

Why an Experimental License is Necessary:

The purpose of this application is to support integration testing and equipment operational checks.

Operation Description:

The ST162 series AIS Test Sets is used to test AIS installations, AIS receivers, AIS base stations, and AIS transponders. The ST162 series is capable of performing permission checks, identifying malfunctioning systems, making on-channel noise measurements, performing field and bench tests, and installation quality comparisons.

Table (1) lists the equipment specifications, including frequency band of operation, transmitter output power, emissions, antenna types and gains, as well as maximum ERP.

Frequency Data	
Transmit	161.975 MHz
Transmitter Data	
Transmitter Model	ST-162 Series
Transmitter Manufacturer	Shine Micro
Transmitter Power Output	1 Pico Watt
Antenna Data	
Antenna Gain	3 dBi Gain Shakespeare 5250 Omni
Power ERP	2 Pico Watt
Emission Data	
Emissions	16K0F1D

Table 1 – Equipment Data

Table (2) lists the locations/areas of operations, as well as the station class of the operation.

City	State	Latitude	Longitude	Radius (KM)	Station Type
Bingen	WA	45-42-23N	121-27-23W	1	Fixed
Arlington	OR	45-43-14N	120-10-46W	1	Fixed
Boardman	OR	45-44-54N	119-47-38W	1	Fixed

Table 2 – Location Data

Operation Period:

This testing will occur over a two year period beginning in November 2017.

Stop Buzzer POC:

The “Stop Buzzer” point of contact is:
Insitu Operations Center
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