Addendum, Five-year Plan For Florida's Fire-rescue Training And Education System

1-1-1996

J. Peter Kincaid

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Addendum -
Five-Year Plan
for
Florida's Fire-Rescue
Training and Education System

Addendum to
Final Report Submitted
to
Florida Department of Insurance and Treasurer

by
J. Peter Kincaid, Wendell C. Lawther, and
Frank Montes-de Oca

March 15, 1996

Institute for Simulation and Training & Department of Public Administration
University of Central Florida
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Final Report Mailing List

A number of final reports were mailed to representatives of Fire Departments and Community Colleges. These were chosen because of an expressed interest in the program. Comments and suggestions received will be used in future planning.

Bill Dryburgh, Fire Chief  
Punta Gorda Fire Department  
1410 S. Tamianmi Trail  
Punta Gorda, FL 33950

Tandy Tuten, Director  
Valencia Community College  
Fire Science Program  
P.O. Box 3028  
Orlando, FL 32802

Tom Siegfried, Fire Chief  
Altamonte Springs Fire Department  
225 Newburyport Avenue  
Altamonte Springs, FL 32701

Mike Iacona, Fire Chief  
Orange County Fire Rescue  
6590 Amory Court  
Winter Park, FL 32792

Don Widing, Assistant Chief  
West Palm Beach Fire Department  
500 N. Dixie Highway  
West Palm Beach, FL 33401

Ed Cleveland, Fire Chief  
West Side Fire Department  
407 67th Street West  
Bradenton, FL 34209

Jim Moody, Acting Department Manager  
Orange County Fire Rescue/Operations  
6590 Armory Court  
Winter Park, FL 32792

Mike Morgan, Fire Chief  
Springhill Fire Department  
3445 Bob Hartung Court  
Springhill, FL 34606

Cindy Cameron, Fire Science Technology  
Brevard Community College  
519 Clearlake Road  
Cocoa, FL 32922

Julie Wright, Continuing Ed.  
Daytona Beach Community College  
P.O. Box 2811  
Daytona Beach, FL 32115-2811

Dan Folsom, Fire Science  
Seminole Community College  
100 Weldon Boulevard  
Sanford, FL 32773-6199

Supplemental Funding From Government Agencies

While the overall SUS/FSFC program will be adequately financed given the proposed funding, the quality can be considerably improved with additional funding from other sources: mainly, short courses and external grants and contracts.
Short courses: As indicated in our final report (dated December 15, 1995), short courses are a substantial potential source of supplemental funding; both for the FSFC and the universities involved in the program. The development of short courses is described elsewhere in the report.

Grants and Contracts: We have investigated a number of funding sources which would sponsor research, development and training related to the overall goals of the program. A list of the more promising sources, along with points of contact, action taken to date, and other relevant information is presented below.

1. US Army (Chemical Stockpile Emergency Preparedness Program, part of the Chemical, and Biological Defense Command, CSEPP/CBDCOM). This agency oversees seven sites throughout the US which store chemical weapons, such as nerve gas. They have an active training program for emergency preparedness and conduct regular exercises, in conjunction with the Federal Emergency Management Agency (FEMA).

Action Taken to Date: IST's Plowshare Project, funded by the US Army brought us into contact with this program and Dr. Kincaid was an observer at a major joint CSEPP/FEMA exercise conducted at Tooele Army Depot, located near Salt Lake City. The exercise was conducted in November 1995 and involved participants from CSEPP, FEMA, Tooele Army Depot, and local agencies from nearby counties, as well as the State of Utah. Procedures for conducting emergency preparedness exercises are quite advanced and there is a possibility of using IST's expertise to secure sponsored research; we are pursuing this lead.

2. US Department of Labor. Targeted Training Grants. Two areas which are called out for funding appear to be related to the current program.

- Training workers and employees in new OSHA standards.
- Training in recognized high hazard areas.

Organizations awarded grants are expected to develop training and/or education programs that address a target named by OSHA, reach out to workers and employees for whom the program is appropriate, and provide the training and/or education program to them.

We are on the list to receive the grant application package. Awards are normally given once a year, during the summer. However, due to the lack of a federal budget being in place, at the time of this writing, the schedule for the FY 1996 program is in question.
The fact sheet, describing the program, and a letter from Helen Beall, OSHA Training Specialist, is in Appendix E.


Recent changes at the NFA are resulting in favorable conditions for funding from that agency. A new professional Director (all previously Directors have been politically appointed), Dr. Denis Onieal is now in place. Dr. Onieal is retired as Chief of the Newark (NJ) Fire Department. He also earned doctorate in adult education from New York University.

Actions Taken to Date: Chief Montes-de-Oca and Dr. Kincaid visited Dr. Onieal and staff members of the NFA during the course of this study. We were encouraged to follow up, with specific suggestions for joint work, including funding from the NFA and/or other agencies of FEMA. We have followed up in two ways:

- We developed a prototype computer-based training program, based on NFA curriculum material, dealing with calculating water flow requirements for fire fighting (See Appendix D for a description of the computer program).

- The NFA has a new initiative for distance education and our efforts described above relate to that initiative. Dr. Kincaid has had discussions with NFA staff members about the SUS/FSFC program being a site for the State of Florida for the NFA distance education network. Funding might be available directly from the NFA or indirectly through other sources such as the Department of Labor, the US Army or the National Science Foundation.
Techniques for Instructional Delivery and Program Expansion

Through our interaction with FSFC, we learned that several areas of education for fire/rescue and emergency management need to be strengthened/added and can be accomplished by additional academic courses, an annual symposium, long distance learning/computer based training, and a World Wide Web (WWW) homepage.

Future Academic Courses

The following course descriptions include the area FSFC feels are most needed for future consideration.

*Aircraft Rescue and Firefighting (ARFF) (3 credit hours)*

This course presents the technical and theoretical concepts and practices of a highly specialized firefighting function. During the course the participants will acquire knowledge of aviation terminology; US Federal Aviation Authority (FAA) rules and regulations; aircraft systems/construction; suppression agents; application requirements and techniques; US Department of Transportation (DOT) hazardous materials packaging, labeling and transporting regulations. Included in this course of instruction is Incident Command Systems for Emergency Medical Services (ICS/EMS) as developed by the National Fire Academy (NFA).

A combination of classroom and field activities will adequately prepare those interested in specializing in the field and those who aspire to supervise or manage ARFF crews.

*Public Fire Safety Education (3 credit hours)*

This course will address the fundamental principles such as: community involvement and support; media and school relations; motivational factors; local resource identification; procuring materials; organizational acceptance, and communication and presentation skills. Also covered will be newly emerging concepts of Public Fire Safety Education such as: demographic analysis; accident prevention; community risk-management; program monitoring; institutional change; clowning and youth fire-setter prevention and educational gain. Group activities and classroom interaction are significant ingredients in this program, and will enhance the experience of the participant.
Organizational and Interpersonal Communications (3 credit hours)

This course will cover those topics that will assist the individual in improving his/her personal and team effectiveness through group dynamics and communication. Issues such as: group culture; various communication models; personal and team communicational style; conflict resolution; problem-solving; brain-storming; role conflict; and overcoming communicational barriers will be covered. Several individual and group activities will be presented during the course, and will enhance the learning outcome for participants.

