

TRADOC NIE 13.1 Summary Report commends DHS Intelligent Power Technology® fuel efficiency

DHS Systems LLC, known for its Deployable Rapid Assembly Shelters (DRASH), has become an industry leader in developing energy efficient power management systems for the military. DHS' Intelligent Power Technology®, a networked power micro-grid system that optimizes generators to fluctuating power demands, has proven its energy saving capabilities at the Networked Integrated Evaluation (NIE) 13.1. According to the Training and Doctrine Command (TRADOC) Summary Report, a document included in the assessment report detailing the system's performance throughout the evaluation process, the Intelligent Power Technology® system reduced fuel consumption by over 60%.

The NIE 13.1 began in October and lasted through November during which a range of military equipment was tested in the field and in lab studies for efficiency, interoperability, and durability. Intelligent Power Technology® was entered into NIE as a System Under Evaluation (SUE) to determine its ability to improve operational energy on the battlefield. The purpose of DHS' participation was to assess potential benefits of generators equipped with digital control panels, and to assess how Intelligent Power Technology® compared to generators with traditional analog controls. During NIE, the Intelligent Power Technology® system was used to power the Brigade Support Battalion TOC and three Company Command Posts (CP).

The TRADOC Summary Report concluded that the Intelligent Power Technology® generators offered over a 60% fuel savings compared to the analog generators operating under the same conditions. It stated that under the loads experienced during the exercise, traditional generators consume 300 gallons of fuel per day. The Intelligent Power Technology® system, a micro-grid of six generators of varying outputs totaling 222 kW, consumed an average of 109 gallons of fuel per day—that consumption rate is only 36.33% of the rate of traditional analog generators. Overall, the Intelligent Power Technology® system conserved 191 gallons of fuel per day, resulting in a total fuel saving of 63.67%.

Not only did Intelligent Power Technology® conserve fuel but it



DRASH Intelligent Power Technology® reduces fuel consumption by more than 60%.

also decreased the number of generators needed to supply power to the BSB's operations centers. The number of generator sets needed decreased from 10 to six, thus lightening the load by 40%.

DHS Director of Federal Programs, Tim Taets was present at NIE 13.1 and commented on the performance of Intelligent Power Technology® saying, "NIE 13.1 was major for Intelligent Power Technology®. The system performed exceptionally well on many fronts, but we were most pleased with its extraordinary capability for fuel saving. DHS demonstrated that it is an industry leader in military power generation."

In addition to the Intelligent Power Technology® system's fuel saving capability, the system's remote monitor, efficient size, weight, power characteristics and user-friendly interface were highlighted in the assessment report.

"In speaking with NIE participants, one of the top highlights for Intelligent Power Technology® was its remote capability and user-friendly interface," said Tim Taets.

Enhanced version of DHS' Intelligent Power Technology® now available

DHS developed its Intelligent Power Technology® trailer to enhance energy efficiency on the battlefield. Since its inception, IPT has been continually improved to reflect the needs of the modern warfighter. Now, the company has released version three of its Intelligent Power Technology® systems, that is equipped with new features.

The most notable feature of version three is a DHS customized firmware controller. With the new system, users have the capability to reset the software to Original Equipment Manufacturer (OEM) settings. This benefit provides users with a quick way to fix configuration issues should they occur.

Another feature is the Light-Emitting Diode (LED) indicator light, which will alert the user of the system's load-shed status and will appear on the Genset Power Distribution Panel. This feature is beneficial for users to respond to load shed activity.

Richard Chou, Vice President of Engineering at DHS Systems highlighted compatibility of the version three saying, "All IPTs are backward compatible. In other words, our customers that have an Analog system can upgrade to our Digital system, as DHS offers conversion kits for both Gensets and ECUs. Once conversion is done, all units can operate in a digital programmable power grid."

