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845-359-6066  
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## New Mobile Bottling System To Revolutionize Military Water Supply

Imagine an unlimited supply of pure drinking water from the Euphrates, Mississippi, Ganges, or any local water source next to your camp. The quality would be monitored and consistent, greatly reducing the risk of contamination from outside sources, there would be no need for expensive delivery convoys, and the entire process would remain within military control and supervision.

This is not just a pipe dream. DRASH manufacturer DHS Technologies recently teamed up with leading portable air and water separation company Pacific Consolidated Industries to create a revolutionary new mobile water purification and bottling system called DROPS, or Deployable Reverse-osmosis Ozonation Purification System Mobile Bottling Facility.

The facility uses a special reverse-osmosis ozonation purification system to purify and filter water from any source into clean bottled drinking water for military and civilian communities. Because the facility is mobile, ev-

ery step of the DROPS process, from water procurement to final bottled product, is done wherever it is needed most, and there is no need for expensive convoys to carry water across national border lines.

**"This could revolutionize the delivery of bottled water on the battlefield."**

"This could revolutionize the delivery of bottled water on the battlefield," says DROPS project manager Mike Moran. "This means that water can be brought in from a bore hole or the sea to become pure enough for drinking at the end of the process."

The mobile nature of the facility also reduces the risk of outside contamination.

According to the U.S. Army Center for Health Promotion and Preventative Medicine: "Sabotage of bottled water at any point in the [current water delivery] system could harm soldiers and disrupt their ability to accomplish their mission."

DROPS' complete mobility reduces the risk of contamination from outside sources because the entire process, from water procurement to final bottled product, is monitored on site.

To ensure a great tasting, fresh water supply, testing is also done at the facility. This ensures that each drop of water produced on location meets FDA, EPA, International Bottled Water Association (IBWA), and World Health Organization (WHO) guidelines and standards regardless of its water source.



Additionally, the DROPS Mobile Bottling Facility is cost effective. Compared to current water procurement procedures that involve expensive logistics and distribution methods, the cost for the entire DROPS process is minimal.

There are several ways that an interested party can purchase DROPS. The entire process can be deployed, managed and controlled by DHS and Pacific Consolidated Industries, which means that clients would only have to pay for the end result — pure, fresh bottled water; or clients may purchase the entire system to deploy themselves.

The DROPS Mobile Bottling Facility made its marketing debut at the AUSA event in October 2006.

For more information about DROPS, contact Ron Houle at 202.558.5155, Reuben Padilla at 951.479.0892, or Mike Moran at 44(0)1432 277 197.

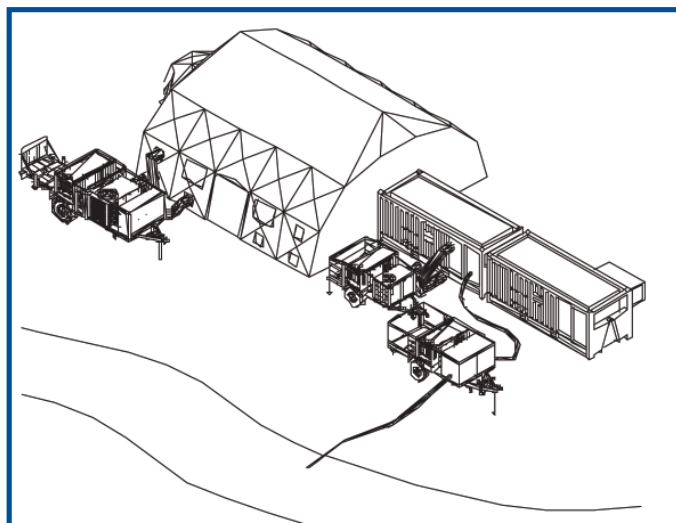


Diagram of a DROPS Mobile Bottling Facility.

## Vice President Cheney Visits Fort Stewart



On July 21, 2006, Vice President Dick Cheney visited Fort Stewart, Georgia to offer encouragement and gratitude to the 3rd Infantry Division soldiers and their families.

The Vice President exited the DRASH shelter complex where he had been meeting with individual soldiers to be greeted by a sea of Army Combat Soldiers who filled the field around him from every angle.

"You've made a tremendous difference to this nation, and I'm proud to be in your company," said Cheney, reminding those present

that their hard work is what is keeping our nation safe.