Marine Firefighting (3 credit hours)

This course is intended for those personnel assigned to handle water-borne emergencies or assignments requiring the use of marine firefighting equipment and techniques. Participants will acquire knowledge and skills in US Coast Guard (USCG) rules and regulations; maritime law; navigational principles; specialized equipment and tactical considerations unique to marine firefighting such as the effects of weather on emergency marine firefighting operations; suppression additives/agents, marine structural integrity and hazardous commodities. Also covered will be topics associated with water rescue and safety.

First Annual Marine Firefighting Symposium

In conjunction with setting up the Marine Firefighting course, we recommend holding a symposium. The addition of an annual symposium provides Florida firefighters an opportunity needed because of Florida’s unique coastline to draw information and techniques from well developed existing programs and experience.

The goal of the symposium is to present current procedures and practices in marine firefighting through lecture/discussion case study presentation and group/panel discussions to enhance the safety of and efficiency in managing water-borne fire and emergency incidents. The program will be enhanced via a time-delay, asynchronous computer link-up to allow off-site participants access via view-only and interactive communication with presenters and participants.
Potential Sponsors:

- Florida Insurance Commissioner's Office
- Florida State Fire College
- University of Central Florida
- University of Florida
- Florida Fire Chief's Association
- Florida Insurance Underwriter's Association (Affiliated Sponsor)
- United States Environmental Protection Agency (Affiliated Sponsor)
- United State Coast Guard (Affiliated Sponsor)
- United States Federal Emergency Management Agency (Affiliated Sponsor)

Topics:

- Rules and Regulations Governing Marine Safety and Firefighting
- Operational Procedures
- Tactical Considerations and Techniques
- Case Studies and After Action Results
- Equipment and Technology Review
- Maritime Law
- Clean Water Act (CWA) and Other Related Environmental Initiatives
- Emergency Management Considerations

Potential Presenters/Representatives:

- Philadelphia F.D. - Phil McLaughlin, Deputy Commissioner (Ret.)
- Boston Fire Department - TBD
- Jacksonville Fire Department - Randy Napoli, Deputy Chief/Operations
- Tampa Fire Department - TBD
- US Environmental Protection Agency - TBD
- US Coast Guard - TBD
- US Federal Emergency Management Agency - TBD
- Cruise Ship Industry Representative - TBD
Long Distance Learning/Computer Based Training

The unusual work schedules of many fire/rescue workers and the inaccessibility to university facilities found in some parts of Florida make long distance learning and computer based training a vital part of the education and training program.

The FEMA Independent Study Program offers a good opportunity for addition of one hour credits and we will consider transferring a certain number of these credits into our program.

Computer based training (CBT) offers a unique opportunity to practice needed skills. An example of a CBT developed by IST for firefighters can be found in Appendix D.
STUDY PROGRAM

The Federal Emergency Management Agency's Independent Study Program is delivered through the Emergency Management Institute (EMI) and consists of 12 self-paced courses. Individual and group enrollments are available for all courses. Each set of course materials includes practice exercises and a final examination. Those who score 75 percent or better are issued a certificate of completion by EMI.

There is no charge for enrollment. Individual enrollments should be submitted on the attached application. Requests for group enrollment (five or more participants may be made by letter or FEMA FL-21, "Application for Group Enrollment"). If more than one course is requested, courses will be sent in numerical sequence. Participants must successfully complete the course provided before the next course will be sent. Average courses completion time is 10-12 hours.

COLLEGE CREDIT

One semester hour of college credit may be obtained for each successfully completed course (with the exception of IS-6). Requests for information regarding applications for academic credit and fees should be submitted in writing to:

FEMA Independent Study Program
Emergency Management Institute
16825 South Seton Avenue
Emmitsburg, MD 21727-9986

Military Retirement Points

Military (Army, Air Force, and Coast Guard) reserve components not on extended duty may earn points for retention and retirement purposes after successful completion of all (with the exception of IS-6, IS-301, IS-330, and IS-336) independent study courses.

Requests for military retirement points should be submitted in writing once a year to the FEMA Independent Study Office at the address listed. Requests should include name, address, social security number, course title, and branch of service.
GENERAL COURSES

AN ORIENTATION TO COMMUNITY DISASTER EXERCISES (IS-120)
Course Content:
• Prerequisite to EMI Field Course G120. Exercise Design
• Types of Emergency Management Exercises
• Exercise Development Process
• Basic Steps in Exercise Design

Course materials include a videotape and workbook. Access to ½" VHS/VCR and TV is necessary.

THE ROLE OF THE EOC IN COMMUNITY PREPAREDNESS, RESPONSE, & RECOVERY ACTIVITIES (IS-275)
Course Content:
• Prerequisite to EMI Field Course G275. EOC Management & Operations
• Role of the EOC in Preparing For, Responding To, and Recovering From Potential or Actual Incidents
• Roles and Responsibilities of the EOC Operations Officer/Manager

Course materials include a videotape and workbook. Access to ½" VHS/VCR and TV is necessary.

AUDIENCE-SPECIFIC COURSES

AUDIENCE-SPECIFIC COURSES

BUILDING FOR THE EARTHQUAKES OF TOMORROW: COMPLYING WITH EXECUTIVE ORDER 12699 (IS-8)
Course Content:
• Requirements and Effects of Executive Order 12699
• Earthquake Causes, Characteristics & Effects
• Protecting and Evaluating Your Community's Safety

RADIOLOGICAL EMERGENCY RESPONSE (IS-301)
Course Content:
• Provides comprehensive understanding of radiological protection and response principles, guidelines, and regulations.
• Prerequisite to EMI resident course E301. Radiological Emergency Response Operations (RERO)

REFRESHER COURSE FOR RADIOLOGICAL MONITORS (IS-330)
Course Content:
• Review of monitoring techniques, protective actions, and radiation information for all types of radiation emergencies
• Prerequisite: G320. Fundamentals Course for Radiological Monitors. A copy of the Certificate of Completion should accompany the application.

REFRESHER COURSE FOR RADIOLOGICAL RESPONSE TEAMS (IS-336)
Course Content:
• Review of monitoring techniques, protective actions, response procedures, and other related topics for all types of radiation emergencies
• Prerequisite: G326. Fundamentals Course for Radiological Response Teams. A copy of the Certificate of Completion should accompany the application.

Course materials available in two formats:
• Computer based instruction (CBI) requires access to IBM compatible with 640 memory and 3½" diskette drive.
• Also available in compact disc interactive (CDI) requires access to a CD player and TV.

