

- Horizontal and Vertical Polarization Waves

4) Antenna Height

- 3.5 meters

5) Frequencies Desired

- FM Frequencies in the band (88 MHz – 188 MHz)
See Attachment 1 for more precise frequency List.

6) Time and Date of Operation

Time: 8:00am to 10:00pm
Days: April 1 – October 31

7) Location

AP Technoglass
1 Auto Glass Drive
P.O. Box 5000
Elizabethtown, KY 42702-5000
USA

Latitude: 37°, 40', 23" North
Longitude: 85°, 55', 41" West

The size of the test area is Approximately 800m x 800m. The only facility on this ground is our glass facility.

8) Class of Station

- Fixed type generation of electric wave used.

9) Explanation of this experiment

AP Technoglass has been a supplier of automobile glass for the past 10 yrs. In addition, AP Technoglass, has been a developer of glass antenna technology.

The antenna is printed on the surface of the glass and delivers a noise (static) free ride to the driver/passenger. The glass antenna pattern is the key factor in catching signals. Therefore, several patterns should be tested to determine the optimal signal receiving performance pattern. The test consists of several

trial patterns attached to a development vehicle and exposed to electronic waves transmitted from a signal generator (HP8656).

The testing requires several frequencies to ensure sufficient coverage of the typical FM stations. Also, the vehicle is tested in different orientations to simulate real world signal catching situations (such as one would see while driving on the road).

The testing usually lasts for 2 weeks per tuning. The vehicle under development is usually re-tuned at several stages of the development and would have at least three tuning sessions. There are usually several months between each tuning session.

10) Test Site Layout

A diagram is attached.

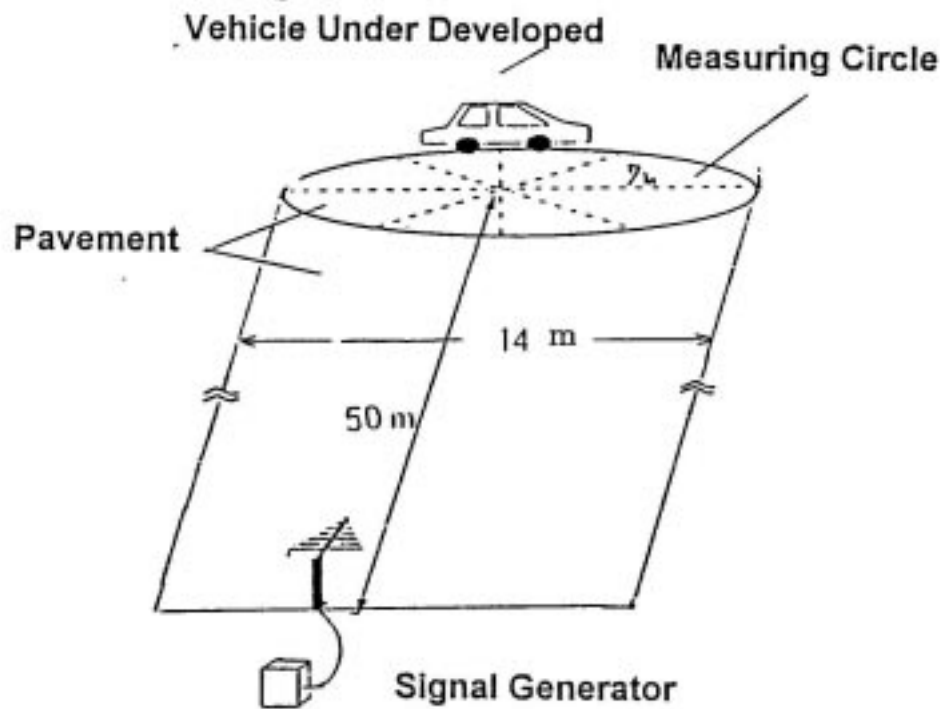
Your help in taking the necessary actions to process the temporary license would greatly be appreciated.

If you have any questions, please feel free to call me (270-765-8226).

Sincerely,

Charles Conder
Antenna Engineer
Product Development

1. Antenna Patterning Site



2. Location of Antenna Patterning Site

