

# Periodic Table of Strike Force Response Equipment



<p><b>LA</b> AST GST PST</p>  <p><b>Level A</b> Level A protection is required when the greatest potential for exposure to hazards exists and when the greatest level of skin, respiratory and eye protection is required. Shown here with a toxic vapor analyzer (detects organic and inorganic gases) and a multi-gas detector (monitors four atmospheric hazards at the same time). Inside the fully-encapsulating chemical resistant suit is a hard hat and a SCBA.</p>	<p><b>LM</b> AST GST PST</p>  <p><b>Ludlum Model 2241-3</b> Ludlum Model 2241-3 is a portable microprocessor based digital scaler/ratemeter for measurement of ionizing radiation. The Ludlum 2241-3 has changeable probes that allow for detection of Alpha, Beta, Gamma, and Neutron radiation.</p>	 <p><b>Atlantic Strike Team (AST)</b> Ft. Dix, N.J. (609) 724-0008</p>		 <p><b>Pacific Strike Team (PST)</b> Novato, CA. (415) 883-3311</p>		<p><b>VOPS</b> AST GST PST</p>  <p><b>Viscous Oil Pumping System</b> Viscous Oil Pumping System VOPS is designed to be incorporated into and enhance an existing offloading pumping system. It is designed to be used when the oil characteristics to be pumped create higher frictional hose resistance than either the pump or the hose system can handle in the form of discharge pressure. The system is based around the concept of injecting a small amount of water via a uniquely designed annular injector into the internal circumference of a pipe or hose that is pumping oil. The water forms an internal coating, or tube of water, between the oil and the pipe wall. This water sleeve replaces the oil-to-hose wall friction factor with an oil-to-water friction factor.</p>	<p><b>RHIB</b> AST GST PST</p>  <p><b>Rigid Hull Inflatable Boat</b> Rigid Hull Inflatable Boat has a fiberglass keel and deck. It can be used to deploy harbor boom, transfer personnel and conduct other logistical tasks. It is powered by two 40-horsepower outboard engines and is mounted on its own road-ready trailer for transport over the road or by C-130. The GST and PST have one 17-foot RHIB and the AST has a 50-horsepower 18-foot RHIB.</p>
<p><b>LB</b> AST GST PST</p>  <p><b>Level B</b> Level B is worn when the same level of respiratory protection is required as in Level A, but a lesser degree of skin protection is needed. Level B protective clothing includes a one piece ensemble with the SCBA worn outside the garment. Separate gloves and boots are sealed at the interfaces to minimize chemical penetration. Shown here with a chemical weapons detector and identifier (detects nerve and blister agents, as well as gamma and X-ray radiation) and a single beam infrared spectrometer (scans five distance gases simultaneously).</p>	<p><b>TD</b> AST GST PST</p>  <p><b>Turner Designs C3</b> Turner Designs C3 Submersible Fluorometer uses up to three optical sensors to rapidly collect and report real-time scientifically based information during a dispersant operation.</p>	 <p><b>Gulf Strike Team (GST)</b> Mobile, AL. (251) 441-6601</p>		 <p><b>National Strike Force Coordination Center (NSFCC)</b> Elizabeth City, N.C. (252) 331-6000</p>		<p><b>IB</b> AST GST PST</p>  <p><b>Inflatable Boom</b> Inflatable Boom's purpose of the boom is to provide a barrier to contain, collect, or protect areas from oil floating on the water. The inflatable boom is designed to be rapidly deployed and recovered with a minimum amount of manpower. In 30 minutes four personnel can deploy 656 feet of boom from the reel or retrieve it from the water. A diesel hydraulic power pack supplies hydraulic power to the integral air blower and to the boom reels. A tool box containing spare parts and accessories completes the staging unit inventory. Each strike team has more than 6,500 feet of inflatable boom on hand.</p>	<p><b>J</b> AST GST PST</p>  <p><b>18-foot Johnboat</b> 18-foot Johnboat is an aluminum-hulled vessel. The boat can be used to deploy harbor boom, transfer personnel and conduct other logistical tasks. It is powered by one 50-horsepower outboard engine and is mounted on its own road-ready trailer for transport over the road or by C-130. Each strike team has one Johnboat.</p>
<p><b>LC</b> AST GST PST</p>  <p><b>Level C</b> Level C has the same level of skin protection as Level B, but a lower level of respiratory protection. One or two-piece splash suits are worn with a cartridge respirator. Chemicals are not hazardous via skin absorption and are typically well below established exposure limits. Level C is required when the concentration and type of airborne substances are known and the criteria for using air purifying respirators is met. Shown here with an airborne particulate monitor (detects dust, smoke, fumes and mists) and a particulate air sampling pump (can take four simultaneous samples).</p>	<p><b>GRAE</b> AST GST PST</p>  <p><b>Rae Systems GammaRAE II</b> Rae Systems GammaRAE II is a gamma source detector and dosimeter. The GammaRAE II is intrinsically safe and can be operated in a potentially flammable/explosive environment.