

## VII. PERSON-CAUSED DISASTERS

Incidents precipitated by human error, negligence, or deliberate intent can produce devastating effects on human lives and property. Death and destruction frequently accompany such diverse person-caused disasters as building collapses, airplane crashes, and acts of terrorism. Civil disorders, as experienced in the past two decades, often result in arson, looting, assault, and murder. The electrical power outage which paralyzed New York City in 1977 caused countless residents, employees, and visitors to be stranded in high-rise buildings, elevators, trains, and subways. This blackout resulted in hundreds of injuries to citizens and emergency personnel and caused over \$150 million worth of property damage.

There is no evidence to suggest that person-caused disasters will diminish during the present decade. Rather, more incidents can be expected. To manage those incidents which may occur, local officials need to identify their community's risks and develop appropriate pre-emergency plans.

Planning efforts for person-caused disasters require cooperation and coordination among local emergency response organizations. In particular, police, fire, and emergency medical agencies need to establish cooperative efforts for managing an incident.

The management of person-caused disasters, while similar to other emergencies and disasters, may require some specialized actions. Often, it is necessary for emergency personnel to perform mass evacuations from areas such as high-rise buildings, transportation modes, or medical facilities. Preplanning for these types of evacuations is essential. Another important effort is the identification of personnel and equipment resources. Civil disorders and airplane crashes, for example, may require a callback of off-duty personnel. Mutual aid agreements can also be critical in these types of incidents.

Many person-caused disasters require specialized rescue equipment such as cranes. Inventories of equipment availability and location should be undertaken. As appropriate, arrangements may be needed with local towing and construction companies. Resource lists identifying the equipment and organizations should be prepared. Electric power outages require the availability of backup generators. Their availability and location should be determined in advance.

Training of emergency personnel is essential in planning efforts. Several of the communities surveyed indicated that they had training programs for high-rise rescue and building collapses. In addition, subsequent to the numerous racial, student, and prison riots that occurred beginning in Los Angeles in 1965, many agencies have developed specialized training efforts for civil disorders. Some of the training activities consist of simulated exercises.

Fire and rescue response teams are generally employed for person-caused disasters. Several communities also have explosives handling units and Special Weapons and Tactics (SWAT) teams. The City of Miami's SWAT team consists of police officers and paramedics. Other communities equip their emergency response personnel with chemical shields or bullet-proof vests. The Miami Fire Department also has a special tactics team, which is trained and equipped to respond to a variety of incidents.

Following the actions of the Los Angeles Fire Department in 1965, many fire departments, in the event of a civil disorder, organize their response units into task force configurations. Police units are frequently requested to provide incident verification and escort for fire and emergency medical units.

Response times in many person-caused disasters may be delayed. It may be difficult in a civil disorder, terrorist incident, or power outage to adhere to normal response times. Environmental considerations can affect emergency response in these situations. The life safety conditions of emergency responders must also be considered.

Based on the survey responses, many communities have prepared a single response plan for person-caused and natural disasters. These plans are frequently annexed to city/county plans. Several respondents, though, indicated that they had developed specialized response plans for civil disorders. The Miami, Florida Fire Department, which protects 34 square miles and a population of 365,000, has a comprehensive plan describing the organization and operation of the fire department in the event of a civil disorder. The "Civil Disturbance Plan" was activated during the May 1980 civil disorder.

Only a few communities have developed training manuals for person-caused disasters. These manuals are primarily oriented to civil disorders.

Various experienced individuals and organizations are available to assist local officials in their preplanning efforts. The California Specialized Training Institute, a California state agency, provides courses in the management of civil disorders and terrorism. The "Civil Disorder Management Course" is designed for those persons involved in planning emergency response. It is a 44-hour course that includes simulated exercises. A 40-hour "Terrorism Course" is designed for public and private organizations. Specific topics include investigative management and target and vulnerability assessment.

