



Lifeshirt® System Monitors Fire Fighters and Hazmat Crews Using Real-Time Life-Signs* During Training in Connecticut and Minnesota: Revolutionary Monitoring Device Sends Real-Time Life-Signs To Incident Command Post

VENTURA, Calif. — August 12, 2004 — The LifeShirt System for first responders was used in training exercises by Elk River, Minn., and Fairfield, Conn., firefighters and hazardous materials (HazMat) workers to monitor life-signs during training exercises. This comfortable undershirt is worn under fire retardant clothing and level-A HazMat gear and wirelessly transmits a first responder's breath rate, heart rate, blood oxygen saturation, motion, posture, and body temperature wirelessly to an incident command center.

This real-time version of the VivoMetrics® LifeShirt System* has been released for investigational use only and works in conjunction with the VivoCommand® Software. It allows a commander to monitor information on up to 24 responders at once and displays the information on an easy-to-interpret screen to enhance decision making.

"During an incident you're your own worst judge of the situation," said Captain Scott Bisson, Training Director of the Fairfield Fire Department in Conn. "Your adrenalin is pumping so hard that you may not even notice that you're about to collapse. Any tool that we can put on a firefighter to quickly identify if he may be having a problem or is overcome by heat exhaustion inside a building is a good tool."

During the Fairfield, Conn., training exercise, an 18-wheel tanker truck was rolled over and simulated toxic chemicals were spread across a highway. HazMat team members wearing LifeShirts cordoned off the area, set up a decontamination center and dispatched a level-A crew to spray foam on the truck to contain toxic vapors. They then dragged 200-pound mannequins to the "decon" station where level-B team members cleaned them and executed life-saving techniques.

In Elk River, Minn., a donated house was set afire and trainees wearing LifeShirts made multiple entries to subdue the fire.

As part of both exercises commanders watched their team's life signs from a command truck and noted changes.

"VivoMetrics designed the LifeShirt System to empower commanders to make instantaneous decisions to help protect the people who put their lives on the line," said Andrew Behar, President of VivoMetrics Government Services. "Elk River and Fairfield first responders successfully used this technology to help

identify problems even before they happened, and it also prepares them to better serve their community in the future."

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