

ORIGINAL

July 24, 1998

VIA FEDERAL EXPRESS

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

Re: APT Tampa/Orlando, Inc. Request for Special Temporary Authority ("STA") for Experimental Radio Service to Operate on European GSM Frequencies. Call Sign: (KA2XEN)

EXPEDITED PROCESSING REQUESTED

Dear Sir or Madam:

Transmitted herewith on behalf of APT Tampa/Orlando, Inc. ("APT") and pursuant to Section 5.56 of the Commission's Rules, are an original and one copy of a request for Special Temporary Authority ("STA") for the operation of GSM900 and DCS1800 equipment at (and around) the Orange County Convention Center, ("Convention Center") located at 9800 International Drive, Orlando, FL. 32819-8199, for a period of forty (40) days, commencing August 24, 1998, and ending October 2, 1998.

Also transmitted herewith is a FCC Form 159 and a check in the amount of \$45.00 in payment of the required filing fee.

APT seeks this authority for the purpose of demonstrating the operation of GSM900 and DCS1800 equipment at the PCS '98 Conference ("Conference") which will be held at the Convention Center from September 22, 1998 through September 25, 1998.

Operation by multiple users will be limited to the duration of the Conference. The remainder of the period is required for the purposes of setting up, testing and tearing down equipment. The GSM900 operation will use 12 paired channels selected from among the 935 MHz to 960 MHz frequencies for base to mobile transmissions and 890 MHz to 915 MHz for mobile to base transmissions. Operations will also include eight paired channels on the DCS1800 equipment selected from the 1805 MHz to 1880 MHz frequencies for the base to mobile transmissions and 1710 MHz to 1785 MHz for mobile to base transmissions.

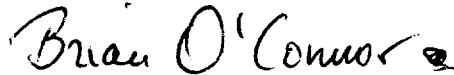
The possibility of interference is extremely unlikely given the very low output power of the base station: (GSM900 at five (5) watts ERP; and the DCS1800 at five (5) watts ERP). The power output of the GSM900 mobile units will be two (2) watts ERP, or less (subject to power control up to 30 dB), and the power output of the DCS1800 mobile units will be one (1) watt, or less (also subject to power control up to 30 db).

The GSM900 base station and the DCS1800 base station equipment will be obtained from manufacturers, to be determined, providing GSM systems operating in Europe and Asia. The mobile units have been manufactured by multiple vendors for use with the foregoing base station equipment.

Grant of the instant request for STA will permit attendees at this Conference to use GSM technology. Through the authority granted APT under Experimental Radio Station License KA2XEN APT will provide limited personal communications service to the attendees using GSM technology. The combination of GSM frequencies will greatly enhance the overall operations of the conference for the attendees.

Should there be any questions regarding this request, please contact George Y. Wheeler at (202) 467-5700.

Very truly yours,

A handwritten signature in black ink that reads "Brian O'Connor" followed by a small flourish.

Brian O'Connor
Authorized Employee

SECTION 5.56(b) SHOWING

- (1) Name and Address: APT Tampa/Orlando, Inc. ("APT")
c/o Aerial Communications, Inc.
8410 West Bryn Mawr Avenue
Chicago, IL 60631
- (2) Need for Special Action: APT seeks this authority for the purpose of demonstrating the operation of GSM900 and DCS1800 equipment at the PCS '98 Conference ("Conference") which will be held at the Orange County Convention Center ("Convention Center") on September 22, 1998 through September 25, 1998. This international conference and the associated GSM operations will be of limited duration. Only recently did the conference organizers decide to offer the attendees the opportunity to use GSM equipment. Thus, given the short duration of the actual demonstration project, special action, rather than permanent authority, is warranted.
- (3) Type of Operation to be Conducted: If granted, this authorization would be used for the purpose of demonstrating the operation of GSM900 and DCS1800 equipment at the Conference which will be held at the Convention Center on September 22, 1998 through September 25, 1998. Operation by multiple users will be limited to the duration of the Conference. The remainder of the period is needed for the limited purposes of setting up, testing and taking down the equipment. The GSM900 operation will use 12 paired channels chosen from among the frequencies 935 MHz to 960 MHz for base to mobile transmissions and 890 MHz to 915 MHz for mobile to base transmissions. The DCS 1800 operation will use eight paired channels chosen from among the frequencies 1805 MHz to 1880 MHz for base to mobile transmissions and 1710 MHz to 1785 MHz for mobile to base transmissions.
- (4) Purpose of Operation: This authorization would be used for the purpose of demonstrating the operation of GSM900 and DCS1800 equipment at the Conference which will be held at the Convention Center on September 22, 1998 - September 25, 1998.
- (5) Time and Date of Proposed Operation: The proposed operation would occur during a period of forty (40) days commencing August 24, 1998. Operation by multiple users will be limited to the duration of the Conference which will be held at the Convention Center on September 22, 1998 - September 25, 1998. The remainder of the period is needed for the limited purposes of setting up, testing and taking down the equipment.
- (6) Class Station, Call Sign of Station, and Nature of Service: The GSM900 base station equipment and the DCS1800 base station equipment to be provided by manufacturers, to be determined, is not type accepted for operation in the United States. The base station equipment will be selected from that manufactured for use in GSM systems operating in Europe and Asia. The mobile units will have been manufactured by multiple vendors for use with GSM base station equipment.
- (7) Location of Proposed Operation: Orange County Convention Center, located at 9800 International Drive, Orlando, FL. 32819-8199.