"Terrorist attacks are not caused by the use of strength; they are invited by the perception of weakness," he said. "And this nation has made a decision – we will engage these enemies, facing them far from home, so we do not have to face them on the streets of our own cities."

The Vice President also praised the people living in the surrounding region, saying, "Soldiers and families of Fort Stewart are reminded every day that you live in a hard-working, patriotic part of the United States."

After speaking, the Vice President administered the Oath of Enlistment to Cpl. Jerrod Fields, of Troop C, 3rd Sqdn., 7th Cav., who

was wounded by an improvised explosive device during Operation Iraqi Freedom III. The injury resulted in the amputation of his left leg below the knee. Nevertheless, the 24-year old cavalry scout re-enlisted.

"I just want to get promoted, go on more deployments, and train my soldiers," said Fields.

After congratulating Cpl. Fields, the Vice President shook hands with other soldiers crowded around the stage and signed pieces of paper and U.S. flags.

"His coming here shows that the people higher up really do look

out for us and care about what we think," said Pvt. Terry Knapp of the 7th Cavalry Regiment. "It was a moving speech."

**The Vice President exited the DRASH shelter complex ... to be greeted by a sea of Army Combat Soldiers who filled the field around him from every angle.**



The Vice President takes a moment to congratulate Cpl. Fields on re-enlisting, despite a major IED injury.

## DRASH Sponsors New NASCAR Reality Show

NASCAR racing fans, members of the military and anyone possessing an ounce of patriotism can look forward to a new DRASH-sponsored television reality series within the next couple of months.

The recently taped episodes of the “Ultimate Pit Warrior Challenge” included 38 active-duty military personnel who competed for a chance to win the title of “Ultimate Pit Warrior.” The winner would win a sum of money and have the opportunity to work as part of a Pit road crew team during an Atlanta Speedway NASCAR racing event this year.

Co-executive producer Rick Bieber says that the idea for the show came from fellow co-producers NASCAR Pit legend Jeff Hammond and sports agent Doug Ames. According to Bieber, Hammond and Ames approached him about putting together a reality show that brought together contestants



Pictured: Contestants take part in various Pit crew technique exercises during the taping of the show.



that were big fans of NASCAR.

Bieber, who has produced well-received films such as *Made in America*, *Radio Flyer* and *Flatliners*, liked the idea, particularly when the plot took a recent twist that involved the military.

“Combining NASCAR racing and focusing on the men and women who serve our country made what was just an idea into so much more,” says Bieber. He also hinted that [at least during the filming] the tone of the show was quite intense.

“The competition was really fierce,” said Bieber, “The show will be great for NASCAR racing fans, but it will also attract viewers from all walks of life. There are some very personal and dramatic moments that take place during the competition that really make you want to get behind some of the contestants and root for them.”

**“Combining NASCAR racing and focusing on the men and women who serve our country made what was just an idea into so much more.”**

The airing date for the show is yet to be determined.

Visit [www.drash.com/news.html](http://www.drash.com/news.html) for fre-

## DRASH Enters “The Kingdom” Movie Set

Peter Berg’s newest flick *The Kingdom* is using DRASH shelters on its set at Arizona State University Polytechnic campus.

The movie, which is scheduled to debut in the spring of 2007, stars Jamie Foxx, Jennifer Garner, Chris Cooper and Jason Bateman as a four-person FBI team sent to the Middle East to investigate the bombing of a U.S. facility.

DRASH J shelters were used for major filming sequences, and XB shelters were used as background props.

According to DRASH business development manager Jeff Jackson, “Without giving too much away, the movie is a great, action-packed film that is sure to entertain. Some of the more pivotal scenes were held in our shelters.”

The movie’s actors and crew spent most of the summer filming in extremely high temperatures that ranged above 101 degrees.



DRASH shelter used as a temporary morgue on *The Kingdom* set.

## Shelter a Hit at Ribbon Ceremony

On July 18, 2006, DHS Systems joined area business leaders for the opening of the South Point Business Park in Huntsville, Alabama.

The ceremony, which was held at DHS Systems' 130,000 square foot manufacturing facility within the 260 acre business park, included prominent area guests such as the Alabama Deputy Governor and County Commissioners as well as business park owner Joe Hollingsworth.

To keep a constant comfortable temperature in the sweltering 100 degree weather, DHS Systems provided a 4XB Model Shelter and Trailer Mounted Support System (TMSS) HP2C/185 UST Trailer for guests at the event.