## VII. PERSON-CAUSED DISASTERS

### A. Training Programs

<u>State</u>	<u>Agency</u>	<u>Contact</u>	<u>Square Miles</u>	<u>Population</u>
California	Los Angeles Fire Department 200 North Main Street Los Angeles, CA 90012 (213) 485-6100	Jack Bennett Assistant Chief	467.63	3,000,000
	Merced Fire Department P.O. Box 2068 Merced, CA 95344 (209) 722-8331	Joe Ortiz Fire Chief	12	34,700
	Sacramento Fire Department Room 3 915 I Street Sacramento, CA 95814 (916) 449-5266	Robert Schultz Deputy Chief, Emergency Operations	94	285,000
Colorado	Barcroft Fire Protection District 3301 South Field Street Lakewood, CO 80227 (303) 989-4307	Bob Porter Assistant Chief	80	155,000
	Boulder Fire Department P.O. Box 791 Boulder, CO 80306 (303) 441-3351	Larry Stern Assistant Chief	20	80,000
	Lakewood Fire Department 1545 Robb Street Lakewood, CO 80215 (303) 237-9588	Francis Brehm Assistant Chief	30	110,000
Connecticut	Westport Fire Department 6 Wilton Road Westport, CT 06880 (203) 227-1511	David Sanford Deputy Chief	22.7	31,000* 50,000**
	Willimantic Fire Department 13 Bank Street Willimantic, CT 06226 (203) 423-2642	Charles J. Monzillo Fire Chief	4.5	15,000* 17,500 <sup>+</sup>

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<u>State</u>	<u>Agency</u>	<u>Contact</u>	<u>Square Miles</u>	<u>Population</u>
Illinois	Lisle-Woodbridge Fire District 1005 School Street P.O. 610 Lisle, IL 60532 (312) 964-2233	Paul H. Boecker Fire Chief	38	74,000
	Skokie Fire Department 9024 Grosse Pointe Road Skokie, IL 60076 (312) 673-2400	Harold Peters Lieutenant, Training Officer	10	70,000
Iowa	Webster City Fire Department 812 Des Moines Street Webster City, IA 50595 (515) 832-2431	Terry Johnston Fire Chief	77	9,000
Massachusetts	Springfield Fire Department 605 Worthington Street Springfield, MA 01105 (413) 787-6400	Norris Quinn District Chief, Training	32	160,000
Nevada	Carson City Fire Department 111 North Curry Street Carson City, NV 89701 (702) 887-2200	Bernie Sease Fire Chief	146	33,000
New Jersey	Hoboken Fire Department 201 Jefferson Street Hoboken, NJ 07030 (201) 420-2259	Ed McDonald Deputy Chief	1	45,000
North Carolina	Raleigh Fire Department 220 South Dawson Street Raleigh, NC 27601 (919) 755-6360	R. E. Keith Fire Chief	50	160,000
Ohio	Cincinnati Fire Department 430 Central Avenue Cincinnati, OH 45202 (513) 352-2315	Robert G. Rathman Assistant Chief	78	358,500

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### A. Training Programs

<u>State</u>	<u>Agency</u>	<u>Contact</u>	<u>Square Miles</u>	<u>Population</u>
Oregon	Multnomah County Fire District 10 P.O. Box 16368 Portland, OR 97216 (503) 761-7120	Len Malmquist Fire Inspector	75.2	380,000
Pennsylvania	Philadelphia Fire Department Third & Spring Garden Streets Philadelphia, PA 19123 (215) 686-4700	Joseph R. Rizzo Fire Commissioner	129	1,688,210
Virginia	Fairfax City Fire and Rescue Services 4081 University Drive Fairfax, VA 22030 (703) 385-7874	Joe Bailey Lieutenant, Training Officer	7	22,000
Wisconsin	Green Bay Fire Department 501 South Washington Street Green Bay, WI 54301 (414) 497-3777	Gerald Selissen Fire Chief	45	88,000

## VII. PERSON-CAUSED DISASTERS

### B. Response Teams

<u>State</u>	<u>Agency</u>	<u>Contact</u>	<u>Square Miles</u>	<u>Population</u>
Connecticut	Westport Fire Department 6 Wilton Road Westport, CT 06880 (203) 227-1511	David Sanford Deputy Chief	22.7	31,000* 50,000**
Florida	Hialeah Fire Department 501 Palm Avenue Hialeah, FL 33011 (305) 883-5840	William Ackerly District Chief—Rescue Coordinator	22	180,000
	Miami Fire Department P.O. Box 330708 Miami, FL 33133 (305) 579-6300	Ron Coleman Chief, Training Division	34	365,000
Ohio	Columbus Fire Division 200 Greenlawn Avenue Columbus, OH 43223 (614) 222-7389	H. J. Dutko Battalion Chief, EMS	171	670,000
Oregon	Winston-Dillard Rural Protection District 5 P.O. Box 765 Winston, OR 97496 (503) 679-8721	Jerry Hall Fire Chief	50	10,000

