WSTIAC Success Story

WSTIAC ENSURES OUR NAVY SEALS MAINTAIN THE TECHNICAL 'HIGH GROUND' DURING OPERATIONS

http://wstiac.alionscience.com

Customer:	Commander, Naval Special Warfare Command (COMNAVSPECWARCOM), San Diego, California.
Challenge:	The role of the SEALs and other Special Operation Forces (SOF) becomes more vital as the Nation shifts away from using larger in-country forces as a primary deterrent to terrorism. One of the greatest challenges is to continue to provide SOF Warfighters with the vital technology edge they need to maintain strategic advantage over our adversaries.
Approach:	WSTIAC is delivering innovative technologies in four technical areas to meet NAVSPECWARCOM's Strategic Objective to "develop and implement technology advancements as key elements of strategic agility." Special Warfare Electronic Eyewear Protection (SWEEP) – Ballistic - Fast Tint Eyewear Ballistic Fast-Tint Eyewear for 24-hour, all-weather, all environment usage. SWEEP also provides sight-saving protection for operators caught too close to explosions, shrapnel; and laser strikes by

	absorbing the energy. Inflatable Assault Craft (IAC) platform Updating IAC platform design by militarizing a COTS product available from U.S. manufacturers. The new design provides increased payload capacity, better sea keeping capability, and greater shock mitigation. SEAL Delivery Vehicle (SDV) platform SDVs are littoral-capable wet submersibles that can travel extended distances underwater to support the full spectrum of SpecOps missions. Tireballs for GMV-N Mobility Platform WSTIAC is the design and testing agent overseeing development and implementation of Tire Ball® MCIS-inflated tires onto the GMV-N Mobility Platform. These are conventional tires filled with individual cells (balls) designed to fill the space inside the tire. The majority of the air in the tire is contained within the cells, minimizing the effect of tire punctures.
Value:	SWEEP: Provides the operators with a fast tint capable eyewear that changes states within $2/10^{th}$ of a second, in automatic mode or manual with ballistic protection not afforded by current sun glasses in use. Warfighters now only need one set of eyewear, instead of multiple sets for different times and scenarios, saving significant costs in supplying SpecOp forces, reducing logistics footprint, and preventing loss of sight from attacks. IAC: Provides a domestic alternative to the current Zodiac Craft The new Combat Rubber Raiding Craft; can be stored like any inflatable craft, but when in use, the advanced design is as hard as a metal Hull. Seal Delivery Vehicle (SDV) Platform motor and controller upgrade is expected to increase efficiency by 90% which translates to 20% more battery usage/life while operating underwater. Tireballs for GMV-N Operators are not impacted by tire punctures and are able to complete the mission or return to base without having to jeopardize life and limb by stopping to fix a flat in hostile territory. This technology also eliminates time loss during missions, reduces repair costs, and keeps tires from being destroyed by being run flat.

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