

The MMST System Information Bulletin

September 1998

DOMESTIC PREPAREDNESS TRAINING UPDATE

In keeping with our commitment to "Share the Knowledge," the Research Planning, Inc. (RPI), Metropolitan Medical Strike Team (MMST) Support Team offers a brief introduction to the courses provided at the "Hazardous Devices School (HDS)." In this issue of the *Bulletin*, we have also included information on equipment, conferences, and general topics that are relevant to your MMST System Development and planning efforts. We hope you find the following information useful.

The Federal Bureau of Investigation (FBI), in cooperation with the U.S. Army Ordnance Missile and Munitions Center and School, Explosive Ordnance Disposal (EOD) Training Department, HDS, at Redstone Arsenal, AL, offers a variety of courses targeted at a specific segment from the first responder community—the non-military Bomb Disposal (BD)/EOD Technician. The FBI and HDS recognized that personnel specifically charged with a "bomb disposal" mission were in need of specialized training. They have responded to the need by expanding their curriculum. Additionally, as the overall threat presented by secondary or "entrapment" devices has grown to encompass all first responders, particularly in a weapons of mass destruction (WMD) event, the need for closer coordination and cooperation between all of the various components of the first responder community has been recognized as well. The following offers a brief description of the resident courses available at the school.

- The **HDS Basic Course** is a 4-week course designed to instruct civilian Law Enforcement and Public Safety personnel on the basic concepts and principles of bomb disposal operations. Instruction is provided on essential tools and equipment, protective equipment, the use of robots and robotic techniques, advanced diagnostic techniques including radiography (x-ray) interpretation, and remote removal and rigging techniques.
- The **HDS Refresher Course** is a 1-week course available to HDS Basic Course graduates. This course provides refresher training on demolition procedures, Percussion Actuated, Non-Electric (PAN) Disrupter techniques,

diagnostic tools and equipment, hand-entry techniques, and rigging/remote removal operations. It also introduces the attendees to advanced electronic fusing and firing systems, current trends in device construction, new technologies in protective measures, and countermeasures for chemical and biological agents. Course attendees also participate in a variety of practical exercise scenarios to gain hands-on experience in managing incident response and resolution issues.

- The **HDS WMD Bomb Technician Emergency Actions Course** is a 40-hour course available to HDS Basic Course graduates who are currently assigned to a bomb squad. This course includes basic information regarding nuclear, biological, and chemical (NBC) materials and their associated hazards. The course will also include instruction on the means and methods of delivery, detection, protection (personal and area), contamination control, evacuation considerations, and first aid for injuries associated with NBC materials. Attendees will be introduced to personal protective equipment (PPE), including respiratory protection suitable for wear in an NBC environment, principles of emergency contamination control, and emergency personnel decontamination stations. The students also participate in a Tabletop Exercise designed to allow them to work through the bomb technician's role in a WMD incident response.

While this course does not satisfy the Occupational Safety and Health Administration (OSHA) requirements for a "Hazardous Material (HAZMAT) Technician," the attendees will be asked, on a voluntary basis, to don PPE ensembles including respiratory protection and to participate in class exercises that demonstrate their basic functions. Bomb Technicians who are not HAZMAT-certified will be encouraged to seek the appropriate training for HAZMAT certification upon their return to their home departments.

- The **HDS Bomb Technician Robot Course** is a 36-hour course offered 6 times per year that covers the use of robots in BD operations. The use of robots to conduct remote operations has been in existence for more than 20 years, while

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improvements in design and reliability have enhanced their usefulness and capabilities. Robotic platforms are available in a variety of sizes and lend themselves to being readily adapted to support a wide range of missions. Training begins on a computerized simulator and progresses through obstacle course negotiation and full-scale practical exercises using the robot in response to improvised explosive devices.

- **The HDS Bomb Squad Executive Management Course** is a 20-hour course that HDS plans to offer 6 times per year, beginning in July 1998 with 15 students per course. The FBI and HDS recognized that many supervisors may find themselves responsible not only for their own units, but for other specialized units as well that they may have only a limited amount of experience with. Topics covered by this course include Federal Jurisdiction in Bombing Cases; Trends in Terrorism and Bombings; the Evolution and Development of Non-Military Bomb Squads; and Equipment in Use including explosives detection, device diagnostics, robot capabilities, explosive containment vessels, render safe and disruption tools, storage and disposal of explosives, PPE requirements, training, operations management, special situations/WMD incidents, Tabletop exercises, and a "live-fire" range demonstration.

