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OL8Z82 - SUMMERS LAILA

A fire fighting tool for homeowners and firefighters alike, this guide discusses both the properties of wildfires and ways to minimize damage. Authored by an environmental journalist with advanced degrees in forestry, it is a must-have book designed to help westerners understand the Wildfire Danger Zone.

Emergency managers and public safety professionals are more frequently being called on to address increasingly challenging and complex critical incidents, with a wider variety and intensity of hazards, threats, and community vulnerabilities. Much of the work that falls into the scope of emergency managers – prevention, preparedness, mitigation – is “blue sky planning” and can be contained and effectively managed within projects. This book provides a foundational project management methodology relevant to emergency management practice, and explains and demonstrates how project management can be applied in the context of emergency and public safety organizations. Special features include: an initial focus on risk assessment and identification of mitigation and response planning measures; a clear set of better practices, using a diverse set of examples relevant to today’s emergency environment, from projects to develop emergency response exercises to application development to hazard mitigation; a framework for managing projects at a strategic level and how to incorporate this into an organization’s program, and presents how to develop and manage an emergency program and project portfolio; and suitability as both a hands-on training guide for emergency management programs and a textbook for academic emergency management programs. This book is intended for emergency managers and public safety professionals who are responsible for developing emergency programs and plans, including training courses, job aids, computer applications and new technology, developing exercises, and for implementing these plans and components in response to an emergency event. This audience includes managers in emergency and first response functions such as fire protection, law enforcement and public safety, emergency medical services, public health and healthcare, sanitation, public works, business continuity managers, crisis managers, and all managers in emergency support functions as described by FEMA. This would include those who have responsibility for emergency management functions, even without the related title.

May 2002.

Providing crucial information to first responders since 1983, Firescope is proud to present the interactive 2017 Field Operations Guide ICS 420-1. All the information from the 2017 FOG ICS 420-1 is included in this eBook. Now you can easily find critical information on Resource Typing, Position Checklists, Organization Charts and examples of how to organize using the Incident Command System (ICS) when facing All-Hazard Incidents. New to this version of the 2017 FIRESCOPE Field Operations Guide is a section on Fire in the Wildland Urban Interface (WUI) with information on

Structure Triage, Structure Protection Guidelines, Actions and Tactics. Easily access other valuable information such as Wildland Fire Management Guiding Principles, Tactical Engagement, Levels of Engagement, Powerline Safety and a Structure Assessment Checklist. Also included is valuable information on these ICS topics: Common Responsibilities, Multi-Agency Coordination System (MACS), Area Command, Complex, Command, Unified Command, Planning Process, Operations, Planning, Logistics, Finance/Administration, Organizational Guides, Resource Types and Minimum Standards, Hazardous Materials, Multi-Casualty, Urban Search and Rescue, Terrorism/Weapons of Mass Destruction, Swiftwater/Flood Search and Rescue, High Rise Structure Fire Incident, Protective Action Guidelines, Firefighter Incident Safety and Accountability Guidelines, Glossary of Terms, Communications, California Agency Designators, and Operational Area Identifiers.

The second edition was to be written in order to keep both reader and student current in incident management. This was grounded in the fact that incident management systems are continually developing. These updates are needed to ensure the most recent and relevant information is provided to the reader. While the overall theme of the book will remain the same of the first edition, research and research-based case studies will be used to support the need for utilizing emergency incident management systems. Contemporary research in the use (and non-use) of an incident management system provides clear and convincing evidence of successes and failures in managing emergencies. This research provides areas where first responders have misunderstood the scope and use of an emergency incident management system and what the outcomes were. Contemporary and historical (research-based) case studies in the United States and around the globe have shown the consequences of not using emergency incident management systems, including some that led to increased suffering and death rates. Research-based case studies from major incidents will be used to show the detrimental effects of not using or misunderstanding these principles. One of the more interesting chapters in the new edition is what incident management is used around the world.

