

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WE2XBN

(Call Sign)

0064-EX-RR-2009

(File Number)

NAME Advanced Navigation & Positioning Corp.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(i) of the Commission's Rules

Station Locations

(1) Dallesport, WA - NL 45-37-06; WL 121-10-00

Frequency Information

Dallesport, WA - NL 45-37-06; WL 121-10-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
108.35 MHz	FX	2K04A2A	996.4 mW (ERP)	
333.95 MHz	FX	300HA1N	6.098 W (ERP)	
1030 MHz	FX	6M00M1D	1035.5 W (ERP)	
1090 MHz	FX	6M00M1D	25 W (ERP)	

This authorization effective April 28, 2009 and
will expire 3:00 A.M. EST May 01, 2011

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) Assignment in frequency band 960-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Northwest Coordinator, Seattle, WA. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Northwest Coordinator, Seattle, WA, as necessary to ensure compatibility with existing uses.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) The Transponder Landing System (TLS) may only be used for experimental purposes.
- (6) TLS operations are limited to The Dalles Municipal Airport (DLS) in Dallesport, Washington.
- (7) The mainbeam of the TLS localizer (108.35 MHz) antenna, glide slope (333.95 MHz) antenna, and interrogator antenna (1030 MHz) may be oriented at any azimuth required to conduct engineering development testing for the TLS. Back course guidance and interrogations are authorized.
- (8) The side lobe suppression (1030 MHz) antenna shall be on an azimuth of 180 degrees from the interrogator antenna and may only be used to transmit the side lobe suppression pulse.
- (9) The maximum interrogation rate (1030 MHz) shall not exceed 10 interrogations per second.
- (10) Communications between aircraft and the TLS ground operator shall be conducted on the UNICOM frequency assigned to The Dalles Municipal Airport (DLS), Washington.
- (11) Changes in the TLS operating parameters may be required as a result of ongoing TLS Certification activities.
- (12) This assignment may not be used for testing of the Transportable TLS system for the Marine Corps.
- (13) The TLS at The Dalles Municipal Airport (DLS) shall use the identifier "XBH" for TLS operations.