In terms of IPT's energy saving capability, Richard stated, "From the Army's NIE 13.1 Ft. Bliss operation, they reported that fuel consumption decreased from 300 gallons a day to 109 gallons a day using our IPTs. That is a 64% fuel savings."



IPT version three includes new features that enhance operations.

Video Support Corner: Intelligent Power Technology® (IPT) Operator Training video

DHS launched its IPT Operator Training video so that customers in the field have access to on-demand IPT training from their mobile devices. The video takes viewers through a step-by-step guide on how to set up the IPT system. Viewers can watch the video from start to finish, or they can reference segments that answer specific queries.

The IPT video is a tool that is supplemental to the training provided by DHS representatives.

For additional support, please call 1-877-GO-DRASH or visit our website to locate a DHS representative nearest you. Email inquiries should be directed to drash@drash.com. For all other information, please visit drash.com.

Visit www.drash.com/iptvideo to watch the IPT Operator Training video.



Customers can access on-demand IPT training with the Operator Training video.

DHS Systems reveals several DRASH applications to international market at IDEX 2013

DHS Systems International (DHSI) attended the International Defence Exhibition and Conference (IDEX) in February to demonstrate the versatility of its Deployable Rapid Assembly Shelters (DRASH).

The conference took place at the Abu Dhabi National Exhibition Centre (ADNEC), in Abu Dhabi, United Arab Emirates, where DHSI displayed its DRASH systems.

The DRASH systems highlighted three different applications: one 442 square foot shelter served as a medical facility; one 519 square foot shelter served as a command and control center; and a 109 square foot shelter served as a small command post.

DRASH Deployable Command and Control Equipment (DC2E) brought the DRASH systems to life. The DC2E products included display systems, audiovisual systems, microphone systems, time zone clocks and Intelligent Data Distribution Systems (IDDS™).

Andy Cowling, Managing Director of DHSI said, "IDEX provided the perfect outdoor setting to display the DRASH systems and I was delighted with the considerable level of interest shown in the shelter systems. We had to work hard to meet the demand for demonstrations of the shelter being erected, particularly at the start of the show. The Middle East remains a significant potential market for us and I now look forward to more detailed discussions by interested parties".

DRASH shelters combine with DC2E equipment and energy efficient power generation to form a total system solution for warfighters everywhere. DRASH systems are operational regardless of mission, environment, and energy requirements.



DHSI displayed DRASH versatility during the IDEX conference.

DHS Systems supports the 'plunge' for Special Olympics

On February 2, and 22- 23, DRASH representatives were "Freezin' for a Reason". The reason was to support the Special Olympics through the organization's Polar Plunge. As the event's tagline suggests, participants volunteer to plunge into freezing waters to help raise money for the Special Olympics.

DHS Systems representatives took part in two Plunge Events this year, one at Liberty Lake, WA and the other at Prospect Lake, CO. In addition to giving a monetary donation, the company also provided their Deployable Rapid Assembly Shelters (DRASH) to accommodate event participants.

At the Prospect Lake event, two DRASH tents were set up for participants to change in and out of their swim gear, and to warm up after their icy plunge. DHS representative Jesse Miller received positive feedback at the event. He stated, "The event organizers were extremely grateful that we were able to support their event. We even had some swimmers that came up and thanked us for letting them use our shelters."

At the Liberty Lake event, two DRASH Trailer Mounted Support Systems (TMSS) were also set up as warming shelters for event participants. One TMSS was a general warming tent that housed over 200 participants. The other TMSS served as a VIP warming tent for personnel who donated an exceptional amount to the event. In addition to the TMSS systems, another DRASH shelter was set up as a medical post and warming station for the Safety Diving Team.

DHS representative Keith Edwards who was present at the Liberty Lake event said, "The DRASH warming shelters really came in handy, especially to those who went into the water multiple times. In fact, a relative of a DHS employee took the plunge 24 times during the event! Overall this was a very positive event and we at DHS were glad we could support it."



DHS representatives pose outside the DRASH TMSS system.