The Complete Fire Officer III and IV Training Solution! Chief officers need to know how to make the transition from company officer to chief officer. Chief Officer: Principles and Practice is designed to help make the transition from company officer to chief officer a smooth evolution. Covering the entire scope of Levels III and IV from the 2009 Edition of NFPA 1021, Standard for Fire Officer Professional Qualifications, Chief Officer combines current content with dynamic features and interactive technology to better support instructors and to help prepare future chief officers to become problem-solving leaders for their organizations. Chief Officer: Principles and Practice has a clear focus on instilling fire fighter safety throughout an organization’s culture. Reducing fire fighter injuries and deaths requires the dedicated efforts of every fire fighter, fire officer, and fire department. The entire fire community must work together to achieve one common goal: to en-

sure that everyone goes home. Chief officers therefore set the tone for safety in their organization, and this textbook embraces that philosophy. It is with this goal in mind that the 16 Firefighter Life Safety Initiatives, developed by the National Fallen Firefighters Foundation, are integrated throughout the text. The features in this textbook will help students take that extra step toward becoming outstanding chief officers. These features include:

- Scenario-Based Learning. You Are the Chief Officer and Chief Officer in Action are found in each chapter to encourage and foster critical thinking skills.
- Practical Tips for the Chief Officer. Chief Officer Tips and Voices of Experience essays are integrated into each chapter to provide helpful advice from experienced chief officers.
- Level IV Job Performance Requirements. Fire Officer Level IV content is highlighted to discern Level III JPRs from Level IV.
- Walk the Talk. Additional activities encourage students to take what they have learned in the chapter and apply it to their own department.

Incident Command presents a unique examination of the skills of the on-scene or incident commander who is in charge of an emergency or major incident.

This textbook is packaged with Navigate 2 Advantage Access which unlocks a complete eBook, Study Center, homework and Assessment Center, and a dashboard that reports actionable data. Experience Navigate 2 today at www.jblnavigate.com/2. Wildland Fire Fighter: Principles and Practice, Second Edition meets and exceeds the job performance requirements and objectives as outlined in the following National Fire Protection Association (NFPA) and National Wildland Coordinating Group (NWCG) standards:

- NFPA 1051, Standard for Wildland Firefighting Personnel Professional Qualifications, 2020 Edition (Chapters 4 and 5)
- NWCG S-190, Introduction to Wildland Fire Behavior, 2019 Edition
- NWCG S-130, Firefighter Training, 2008 Edition
- NWCG L-180, Human Factors in the Wildland Fire Service, 2014 Edition

From wildland fire service history, to safety, to water supply, to firing operations, this single manual covers everything an NFPA Wildland Fire Fighter I and Wildland Fire Fighter II (NWCG Fire Fighter Type 2 and 1) needs to know. In addition, the Second Edition was significantly updated and reorganized to better serve the Wildland Fire Fighter I and Wildland Fire Fighter II. The program now features two distinct sections. Section 1 includes six chapters, which set the foundation for Wildland Fire Fighter I knowledge and understanding. Section 2 comprises eight chapters, which encompass the higher-level competencies required for Wildland Fire Fighter II. This new organization will allow instructors the flexibility to teach their Wildland Fire Fighter I and II course(s) exactly the way they wish. The features in this text will help students take that extra step toward becoming outstanding wildland fire fighters. These features include:

- Refined Table of Contents. Now divided by level, the new table of contents addresses NFPA and NWCG requirements and objectives in an easy-to-follow manner.
- New Chapters. New chapters including The Wildland Fire Service, Wildland/Urban Interface Considerations, Tools and Equipment, Human Resources, and Radio Communications ensure a comprehensive understanding of history, safety, and operations.
- Scenario-Based Learning. You are the Wildland Fire Fighter and Wildland Fire Fighter in Action case scenarios are found in each chapter to encourage and foster critical-thinking skills.
- Practical Tips for Wildland Fire Fighters. The Listen Up! and Did You Know? features provide helpful advice and encouragement.
- Skill Drills. This feature provides written step-by-step explanations and visuals for important skills and procedures. This clear, concise format enhances student comprehension of complex procedures.
- After-Action Review Section. The end-of-chapter review includes detailed chapter summaries and key terms to reinforce important

principles.

- Updated photos and illustrations. New and improved photos and illustrations enhance learning with visuals of incidents and training simulations, as well as highlighting advances in

This glossary provides the wildland fire and fire use communities a single source document that covers wildland fire, prescribed fire, fire use and incident management terminology commonly used by the National Wildfire Coordinating Group (NWCG) and its Working Teams.

Discusses command and strategy issues in wildland/urban interface operations.

Covers these topics: regional, national, and global vision of forest fires: common problems and approaches, theory and models for strategic fire planning, economic analysis and modeling for fire mgmt., forest fires and sustainable forest mgmt., public policies and forest mgmt., hazardous fuels treatment, wildland fire use and fire suppression activities, examples of fire mgmt. plans and strategic fire resource allocation, and a round table on the role of international organizations in forest fire solutions. Representatives from international organizations with fire protection responsibilities in 12 countries presented and discussed their experiences on the same issues. Charts and tables.