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\*Permanent  
\*\*Summer

## VII. PERSON-CAUSED DISASTERS

### C. Response Plans

<u>State</u>	<u>Agency</u>	<u>Contact</u>	<u>Square Miles</u>	<u>Population</u>
Alabama	Birmingham Fire and Rescue Service 1808 Seventh Avenue, North Birmingham, AL 35235 (205) 323-8304	O. N. Gallant Fire Chief	100	275,000
Arizona	Tucson Fire Department P.O. Box 27210 Tucson, AZ 85720 (602) 791-4511	David H. Canterbury Inspector	112	400,000
California	Los Angeles Fire Department 200 North Main Street Los Angeles, CA 90012 (213) 485-6100	Jack Bennett Assistant Chief	467.63	3,000,000
	San Clemente Fire Department 100 Avenida Presidio San Clemente, CA 92672 (714) 492-5105	Ronny Coleman Fire Chief	15	27,000
	San Francisco Fire Department 260 Golden Gate Avenue San Francisco, CA 94102 (415) 861-8000	Frank Dunn Lieutenant	49	690,000* 1,000,000**
Colorado	Barcroft Fire Protection District 3301 South Field Street Lakewood, CO 80227 (303) 989-4307	Bob Porter Assistant Chief	80	155,000
	Boulder Fire Department P.O. Box 791 Boulder, CO 80306 (303) 441-3351	Larry Stern Assistant Chief	20	80,000
Connecticut	Thompsonville Fire Department Pearl Street Station Enfield, CT 06082 (203) 745-3365	Paul E. Censki Fire Marshal	12	12,000

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\*Night

\*\*Day

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### C. Response Plans

<u>State</u>	<u>Agency</u>	<u>Contact</u>	<u>Square Miles</u>	<u>Population</u>
Connecticut (continued)	Tolland Fire Department 3 Rhodes Road Tolland, CT 06084 (203) 871-0002	Ronald Littell Fire Chief	41	11,000
Delaware	Wilmington Fire Bureau 112 East Twelfth Street Wilmington, DE 19801 (302) 571-4410	Jerome Donahue Fire Chief	15.77	95,000
Florida	Jacksonville Fire Division 107 Market Street Jacksonville, FL 32202 (904) 633-5433	E. P. Lowstuter Division Chief of Services	844	600,000
	Metro-Dade County Fire Department 6000 S.W. 87th Avenue Miami, FL 33173 (305) 596-8600	Charles E. Sowers Division Chief, EMS	895	1,000,000
	Miami Fire Department P.O. Box 330708 Miami, FL 33133 (305) 579-6300	Ron Coleman Chief, Training Division	34	365,000
Illinois	Rolling Meadows Fire Department 2455 Plum Grove Road Rolling Meadows, IL 60008 (312) 379-3352	Thomas Quillin Fire Chief	5	21,000
Iowa	Webster City Fire Department 812 Des Moines Street Webster City, IA 50595 (515) 832-2431	Terry Johnston Fire Chief	77	9,000
	West Des Moines Fire Department 318 Fifth Street West Des Moines, IA 50265 (515) 223-3221	Randall Bracken Fire Chief	17.5	25,000