PORTABLE EMERGENCY DATA SYSTEM (PEDS) (IS-6)
Course Content:
• Hands-on Training with the Portable Emergency Data System (PEDS)
• How PEDS can be Utilized as an Operational Tool
• Identification of Emergency Response System Frequencies: Public Safety, Civil Air Patrol, Fire, Police, and Emergency Management
• Planning Methods that Support Specific Emergency Communications

IS-6 requires an IBM compatible computer with 640K memory and a 5¼" or 3½" diskette drive to take course. (Materials will include both sizes of diskette.)
Public Domain Fire/Rescue World Wide Web (WWW) Site

We acquired the entire contents of the TRADE VI electronic bulletin board, which has been sponsored by the NFA and is currently being maintained as a low level effort by Bob Bennett of Arlington, Texas.

The contents are in the public domain and represent an invaluable asset for curriculum development. We are in the process of establishing a site on the WWW, as a location for the bulletin board. We have sent a copy of the bulletin board contents (See Appendix C) to Ron Thomas of the FSFC. Plans are that Mr. Bennett will continue to update the bulletin board, and participants in the SUS/FSFC program will have access through the WWW.
Appendix A  Related Sources of Short Courses and Curriculum Development Materials

We found many sites with related course development materials for the three initial short courses we plan to offer:

Overview of Process Safety Management

Florida State Fire College General Catalog (FSFC) 1996 pg 24 - Hazardous Materials II, 40 hours, 4 day course, cost of activities $29 and workbook $18.

OSHA Training Institute Schedule (1996) pg B-1 - Introduction to Industrial Hygiene for Safety Personnel, 9 days, cost to private sector $1050.

OSHA Training Institute Schedule (1996) pg B-2 - Introduction to Industrial Hygiene for Safety Personnel ...shortened form of 2...cost is $546, lasts 5 days and is available to non-compliance personnel.

Curriculum Development Source Materials

Hazardous Materials: Operations (Holloman Fire Department) Study Guide

Hazardous Materials: Technician (Holloman Fire Department) Study Guide
Developed by Msgt. Darryl Stewart
DSN: 867-5947
COMM: (505) 475-5947

Hazardous Materials for First Responders
International Fire Service Training Association
Fire Protection Publications
Oklahoma State University
Stillwater, OK 74078-0118
Copyright 1994
(405) 744-5723
HAZMAT: Operational Level Training
12 (25 min) video training series
Fire & Emergency Television Network
Training on Demand
1303 Marsh Lane
Carrolton, Texas 75006-5430
(800) 932-3386

Dangerous Hazardous Materials
737-0006 2-part video (1 hour)
Fire & Emergency Television Network
Training on Demand
1303 Marsh Lane
Carrolton, Texas 75006-5430
(800) 932-3386

Containment, Treatment, and Disposal (Industrial Strength Curriculum)
730-0021 video (30 min)
Fire & Emergency Television Network
Training on Demand
1303 Marsh Lane
Carrolton, Texas 75006-5430
(800) 932-3386

Decontamination (Industrial Strength Curriculum)
730-0023 video (30 min)
Fire & Emergency Television Network
Training on Demand
1303 Marsh Lane
Carrolton, Texas 75006-5430
(800) 932-3386

Hazardous Material Spills (Industrial Strength Curriculum)
730-0019 video (30 min)
Fire & Emergency Television Network
Training on Demand
1303 Marsh Lane
Carrolton, Texas 75006-5430
(800) 932-3386

Hazardous Materials Incident Analysis (HMIANFA)
Maryland Fire and Rescue Institute
University of Maryland College Park, Maryland
Field Programs Program Catalog page 40
Initial Response to Hazardous Materials Incident: Basic Concepts (IRHMIBC)
Maryland Fire and Rescue Institute
University of Maryland College Park, Maryland
Field Programs Program Catalog page 41

Initial Response to Hazardous Materials Incident: Concept Implementation (IRHMICI)
Maryland Fire and Rescue Institute
University of Maryland College Park, Maryland
Field Programs Program Catalog page 41

Maryland Fire and Rescue Institute
University of Maryland College Park, Maryland
Field Programs Program Catalog page 41

Safety and OSHA Compliance Self-Inspection

OSHA Training Institute Schedule (1996) pg B-1 - Safety Hazard Recognition for Industrial Hygienists, 9 days, cost to private sector $1,112.

Curriculum Development Source Materials

Environmental Compliance: Part 1 Hazardous Waste
Part 2 Radioactive & Mixed Waste
18 min: 1/2 " video; produced by Lawrence Berkeley Laboratory (1993)

Hazardous Materials for First Responders
International Fire Service Training Association
Fire Protection Publications
Oklahoma State University
Stillwater, OK 74078-0118
Copyright 1994
(405) 744-5723

Hazardous Materials Exercise Evaluation Methodology (HM-EEM)
Federal Emergency Management Agency
February 1992
Hazmat 730-0062 (Private Sector Series)
2-part video series (1 hour)
Fire & Emergency Television Network
Training on Demand
1303 Marsh Lane
Carrolton, Texas 75006-5430
(800) 932-3386

Hazmat Teams (Industrial Strength Curriculum)
730-0047 video (30 min)
Fire & Emergency Television Network
Training on Demand
1303 Marsh Lane
Carrolton, Texas 75006-5430
(800) 932-3386

Managers and Supervisors Overview of OSHA Regulations

University of North Florida Division of Continuing Education Spring Catalog (1996) pg 17 - OSHA Hazardous Substance Site Supervisor Training Course, 8 hour course, runs four days 8-5, fee is $225

Curriculum Development Source Materials

Managerial Issues in Hazardous Materials
FSFC #403

Hazardous Materials for First Responders
International Fire Service Training Association
Fire Protection Publications
Oklahoma State University
Stillwater, OK 74078-0118
Copyright 1994
(405) 744-5723

HAZMAT: Incident Management
12 (25 min) video training series
Fire & Emergency Television Network
Training on Demand
1303 Marsh Lane
Carrolton, Texas 75006-5430
(800) 932-3386
Hazcom: Supervisory Overview (Industrial Strength Curriculum)
730-0026 video (30 min)
Fire & Emergency Television Network
Training on Demand
1303 Marsh Lane
Carrolton, Texas 75006-5430
(800) 932-3386

Industrial Strength (Industrial Strength Curriculum)
729-0002 video (30 min)
Fire & Emergency Television Network
Training on Demand
1303 Marsh Lane
Carrolton, Texas 75006-5430
(800) 932-3386
Appendix B Industries and Fire Departments Contacted for Feedback on Short Courses

In an effort to determine industry and fire/rescue department needs for OSHA mandated courses in a unique short course form, we contacted the following industries and fire/rescue departments:

