

**United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XC      FX

(Class of Station)

WB9XVG

(Call Sign)

0034-EX-ST-2004

(File Number)

NAME Advanced Navigation & Positioning Corp.

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

**Purpose Of Operation:**

Augmentation and testing of the prototype Transportable Transponder Landing System under contract with the U.S. Marine Corps.

**Station Locations**

(1) Yuma, AZ - NL 32-45-15; WL 113-37-48

**Frequency Information**

Yuma, AZ - NL 32-45-15; WL 113-37-48

| Frequency  | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|------------|---------------|---------------------|------------------|---------------------------|
| 110.95 MHz | FX            | 6K00A9W             | 1 W (ERP)        |                           |
| 330.65 MHz | FX            | 300HA1N             | 10 W (ERP)       |                           |
| 1030 MHz   | FX            | 6M00M1D             | 1035.5 W (ERP)   |                           |
| 1090 MHz   | FX            | 6M00M1D             | 25 W (ERP)       |                           |

**Special Conditions:**

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) The Transportable Transponder Landing System (TLS) may only be used for experimental purposes.
- (3) Transportable TLS operations shall be limited to runway 19 at the Stoval Outlying Field at 324515N and 1133748W.

This authorization effective April 10, 2004 and  
will expire 3:00 A.M. EST April 18, 2004

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Special Conditions:

- (4) The mainbeam of the Transportable TLS localizer (110.95 MHz) antenna, glide slope (330.65 MHz) antenna, and interrogator antenna (1030 MHz) shall be on an azimuth of 010 degrees (+/- 5 degrees) from true north.
- (5) The side lobe suppression (1030 MHz) antenna shall be on an azimuth of 190 degrees (+/- 5 degrees) from true north and shall only be used to transmit the side lobe suppression pulse.
- (6) No back course guidance or interrogations are authorized.
- (7) The maximum omnidirectional interrogation rate (1030 MHz) shall not exceed 2 interrogations per second with an additional 10 interrogations per second directed at 010 degrees (+/- 5 degrees) from true north. The additional 10 interrogations shall employ side lobe suppression transmissions and shall only be used when an aircraft is being provided approach guidance.
- (8) Communications between aircraft and the Transportable TLS ground operator shall be conducted on military tactical frequencies. No VHF channels in the 118-137 MHz band may be used.
- (9) Changes in the Transportable TLS operating interrogator system will be required before this system proceeds to a production system. Other operating parameter changes may be required as a result of ongoing civil TLS Certification activities.
- (10) The Transportable TLS Shall transmit the Morris Code identifier "XXU" in conjunction with the standard Localizer and Glide Slope signals.