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### C. Response Plans

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New Jersey	Hoboken Fire Department 201 Jefferson Street Hoboken, NJ 07030 (201) 420-2259	Ed McDonald Deputy Chief	1	45,000
	Newark Fire Department 1010 18th Avenue Newark, NJ 07106 (201) 733-7502	Stanley J. Kossup Fire Chief	23.4	321,000
Oklahoma	Oklahoma City Fire Department 820 N.W. Fifth Street Oklahoma City, OK 73107 (405) 235-3314	Bob Mowles Chief Training Officer	640	410,000
	Tulsa Fire Department 411 South Frankfurt Avenue Tulsa, OK 74120 (918) 581-5291	Paul M. Dudley Deputy Chief	193	365,000
Oregon	Multnomah County Fire District 10 P.O. Box 16368 Portland, OR 97216 (503) 761-7120	Len Malmquist Fire Inspector	75.2	380,000
Pennsylvania	Philadelphia Fire Department Third & Spring Garden Streets Philadelphia, PA 19123 (215) 686-4700	Joseph R. Rizzo Fire Commissioner	129	1,688,210
Texas	Dallas Fire Department 1500 Marilla Street Dallas, TX 75201 (214) 670-4565	S. Joseph O'Briant Deputy Chief	378	904,000
	Houston Fire Department 410 Bagby Street Houston, TX 77002 (713) 222-3964	Thomas W. Dawson Administrative Assistant	556	1,500,000

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### C. Response Plans

<u>State</u>	<u>Agency</u>	<u>Contact</u>	<u>Square Miles</u>	<u>Population</u>
Virginia	Alexandria Fire Department 900 Second Street Alexandria, VA 22314 (703) 838-4600	William Brown Chief of Operations	15	110,000
	Hampton Fire Department 22 East Lincoln Street Hampton, VA 23669 (804) 727-6580	Kenneth R. Lavoie Fire Chief	55	125,000

## VII. PERSON-CAUSED DISASTERS

### D. Training Manuals

<u>State</u>	<u>Agency</u>	<u>Contact</u>	<u>Square Miles</u>	<u>Population</u>
Arizona	Tucson Fire Department P.O. Box 27210 Tucson, AZ 85720 (602) 791-4511	David H. Canterbury Inspector	112	400,000
Florida	Coral Gables Fire Department 2815 Salzedo Street Coral Gables, FL 33134 (305) 442-1887	Robert T. Boutelle Deputy Chief	12	45,000* 20,000**
Louisiana	New Orleans Fire Department 317 Decatur Street New Orleans, LA 70130 (504) 581-6200	Richard Blackman Captain	199	565,000

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\*Permanent  
\*\*Student

## **VII. PERSON-CAUSED DISASTERS**

### **E. Experienced Persons and Organizations**

<u><b>State</b></u>	<u><b>Contact</b></u>	<u><b>Agency</b></u>	<u><b>Areas of Expertise</b></u>
California	Wynyard, Robert L. Chief of Academic Division	California Specialized Training Institute P.O. Box G Camp San Luis Obispo, CA 93406 (805) 544-7100	Training Programs
Florida	Cosgrove, Michael M. Assistant Chief	Miami Police Department P.O. Box 016777 Miami, FL 33101 (305) 579-6573	Civil Disorders
Illinois	Boecker, Paul H. Fire Chief	Lisle-Woodbridge Fire District 1005 School Street P.O. Box 610 Lisle, IL 60532 (312) 964-2233	Training
Missouri	Pape, Bill Fire Specialist	Lee's Summit Fire Department 207 South Douglas Road Lee's Summit, MO 64063 (816) 251-2360	Special Rope and Rescue, Amusement Parks Cliff Rescue
Oklahoma	Carthen, Sherman Training Officer	Oklahoma City Fire Department 820 N.W. Fifth Street Oklahoma City, OK 73017 (405) 235-3314	High-Rise Rescue

## **VII. PERSON-CAUSED DISASTERS**

### **F. Reference Materials**

#### **Books and Reports**

Gargan, Jim. Cave-In and Trench Rescue. Bowie, MD: Robert J. Brady Company, 1981.

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### **F. Reference Materials**

#### **Articles in Journals**

Billberry, George T. "Miami Fire Department's SWAT/Medic Program." The Journal of Emergency Care and Transportation 10 (March/April 1981): 50-53.

Conway, Jack. "Blackout." Journal of Civil Defense 10 (September-October 1977): 7-11.

Guiffida, Louis O. "Training for Trouble." Emergency (October 1979): 41-43.

Laughlin, Jerry. "Planning Helps a Fire Department Cope with Chaos of Building Collapse." Fire Engineering 134 (November 1981): 24-27.

Neale, Robert. "SWAT Team Paramedics." Journal of Emergency Medical Services 5 (April 1980): 39-41.