As per Jason Kerr, DHS customer service representative, the shelter's cooling capabilities made it the most popu-

lar location during the entire event, and evoked much comment.

"I was definitely impressed with the swift set up" said Hollingsworth Industrial Real Estate Director Ralph Edwards, "The technology of this

**"The technology of this whole DRASH system is awesome."**



Inside the DHS Systems' 130,000 square foot facility.



An external view of DHS Systems' Huntsville manufacturing facility.

plant for business shortly as a production facility for its Standard Integrated Command Post System Trailer Mounted Support System (SICPS/TMSS) Medium and Large programs.

For more on the SICPS/TMSS programs, visit DRASH online at [www.drash.com/news.html](http://www.drash.com/news.html).

whole DRASH system is awesome." DHS Systems plans to open its new

# TIPS & TRICKS



To download a free DRASH Tips & Tricks video visit us online at [www.drash.com/videos.html](http://www.drash.com/videos.html).

**Periodic Maintenance for your D-1000 Heater will extend its lifecycle and keep it running optimally.**

Particularly before and during the cold weather months, periodic maintenance of your D-1000 Heater is necessary and must be part of the daily routine of operating the heater. To ensure optimum operations, maintenance activities should be performed daily, monthly and annually.

### Daily Maintenance

**Check the following points prior to starting the heater:**

- Ensure that both duct covers and the exhaust stack port cover have been removed.
- Inspect both ends and the exhaust stack port for any debris, and remove debris.
- Remove any major bends in the ducts.
- Verify that the fuel tank is full.
- Verify that the exhaust stack is properly installed.

### Monthly Maintenance

- Clean the input air filter with mild detergent.
- Clean the fan blades.

### Annual Maintenance

- Check all nuts, bolts, fittings, and connections for looseness. Tighten as required.
- Replace the output air, lint and input filters.
- Clean or replace the fuel filter.
- Drain and flush the fuel tank.

# PRODUCT *tips*

## Booting Up the DRASH

There are many reasons why a DRASH boot may be purchased, but one of the primary ones is to enhance a unit's capabilities by enabling a light tight and weathertight fit between the vehicle and shelter.

DRASH boots are custom designed and manufactured to create a secure connection between a vehicle and any DRASH shelter. All DRASH boots include a floor, vehicle connection sleeve and shelter connection sleeve to completely seal in the shelter.

"The DRASH shelters and boots are completely weather proof," says manufacturing supervisor Brian Mindich. "Meanwhile, our electrical equipment ensures optimum lighting inside the shelter."

Although every boot is custom designed to fit individual vehicles and shelters, DHS Systems uses two basic shelter connection design variations: a Door Boot and a T Boot.

The Door Boot, which is the more popular of the designs, can



A Humvee using a T-Boot to attach to a DRASH 4XBT.

fit into a doorway of a shelter. The T Boot attaches to a truncated shelter and offers a much larger opening.

In addition to the two basic designs, DRASH boots also come in different models that have been established over the years to fit different vehicle and shelter configurations.

Despite the fact that different models are available, it is necessary for anyone wishing to purchase a DRASH boot to first fill out a detailed questionnaire that includes information such as type of vehicle, measurement, and detailed photos.

"We can make a DRASH boot fit almost anything," says manufacturing supervisor and boot designer Bill Coe, Sr. who has been designing custom boots for DRASH customers for more than 11 years. "However, it is best if the customer tells us exactly what they want first to ensure that they get the exact fit."

Bill who has traveled to the customer on numerous occasions to ensure the right design, says that it is impossible for him to tell how many different custom boots he has designed over the years.

Says Bill, "Everyone's need is different, but we do our best to provide an end product that is exactly the right fit."



A door boot attachment

### DESIGNING YOUR CUSTOM

## DRASH<sup>®</sup> BOOT

- Call your business development representative. If you need to find a representative near your location visit [www.drash.com/map.html](http://www.drash.com/map.html).
- You will receive a questionnaire that asks for specific details about your vehicle and the shelter that the boot will attach to. This questionnaire will allow you to customize your boot to not only fit your vehicle but to fit your unit's unique needs as well.
- Once the questionnaire is filled out and returned, DHS Systems' boot designers will begin work on your design. If further measurements are needed or there are specific attachments to the vehicle, such as antennas or power outlet boxes, the designer may visit the vehicle.