<table>
<thead>
<tr>
<th>Company</th>
<th>First Name</th>
<th>Last Name</th>
<th>Job Title</th>
<th>Address1</th>
<th>Address2</th>
<th>City</th>
<th>State</th>
<th>Postal Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winkler Flexible Prds. Inc. (270)</td>
<td>Juan</td>
<td>Reid</td>
<td>Admin. Manager</td>
<td>5540 Broadway Ave.</td>
<td>P.O. Box 6973</td>
<td>Jacksonville</td>
<td>FL</td>
<td>32236-6973</td>
</tr>
<tr>
<td>Tredgar Molded Prds. Inc. (175)</td>
<td>Ben</td>
<td>Holder</td>
<td>Plant Manager</td>
<td>2701 75th St. N.</td>
<td></td>
<td>Saint Petersburg</td>
<td>FL</td>
<td>33710</td>
</tr>
<tr>
<td>Security Plastics Inc. (375)</td>
<td>Norman H.</td>
<td>Cohan</td>
<td>President</td>
<td>14427 60th Ave N.W.</td>
<td></td>
<td>Miami Lakes</td>
<td>FL</td>
<td>33014</td>
</tr>
<tr>
<td>Munters Corp. Owens-Corning Fiberglas Corp. (175)</td>
<td>Sven</td>
<td>Lunding</td>
<td>President</td>
<td>1086 6th St. S.E.</td>
<td>P.O. Box 6428</td>
<td>Ft. Myers</td>
<td>FL</td>
<td>33911</td>
</tr>
<tr>
<td>Paradise Fruit Co. Inc. (175)</td>
<td>Lee</td>
<td>Cartwright</td>
<td>Plant Manager</td>
<td>1200 Maring Luther King Blvd. N.E. 25th Ave.</td>
<td>P.O. Box 4</td>
<td>Plant City</td>
<td>FL</td>
<td>33567</td>
</tr>
<tr>
<td>Professional Medical Prds. Inc. (300)</td>
<td>Douglass</td>
<td>Hunt</td>
<td>President</td>
<td>2833 Overpass Road</td>
<td></td>
<td>Tampa</td>
<td>FL</td>
<td>33619</td>
</tr>
<tr>
<td>Florida Polymers (300)</td>
<td>James</td>
<td>Bailey</td>
<td>President</td>
<td>1000 Sand Pond Road</td>
<td></td>
<td>Lake Mary</td>
<td>FL</td>
<td>32746</td>
</tr>
<tr>
<td>Apogee Plastic Technologies Inc. (300)</td>
<td>Floyd L.</td>
<td>Fulford</td>
<td>President</td>
<td>1845 Holsonback Drive</td>
<td></td>
<td>Daytona Beach</td>
<td>FL</td>
<td>32117</td>
</tr>
<tr>
<td>Constar Inl. Inc. (180)</td>
<td>Larry</td>
<td>McDonough</td>
<td>Plant Manager</td>
<td>7400 S. Orange Ave. 4020 N. 29th Ter.</td>
<td></td>
<td>Orlando</td>
<td>FL</td>
<td>32809</td>
</tr>
<tr>
<td>Constar Inl. Inc. (175)</td>
<td>Human</td>
<td>Resource/T raining Dept</td>
<td></td>
<td></td>
<td></td>
<td>Hollywood</td>
<td>FL</td>
<td>33020</td>
</tr>
<tr>
<td>Essex Plastics Inc. (200)</td>
<td>Oscar</td>
<td>Mayorga</td>
<td>President</td>
<td>1531 12th Ave. N.W. 6200 49th St. N.</td>
<td></td>
<td>Pompano Beach</td>
<td>FL</td>
<td>33069</td>
</tr>
<tr>
<td>Polyplastex Inl. (175)</td>
<td>Dennis</td>
<td>Peskin</td>
<td>President</td>
<td>731 Central Florida Parkway</td>
<td></td>
<td>Pinellas Pk</td>
<td>FL</td>
<td>34665</td>
</tr>
<tr>
<td>Arizona Chemical Co. (700)</td>
<td>J.</td>
<td>Trouts</td>
<td>Plant Manager</td>
<td>P.O. Box 2447</td>
<td></td>
<td>Panama City</td>
<td>FL</td>
<td>32402</td>
</tr>
<tr>
<td>Dial Corp. (175)</td>
<td>George</td>
<td>Merrell</td>
<td>Plant Manager</td>
<td>909 Magnolia Ave.</td>
<td>P.O. Box 1344</td>
<td>Auburndale</td>
<td>FL</td>
<td>33823</td>
</tr>
<tr>
<td>Johnson Controls Inc.</td>
<td>Human</td>
<td>Resource/ Training Dept</td>
<td></td>
<td></td>
<td></td>
<td>Orlando</td>
<td>FL</td>
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<td>3100 Merircamp Road 1381 30th Ave. S.W.</td>
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<td>Wagner</td>
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<td>Neil K.</td>
<td>Braverman</td>
<td>President</td>
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<td>Macasphalt (300)</td>
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<td>Donofrio</td>
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<td>Rice</td>
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<td>Scott</td>
<td>President</td>
<td>S. R. 630 West</td>
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<td>Newport Div. Reichhold Chemicals Inc.</td>
<td>L.P.</td>
<td>Finnegan</td>
<td>President</td>
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<td>George W.</td>
<td>Robbins</td>
<td>President</td>
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<td>R.T.</td>
<td>Chamberlain</td>
<td>General Manager</td>
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<td>Miramar</td>
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<td>R.C.</td>
<td>Luizzi</td>
<td>President</td>
<td>10608 S.R. 39 N.</td>
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<td>J.R.</td>
<td>Schnedeman</td>
<td></td>
<td>Hutchinson Road</td>
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<td>Vice Pres./Gen Manager</td>
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<td>Smith</td>
<td>VP/General Manager</td>
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<td>Gebbia</td>
<td>Plant Manager</td>
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<td>Rice</td>
<td>President</td>
<td>US Hwy I</td>
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<td>Fiedhammer</td>
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<td>David J.</td>
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<td>Palm Coast Data LTD (360)</td>
<td>Michael J.</td>
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<td>Scherer, RP North America (450)</td>
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<td>Hugill</td>
<td>President</td>
<td>2725 Scherer Drive</td>
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<td>Baxter Healthcare Diagnostics (575)</td>
<td>Lee</td>
<td>Flowers</td>
<td>General Manager</td>
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<td>Hal</td>
<td>Price</td>
<td>Plant Manager</td>
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<td>CYTEC Industries (300)</td>
<td>K.D.</td>
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<td>Bruce J.</td>
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<td>Larry K.</td>
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<td>Orlando Fire Department</td>
<td>Robert A.</td>
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<td>Donald H.</td>
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<td>Jacksonville Beach Fire Department</td>
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<td>James M.</td>
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<td>Paul</td>
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<td>Interim Fire Chief</td>
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<td>James A.</td>
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<td>Orange County Fire Rescue Division</td>
<td>Mitchell C.</td>
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<td>6590 Amory Court</td>
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<td>Miami Fire Rescue Department</td>
<td>C.A.</td>
<td>Gimenez</td>
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<td>Daytona Beach Fire Department</td>
<td>Ian G.</td>
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<td>Donald W.</td>
<td>Harkins</td>
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<td>301 N. Andrews Avenue</td>
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<td>Lake County Fire &amp;</td>
<td>Craig E.</td>
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<td>Senior Director/</td>
<td>P.O. Box 7800</td>
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<td>St. Petersburg Fire</td>
<td>Jerry</td>
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<td>Fire Chief</td>
<td>400 9th Street South</td>
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<td>Rudy</td>
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<td>R. D.</td>
<td>Paulison</td>
<td>Fire Chief</td>
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<td>Panama City Fire</td>
<td>Jerry W.</td>
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<td>Tallahassee Fire</td>
<td>Thomas C.</td>
<td>Quillin</td>
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<td>327 N. Adams Street</td>
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<td>Gainesville Fire/</td>
<td>Richard F.</td>
<td>Williams</td>
<td>Fire Chief</td>
<td>P.O. Box 490</td>
<td>Gainesville</td>
<td>FL</td>
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<td>Rescue Department</td>
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<td>Ocala Fire Department</td>
<td>William E.</td>
<td>Woods</td>
<td>Fire Chief</td>
<td>410 N.E. Third Street</td>
<td>Ocala</td>
<td>FL</td>
<td>34470</td>
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</table>
Appendix C  Contents of Public Domain Bulletin Board