Saly, Alan J. "Hazard Under the Streets." Firehouse 4 (December 1979): 49-56.

Snyder, Bruce. "Building Under Construction Collapses, Kills 11 Workers." Fire Engineering 134 (November 1981): 28-30.

Young, Michael. "Firefighters Avert Disaster in Subway Blast." Firehouse (April 1979): 24, 26, 42, 69.

SUPPLEMENT #1

RADIOLOGICAL TRAINING, EQUIPMENT AND SUPPLIES  
(provided by the United States Fire Administration)

## RADIOLOGICAL TRAINING, EQUIPMENT AND SUPPLIES

### A. Departments/Agencies for Involvement

#### General:

National Agricultural Chemicals Assoc.  
1155 15th Street, NW  
Washington, D.C. 20005

Members of Association have a network of 40 safety teams nationwide for cleanup and decontamination of poison pesticides in a major accident.

Chemical Transportation Emergency Center  
800/424-9300

To determine names of chemicals involved in chemical spill for advice and assistance.

#### Technical Assistance Sources: (General)

Chemtrec  
U.S. Coast Guard Response Center  
Poison Control Center  
U.S. Department of Transportation  
National Weather Service (Weather Info)

#### Local Involvement:

Airport Weather Facility  
Radio and TV Weather Forecast Staffs  
Fire  
EMS  
Law Enforcement  
Emergency Preparedness Office  
Environmental Protection Office  
Health Facilities/Hospitals, Dental  
Park Service  
Transportation Services  
Educational Institutions  
Medical Examiner  
Motor Carriers/Transportation Firms  
Local Industry  
Service Organizations (Red Cross, Salvation Army)  
Utilities (gas, water, sewer, electric)  
Contractors  
Building Supply Firms  
Spill Control and Clean-up Companies  
Mutual Aid Companies  
Heavy Equipment Rentals  
Mayors, County Executives  
City Managers, Admin' Officers  
City Councils

County Supervisors  
Local Planning Agencies  
Sheriff's Office  
Industrial Security Forces  
Civil Defense Agencies  
Medical Societies  
Health Systems Planning Agency  
Paramedic/EMT Associations  
Nursing Associations  
Religious Groups  
Civic Groups (Mens-Womens Clubs)  
Volunteer Welfare Agencies  
Fraternal Organizations  
Amateur Radio Associations



## RADIOLOGICAL TRAINING, EQUIPMENT AND SUPPLIES

### A. Departments/Agencies for Involvement

#### State Government:

Department of Administration  
Department of Agriculture  
Disaster Preparedness Agency  
Health and Human Services  
Environmental Protection  
Labor and Human Resources  
Industrial Associations  
Military Affairs  
Department of Transportation  
Office of Highway Safety  
Public Service Commission  
Radiation Control Agency  
National Guard  
Park Control  
Law Enforcement Agencies

#### Federal Government:

U.S. Coast Guard  
Environmental Protection Agency  
Federal Aviation Agency  
Federal Highway Administration  
Military Facilities  
U.S. Department of Transportation  
U.S. Department of Energy  
Nuclear Regulatory Agency  
U.S. Department of Agriculture

### B. Required and Additional Radiological Training Needs

1. Teach names, organizations, day and night phone number's of people to respond locally to radiological incident.
2. Conduct Pre-incident site inspections and collect information in Pre-incident Planning Manuals:\*
  - a. Inspect all places handling hazardous or radiological materials
  - b. Use manuals/inspection sheets for in-house training
  - c. Chart all water supplies, master shut-offs for gas, ventilation, electricity, piping and valves, similar concerns.

(\*Building and fire inspectors are key element for determining location of hazardous materials in community).
3. Develop strong and continuing lines of communications and working relationships with carriers, manufactures and others involved in the transport of hazardous materials in local area.

## RADIOLOGICAL TRAINING, EQUIPMENT AND SUPPLIES

### B. Required and Additional Radiological Training Needs

4. Develop working relationship with response personnel from major chemical companies, industry in local area: for training aids, on-site technical assistance and specialized equipment available if needed.
5. Fire marshall's office should maintain liaison with toxicologist/and health physicist at local hospital who will respond as a volunteer technical advisor, assist in training.
6. Hold regular meetings of all people involved in a Radiological/Hazardous Material response—to develop dialogue before incident occurs; enhance planning process.

