

## Technical Description

Submitted by Joel Thorsheim on behalf of Insitu  
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### PURPOSE

This STA request is being submitted to support a temporary Unmanned Aircraft System (UAS) system integration test.

### OPERATIONS DESCRIPTION

Testing will be accomplished to test a data link on the ground in a fixed location.

### GROUND EQUIPMENT

<b>Nomenclature:</b>	<b>L-3 Bandit with external amp</b>
Manufacturer:	L-3 Communications
Model:	Bandit Radio
Transmit Output:	10 W (using external Amp Mini-Circuits ZHL-30W-252-S+)
Antenna Gain:	12 dBi
Antenna Type:	Log Periodic
Frequencies:	1760, 1790, 1800, 1805, and 1845 MHz or at least 3 Frequency Channels in Band 1755-1850 MHz
Emission:	2M40G1D
Output ERP:	158 W

### Stop Buzzer

Stop buzzer for this operation is Insitu the Operations Action Center at 866-637-4691.

### SCHEDULE

Start Date: Dec 21, 2014  
Stop Date: May 30, 2015

### FIXED GROUND LOCATION

Summit Ridge near The Dalles, OR  
NL 45-27-07; WL 120-56-28  
N45.45193 W120.94104  
Fixed ground operations  
Directional antenna (60 degree vertical and 50 degrees horizontal 3 dB beamwidth) pointing N69.02E relative to true north (not magnetic).