The following is a contents list of the Region VI TRADE bulletin board maintained by Bob Bennett in Arlington, Texas:

° TRADE'S TRAINING BBS °

Listing Of ALL Available Files As Of 01-27-95

----------------------------------------------------------------------------------------------------------------------------------
| Utilities                                                                                                                   |
----------------------------------------------------------------------------------------------------------------------------------
| File Name           | Size    | Date   | Description                                                                 |
----------------------------------------------------------------------------------------------------------------------------------
| 24TO96.ZIP          | 3,237   | 03/20/93 | Convert your 2400 modem to 9600                                            |
| DL: 8 Upldr: BOB BENNETT |
| ARJ241.ZIP          | 223,019 | 11/21/93 | Archive program                                                            |
| DL: 0 Upldr: BOB BENNETT |
| ARJ293B.ZIP         | 119,529 | 03/25/93 | Archive Program                                                             |
| DL: 0 Upldr: BOB BENNETT |
| AVIEW64F.ZIP        | 65,151  | 03/20/93 | AVIEWcom v1.64 for viewing files with Wildcat                              |
| DL: 0 Upldr: BOB BENNETT |
| BRUN.ZIP            | 208,172 | 03/21/93 | BRUN executable for doors, programs, etc                                    |
| DL: 2 Upldr: BOB BENNETT |
| CATSCAN3.ZIP        | 147,963 | 03/20/93 | CATSCAN version 3.0 to scan and re-zip                                     |
| DL: 1 Upldr: BOB BENNETT |
| HAP&PAH.ZIP         | 33,352  | 10/25/93 | File compression program (better than ARJ)                                  |
| DL: 1 Upldr: BOB BENNETT |
| HS113D6.ZIP         | 142,233 | 03/20/93 | HS/Link v1.13 beta D6 bidirectional external protocol driver               |
| DL: 1 Upldr: BOB BENNETT |
| MPT110.ZIP          | 60,046  | 03/20/93 | Mpt v1.10 external protocol driver                                         |
| DL: 0 Upldr: BOB BENNETT |
OLX-TD.ZIP 198,811 06/25/92 | Off Line Express Mail Reader
DL: 5 Upldr: BOB BENNETT

PCPLUS11.EXE 197,649 08/07/90 | For use with PROCOMM Plus
DL: 4 Upldr: BOB BENNETT

PCPLUSRRT.ZIP 33,558 02/11/88 | For Use with PROCOMM Plus
DL: 3 Upldr: BOB BENNETT

PKZ204G.EXE 202,574 02/14/93 | Latest version PKZIP
DL: 6 Upldr: BOB BENNETT

PKZMENU.ZIP 49,780 03/26/90 | Menu for PKZIP and PKUNZIP (Point and shoot)
DL: 6 Upldr: BOB BENNETT

PRCMTOOL.ZIP 202,371 04/19/90
DL: 0 Upldr: BOB BENNETT

QM45TD-1.EXE 333,564 10/09/92 | Qmodem 4.5 Test Drive version part 1
DL: 2 Upldr: BOB BENNETT | of 2

QM45TD-2.EXE 362,984 10/09/92 | Qmodem 4.5 Test Drive Version part 2
DL: 2 Upldr: BOB BENNETT | of 2

QV101.ZIP 65,261 11/01/93 | Wildcat questionnaire manager
DL: 3 Upldr: BOB BENNETT

SCANV111.ZIP 256,551 02/19/94 | Latest version Scan
DL: 3 Upldr: BOB BENNETT

SZMOD200.ZIP 187,202 03/20/93 | SZModem v2.0 external protocol with AModem and chat
DL: 3 Upldr: BOB BENNETT

UNARJ.ZIP 48,000 12/22/92 | Unarc program
DL: 3 Upldr: BOB BENNETT

UNARJ220.ZIP 49,454 06/25/92
DL: 0 Upldr: BOB BENNETT

WCDR100U.ZIP 35,076 03/29/93 | Wildraw program for use with Wildcat
DL: 1 Upldr: BOB BENNETT | BBS

XYZ2-100.ZIP 50,428 11/01/93 | External file transfer protocol
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<td>24,304</td>
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<td>Confined Space Lesson Plan (Arkansas Fire Academy)</td>
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<td>Forcible Entry LP Recruit level</td>
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<td>02/26/94</td>
<td>Firefighter I, II, III self study</td>
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<td>Floor Collapse Lesson Plan (MSWord)</td>
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FORCIBLE.ZIP  59,632  01/06/93  | Forcible Entry Lesson Plan (MSWord)
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GRDLDRS.ZIP  16,786  04/28/93  | Ground Ladders Lesson Plan (MSWord)
DL:  3 Upldr: BOB BENNETT

GRDLDRS1.ZIP  11,938  09/09/93  | Ground Ladders Lesson Plan (ASCII)
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HORZVENT.ZIP  28,234  06/12/93  | Horizontal Ventilation Lesson Plan
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HOSE.ZIP  15,328  07/12/93  | Fire Hose Inventory/Testing Program
DL:  2 Upldr: BOB BENNETT

HOSEDEP.ZIP  10,741  08/11/93  | Hose deployment steps
DL:  2 Upldr: BOB BENNETT

HYDRANT.ZIP  71,473  01/05/93  | Hydrant Maintenance Lesson Plan
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HYDRANT1.ZIP  19,863  09/10/93  | Hydrant Maintenance Lesson Plan (ASCII)
DL:  1 Upldr: BOB BENNETT

INFEC.ZIP  16,513  01/29/94  | Infection Control Policy (Little Rock
DL:  3 Upldr: BOB BENNETT

LAD-94.ZIP  54,400  07/31/94  | Ladder lesson plan and test (using
DL:  4 Upldr: BOB BENNETT

LPLANZ25.ZIP  251,660  10/25/93  | Lesson Plan developer
DL:  5 Upldr: BOB BENNETT

