

Applied Research Associates, Inc. – FRN 0027803881
Application for Special Temporary Authorization (STS) to Operate an Ericsson 4402
B1 Radio at White Sands Missile Range

Purpose of Special Temporary Authorization Application

This Special Temporary Authorization (STA) application is for the purpose of testing an Ericsson Radio 4415 B1 Radio with an upload frequency range of 2110 - 2170 MHz (Band 1) while conducting MIL-STD-188-125 Volume 2 Continuous Wave Illumination Testing (CWI) and EMP testing. The proposed testing will be conducted at the AFEMPS and VEMPS facilities at White Sands Missile Range (WSMR). A map of the test location is shown below in Figure 1. As can be seen, the transmission will take place at coordinates 32° 20' 45.24"N, 106° 26' 59.85"W.



Figure 1: Location of temporary transmission site.

Our antenna system is fixed – we will only be transmitting at the location given in Figure 1.

A license search result on the FCC192 ULS system shows no current operators in the proposed upload frequency band.

There is a nearby airport, Condon AAF, located 3.5 km east of the test site. According to skyvector.com, this airport is "Closed Permanently" and "Unattended" so we have concluded Las Cruces International Airport is the nearest active air traffic. Figure 2 shows a screen capture from SkyVector giving the status of Condon AAF.

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Figure 2: Screen capture of skyvecotr.com listing for Condron AAF showing that it is “Closed Permanently” and “Unattended”

Testing at any given facility will be limited to 2 months in duration. Testing may be conducted during extended normal working hours from about 7:00 AM to 7:00 PM local time. However, hours may be adjusted to accommodate facility or spectrum management operational requirements.

This testing will be conducted under a U.S. Government Contract with the Defense Threat Reduction Agency. The following are the contractual details:

Contract Number: HDTRA1-14-D-0003 DO HDTRA1-23-F-0015

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