This course is available only to direct supervisors of bomb squads that are on record with the FBI Bomb Data Center (BDC) as being accredited within the standards set by the "Bomb Squad Commanders Advisory Board."

These courses are generally available at no cost to the individual departments, and the FBI will provide reimbursement for travel and per diem expenses. For information on eligibility for course attendance, course availability, course dates, physical examination requirements, etc., contact:

The Police Training Coordinator in the FBI Field Office serving your jurisdiction

Or contact:

The Hazardous Devices School
Program Administrator
Supervisory Special Agent David Heaven
(256) 313-1910

EQUIPMENT INFORMATION

The RPI Team continues to expand and strengthen its association with vendors. Several companies offering equipment of potential use to MMST System response have recently contacted us. In our effort to continue to "Share the Knowledge," it is our pleasure to pass this new information on. Attached you will find copies of the data we have received on several new products. As we have previously indicated, we are distributing this information to assist you in your equipment identification process; however, no recommendations or endorsements are implied.

Communications

The RPI Team has received updated information from Dialogic Communications Corporation (DCC) regarding their product line. RPI previously featured DCC in the edition of the MMST Information Bulletin with the introduction of the "Communicator Automated Notification System."

The "Communicator" is a PC-based, on-site emergency notification system that can simultaneously handle inbound and outbound calls. A communications center dispatcher can initiate an automated callout that dials telephones, cell phones, pagers, and fax machines for the timely delivery of information. In the event that one of these devices is not working, the "Communicator" automatically utilizes the other devices, reducing the risk that critical information would not be transmitted. This rapid notification capability could be of significant benefit in alerting and activating MMST System agencies and individuals.

"Scenario" is a newer development by DCC, aimed at the healthcare industry. "Scenario" is a comprehensive, automated callout system that could be employed to notify pre-identified hospitals, urgent care clinics, and other healthcare/medical facilities and resources to fill the urgent staffing requirements that would accompany an MMST alert and/or activation.

Both the "Communicator" and "Scenario" packages offer the capability to interface with the DCC "One-Touch Mapping (OTM)" desktop mapping software package. Using the OTM software, a communications dispatcher can geographically pinpoint any targeted notification area(s) and automatically call

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pre-identified facilities in those areas to pass on critical information, either as a pre-recorded message or as real-time information. Possible applications include the following.

As an incident is received at the communications center, a dispatcher, utilizing the "Reverse 911" technology of the "Communicator" system combined with OTM software, could automatically alert any pre-identified facilities in the initial hazard area. As "real-time" input regarding predicted plume direction and speed is received at the communications center from an integrated Incident Command Post, updated information could be automatically relayed to critical facilities in the affected areas to advise of the need to conduct an evacuation or perform sheltering in place. Similarly, the "Scenario" system combined with OTM software could be utilized to alert the primary hospitals upon initial receipt of an incident and then alert additional facilities as the incident expands.

For additional information, please refer to:

Dialogic Communications Corporation (DCC)
on the Internet at www.dccusa.com

Or contact: DCC
Franklin, TN
(800) 723-3207 / (615) 790-2882
or
Mr. Scott Goetz
(410) 321-5370

Reference Material

As all the agencies involved in national Domestic Preparedness undertake the tasks laid out for them, one aspect of these efforts that should not be overlooked is the building of an effective and informative reference library. In addition to the materials provided by the Department of Defense (DoD)/U.S. Army Chemical and Biological Defense Command (CBDCOM) and the well-known journals available through Jane's Publishing, another source of information worthy of consideration is ***Chemical and Biological Warfare, An Annotated Bibliography*** (Scarecrow Press, 1997), with a review by Colonel Charles L. Mercier, USAR, Commander, 2125th Army Garrison, Fort Bragg, NC. Colonel Mercier previously commanded the 490th Chemical Battalion and commanded the 907th Chemical Detachment (NBCE) (JB) in Operations DESERT

SHIELD and DESERT STORM. The bibliography, authored by Eric Croddy of Lanham, MD, could be considered a "single-source" reference locator for material published as recently as 1996. The bibliography spans the technical to the general, with entries grouped variously (e.g., by historical background, specific chemical agents, biological agents, protection and decontamination, policy and arms control, and a large miscellaneous group).