All DRASH boots are custom designed to fit your unique needs in the field.



## QA Director Goes to the Source for Quality Assurance



DRASH QA Director Frank Palladino

As an ISO-9001:2000 compliant company, DHS Systems must assure that all of its processes are in sync with the strict regulations of ISO-9001:2000. QMI Management Systems Registrations, the leading quality registrar in North America, has been instrumental in helping DHS achieve this goal.

QMI's focus as a registrar is to assist clients in using the registration process to make real and lasting improvements in their business operations. This

focus reflects business trends of process-based auditing and the development of standards that concentrate on improving quality in customer focused operations. The QMI audit staff typically works closely with a company's quality management team to bring this about.

Heading up quality assurance at DHS is Quality Assurance Director Frank Palladino. His resume includes an impressive array of companies and products, including: Systems Engineer for UNISYS: TRIDENT II Submarine Navigation; QA Manager for Allied Signal/Honeywell: Apache Helicopter (AH64) Avionics; QA Director for Bogen Communications (Telecommunications); Task Manager for the BAE: Future Combat Systems (FCS); and, of course, DHS Systems.

### KEEPER REPLACEMENT KITS NOW AVAILABLE

DHS Systems is now offering keeper replacement kits for all of its model shelters. Kits are available in interior white, and exterior green or tan sets, and may be purchased when replacing interior or exterior shelter covers during routine maintenance procedures.

All kits are listed in the **DLA/DSCP Schedule with NSNs for immediate purchase**. For GSA and additional information, contact the DHS Contract Administrator at 845-359-6066.

**DRASH News:** What's the difference between Quality Assurance and Quality Control?

**Palladino:** "Quality Control is when you inspect an item at the end of a process. Quality Assurance is the planning and associated process controls that are implemented with the sole purpose of assuring stability in the many processes that should translate to minimal Non-Conformances. If the various company processes each assure the quality of their own outputs, and if the overall manufacturing process is adequately designed, theoretically, the end product will be defect free. Adding inspection points to a process should only be used as a temporary measure. The real solution is to refine the process that is causing the defects that requires inspection. One of my goals is to one day transition the focus of QC to become more of a process monitoring function rather than product inspection.

**DRASH News:** What is DHS doing to ensure Quality Assurance processes are in place?

**"It is critical that DHS products keep consistent quality standards."**

**Palladino:** "It is critical that DHS products keep consistent quality standards. To reach this end, all stakeholders (Suppliers, Purchasing, QA,

Engineering, and others) need a common point of reference – the engineering drawing. When engineering drawings are kept up to date and clearly delineate our expectations, then it makes it easier for them to assure process and product compliance. DHS has some work to do in this respect. This was mostly due to an explosive growth in sales and the DoD's immediate need for product. However, Richard Chou (the new Engineering Manager) and his team have made inroads in drawing development. Having all DHS stakeholders read from the same page will go a long way in improving the various company processes and associated products.

**DRASH News:** What types of Quality Control processes are in place to ensure that products sent to the customer are without defects?

**Palladino:** "We currently have a skilled team of quality control professionals led by Quality Control Manager Kurt Bratier who check all of our products before they go out the door. If problems are identified, they are logged into a Non-Conformance Report database. This allows QA to identify, over the course of a month, any and all defects prior to them becoming massive. QA then uses the 'Root Cause Analysis' technique in problem solving to break down the problem to an assignable Root Cause and work with the Process Owner on its Corrective Action. In addition to problem definition, I am proud that all QA/QC personnel are actively involved in problem solving and continuous improvement at all levels."

# PRODUCT *watch*

## Shelter Provides Satellites with Protection from the Elements

Many of the best DRASH products have been created to fulfill a basic military need, oftentimes as per suggestions from those who actually use the products.

This is exactly the case with the DRASH Phoenix Shelter System, or PSS.

In a chance encounter with personnel at Fort Bragg, business development representative Brad Stobb happened to overhear that AN/TSC-156 Tactical SHF Satellite Terminals were having a difficult time adapting to the intense desert heat overseas.

The solution: build a shelter around it.

DHS got to work and constructed a special shelter that would act as a barrier to the elements for the AN/TSC-156 Satellite Terminal. In addition to its cooling capabilities, the PSS provides protection and ample operational room in comfortable conditions.