DHS attends Marine West, exhibits a total system solution for the Corps

Every year, the Marine West Expo hosts the latest in war fighting technology designed to benefit the current and future Marine Corps. This year's Expo took place on February 13-14, at Del Mar Beach in Camp Pendleton, California. DHS Systems, known for its Deployable Rapid Assembly Shelters (DRASH), is diligent in supplying the Marine Corps with the most advanced technology to help them overcome challenges and meet demands. At the Marine West Expo, DRASH shelters formed an energy efficient command operations center. The command operations center was powered by an Intelligent Power Technology® system, and outfitted with Deployable Command and Control Equipment (DC2E),

DHS' command operations center comprised a DRASH MX Shelter and a 2XB Shelter. The MX Shelter offers 442 square feet of useable area, and is most recognized as part of the Trailer Mounted Support System (TMSS) for the Army's Standard Integrated Command Post System (SICPS). The 195 square foot 2XB Shelter can stand-alone or connect to other shelters, and is known for establishing command and control, life support, medical centers, and surge facilities quickly and efficiently. An integral part of the command operations center was the DC2E equipment. DC2E demonstrated how a lightweight, portable communications integration system simplifies information management by fusing multiple feeds of information onto a single display.

DHS' participation in Marine West is directly related to its association with the Marine Corps. In describing this relationship, Eddie Hughes, Director of Field Operations, commented, "The U.S. Marines Corps has a history of turning to DHS for reliable and battlefield proven solutions to help them conduct numerous operations around the world. Marine West is another platform for DHS to demonstrate how our products are designed to improve their missions."

DRASH shelter systems have been used to support numerous missions across the globe. The systems are used extensively by the 13th Marine Expeditionary Unit (13 MEU), 3rd Intelligence Battalion (3 INTEL) and Marine Aircraft Group 31 (MAG 31).



An MX Shelter and 2XB Shelter displayed at Marine West.

DHS puts the ‘Security’ and ‘Management’ in Homeland Security and Emergency Management

On February 11-13, DHS Systems attended the 48th Annual Minnesota Governors Homeland Security and Emergency Management Conference. The venue was an opportunity for attendees to re-assess the needs of the Homeland Security and Emergency Management market.

DHS Systems has provided Homeland Security and Emergency Management agencies with its Deployable Rapid Assembly Shelters (DRASH) for many years. These turnkey shelter systems have a light-weight, rugged and modular infrastructure that makes them a top choice for a range of missions.

The company also offers a variety of support equipment that integrates with DRASH shelters so that security and emergency personnel can establish a complete system to fit their specific needs. DHS has a full line of communications equipment, titled Deployable Command and Control Equipment (DC2E), which is comprised of projector systems and audiovisual switching systems. These systems combine multiple feeds of information onto a single display, creating a better visual platform for personnel to assess emergencies. In addition to DC2E, DHS offers a full range of emergency medical equipment through its Reeves EMS brand. Stretchers, decontamination systems, mobile showers, mobile surge facilities and vaccination systems are among the many products available through Reeves EMS.

DHS Systems representative Jesse Miller commented on the feedback regarding DRASH and Reeves saying, “The most common comment that I am told, when speaking with homeland security and emergency management personnel, is how easy it is for them to use our systems. They like the fact that with minimal personnel or additional equipment, they can quickly set up their command posts or medical centers, and be ready for their scenario. They greatly appreciate the fact that we don’t just sell them equipment, but that we provide all the service, planning, and training support that they will need to ensure that they are confident with the equipment and that it will last them for years to come.”



DHS provides solutions to emergency medical personnel through its Reeves EMS line.

DRASH systems enable Homeland Response Forces to establish command and control, medical care, search and extraction, decontamination and security at the scene of an incident. DRASH shelter systems combined with DC2E communications equipment and Reeves emergency medical products, form the ultimate solutions for Homeland Security and Emergency Management.