The introduction contains a wealth of anecdotal information. The body of the book, specifically the sections on nerve agents and biological warfare, contains very useful information, and a comprehensive subject index eases the task of navigating your way through the 440 pages.

For information from the publisher:

On the Internet at www.scarecrowpress.com

Or contact: Scarecrow Press
Lanham, MD
(800) 462-6420 / (301) 459-3366

GENERAL INFORMATION

The U.S. Secretary of Energy recently announced the formation of a partnership between the FBI and the Department of Energy's (DOE's) Lawrence Livermore National Laboratory (LLNL). The Secretary designated the LLNL Forensic Science Center as the first of a network of laboratories that will provide technological support to the FBI, the purpose of which is to "fight terrorism with technology." This development is the result of an earlier agreement to unite the technological capabilities of the national laboratories with the FBI and other law enforcement agencies to counter emerging threats to national security and public safety.

"This partnership brings the scientific and technological expertise of this lab into a new support network for the FBI to fight terrorism....The Energy Departments LLNL will provide critical new technologies to counter the threat of weapons of mass destruction, providing the FBI with new capabilities to save American lives," said Secretary Richardson.

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The Forensic Science Center at LLNL has become a leader in the development of new and innovative solutions to complex scientific and technical questions faced by the law enforcement community. The center is an example of the next generation of analytical chemistry and advanced analytical technology to be assembled for domestic law enforcement. Examples of this new technology include:

- A portable analyzer to detect specific chemicals at very low levels of concentration. Known as an “Ion Cyclotron Resonance-Mass Spectrometer (ICR-MS),” the entire system may be configured in a package no larger than a 3-pound coffee can.
- A self-contained, miniature Gas Chromatograph-Mass Spectrometer (GC-MS). This 61-pound, suitcase-sized package can detect ultra-trace (micro-gram or less) quantities of narcotics and **chemical warfare agent compounds, including their precursors and decomposition products**. Efforts are currently underway to further reduce the size of this instrument so that it may fit into a briefcase.
- A new Ion Storage-Time-of-Flight (IS/TOF) Mass Spectrometer is under development. This device will allow for the testing of extremely low levels (parts per trillion) of chemicals in air, on the order of thousands of spectra per second.
- High-performance liquid chromatography and capillary electrophoresis/mass spectrometry to detect minute quantities of compounds in complex samples.

The Forensic Science Center, with its array of sophisticated technologies, is able to quickly characterize evidentiary materials of importance both to national security and to forensic aspects of domestic law enforcement. The center’s analytical capabilities feature state-of-the-art sensitivities for detecting virtually any target compound contained in any sample. As the pertinent technologies develop, the center will continue to enhance these analytical tools and offer analysis support where needed.

For additional information, please refer to the Lawrence Livermore National Laboratory Web site at www.llnl.gov

Or contact: The Director of the Forensic Science Center, Mr. Brian D. Andersen at (925) 425-1189.

DOMESTIC PREPAREDNESS: CBDCOM TRAINING AND EXERCISE PROGRAM

The training and exercise program is a vital part of the learning process, and we invite your support of this column as an excellent means to “Share the Knowledge.”

We have reserved this space for any of our MMST System Development cities who wish to announce or share their training and exercise status (e.g., training and/or exercises completed to date or their participation in an upcoming exercise) as did the city of Jacksonville, FL, in our July edition.

WEB SITES OF INTEREST

Lawrence Livermore National Laboratory
<http://www.llnl.gov>

The Stockholm International Peace Research Institute
<http://www.sipri.se>

The Battelle Memorial Institute
<http://www.battelle.org>

U.S. Army War College
<http://www.army.mil/usawc>

U.S. Army Ordnance Munitions Center and School, EOD Training Department, HDS
<http://www.logsa.army.mil/ommcs/eodhome.html>

LIST OF ATTACHMENTS

DCC information on the “Communicator,” “Scenario,” and “One-Touch Mapping.”