</p>	<p><b>A-D HMRT</b> AST GST</p>  <p><b>Air-Deployable Hazardous Material Response Trailer</b> Air-Deployable Hazardous Material Response Trailer: The "Level A" chemical response trailer houses all chemical response gear and is self-sustaining for one to three days. The AST and GST have this capability.</p>	<p><b>PL</b> AST GST PST</p>  <p><b>Pump Load</b> Pump Load: The large pumping system is designed for lightering oil tankers and cargo vessels. The submersible pumps incorporated in the ready load are capable of pumping a wide range of petroleum products, mild acids, corrosives, and water. The large pumping system is pre-staged on a trailer and palletized into four segments, ready for rapid deployment by aircraft or tractor trailer.</p>	<p><b>MICP</b> AST GST</p>  <p><b>Mobile Incident Command Post</b> Mobile Incident Command Post consists of two full length semi trailers that can be completed together to create a large mobile office/command post on any response site. It is road-deployable anywhere within the continental United States. The AST and GST each have one MICP.</p>	<p><b>SORS</b> USCG</p>  <p><b>Spilled Oil Recovery System</b> Spilled Oil Recovery System (SORS) The USCG Wild Spilled Oil Recovery System (SORS) is a modern, high performance, over-the-side, single ship recovery system, designed to be used on a Coast Guard Buoy Tender (WLB) for response to an environmental emergency. The SORS is comprised of two identical sweeping and skimming systems. The standard operating procedure is to deploy one system over the side of the vessel and deploy one temporary storage bladder over the other side.</p>	<p><b>TANB</b> AST GST PST</p>  <p><b>26-foot Trailerable Aids to Navigation Boat</b> 26-foot Trailerable Aids to Navigation Boat (TANB) was acquired in 2010 to replace the 32-foot Munson and the 23/24-foot Sea Arks. The TANB will be used to deploy boom, transfer personnel and conduct other logistical tasks. The TANB is powered by twin 150-horsepower outboard engines and is mounted on its own ready trailer for deployment over the road or by aircraft. The TANB integrates the NSF's small boats into the Coast Guard's Small Boat Production Line for maintenance and support. Each strike team has two TANBs.</p>	
<p><b>LD</b> AST GST PST</p>  <p><b>Level D</b> Level D is the minimum protection required. Protection is primarily a work uniform. Shown here with a RAD Backpack (detects gamma ray and thermal neutron radiation), pocket radia (detects radiation), RAD pager (measures gamma and neutron rate) and a handheld spectrometer (provides gamma dose and rate and neutron count rate, source finder and automatic nuclides identification).</p>	<p><b>SDGID</b> AST GST PST</p>  <p><b>Smiths Detection Gas ID</b> Smiths Detection Gas ID is a portable gas and vapor identifier that uses Fourier-Transform Infrared Spectroscopy for qualitative materials analysis. The Gas ID can identify more than 5,500 gases and vapors.</p>	<p><b>HMRT</b> AST GST PST</p>  <p><b>Hazardous Material Response Trailer</b> Hazardous Material Response Trailer: The HMRT trailer houses all chemical response gear to sustain a response for three to four days. It is road-deployable anywhere within the continental United States without need of special permits and can be deployed by aircraft. Each strike team has one HMRT.</p>	<p><b>VOSS</b> AST GST PST</p>  <p><b>Vessel of Opportunity Oil Skimming System</b> Vessel of Opportunity Oil Skimming System VOSS is a modular oil recovery skimming system that can be secured to, and operated from, a vessel of opportunity at a spill site. With this system, a vessel between 60 to 400 feet in length can be quickly transformed into an oil recovery vessel.</p>	<p><b>C2T</b> AST GST PST</p>  <p><b>Command and Control Trailer</b> Command and Control Trailer (C2) is a 38-foot mobile command post that provides a tactical command and response platform to maintain situational awareness during response operations. Each strike team has a C2-Trailer.</p>	<p><b>SS</b> AST GST PST USCG</p>  <p><b>Sea Slug</b> Sea Slug: The Fluid Containment Bladder is used for storage and transportation of recovered fluid during oil spill recovery operations. The FCB is a flexible, closed tube tapered at each end with a cast aluminum fitting assembly designed to distribute the towing load to the container fabric. The FCB comes with all fittings and gear for filling and towing operations at sea and can additionally be used for fluid storage on land.</p>	<p><b>FR</b> AST GST PST</p>  <p><b>Flood Response Trailer</b> Flood Response Trailer Two Johnboats with two outboard motors are stacked on a two-axle trailer with two ATVs and fuel for rapid deployment for flood response. They can be transported by road or C-130. Each 14-foot Johnboat is an aluminum hulled vessel powered by one 20-horsepower outboard engine. The boat can be used to deploy harbor boom, transfer personnel and conduct other logistical tasks. The ATVs are four wheel drive, light terrain vehicles. The strike teams have different makes and models of ATV in their inventories to perform a variety of functions from personnel transport to carrying equipment.</p>	