LPS.ZIP  354,488  08/18/93  | Assorted Lesson Plans from Irving Fire
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MOBIL1P1.ZIP  10,336  09/09/93  | Mobile Homes fires Lesson Plan part 1
DL:  3 Upldr: BOB BENNETT

MOBIL2P2.ZIP  37,934  10/29/93  | Mobile Home fires Lesson Plan part 2
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MOBILEP1.ZIP 59,700 01/06/93 Mobile Home Fires Lesson Plan part 1
DL: 2 Upldr: BOB BENNETT (MSWord)

MOBILEP2.ZIP 63,752 01/06/93 Mobile Home Fires Lesson Plan part 2
DL: 3 Upldr: BOB BENNETT (MSWord)

MVAPROT.LP 6,726 12/30/92 Motor Vehicle Accident Protocol
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OFFDEV.ZIP 8,173 01/29/94 Officer development (Aurora CO)
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PEAKED.ZIP 54,304 01/06/93 Peaked Roof Collapse (MSWord)
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PEAKED1.ZIP 31,459 10/29/93 Peaked Roof Collapse (ASCII)
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PUMPIG.ZIP 78,815 02/12/94 Pump Operators Lesson Plan
DL: 7 Upldr: BOB BENNETT (Instructor's Guide)

QUICKOUT 4,466 12/07/92 Lesson Plan for Quick Attack
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QUICKRE1 32,921 12/07/92 Quick Attack for First Engine
DL: 3 Upldr: BOB BENNETT

QUICKRE2 12,207 12/07/92 Quick Attack for Second Engine
DL: 2 Upldr: BOB BENNETT

QUICKRE3 5,608 12/07/92 Quick Attack for Third Engine
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RESCUE1.ZIP 5,387 09/10/93 Search and Rescue lesson plan (ASCII)
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SAFETY.ZIP 58,401 01/05/93 Safety Lesson Plan (MSWord)
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SALVAGE.LP 17,758 12/30/92 Salvage Lesson Plan (MSWord)
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SAR.ZIP 8,637 04/14/93 Search and Rescue Lesson Plan (MSWord)
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### General Information

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BLD93-4.ZIP  2,240  08/21/93  | Hepatitis B info on bloodborne info
DL:     1 Upldr: BOB BENNETT

BLD93-5.ZIP  2,652  08/21/93  | Personal protective equip for bloodborne info
DL:     1 Upldr: BOB BENNETT

CALENDAR.ZIP  194,076  12/07/92  | Calendar Maker Program
DL:     2 Upldr: BOB BENNETT

CARFIRE.TXT  10,081  03/13/93  | Dangers associated with Automobile fires
DL:     1 Upldr: BOB BENNETT

DECON.ZIP  39,967  10/23/94  | Keeps Track of Dives
DL:     1 Upldr: RICHARD WOODS

DIVELOG.ZIP  52,493  01/24/89  | Keeps Track of Dives
DL:     1 Upldr: BOB BENNETT

DRIVING.ZIP  14,202  03/06/93  | Lesson plan for driving
DL:     3 Upldr: BOB BENNETT

DTS20DOC.ZIP  196,867  02/21/94  | Docs for DTSD20.zip
DL:     1 Upldr: BOB BENNETT

DTSD20.ZIP  341,642  02/21/94  | Document search and retrieval Program
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ELEMENTS.ZIP  66,176  02/01/94  | Table to Periodic Elements
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FDCMS.ZIP  704,842  08/14/94  | Fire Dept. clerical management system
DL:     2 Upldr: KERRY BANKSTON

FEDERAL.ZIP  3,634  01/30/87  | List of Federal BBS's
DL:     7 Upldr: BOB BENNETT

FIREBMP.ZIP  38,194  10/23/94  | Windows Bitmaps I have drawn.
DL:     3 Upldr: RICHARD WOODS

FIREDPT.ZIP  125,300  04/09/93  | Pix of fire equipment
DL:     11 Upldr: BOB BENNETT
FIREPI.ZIP 43,385 06/19/93 | Fire equipment
DL: 4 Upldr: BOB BENNETT

FIREQUIZ.ZIP 82,118 09/04/93 | Fire Department Quiz
DL: 3 Upldr: BOB BENNETT

FIRESIM.ZIP 204,150 03/20/93 | Fire Simulator
DL: 7 Upldr: BOB BENNETT

FIRE_1.ZIP 155,527 04/13/93 | Small/VOI Fire Dept Management Prgm
DL: 3 Upldr: BOB BENNETT

FIRE_135.ZIP 142,961 07/12/93 | Fire Department Database Program (Must have DBase III)
DL: 2 Upldr: BOB BENNETT

FITNESS.ZIP 7,955 02/01/94 | ARA fitness information
DL: 1 Upldr: BOB BENNETT

HACK9309.ZIP 101,158 11/21/93 | Hackers Report
DL: 3 Upldr: BOB BENNETT

HARASS.ZIP 76,257 08/24/94 | Avoiding sexual harassment
DL: 0 Upldr: BOB BENNETT

HI-TEC.ZIP 399,859 01/22/94 | Job Search guide
DL: 0 Upldr: BOB BENNETT

HONGRD.DOC 26,624 03/14/94 | SOP's for F.D. Honor Guard
DL: 2 Upldr: ROBERT BENNETT

HOTMONTR.TXT 5,794 08/15/93 | Heat Stress Monitoring - Instruments
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HYDRAU.ZIP 340,802 07/05/93 | Fire Dept Hydraulics Tutor/Calculator
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HYDRAZIN.EAG 20,736 01/24/93 | Text file containing emergency action
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IBM-MAP.ZIP 103,236 10/23/94 | Map Maker
DL: 5 Upldr: KENNETH EKENSEAIR

ICS&EOC.TXT 21,632 02/21/94 | Incident Command and Emergency Ops
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Center
JAWS.ZIP 4,773 09/04/93 | Text file on Jaws of life
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MAINT.ZIP 12,313 03/20/93 | Heavy Equipment maintenance program
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MED0992.ZIP 14,607 09/07/92 | Fire/Medical/EMS BBS's
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MEDEMERG.ARC 109,568 02/01/94 | Diabetic Diabetic Program
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NEURO.ZIP 48,810 01/31/94 | Neurological Assessments
DL: 1 Upldr: BOB BENNETT |

NEWFILES.ZIP 582 04/01/99 | Zipped files list of new files (15
days updated nightly)
DL: 3 Upldr: BOB BENNETT |

NUMLOCK.ZIP 9,449 12/10/93 | Turn numlock off at boot up
DL: 0 Upldr: BOB BENNETT |

NUTRITIO.ZIP 14,943 01/11/95 | File on nutrition and eating habits
DL: 0 Upldr: BOB BENNETT |

PCDISP.EXE 197,632 04/13/93 | PC Dispatch Tracking Program
DL: 3 Upldr: BOB BENNETT |

