



## WSTIAC Success Story

### WSTIAC Affords the Warfighter Greater Protection Against IEDs

<http://wstiac.alionsciece.com>

<b>Customer:</b>	Naval Explosive Ordnance Disposal Technology Division, Crane, Indiana
<b>Challenge:</b> RF (Radio Frequency) technology	<p>Protect our ground troops from enemy attacks by detecting and thwarting the myriad of radio-controlled improvised explosive devices (RCIED) technologies, which can potentially turn any patch of innocuous land into a killing zone.</p> <p>The challenge lies in the fact that these are all “one-of-a-kind” devices, such that no two are exactly alike. In this sense, the enemy potentially holds a tactical edge by staying ahead of our next iteration of detection technology.</p>
<b>Approach:</b>	<p>WSTIAC’s main focus is to maximize readiness (and thus effectiveness in countering IEDs) of counter radio-controlled improvised explosive device electronic warfare (CREW) systems by servicing the vehicles in forward positions rather than pulling them back to the depot. To date, approximately 300 Navy and Air Force vehicles have had counter IED systems installed or upgraded in the field.</p> <p>WSTIAC is engaged in a two-prong support strategy: 1) Identify/drive new system requirements to update Warfighter requirements/needs; and 2) guide, assist, and facilitate CREW system upgrades and functional testing. WSTIAC’s major CONUS activities include:</p> <p><u>Component Design Review and Improvements</u> – WSTIAC matches emerging technologies to CREW system requirements through engineering analyses.</p> <p><u>Special Test Equipment and Techniques</u> – WSTIAC examines weapons systems requirements, matching them against current threats.</p>

	<p>WSTIAC conducts a number of field support activities OCONUS, such as:</p> <ul style="list-style-type: none"><li>• Minimize radio-controlled improvised explosive devices (RCIED) threats</li><li>• Install/upgrade CREW vehicle receiver jammers (CVRJ).</li><li>• Analyses of counter IED systems engineering, logistics, and sustainment.</li><li>• Provide logistics analysis at Kuwait Intermediate Maintenance Facility (IMF).</li></ul>
<b>Value:</b>	<p>By our estimate, the cost of servicing these vehicles on location is approximately 60 percent less than the cost of taking them to a depot, which also increases vehicle availability by up to 20 percent. The ultimate return on investment is that it brings our troops back safely to their families and loved ones.</p>

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