**Table Key**

Item Initials  
Photo of item


**LA** AST GST PST

Team equipment is assigned to \*\*USCG - This item is pre-staged around the world

Level A - Item name  
Item Description

Box Color

- Protective Equipment Group
- Sensor Group
- Trailer Group
- Recovery Equipment Group
- Boat Group
- Miscellaneous Equipment Group



**FAB** GST




**Fly-Away Box**  
Fly-Away Box: The GST developed the "fly-away" box to address the need for an easy-to-deploy offshore HAZMAT load for the NSF. This ISU-90 box is air-loadable, containing similar standard level "A" trailer load. With the small size, the team is able to deploy this gear by air, boat or a combination of the two. Keeping the contents modular allows responders to load the specific gear that is required and deploy the box to a platform, offshore vessel or remote location to conduct a HAZMAT response.

**TSIP** AST GST PST




**TSI Portacount 8038**  
TSI Portacount 8038 is a respirator fit-tester that provides quantitative analysis of all types of respirators. The fit test measures mask fit under conditions that approximate actual use.

**CESWP** AST GST PST



**Coastal Environmental Systems Weather Pak**  
Coastal Environmental Systems Weather Pak MTR provides on-site, real-time weather data for Chemical, Biological, and Radiological responses. The Weather Pak also incorporates an integrated GPS and an ultrasonic wind sensor.

**M-ANDROS** AST GST PST



**Mini-ANDROS II Robot**  
Mini-ANDROS II Robot provides the NSF with visual first responder capability. It can be used for remote atmospheric testing and is equipped with a video uplink system that can provide downrange intelligence for entry teams. The visual data can also be provided to key decision makers. The robot can be operated at a distance of 1,200 feet through fiber optic cable. Each strike team has one Mini-ANDROS II robot.

**RK** PIAT



**PIAT Response Kit**  
PIAT Response Kit: The Public Information Assist Team brings a response kit to every incident. The kit includes tools that are needed to accomplish their mission, such as news release distribution, photography, videography and recording television news broadcasts for media analysis and documentation.



*"The World's Best Responders: Any Time, Any Place, Any Hazard"*