PDR.EXE 658,480 11/25/93 | Physician Desk Reference
DL: 2 Upldr: BOB BENNETT |

PKHELP.ZIP 35,115 08/24/94 | How to use PKZIP & PKUNZIP
DL: 1 Upldr: BOB BENNETT |

PKLTE114.ZIP 49,768 10/25/93 |
DL: 0 Upldr: BOB BENNETT |

POISON.ZIP 47,500 01/31/94 | Text file on Poison Control Info
DL: 0 Upldr: BOB BENNETT |

README.TXT 1,839 10/23/94 | description of files uploaded by
DL: 0 Upldr: RICHARD WOODS | Richard Woods

REGDEL.ZIP 2,791 12/03/93 | 1994 Regional Delivery letters (MSWord)
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### HazMat Lesson Plans

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<td>Test Questions for IFSTA Hazmat (Promotional type questions)</td>
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<td>Penn. enviromental emergency response program</td>
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<td>SARAALL.ZIP</td>
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<td>SARACHEM.ZIP</td>
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<td>SARA Chemical list</td>
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### List of Lesson Plans and who to contact

- **File Name**: TRAREP1.DOC
- **Size**: 39,936
- **Date**: 11/01/92
- **Description**: List of Lesson Plans and who to contact
- **DL**: 2
- **Upldr**: BOB BENNETT

### National Fire Academy Info.

- **File Name**: NFA.ZIP
- **Size**: 178,339
- **Date**: 01/14/94
- **Description**: NFA application (TIF files)
- **DL**: 2
- **Upldr**: BOB BENNETT

### EMS Information

- **File Name**: ISTAID33.ZIP
- **Size**: 65,338
- **Date**: 10/25/93
- **Description**: Citizens First Aid Program
- **DL**: 1
- **Upldr**: BOB BENNETT

- **File Name**: AIDS.ZIP
- **Size**: 24,397
- **Date**: 01/27/94
- **Description**: Aids Info
- **DL**: 1
- **Upldr**: BOB BENNETT

- **File Name**: CARDCASE.ZIP
- **Size**: 87,573
- **Date**: 01/06/92
- **Description**: Cardiovascular Study cases
- **DL**: 0
- **Upldr**: BOB BENNETT

- **File Name**: CARS62.ZIP
- **Size**: 116,103
- **Date**: 02/05/94
- **Description**: Casualty Administrative Regulating System Ver 6.2
- **DL**: 0
- **Upldr**: BOB BENNETT

- **File Name**: DRUGDLVR.ZIP
- **Size**: 6,116
- **Date**: 04/20/93
- **Description**: Drug delivery program
- **DL**: 1
- **Upldr**: BOB BENNETT

- **File Name**: EMSREVU.ZIP
- **Size**: 194,870
- **Date**: 03/20/93
- **Description**: EMS Review Information
- **DL**: 4
- **Upldr**: BOB BENNETT

- **File Name**: EMTTEST.ZIP
- **Size**: 98,301
- **Date**: 03/20/93
- **Description**: EMT Test Questions
- **DL**: 5
- **Upldr**: BOB BENNETT

- **File Name**: HANDBOOK.ZIP
- **Size**: 19,815
- **Date**: 04/20/93
- **Description**: Suicide Prevention Handbook
- **DL**: 1
- **Upldr**: BOB BENNETT
MEDICAL.ZIP  69,588  10/23/90 | A Patient Diagnosis Program
DL:  5 Upldr: BOB BENNETT

SELFDEF  0  12/01/94 | Info on a new video and seminar for
DL:  0 Upldr: STEVE WILDER | EMT's

TELEMTRY.ZIP  111,191  04/20/93 | Telementar review, refresher, test
DL:  1 Upldr: BOB BENNETT

VACTRAC.ZIP  187,062  11/15/93
DL:  0 Upldr: BOB BENNETT

VACTRAC2.ZIP  155,984  11/15/93
DL:  0 Upldr: BOB BENNETT

---------------------------------------------------------------------------------------------------
Safety
---------------------------------------------------------------------------------------------------

File Name          Size    Date               Description

ACCOUNT.ZIP        18,897  01/11/95 | Arlington Fire Dept. Accountability
DL:  1 Upldr: BOB BENNETT | system

BKACHE56.ZIP      190,269  03/20/93 | Back Problems? Reference
DL:  0 Upldr: BOB BENNETT

CHLORINE.ZIP       830      07/12/93 | Warning on Class A kits from the
DL:  0 Upldr: BOB BENNETT | Chlorine Institute

RELIEF.EXE         166,428  11/25/93
DL:  0 Upldr: BOB BENNETT

SCBAWARN.ZIP       2,471      07/24/93 | SCBA Warnings
DL:  0 Upldr: BOB BENNETT

SUBZ-1.ZIP         30,625   04/20/93 | OSHA 1910 Part Z unit 1
DL:  1 Upldr: BOB BENNETT

SUBZ-10.ZIP        80,820   07/12/93 | OSHA 1910 Part Z unit 10
DL:  0 Upldr: BOB BENNETT

SUBZ-11.ZIP        45,232   07/12/93 | OSHA 1910 Part Z unit 11
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Macintosh Utility Programs

Safnet
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<td>file which builds my allfiles.zip</td>
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Appendix D  Computer Based Training

This appendix gives an example of a computer based training program developed by IST.

Preincident Preparation - Fire Flow

This program is based on material from "Fire Command Operations", published by the United States Fire Administration National Fire Academy. The program consists of two parts: teaching the background and material for fire flow calculations in preincident preparation, and then review the material using a series of questions. Both the background material and the questions are designed to progress from simple problems to more complex ones, thereby practicing basic methods while using advanced ones. Also included is an option to input local standards; this will be fully implemented in a later version of the program, where students will calculate fire flows and then estimate the number and type of hoses/engines-men required.

The program is installed by inserting the fist disk in a drive and running the setup.exe from windows. This will copy the files onto the hard disk and set up a windows icon which can be used to run the program.
The purpose of this module is to teach the use of the Needed Fire Flow (NFF) Formula, both as a quick reference tool and for use in preparing Prefire Plans. This formula is only an approximation and should only be used as a rough guideline.

When using the formula as a quick reference and estimator at an incident scene, the following is a recommended method that should allow the person using the formula under stress conditions to do as few calculations as possible:

**Needed Fire Flow (NFF) = Length x Width \( \frac{3}{3} \)**

This formula is for aggressive interior fire attack and provides a basis for estimating water during surround and drown operations.

Estimate the length and width measurements of the structure -- round estimate to the nearest ten.

Multiply the length by the width and divide by 3.

\[
\frac{30 \times 80}{3} = 800 \text{ gpm}
\]

This is the fire flow required for 100 percent involvement on one floor.
**Fire Flow - Basic Formula**

If there is less than 100 percent involvement on one floor, reduce the NFF proportionally.

\[ \text{gpm} = 800 \times 0.25 = 200 \text{ gpm} \]

If more than one floor is involved, increase the NFF accordingly.

\[ \text{gpm} = 200 \times 2 = 400 \text{ gpm} \]
It must be remembered that other variables affect fire flow requirements. These include:

- fire load
- concealed spaces
- construction
- configuration

Experience must play a role in the calculation regardless of the formula used.
Fire Flow- Prefire Planning Formula

The basic formula may be used as a field formula for quick incident scene fire flow calculations and it may be used during prefire planning sessions for determining estimates of required fire flow for structures being preplanned.