Terrorism threats and increased school and workplace violence have always generated headlines, but in recent years, the response to these events has received heightened media scrutiny. Critical Incident Management: A Complete Resource Guide, Second Edition provides evidence-based, tested, and proven methodologies applicable to a host of scenarios that may be encountered in the public and private sector. Filled with tactical direction designed to prevent, contain, manage, and resolve emergencies and critical incidents efficiently and effectively, this volume explores: The phases of a critical incident response and tasks that must be implemented to stabilize the scene Leadership style and techniques required to manage a critical incident successfully The National Incident Management System (NIMS) and the Incident Command System (ICS) Guidelines for responding to hazardous materials and weapons of mass destruction incidents Critical incident stress management for responders Maintaining continuity of business and delivery of products or services in the face of a crisis Roles of high-level personnel in setting policy and direction for the response and recovery efforts Augmented by Seven Critical Tasks™ that have been the industry standard for emergency management and response, the book guides readers through every aspect of a critical incident: from taking initial scene command, to managing resources, to resolution, and finally to recovery and mitigation from the incident. The authors' company, BowMac Educational Services, Inc., presently conducts five courses certified by the Department of Homeland Security. These hands-on "Simulation Based" Courses will prepare your personnel to handle any unexpected scenario. For additional information contact: 585-624-9500 or johnmcall@bowmac.com.

Are you ready for the 2014 Wildland Fire Season? The 2014 season may be one of the worst on record. Prepare yourself now with the Wildland Fire Incident Management Guide. It is an essential tool for all firefighting personnel. Topics include: FIREFIGHTING SAFETY Risk Management Wildland Fire Safety Culture and Principles Clothing and Personal Protective Equipment Fatigue, Nutrition, and Hydration Driving Limitations Smoke Impairment of Roads: Assessment and Response Carbon Monoxide Poisoning Injury and Fatality Procedures Burn Injury Procedures Night Operations Firing Equipment Chain Saws Incident-Generated Hazmat Media Access Guidelines: General Policy and Guidelines Safety Responsibilities of Wildland Fire Supervisors OPERATIONAL GUIDES Initial Attack Duties of an Initial Attack Incident Commander Fire Suppression Strategies Initial Attack Safety Checklist Extended At-

attack Characteristics of an Extended Attack Incident Extended At-
 tack Safety Checklist Large Fire Management Teams Area Com-
 mand, Unified Command, and Transfer of Command Incident Com-
 mander Briefing Incident Commander's Checklist Urban Interface
 Wildland/Urban Interface "Watch Out" Situations Structure Triage
 Guidelines Structure Assessment Checklist and Structure Protec-
 tion Guidelines POSITION RESPONSIBILITIES Command and General
 Staff, Operations, Air Operations, Planning, Logistics, Finance
 and Administration, and Demobilization Organization Chart Posi-
 tion Checklists Planning Planning Process Factors to Consider
 When Locating and Laying Out an Incident Base or Camp REFER-
 ENCE Portable Pumps and Hydraulics Formula for Determining
 Pump Pressure Reminders for Using Portable Pumps and Hose
 Lays Drafting Guidelines Expected Output of Commonly Used
 Portable Pumps at Sea Level General Rules for Fireline Hydraulics
 Friction Loss by Hose Size and Type Foam-Foam Use, Foam Mix-
 ture Rates, Foam for Direct Attack, Foam for Indirect Attack,
 Foam for Mop Up, Foam for Exposure Protection, and Foam Safety
 Advantages and Disadvantages of Fireline Explosives Hazmat
 Checklist for Incident Base Management Use of Inmate Crews In-
 teragency Crew Qualifications and Equipment Standards Mini-
 mum Crew Standards for National Mobilization Engine and Water
 Tender Typing (Minimum Requirements) Common Additional
 Needs for Engines and Tenders Air Tankers Helicopters CLEAR
 TEXT GUIDES ICS Map Display Symbols Conversion Factors for
 Map Scale Formula for Area and Circumference of a Circle
 Acreage Determination Factors Conversion Factors Incident Com-
 mand System Forms Resource Status Card Distances and Formu-
 las for Estimating Fire Size What the Color and Column of Smoke
 May Mean Fire Suppression Interpretations from Flame Length
 Wildland Fire Risk and Complexity Assessment Indicators of Inci-
 dent Complexity

This cutting-edge book has been designed to be a roadmap to
 success for chief officers and aspiring chief officers. It is an insid-
 ers' guide, filled with indispensable advice and guidance provided
 by some of the most knowledgeable and wise chiefs in the fire
 service. Readers will find a wealth of vital information on essen-
 tial topics, along with the reasoning behind the recommenda-
 tions.

