

S-3477-EX-1998

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July 30, 1998

VIA MESSENGER

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

RE: AEPCO, Inc.
Application for Special Temporary Authority to Operate
Experimental Radio Station

Stop Code: 1300E1

Dear Sir or Madam:

Advanced Engineering and Planning Corporation ("AEPCO"), by its attorney, hereby requests Special Temporary Authority to operate an Experimental Radio Station. Filed simultaneously herewith is an application on FCC Form 442 for license of the proposed facility. AEPCO is a leading satellite communications company which will work with the U.S. Department of Transportation and Pennsylvania Department of Transportation in testing new technologies as described herein.

AEPCO has enclosed a check in the amount of forty-five dollars (\$45.00) in payment of the required filing fee.

Please direct any questions concerning this application to the undersigned.

Very truly yours,



David A. Irwin

Enclosure

cc (w/enc): Mr. Douglas Young

KA2XBD

Granted 622-EX-PL-1998
instead.

DY
10/1/98

AEPCO, inc

(Advanced Engineering & Planning Corp., Inc.)

15800 Crabbs Branch Way

Suite 300

Rockville, Maryland 20855

Tel. (301) 670-6770

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

RE: Application for Special Temporary Authority to Operate an Experimental
Radio Station for the Purpose of Monitoring Automotive Traffic for
Commonwealth of Pennsylvania Department of Transportation

Dear Sir or Madam:

AEPCO Inc. ("AEPCO") hereby requests Special Temporary Authorization to operate an experimental radio station in the 14,000-14,500 Mhz band for purposes of testing new technologies related to the transmission of video images for monitoring traffic flow on interstate highways. AEPCO has entered into a contract to provide this service to the Pennsylvania Department of Transportation ("PADOT"). PADOT has received federal funding from the U.S. Department of Transportation for this study in the Philadelphia, PA Metropolitan area. The study falls under Federal Study Numbers 94E-9142-001 and 94H-9142-001.

PADOT will utilize four fixed antennas placed at various locations and one mobile unit that will transmit video back to a hub station to study traffic flow in congested urban areas. By gathering this information, PADOT will be better able to develop and implement methods to control traffic congestion in these areas.

AEPCO will utilize four (4) 2.4-meter Prodelin antennas and one (1) 2.4 meter Andrew antenna with a Half Power Beam Width of 0.58 degrees; the four Prodelin antennas will be fixed; the one Andrew antenna will be mobile. A 3.7-meter Prodelin antenna will be used for the hub station, with a Half Power Beam Width of 0.36 degrees. All will transmit in the 14,000-14,500 Mhz band at a maximum power of 5 Watts and maximum ERP of 59.8 dbw. The emissions designator is 480KG15.

Filed simultaneously herein is an application for license for the above-listed facilities. However, AEPCO has an immediate need to provide this service to PADOT, as there is a fast-approaching deadline for the end of the project, and AEPCO must act quickly to satisfy the requirements of its contract with PADOT. AEPCO submits that the public interest will be served by grant of the Special Temporary Authorization, as it will help make traffic conditions on federal highways safer for motorists. By having the ability to constantly monitor traffic patterns, PADOT will be better equipped to design

Federal Communications Commission

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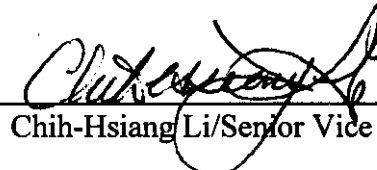
and build safer roads. The information gained through this study can ensure that emergency vehicles and private motorists will be able to travel safely and easily on the highways.

Identical facilities to those proposed in this application were granted to AEPCO, Inc. ("AEPCO") by the FCC pursuant to FCC File Number 4976-EX-PL-95 on January 19, 1996. Call sign KA2XBD was issued with the authorization. AEPCO originally sought the license in connection with a contract it has with the Pennsylvania Department of Transportation ("PADOT") to monitor and study traffic patterns along major arteries in the state. Primary funding for this project was provided to PADOT from the U.S. Department of Transportation. AEPCO wishes to have the license re-issued so that it may continue this important research project.

Thank you for your assistance in this matter.

Respectfully Submitted,
AEPCO, Inc.

By



Chih-Hsiang Li/Senior Vice President

Date July 28, 1998

Enclosure

cc (w/encl): Mr. Douglas Young