### C. Contact Persons in Specialized Areas of Radiological Response/Training

<u>Agency</u>	<u>Contact</u>	<u>Area of Specialization</u>
Oak Ridge Associated Universities	Dr. Robert C. Ricks Associate Director REAC/TS P.O. Box 117 Oak Ridge, TN 37830	Training Courses Telephone Advice Team of experts to site Accept severely irradiated patients
The George Washington University	Dr. Mark Smith Instructor Division of Emergency Medicine  Craig DeAtley, PAC Assistant Professor Department of Health Care Sciences School of Medicine and Health Science The George Washington University Washington, D.C.	Education
Montgomery County Fire And Rescue Services	Chief Warren Isman Director Montgomery Co. Fire and Rescue Rockville, MD.	Training and Response
Fairfax Hospital	James A. Deye, PhD Medical Radiation Physicist The Fairfax Hospital  Falls Church, VA	Education

## RADIOLOGICAL TRAINING, EQUIPMENT AND SUPPLIES

### C. Contact Persons in Specialized Areas of Radiological Response/Training

Memphis Fire Department	Captain J. W. Covington Training Lt. H. T. Sharp REACT Training Memphis Fire Department Memphis, TN	
National Governor's Association	Hilary Wittaker Director Emergency Preparedness Project NGA	
Safety Systems, Inc.	Captain Ron Gore Hazardous Materials Team Jacksonville Fire Dept. Jacksonville, FL	Training
Howard County Fire Administration	W. Murray Rommal Deputy Director Civil Defense Howard Co. Fire Admin. Ellicott City, MD	Training
Houston Fire Department	Hazardous Materials Response Team Houston Fire Dept. Houston, TX	Training
Hillsborough Fire Department	Hazardous Incident Team (HIT ONE) Hillsborough Fire Dept. Tampa, FL	Training
Training Courses	Texas A & M University National Fire Academy (Maryland) Safety Systems School (Palata, FL) University of Texas Medical Center (San Antonio, TX)	

## RADIOLOGICAL TRAINING, EQUIPMENT AND SUPPLIES

### D. Typical Equipment/Supplies Used for Field

Maps of water sources  
Maps of sewer sources  
Maps of transportation routes  
Maps of Topographical (showing medical facilities) areas  
Adequate reference "library" with DOT warning labels and placard brochure  
Mathematical conversion tables  
Book of Emergency contact telephone numbers (see Section E)  
(2) chemical suits  
(2) SCBA extra O<sub>2</sub> bottles  
gas detector  
(2) proximity suits  
(1) field glasses  
(1) set spark proof tools  
(6) rubber gloves  
first aid kit  
(1) 20 and BC fire extinguisher  
(1) hand spot light  
(2) long-handled spades  
civil defense radio  
(6) disposable rainsuits and boots  
(1) 35mm camera and film  
wood plugs - tapered 1" - 6"  
1 roll Parafilm  
(1) Draeger chemical detector and tubes  
(1) pack PH paper  
(1) resuscitator  
(2) portable radio chargers  
sheets  
blankets  
pillowcases (marked "Radioactive - DO NOT DISCARD")  
(1) Nomex Jumpsuit  
(2) rolls duct tape  
(1) plumbers inflatable pipe plug  
grounding cables  
hose clamps  
(1) Fire Department portable radio w/attached speaker mike  
(1) carrying case for hazardous materials/radiological library  
(1) case for maps of water mains of Interstate systems in area  
Radiological monitoring equipment:  
Dosimeter  
Geiger Counter  
Ion Chamber