Chief officers need to know how to make the transition from com-
 pany officer to chief officer. Chief Officer: Principles and Practice
 is designed to help make the transition from company officer to
 chief officer a smooth evolution. Covering the entire scope of Lev-
 els III and IV from the 2014 Edition of NFPA 1021, Standard for
 Fire Officer Professional Qualifications, Chief Officer: Principles
 and Practice is your complete Fire Officer III & IV training solution

A textbook for Incident commanders, command staff, operations
 section chief, planning section chief, and base positions. This is
 the only book that clearly answers the question; what am I sup-
 pose to do now? Incident Commanders will find the secret of suc-
 cess and common problems to avoid. Great attention is paid to
 process management and control. Includes the special topics of
 adaptation of the Incident Command System for SAR, managing
 information systems and protocols, ground operations for aircraft,
 National Track Analysis Program interpretation, specialized re-
 source utilization and planning factors, high level legal implica-
 tions, fatigue, extensive appendices, and more. For anyone who
 has ever taken a SAR Management course, this is the next step.

In the second edition of Incident Management for the Street-S-
 mart Fire Officer, author Skip Coleman expands on the mindset
 and tactics necessary to manage the fireground with more con-
 trol and less chaos. Incident management system (IMS) is a tool
 that defines the role and responsibilities of each fire department
 member, allowing crew members to function quickly and efficient-

ly upon arrival at the fireground all the while meeting the comman-
 ders expectations. Regardless of the size or geographic location
 of fire department, an IMS is one of the most practical innova-
 tions available that yields measurable results. The days of chief
 officers pulling up to a fire and allowing the fire to run them are
 over. Incident management makes thinkers out of commanders.
 Active Shooter Response Training: Lone Wolf to Coordinated At-
 tack, Second Edition, provides expanded and updated training for
 police and security officers who must respond to an active shoot-
 er situation. This manual addresses all facets of preparation and
 response, from complex logistical organization to collective and
 individual tactics, as well as special units or special skills tasks.
 Based on time-tested military training doctrine, the program de-
 scribed here offers a template for agencies of all sizes to offer
 training that effectively utilizes officers' available time. Hy-
 derkhan and his expert contributors cover all aspects of the ac-
 tive shooter response (ASR) mission, from risk analysis to logisti-
 cal planning for mass casualty events. He also addresses medical
 care and evacuation, reunification procedures, and post-incident
 investigation. Active Shooter Response Training, Second Edition,
 provides the tools needed to prevent or mitigate tragedy in our re-
 ligious congregations, schools, and public places. The book in-
 cludes a voucher code for a 50% discount off of the companion
 online library of training videos This book is directed to law en-
 forcement agencies, private security teams, training organiza-
 tions, police leaders, and individual officers and trainers, in the
 US and globally. It also has potential as recommended reading in
 policing courses at the community college and university level.

The Wildland Fire Incident Management Field Guide is a revision
 of what used to be called the Fireline Handbook, PMS 410-1. This
 guide has been renamed because, over time, the original purpose
 of the Fireline Handbook had been replaced by the Incident Re-
 sponse Pocket Guide, PMS 461. As a result, this new guide is
 aimed at a different audience, and it was felt a new name was in
 order.