Dialogic Communications Corporation (DCC)

OVERVIEW:

Established for the primary purpose of developing and marketing a new concept in telecommunications, Dialogic Communications Corporation (DCC) is an established leader in interactive call processing solutions. DCC's automated notification systems and cable call center solutions served industry, business, and government since 1982. Located in Franklin, TN (near Nashville), DCC provides software and services to over 800 customer sites both nationally and internationally.

PRODUCTS:

The Communicator!®: The Communicator is a PC-based, on-site emergency notification system that handles outbound calls and inbound calls simultaneously. With the touch of a key, users can automate a call-out that dials telephones, cellphones, pagers and fax machines for the accurate, timely delivery of information. Message receipt is then verified with touch-tone telephone response. If one of those devices is not working, the communicator! utilizes the other devices, seriously reducing the risk that critical information will miss its mark. The Communicator also incorporates reverse 911 technology to expand its call-outs to communities at risk and interfaces with a desktop mapping program for the geographical selection of targeted notification areas.

ARU II® and ARU III® for Windows®: DCC's ARU IVRs automate routine CATV subscriber calls, allowing customer service agents to concentrate on the exceptional situations. Users calling into the system can order Pay-Per-View selections, access account information, and report service outages. The system can place outbound calls to confirm scheduled service appointments, remind customers of delinquent payments, and alert service technicians of work order changes.

Scenario®: Aimed primarily at the healthcare industry, Scenario is a comprehensive call-out system that can fill urgent staffing needs in a matter of minutes. The system replaces time-consuming manual phone call trees with a fully automated process that contacts all available resources in minutes and verifies message receipt. From emergency notification to voice response to patient-care applications, Scenario meets any mission-critical healthcare communications requirements.

Universal Notification®: Currently in beta phase at several major corporations, Universal Notification is a hardware-independent desktop notification software package that delivers important information to any and all communications devices which possess a telephone number or email address. Using a Windows®-based PC and/or a touch-tone telephone, users can record a voicemail, type an email message and attach a document, then deliver it simultaneously to ANY one, ANY where, ANY time and, most importantly, verify its arrival. All communications devices in the general office environment can be accessed through this single software package.

CONTACT INFORMATION:

President W. E. Kirby, Jr. · Vice President, Marketing, Dave Krikac
(615) 790-2882 · (800) 723-3207 · www.dccusa.com

DIALOGIC COMMUNICATIONS
CORPORATION

DCC
DCC

the communicator!®

The Fast and Easy Way to Notify Response Team Personnel
and/or Area Residents via Telephone, Pager, and Fax

Hear an Example of an Emergency Notification!

Simply dial **1-800-274-7401** or **1-615-790-4680** and enter
one of the following ID codes when prompted:

Nuclear: 12345 Emergency Coordinator	Military: 20143 Battle Staff Recall 07543 Fire/HAZMAT
Oil: 23455 Emergency Coordinator	Hospital: 45675 Emergency Coordinator
Chemical: 34565 Emergency Coordinator	Medical: 32895 Emergency Staffing 32995 Routine Staffing
HAZMAT: 01105 Emergency Coordinator	Railroad: 19565 Emergency Coordinator
Airport: 67895 Emergency Coordinator	Hurricane: 26505 Emergency Coordinator
Utility: 14346 Emergency Coordinator	Mining: 35705 Emergency Coordinator
Fire/ Police: 70543 Emergency Coordinator	Flood: 05510 Emergency Coordinator
Correc- tions: 56785 Emergency Coordinator	Riot: 43234 Emergency Coordinator
Banking: 78915 Emergency Coordinator	Earth- quake: 28795 Emergency Coordinator
Data Pro- cessing: 89105 Emergency Coordinator	Tornado: 43295 Emergency Coordinator
Pharma- ceutical: 98765 Emergency Coordinator	Public: 74101 Community Alert

And now you can also hear...

Automatic Telephone Number Update: **74663**

For More Information on Automating Your Notification Procedures
and to get your **FREE VIDEO**, call DCC direct at
800.723.3207 or 615.790.2882.

