

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

EXPERIMENTAL

(Nature of Service)

WP9XDZ

(Call Sign)

XT FX

(Class of Station)

1540-EX-ST-2019

(File Number)

NAME Advanced Navigation and 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:

The TLS operates like an Instrument Landing System (ILS), broadcasting at 1030MhZ, 1090MHz, and an FAA-assigned Localizer/Glideslope frequency pair. Operation is scheduled to occur

Station Locations

- (1) Selah Creek (YAKIMA), WA - NL 46-42-39; WL 120-19-31
- (2) Selah Creek (YAKIMA), WA - NL 46-42-39; WL 120-19-31
- (3) Selah Creek (YAKIMA), WA - NL 46-42-39; WL 120-19-31
- (4) Selah Creek (YAKIMA), WA - NL 46-42-39; WL 120-19-31

Frequency Information

Selah Creek (YAKIMA), WA - NL 46-42-39; WL 120-19-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	FX	DXB	630 W (ERP)	0.01 %

This authorization effective September 14, 2019 and
will expire 3:00 A.M. EST September 16, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Selah Creek (YAKIMA), WA - NL 46-42-39; WL 120-19-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1090 MHz	FX	DXB	1 W (ERP)	0.01 %

Selah Creek (YAKIMA), WA - NL 46-42-39; WL 120-19-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
108.35 MHz	FX	A8B	996 mW (ERP)	0.01 %

Selah Creek (YAKIMA), WA - NL 46-42-39; WL 120-19-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
333.95 MHz	FX	A8B	6 W (ERP)	0.01 %

Special Conditions:

- (1) 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.
- (2) Advanced Navigation and Positioning Corp must adhere to the conditions as pre-coordinated with FAA under:
 - a. NG T190748 (1030 MHz) and NG T190749 (1090 MHz).
 - b. NG T190750 is for spot frequency 108.350 MHz not the requested band 108.11 - 111.95 MHz
 - c. NG T190751 is for spot frequency 333.950 MHz not the requested band 329.15 - 335 MHz

Special Conditions:

- (3) Advanced Navigation and Positioning Corp is limited to the following as well:
- a. The interrogator must use a directional antenna between 0 and 45 degrees reference true North.
 - b. Sidelobe suppression must be employed.
 - c. The maximum surveillance range must be 25 nm.
 - d. The maximum interrogator transmit power needs to be reduced to provide a -69 dBm signal at 25 nm taking into account the antenna gain, system losses, propagation loss, and a small margin.
 - e. The TLS does not need Mode C interrogations.
 - f. ANPC proposed use of Modes A means 10 Mode A interrogations per second.
 - g. The localizer frequency needs to be 18 nm (US standard) with the transmit power adjusted appropriately.
 - h. The glide slope needs to be 10 nm with the transmit power adjusted appropriately.
 - i. The maximum 1090 MHz transmit power is 1 watt (30 dBm).