This ebook reproduces two important wildfire and incident-re-
 sponse documents: Incident Response Pocket Guide and Wildland
 Urban Interface Wildfire Mitigation Desk Reference Guide. Inci-
 dent Response Pocket Guide - This reference is intended to assist
 in reporting key information regarding incident conditions when
 first arriving on-scene. All agencies will have specific information
 requirements that may involve additional reports. The intent of
 this guide is to provide a wildland fire job aid and training refer-
 ence for operational personnel from Firefighter Type 2 through Di-
 vision Supervisor and initial attack/extended attack Incident Com-
 manders. It also has a secondary application for all-hazard inci-
 dent response. Operational Leadership * Communication Respon-
 sibilities * Leader's Intent * Human Factor Barriers to Situation
 Awareness * After Action Review * OPERATIONAL ENGAGEMENT *
 Risk Management * Planning for Medical Emergencies * Look Up,
 Down and Around * Look Up, Down and Around (continued) *
 Common Denominators of Fire Behavior on Tragedy Fires * Com-
 mon Tactical Hazards * LCES * Safety Zones * Downhill Checklist
 * Indicators of Incident Complexity * Wildland Urban Interface
 Firefighting * SPECIFIC HAZARDS * How to Properly Refuse Risk *
 Thunderstorm Safety * Hazard Tree Safety * Powerline Safety *
 Roadside Response Safety * Unexploded Ordnance Safety * Oil
 and Gas Site Safety * Last Resort Survival * ALL HAZARD RE-
 SPONSE * Vehicle Accident Operations * HazMat Incident Opera-
 tions * HazMat Isolation Distances * HazMat Classification for
 Fixed Facilities based on NFPA 704 * Local Disaster Response * All
 Hazard Incident Response * Structure Hazard Marking System *
 Missing Person Search Urgency * AVIATION * Aviation User Check-
 list * Aviation Watch Out Situations * Helicopter Passenger

Briefing and PPE * Flight Following * Helicopter Landing Area Selection * One-Way Helispot * Two-Way Helispot * Longline Mission * Helicopter Hand Signals * Paracargo Operations Safety * Weight Estimates * Aerial Retardant Safety * Directing Retardant and Bucket Drops * Working with Airtankers * Aircraft Mishap Response Actions * SAFECOM Reporting System * OTHER REFERENCES * Spot Weather Forecast * Energy Release Component (ERC) * Burning Index (BI) * Haines Index (HI) * Keetch-Byram Drought Index (KBDI) * Lightning Activity Level (LAL) * Weather Watch/Weather Warning * Wind Speed Ranges * Severe Fire Behavior Potential * Minimum Impact Suppression Tactics * Reporting Fire Chemical Introductions * Fire Cause Determination Checklist * Media Interviews * Phonetic Alphabet * EMERGENCY MEDICAL CARE GUIDELINES * Emergency Medical Care Guidelines * Patient Assessment * Specific Treatments * CPR * Heat-Related Injuries * Burn Injuries * Injury/Fatality Procedures * Medical Incident Report * Sizeup Report * Briefing Checklist * Standard Firefighting Orders * Wildland Urban Interface Wildfire Mitigation Desk Reference Guide - The effects of wildland fire on communities have become more intense, frequent, and far-reaching. Increased development in the wildland urban interface means higher wildfire risk and more suppression needs, costing billions every year. This book is designed to provide basic background information on relevant programs and terminology for those, whether community members or agency personnel, who are seeking to enhance their community's wildfire mitigation efforts. Mitigation happens at all levels - local, state, tribal, and federal. This guide defines terms and identifies resources that are useful in mitigation planning efforts for all lands. The four primary objectives of this reference guide are to: Provide a reference to assist with integrating wildland urban interface mitigation principles into national wildland fire training; Promote common wildfire mitigation language and culture; Establish an authoritative source for wildland urban interface mitigation information; and Provide consistent definitions for use by all media.

The National Fire Protection Association (NFPA) and the International Association of Fire Chiefs (IAFC) are pleased to present you with the third edition of Chief Officer: Principles and Practice. The Third Edition addresses both Fire Officer III and Fire Officer IV levels of the 2020 Edition of NFPA 1021: Standard for Fire Officer Professional Qualifications and is designed to help future chief officers as they transition from company officer and become problem-solving leaders for their organization. Good leadership is an essential element in the successful operational management of any organization. Today's chief officers must prepare themselves and the staff they lead to navigate powerful trends—including political, ethical, legal, and sociological—that are likely to shape the fire service, impacting department structures and roles in the community, and altering the demands placed not only on fire service leaders but also on the personnel they lead. The Third Edition features exceptional content to prepare today's fire service leaders to develop the leadership skills necessary to excel in their position and motivate their department members to become an efficient, effective, and safe response force. New to the Third Edition: A section on media relations programs that addresses communication methods, policy development, and crisis management A discussion of department risk management, including the importance of creating a risk management plan, taking an inventory of potential risks faced by department employees, and implementing control measures to correct deficiencies A section on preparing to deal with an active shooter or hostile event situation A discussion of the ways generational differences may influence a department member's workplace expectations and preferences Expanded coverage of diversity policies and practices and consideration of LGBTQ rights to reflect the current workforce Informa-

tion on long-range planning, including how to create a capital improvement plan and meet training needs The Third Edition features: A clear division of Fire Officer III and IV content After-Action Review sections that include detailed chapter summaries, key terms, and Chief Officer in Action case scenarios designed to reinforce chapter content New Deputy Chief and Fire Chief Activities that encourage students to take what they have learned about the Job Performance Requirements covered in the chapters and apply it to their own departments New case study continued from Fire Officer: Principles and Practice, Fourth Edition that addresses the progression of responsibility from Fire Officer I to Fire Officer IV