## RADIOLOGICAL TRAINING, EQUIPMENT AND SUPPLIES

### E. Training Response Plans and Courses

On-site Training Courses	Robert Waggoner, PhD Univ. of Pennsylvania Medical School	On-site training program for reactor personnel and hospital employees.
Training Course	Radiation Management Corp. Market Street Philadelphia, PA FTS (215) 243-2950	
Training Course	Fred Mueller REMS Corporation Dept. of Radiology Univ. Medical School Albuquerque, New Mexico (505) 277-2161	On-site or fixed training for State Health Dept. or other groups.
Training Course	Local Utilities Local Industry Local Transportation Carriers	
Training Course	George Sakalowski Southern Science Applications, Inc. Tampa, FL	
Training Materials	Catherine Blasina Red Cross National Headquarters Washington, D.C.	
Training Course/Information	Dr. Eugene Sanger Cincinnati General Hospital Cincinnati, Ohio	International expert on Radiological Materials Activities
Seminar	National Fire Protection Association 470 Atlantic Avenue Boston, MA 02110	"Handling Hazardous Materials Transportation Emergencies" a 1981 training seminar for fire, police, public work officials, city administrators, CD personnel (\$130.00 per enrollee)

## RADIOLOGICAL TRAINING, EQUIPMENT AND SUPPLIES

### E. Training Response Plans and Courses

Training Package	National Fire Protection Association 470 Atlantic Avenue Boston, MA 02110	"Handling Hazardous Materials Transportation Emergencies" 963-35mm color slides 11 cassette tapes 176 pp. Student Performance Manual Instructor Guide DOT brochures Price \$350.00/set Order No. SL-29
Book	National Fire Protection Association 470 Atlantic Avenue Boston, MA 02110	Purinton, R. G. Patterson, W. <u>Handling Radiological Emergencies</u> 184 pp., illus., 1977 Price \$8.75.

### F. Books, Information Sources, Films, Training Aids

U.S. Department of Transportation  
Materials Transportation Bureau MTH-30  
Office of Hazardous Material Operations  
2100 Second Street, SW  
Washington, D.C. 20590

Emergency Action Guide for Selected Hazardous Materials

National Fire Protection Association  
470 Atlantic Avenue  
Boston, MA 02110

"Handling Hazardous Materials Transportation"  
Training package - 20 hour program  
Slides and cassettes

Hazardous Materials Data  
(Publication #49)

Properties of Flammable Liquids, Bases and Volatile Solids  
(Publication #325)

Manual of Hazardous Chemical Reactions (Publication #491)

Fire Hazards of Materials  
(Publication #704m)

Radiation Control for Fire and Other Emergencies

## RADIOLOGICAL TRAINING, EQUIPMENT AND SUPPLIES

### F. Books, Information Sources, Films, Training Aids

Manufacturing Chemists Association  
1825 Connecticut Avenue, NW  
Washington, D.C. 20009

Association of American Railroads  
Bureau of Explosives  
1920 L Street, NW  
Washington, D.C. 20036

U.S. Atomic Energy Commission  
U.S. Government Printing Office  
Washington, D.C. 20402  
U.S. Department of Energy - TIC Film  
Library  
P.O. Box 62  
Oak Ridge, TN 37830  
(615) 483-5661 X34161

Video Technics  
Division of Video Teletechnics, Inc.  
P.O. Box 263  
Bradenton, FL 33506  
(813) 577-0162

McGraw-Hill Publications Co.  
4530 W. 77th Street  
Minneapolis, MN 55435

Abbott Laboratories  
Audio Visual Services  
565 5th Avenue  
New York, New York 10017

Courter Media Corporation  
121 NW Crystal Street  
Crystal River, FL 32629  
(904) 795-2156

Stephanie I. Ladewig, Director  
EMS Information Services  
Emergency Care Information Center  
P.O. Box 457  
Wilton, CN 06897  
(203) 762-3911

Chemical Safety Data Sheets  
Transportation Emergency Infor-  
mation "Chem-Cards"

Pamphlets #1, 2, 3, 4:  
Emergency Handling of Hazardous  
Materials in Surface Trans-  
portation

Radiological Emergency Procedures  
for the Nonspecialist

Film: "Radiation Accident  
Patients: Emergency Handling  
for Hospitals and Rescue Squads"  
Available for free loan  
(18 min. color film with booklets)

Videotape Series - Cassettes  
(Con-Ed Program)  
Tape #19 Nuclear Contamination  
Patient Management  
Tape #20 Nuclear Contamination  
Facility

Book: Smith, A.J. Managing  
Hazardous Substance Accidents.  
1981 McGraw-Hill Book Co.  
1221 Avenue of the Americas  
New York, New York 10020  
188 p. \$19.95

