



TETRAD Technologies Group, Inc.

Creative Unconventional Design and Deployment of CBRN Terrorist Devices and Multimodal Tactics

Understanding methods for accelerated and amplified disruption of social infrastructure and services with an aim toward improving countermeasure planning and prevention including the optimal deployment, use and coordination of CBRN defense technologies

Martin Joseph Dudziak, PhD
TETRAD Technologies Group, Inc. (USA)

This module is based upon a forthcoming book by the author, “Unconventional Terrorism,” and a series of reports and papers including present work as a consultant and subcontractor in the homeland security community.

The module may be limited to one element or a collection of elements described herein, according to the limits of time available. Ideally this module can be split into two or more individual sessions, enabling offline thinking and “homework” by the students during the intervals.

1. Basic Foundations of the Multimodal Approach

- 1.1 Historical Records and Trends
- 1.2 The economic disruption goal
- 1.3 The political loss-of-confidence goal
- 1.4 The goal of disrupting secondary lifestyle activities (leisure, family)

2. Gap targeting and analysis from the standpoint of terrorist planning

- 2.1 Working around established, observable, predictable defenses
- 2.2 Tactical advantages of “social noise”
- 2.3 Tactical advantages of the illegal alien and gang communities
- 2.4 Effective use of poverty and pseudo-poverty
- 2.5 Effective use of middle-class ennui, inattention and “chatter”
- 2.6 Effective go-arounds and go-betweens taking advantage of inter-agency barriers

3. Multimodal attacks

- 3.1 Terrorist actions (combo methods)
- 3.2 Terrorist actions linked with natural disasters and stress-events

- 3.3 Taking advantage of the “ECP” situation and natural dynamics of environmental and human response
- 3.4 Taking advantage of observed and learned “first response” tactics and systems
- 3.5 The pros and cons of public (media-driven) coverage of first response simulations and countermeasures
- 3.6 Methods and means to enlist the general population and civilian teams

4. Specific novel terrorism with multiple values and results

- 4.1 PRED – Passive Radiation Exposure Devices
Metro systems and shopping malls – “how to do it” / “how to look for it”
- 4.2 Confined-space targets for neurotoxin attacks
The 747 – 777 Scenario
Countermeasures with a proven, tested, portable, handheld OP sensor-analyzer
- 4.3 Biocontaminant Dissemination in high-traffic public locations
Integration of detection and prevention technologies

5. Multi-pronged, multi-modal attacks

- 5.1 Disruption of public utilities and services
- 5.2 Water, gas, sewer, power vulnerabilities
- 5.3 “Sturm und drang” vs. “Big Bang”

6. Sequenced power-hitter attacks

- 6.1 Targeting disruption of first-response
- 6.2 Targeting mass casualties at bottleneck evacuation channels
- 6.3 Targeting delayed effects
- 6.4 Amplifying stress undercurrents for chemical and radiation exposure in particular

7. Review and Discussion

- 7.1 Vulnerability types
- 7.2 Modus operandi
- 7.3 Observation categories
- 7.4 Effective countermeasure technologies and methodologies
- 7.5 Civilian Empowerment
- 7.6 Effective bridging across agency and secrecy barriers
- 7.7 Nomad Eyes™ and similar robust, fault-tolerant, inverse-method architectures

The author/instructor and this material including field-study data are available for other projects and collaborative engagements as well. Dr. Dudziak is a US citizen and his background is available on the web at <http://tetradgroup.com/mjdbackground.html>