The Wildland Fire Incident Management Field Guide states, references, or supplements wildland fire incident management and operational standards established by the National Wildfire Coordinating Group (NWCG). The Wildland Fire Incident Management Field Guide is a revision of what used to be called the Fireline Handbook, PMS 410-1. This guide has been renamed because, over time, the original purpose of the Fireline Handbook had been replaced by the Incident Response Pocket Guide, PMS 461. As a result, this new guide is aimed at a different audience, and it was felt a new name was in order. CHAPTER 1 - FIREFIGHTING SAFETY * Risk Management * Tenets of a High Reliability Organization * Wildland Fire Safety Culture * Wildland Fire Safety Principles * Clothing and Personal Protective Equipment * Fatigue - Work and Rest * Nutrition and Hydration * Driving Limitations * Smoke Impairment of Roads: Assessment and Response * Carbon Monoxide Poisoning * Injury and Fatality Procedures * Serious Injury * Fatality * Burn Injury Procedures * Night Operations * Personnel Transportation * Firing Equipment * Chain Saws * Incident-Generated Hazmat * Media Access Guidelines * General Policy * Guidelines * Safety Responsibilities of Wildland Fire Supervisors * General Responsibilities * CHAPTER 2 - OPERATIONAL GUIDES * Initial Attack * Definition of Initial Attack * Characteristics of an Initial Attack Incident (Type 4 And Type 5 Incidents) * Example of Initial Attack Organization (Type 4 Incident) * Duties of an Initial Attack Incident Commander * Assessing Incident Progress * Updating Incident Status * Fire Suppression Strategies * Initial Attack Safety Checklist * Extended Attack * Definition of Extended Attack * Characteristics of an Extended Attack Incident * Example of an Extended Attack Organization * Change From an Initial Attack Incident to an Extended Attack Incident * Control or Transfer to Type 2 Incident * Extended Attack Safety Checklist * Large Fire Management Teams * Type 2 Organization * Type 1 Organization * Organization Chart for Type 1 and Type 2 Incidents * Area Command * Unified Command * Transfer of Command * Incident Commander Briefing * Incident Commander's Checklist * Agency Administrator(s)' Responsibility for the Transfer of Command and Release of Incident Management Teams * Transfer of Authority * Agency Administrator Briefing * Release of an Incident Management Team * Urban Interface * Wildland/Urban Interface "Watch Out" Situations * Identification of Reduced-Risk Structures and Communities * Structure Triage Guidelines * Structure Assessment Checklist (if Time Permits) * Structure Protection Guidelines * CHAPTER 3 - POSITION RESPONSIBILITIES * Command and General Staff * Organization Chart * Position Checklists * Operations * Organization Chart * Position Checklists * Air Operations * Position Checklists * Helispot Location and Construction * Principles of Retardant Application * Planning * Organization Chart * Position Checklists * Planning Process * Demobilization * Logistics * Organization Chart * Position Checklists * Logistics Guidelines * Factors to Consider When Locating and Laying Out an Incident Base or Camp * Finance/Administration * Organization Chart * Position Checklists * CHAPTER 4 - REFERENCE * Portable Pumps and Hy-

draulics * Formula for Determining Pump Pressure * Reminders for Using Portable Pumps and Hose Lays * Drafting Guidelines * Expected Output of Commonly Used Portable Pumps at Sea Level * General Rules for Fireline Hydraulics * Friction Loss by Hose Size and Type * Pump Pressures for 50-psi Nozzle Pressure * Pump Pressures for 50-psi Nozzle Pressure * Foam * Foam Use * Foam Mixture Rates * Foam for Direct Attack * Foam for Indirect Attack * Foam for Mop Up * Foam for Exposure Protection * Foam Safety * Use of Fireline Explosives * Advantages * Disadvantages * Hazmat Checklist for Incident Base Management * Use of Inmate Crews