Film: "Disaster! Pre-hospital  
Management of Mass Casualties."  
14 min. 16mm color.  
Rent: \$10.00 Purchase \$100-\$160

Films: "Hazardous Materials - The  
Emergency Response, 1980"  
"Structural Fire Attack"  
"Basic Search and Rescue"  
"Breathing Apparatus - Why?"  
"Foam"

Publishes and Distributes  
"Medical 911" - a  
Comprehensive review of all  
EMS materials and information

## RADIOLOGICAL TRAINING, EQUIPMENT AND SUPPLIES

### F. Books, Information Sources, Films, Training Aids

Ernie Kole, Educational Rep.  
International Film Bureau, Inc.  
332 South Michigan Ave.  
Chicago, IL 60604  
(312) 427-4545, X41

International Association of Fire Chiefs  
Attention: ERG  
1329 18th Street, NW  
Washington, D.C. 20036  
(202) 833-3420

Film Communicators  
11136 Weddington Street  
North Hollywood, CA 91601  
(213) 766-3747  
(800) 423-2400

International Fire Service Training Assoc.  
Oklahoma State University  
Stillwater, OK 74078  
(405) 624-5723  
contact: Gene Carlson

Fire Research Publications, 1979  
(NBS 80-2114)  
National Technological Information  
Service  
Springfield, VA 22161

Federal Emergency Management Agency  
Office of Printing and Publications  
Washington, D.C. 20472

Federal Interagency Committee on Explosures  
Department of the Treasury  
Bureau of Alcohol, Tobacco and Firearms  
Washington, D.C. 20226

Film: 16mm "Toxic Hazards in  
Industry"  
For purchase or rent

Will distribute 1 copy per emer-  
gency response vehicle and one  
per communication center of:  
1980 "Hazardous Materials Response  
Guide Book"

Film: (Flammable Liquids)  
"Hazardous Materials"  
(no Radiological)

Free publication by Fire Protec-  
tion Publication: Newsletter  
"Speaking of Fire."  
Contains "Nuts and Bolts of  
Hazardous Materials"  
(Has not addressed specifically  
radiological yet)

(For purchase, Order Publ. #81-  
103335)  
Publication catalog of all aspects  
of fire and fire control. By  
Center for Fire Research, other  
NBS personnel, outside labora-  
tories under CFR contractor  
grant. Journal articles, con-  
ference proceedings. 21pp.

Book: Planning Guide and  
Checklist for Hazardous  
Materials Contingency  
Plans  
(FEMA Publication number  
FEMA-10)

"Who Do I Call?" Explosives  
Federal Agency Director  
47pp.; 200 subject areas; agency  
and phone number information.



## RADIOLOGICAL TRAINING, EQUIPMENT AND SUPPLIES

### F. Books, Information Sources, Films, Training Aids

National Foam  
150 Gordon Drive  
Lionville, PA 19353  
(215) 363-1400

Fire Publication:  
Foam Liquids and Equipment for  
Municipal and Volunteer Fire  
Departments

### G. Supplies of Radiological Monitoring/Clothing and Equipment

Victoreen Instrument Company  
Cleveland, Ohio

Radiation Monitors

Eberline Company  
Santa Fe, New Mexico

Radiation Monitors

Defense Apparel Corporation

Protective Clothing

Department of Energy Regional Offices

May have further local sources.

Quick Response  
4210 Barringer Drive  
Charlotte, NC 28210  
(704) 527-5595

Products For Sale: General EMS  
emergency care products.  
Burn care products.

Zee Medical Products Co., Inc.  
7 Holland Avenue  
Torine, CA 92714  
1-800-854-7253

Products for Sale: General EMS  
emergency care products.  
Burn care products.

Direct Safety Company  
1607 W 17th Street  
Tempe, AZ 85281  
(602) 968-7009

Safety Aids, Emergency equipment.  
Catalog-02; traffic control signs  
fire extinguishing.

BP Safety Equipment  
Ron Powell, Manager  
1972 Del Amo Blvd; Ste. C.  
Torrance, CA 90501  
(213) 328-5525

Burn kits and supplies  
Industrial kits

Globe Safety Products, Inc.  
125 Sunrise Place  
Dayton, Ohio 45407  
(513) 224-7468