

## Surface Ship Force Protection A Less-than-lethal Option for the U.S. Navy

*Preliminary*

- Safe, humane and effective
- Minimal training
- Minimal ship alterations
- Minimal Hazmat storage issues
- Immediate incapacitation



*WRSS uses existing ship firefighting system.*

### Description

The Surface Ship Force Protection solution (WRSS) adapts the Water Restraint System (WRS) to shipboard use. WRSS combines a high pressure water stream with chemical pepper (oleoresin capsicum) to provide quick disruption of an attack on a U.S. Navy ship in port or at sea.

Oleoresin capsicum (OC) or pepper spray\* is injected into the ship's existing firefighting system. (Salt water does not alter the chemical composition of OC.)

The WRSS is simple to install and use. Because Navy personnel will be using the existing ship system, minimal training is required.

The typical single-person fire fighting nozzle utilizes a 1-1/2-inch hose connected to a bulkhead-mounted fire valve with a controllable nozzle. (See illustration on page 2.)

The WRSS injects specially formulated OC chemicals into the water stream. The induction

system is very similar to the method used when employing aqueous fire fighting foam (AFFF) during fire suppression operations.

The calibrated eductor is placed in the fire hose line between the bulkhead fire valve and the nozzle. The eductor chemical line is connected to the OC container. (See illustration.)

The nozzle is operated in the same manner as with fire suppression operations. However, for *force protection* operations, the solid water stream operation is recommended for providing maximum distance and water force.

Chemical is injected into the water stream by operating the eductor-mounted lever. Chemical injection is selectable. The operator can select a water stream first and then add OC as necessary. This recommended operation limits OC expenditure and promotes maximum system control.

Please contact us for more information.

\*Pepper spray is an organic, water-based solution containing no synthetic oils. The FDA defines oleoresin capsicum as a food-grade material. The solution is biodegradable and just washes away during cleanup. There are no Hazmat storage requirements.

Pepper spray will immediately incapacitate an attacker, yet will result only in temporary pain. Used as directed, pepper spray is a less-than-lethal option providing a critical step in an increasing force continuum between no/verbal action and lethal force.

*Illustration of WRSS system*