When using the formula during prefire planning sessions, there is considerably more time to do additional calculations. The following is a suggested method for determining the Needed Fire Flow (NFF) for a prefire plan.

\[ NFF = \left( \frac{L \times W}{3} = \text{Exposure Charge} \right) \times \% \text{Involvement} \]
Ire Flow - Prefire Planning Formula

Interior exposures -- add 25 percent of the 100 percent involvement figure for each floor above the fire floor for no more than five floors. In addition, up to one floor below the fire floor may be considered an exposure.

\[
NFF = 60 \times 80 + \frac{.5 \times 60 \times 80}{3} + \frac{.5 \times 60 \times 80}{3}
\]

\[
NFF = 1,600 + .5 \times 1,600
\]

\[
NFF = 1,600 + 800
\]

\[
NFF = 2,400 \text{ gpm}
\]
Fire Flow- Prefire Planning Formula

Exterior Exposures- add 25 percent of the 100 percent involvement figure for each side of the fire building that has an exposure facing it.

\[
NFF = 80 \times 120 + \frac{.5 \times 80 \times 120}{3} \\
NFF = 3,200 + .5 \times 3,200 \\
NFF = 3,200 + 1,600 \\
NFF = 4,800 \text{ gpm}
\]
Fire Flow - Prefire Planning Formula

Once on the scene at the fire building when there is actually a fire, estimate the percent involvement of the fire floor and multiply the calculated 100 percent fire flow by the decimal value to determine the flow at the lesser percentage of involvement.

\[ \text{NFF} = 1,600 \text{ gpm at 25% involvement of one floor} \]
\[ \text{NFF} = 2,400 \times 0.25 = 600 \text{ gpm} \]

It is important to note that the 100 percent involvement figure is purely theoretical, as well as the percentage values above fifty percent. The formula supplies:

- Approximate flows for aggressive interior fire attack.
- Estimates for small to moderate sized buildings.
- Estimates for large structures with limited involvement.

Interior fire attack normally is not made on structures with high percentages of involvement. Surround and drown tactics require large fire flows that are not addressed by this formula.
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<td>2</td>
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<td>2&quot;</td>
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<tr>
<td>2-1/2&quot;</td>
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<td>4</td>
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Resource Capability Matrix
If we assume that a single apartment is roughly rectangular and 40 feet long and 30 feet wide, and also that the apartment is only a single story (no exposures), what is the needed fire flow for aggressive interior attack with 25% involvement?

A. 200 gpm
B. 150 gpm
C. 100 gpm
D. 50 gpm
Now calculate fire flow for the same 30 x 40 apartment, but assume it to be on the second floor of a three story building, and with 100% involvement.

A 600 gpm
B 400 gpm
C 300 gpm
D 150 gpm
Calculate fire flow for the same 30 x 40 apartment, assuming it to be on the second floor of a three story building, and with 100% involvement, and having two external exposures.
Calculate fire flow for the same 30 x 40 apartment, assuming it to be on the ground floor of a four story building, and with 100% involvement, and having two external exposures.

- 3200 gpm
- 1500 gpm
- 1200 gpm
- 900 gpm
Calculate fire flow for the same 30 x 40 apartment, assuming it to be on the ground floor of a three story building, and with 100% involvement, and having three external exposures.
Calculate fire flow for a 30 x 80 building with five stories, assuming the fire to be on the fourth floor, with 100% involvement, and having two external exposures.

- 3200 gpm
- 3000 gpm
- 1800 gpm
- 1600 gpm
Calculate fire flow for a fire on the ground floor of a nine story, 30" x 80" building with two external exposures and 100% involvement.

1800 gpm
2200 gpm
2400 gpm
2500 gpm
Calculate fire flow for a fire on the third floor of a nine story 30' x 80' building, with two external exposures and 50% involvement.
### Results

<p>| | | | |</p>
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Appendix E  US Department of Labor (USDL)
Targeted Training Grants

This appendix contains a description of grants awarded to nonprofit organizations that address safety and health topics selected by the USDL and a letter from Helen Beall, OSHA Training Specialist.
TARGETED TRAINING GRANTS

Targeted Training is a national training program funded by the Occupational Safety and Health Administration (OSHA). Its purpose is to address OSHA identified unmet needs for safety and health training and education in the workplace.

The program has three areas of emphasis:

- Educating small businesses.
- Training workers and employers in new OSHA standards.
- Training in recognized high hazard areas.

Organizations awarded grants are expected to develop training and/or education programs that address a target named by OSHA, reach out to workers and employers for whom the program is appropriate, and provide the training and/or educational program to them.

OSHA has been awarding training and education grants since 1978. The following are examples of safety and health topics that have been funded through the Targeted Training Grant Program in recent years:

- Agricultural safety and health.
- Bloodborne diseases in the health care industry.
- Hazard communication for small businesses.
- Lead in construction.
- Safe electrical work practices.
- Safe work practices at logging sites.

Awards have been made to safety and health organizations, employer associations, labor organizations, and educational institutions.

An example of programs funded by Targeted Training Grants includes organizations providing training to small businesses in their geographic area on how to come into compliance with new OSHA standards. Other programs have included national unions developing educational materials designed specifically for their members, training trainers in the subject matter, and using the trainers to educate the membership across the country.

Any nonprofit organization that is not a unit of a state or local government is eligible to apply. State and local government institutions of higher education also are eligible to apply.

An average grant is under $100,000. Grantees must provide a minimum of 20 percent of total project costs. Grants are awarded for one year, with the potential for an extension of the project for up to one additional year. Applications are rated competitively based on factors such as the potential for an effective safety and health education program, prior experience with safety and health education, and prior experience administering grants.

For more information, contact the OSHA Office of Training and Education, 1555 Times Drive, Des Plaines, Illinois 60018, phone (708) 297-4810.

# # #
February 14, 1996

Dr. Jay Peter Kincaid  
University of Central Florida  
3280 Progress Drive  
Orlando, Florida 32826

Dear Dr. Kincaid:

This is in response to your recent telephone call requesting information about Occupational Safety and Health Administration (OSHA) training grants.

OSHA awards grants through its Targeted Training Program to nonprofit organizations to provide training and education to employers and workers on safety and health topics selected by OSHA. We recently funded grants addressing logging safety, fall protection in residential construction, assisting small businesses to establish safety and health programs, and injury prevention in medical facilities.

A factsheet that describes the program is enclosed. We will place your name on a mailing list to receive a grant application instruction package when grant funds become available.

We appreciate your interest in occupational safety and health education.

Sincerely,

Helen Beall  
Training Specialist

Enclosure