At 10' 2" long, 8' 10" wide, and 7' 10" high, the DRASH PSS is built to fit the AN/TSC-156, but can also be adapted to fit any Triband satellite system.

It is attached to a 1XBT end shelter, which provides an additional 98.3 sq ft of space for storage and operation and is reinforced with the (SRS) Seam Reinforcement System.

The PSS is easily deployed when packed into two, two-man lift soft cases and can be transported on the AN/TSC-156 (MPU) Mobile Power Unit or a standard 463-L pallet.

The PSS can be erected with minutes with a minimum of 4 soldiers and the 4 push poles provided with the 1XBT.

The shelter also provides 4 environmental control unit (ECU) ports, a supply and return ports located on each side that are compatible with all models of ECU's. It provides 2 Cable Ports, one on each side of the shelter to allow access for RF/IF Cables. In order to cool the PSS and provide additional cooling to the satellite antenna,

the PSS provides 1 soft plenum, 1 hardened antenna supply duct connected with a booster fan to force air into the shelter and the satellite antenna.

The PSS has two screened door vents, 18" flaps with grommets to secure to the ground and provide proper drainage. Exterior wind lines are pre-attached for additional stability and must be staked down.

The fabric seams are sewn to prevent leaks and to improve durability. Areas of high wear are reinforced with a layer of fabric, and hard flooring is available. Standard doors (4' x 7') enable moving of equipment in and out of tent with ease.

Doors are field-replaceable and include velcro systems on inner and outer doors. The PSS provides 4 ECU ports and 2 cable ports that can be closed when not in use. A standard field repair kit is provided for a tear of 6' or less and to repair damaged struts. The tent (fabric) has been tested by the US Military at Aberdeen Proving Ground and has met all military soft shelter requirements for wind, rain and snow.



# TIPS & TRICKS

To download a free DRASH Tips & Tricks video visit us online at [www.drash.com/videos.html](http://www.drash.com/videos.html).

## Priming your SICPS/TMSS Medium Webasto Heater

To prime the Webasto heater at first startup or if it runs out of fuel:

- Check fuel levels.
- Check Webasto fuel line to see if fuel is visible.
- If fuel is not visible, it's time to prime the Webasto heater.
- Remove fuel line from heater.
- Turn heater selector switch to Manual On.
- Fuel pump will begin pumping.
- Keep your eyes on the fuel line.
- When fuel has pumped into the fuel line, turn Selector Switch to Off.
- Reconnect fuel line to heater.
- Heater is now primed.

—Submitted by DHS Systems Technical Representative Johnny Smith

## WIN AN IPOD SHUFFLE!

With **DRASH**  
"Pics for Pod"



Send in a photo or photos of one of the DRASH Sheltering Systems as it is being used by your unit, and we will enter you in a raffle to be one of several winners for an Apple iPod Shuffle.

Photos must be in color and in a high resolution digital format and be accompanied by a brief caption explaining where and in what context the photo was taken.

Send your entries directly to the editor at [editor@drash.com](mailto:editor@drash.com) or to the *DRASH News* Editor, 33 Kings Hwy, Orangeburg, NY 10962 by **Friday, December 1, 2006**. Winners will be announced in the next issue of *DRASH News*.

## ABOUT DHS SYSTEMS

DHS Systems LLC is the leading manufacturer of Deployable Rapid Assembly Shelters, or DRASH, which are high-tech, soft-walled shelter systems serving military, medical, government and civilian needs. In business since 1984, the company enjoys the experience and professionalism of a seasoned team of more than 300 engineers, designers, manufacturing professionals, project managers and customer support staff. DHS Systems has two main facilities. Its headquarters and manufacturing plant is located in Orangeburg, NY (south of West Point). The second facility in Huntsville, AL serves as a technical support and business development center. Additionally, other regional support facilities are located throughout the United States and around the world.

For 24-hour, 7-day service and parts requests, contact us at **800-977-3647**. For customer support contact us at **877-GO-DRASH**.

*DRASH News is published for DHS Systems' U.S. Military customers and associates. Subscription requests or comments about the content of this newsletter can be sent to the DRASH News Editor, 33 Kings Highway, Orangeburg, NY 10962, 845-359-6066, ext. 174 or [editor@drash.com](mailto:editor@drash.com).*

*The Quality Management System at DHS Systems LLC is registered to ISO-9001:2000 and has been registered with QMI since 1999.*

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