(8) Equipment to be Used, Including Name of Manufacturer, Model and Number of Units: The GSM900 and DCS1800 base station equipment will be obtained from manufacturers to be determined. The number of mobile units will not exceed four hundred (400). The exact number cannot be determined because it will be dependent upon how many of the international attendees bring their mobile units to the conference.

(9) Frequency(ies) Desired:

(a) The GSM900 operation will use 12 paired channels chosen from among the frequencies 942 MHz to 946 MHz and 947 MHz to 952 MHz for base to mobile transmissions and 897 MHz to 901 MHz and 902 MHz to 907 MHz for mobile to base transmissions. For the frequency range 942 MHz to 944 MHz based on discussions with the Commission's staff, it is APT's understanding that there are no fixed government stations which would be likely to experience interference from the proposed operation. For non-government fixed stations in the Auxiliary Broadcast Service in the frequency range 942 MHz to 946 MHz and 947 MHz to 952 MHz, APT has affected initial frequency coordination with the Society of Broadcast Engineer's Florida Area Frequency Coordination Committee [Mr. Steve Rowell]. APT will not initiate testing or operation in the bands allocated to the Auxiliary Broadcast Service without first completing coordination with Mr. Rowell. For the frequency range 897 MHz to 901 MHz, the proposed operation will not cause interference to existing Part 90 Specialized Mobile Radio Service users. Similarly, there will be no interference to unlicensed operations in the 902 MHz to 907 MHz frequency range. In the event of harmful interference, APT will terminate operations immediately.

(b) The DCS1800 operation will use eight paired channels chosen from among the frequencies 1850 MHz to 1865 MHz for base to mobile transmissions and 1745 MHz to 1770 MHz for mobile to base transmissions. For the frequency range 1840 MHz to 1865 MHz, APT has cleared any potential cases of interference with incumbent Private Operational Fixed Microwave Service licensees. APT is the current Broadband Personal Communications Service licensee for Block A in Tampa/Orlando. For the frequency range 1745 MHz to 1770 MHz, based on discussions with the Commission's staff, it is APT's understanding that there are no fixed mobile government stations which would be likely to experience interference from the proposed operation. In the event of harmful interference, APT will terminate operations immediately.

(10) Plate Power Input to Final Radio Frequency State: The radio transmitting equipment is not configured such that plate power input is a measurable (or significant) quantity. However, the effective radiated power ("ERP") of the GSM900 base station will not exceed five (5) watts ERP, and the ERP of the DCS1800 base stations will not exceed five (5) watts ERP. The ERP of the GSM900 mobile units will not exceed two (2) watts and the ERP of the DCS1800 mobile units will not exceed one (1) watt. In both cases the mobile units incorporate automatic power control features which reduce the ERP up to 30 dB below the foregoing maximums.

(11) Type of emission: Digital, GMSK modulation.

(12) Overall height of antenna structure above ground: The antenna height will extend no more than six (6) meters above the ground, or if mounted on an existing building or other existing structure, will extend no more than six (6) meters above the building or such structure.