

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WA9XGF

(Call Sign)

0075-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:

Testing and evaluation of a Transponder Landing System (TLS).

Station Locations

(1) Watertown, WI - NL 43-09-54; WL 88-43-39

Frequency Information

Watertown, WI - NL 43-09-54; WL 88-43-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
108.35 MHz	FX	6K00A9W	1 W (ERP)	
333.95 MHz	FX	300HA1N	6.1 W (ERP)	
1030 MHz	FX	6M00M1D	1035.5 W (ERP)	
1090 MHz	FX	6M00M1D	6.6 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 Transponder Landing System (TLS) may only be used for experimental purposes.
- (3) TLS operations are limited to runway 5 at the Watertown Municipal Airport (RYV) in Watertown, Wisconsin.

This authorization effective February 26, 2004 and
will expire 3:00 A.M. EST August 16, 2004

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Special Conditions:

- (4) The mainbeam of the TLS localizer (108.35 MHZ) antenna, glide slope (333.95 MHZ) antenna, and interrogator antenna (1030 MHZ) shall be on an azimuth of 320 degrees (+/- 5 degrees) and back course guidance or interrogations are not authorized.
- (5) The side lobe suppression (1030 MHZ) antenna shall be on an azimuth of 140 degrees (+/- 5 degrees) and may only be used to transmit the side lobe suppression pulse.
- (6) The maximum interrogation rate (1030 MHZ) shall not exceed 10 interrogations per second.
- (7) Communications between aircraft and the TLS ground operator shall be conducted on the UNICOM frequency assigned to the Watertown Municipal Airport (RYV), Wisconsin.
- (8) Changes in the TLS operating parameters may be required as a result of ongoing TLS Certification activities.
- (9) Prior to operation, point of contact information for a 'stop buzzer' must be given to Volk Field in case of interference with the Volk Field IFF system.
- (10) The Transponder Landing System (TLS) at Watertown, Wisconsin, shall use the identifier "XYM" for TLS operations.