Chapter 10 Developing a Response to Wildland Fires

³4 **Policy**

1

2

- ⁵ Fire, as a natural process, will be integrated into land and resource management
- ⁶ plans and activities on a landscape scale, and across agency boundaries.
- 7 Response to wildland fires is based on ecological, social and legal consequences
- ⁸ of the fire. The circumstances under which a fire occurs, the likely
- ⁹ consequences on firefighter and public safety and welfare, natural and cultural
- ¹⁰ resources, and values to be protected, dictate the appropriate response to fire.

11

12 Annual Operating Plan

13

- 14 Developing an Annual Operating Plan
- ¹⁵ Units with dispatching responsibility, in conjunction with their cooperators, will

16 ensure that Annual Operating Plans (AOPs) are developed, updated, and

- 17 approved annually. The procedures outlined in the plans must be implemented
- ¹⁸ and adhered to during dispatching operations.
- 19
- 20 There are variations in the required elements for AOPs due to many factors
- 21 (activity level/complexities, interagency coordination, all-risk incidents, and
- 22 HazMat). Additional guidance can be obtained by reviewing local unit fire
- 23 management reference guides. The elements found in Appendix DD Annual
- ²⁴ Operating Plan Elements shall be identified in each dispatch center's AOPs.

25

26 Appropriate Management Response to Wildland Fires

27 28 **Definition**

- ²⁹ The Appropriate Management Response (AMR) is any specific action suitable
- ³⁰ to meet Fire Management Unit (FMU) objectives. Typically, the AMR ranges
- across a spectrum of tactical options (from monitoring to intensive management
- actions). The AMR is developed by using FMU strategies and objectives
- ³³ identified in the Fire Management Plan.

34

35 Developing Appropriate Management Response Evaluation Criteria

- ³⁶ Risks to firefighters and public health and safety
- ³⁷ Land and Resource Management Objectives
- 38 Weather
- ³⁹ Fuel conditions
- Threats and values to be protected
- 41 Cost efficiencies
- 42
- 43
- 44

Release Date: January 2006

Appropriate Management Response Options

2

3 Monitoring from a distance

Fire situations where inactive fire behavior and low threats require only periodic
 monitoring from a nearby location or aircraft.

б

7 Monitoring on-site

Fire situations that require the physical placement of monitors on the fire site totrack the fire's spread, intensity, and/or characteristics.

10

11 Confinement

12 Actions taken when fires are not likely to have resource benefit and an analysis

13 of strategic alternatives indicates that threats from the fire do not require costly

¹⁴ deployment of large numbers of suppression resources for mitigation or

15 suppression. Typically these fires will have little to no on-the-ground activity

and fire movement remains confined within a pre-determined area bound by

17 natural barriers or fuel changes.

18

19 Monitoring plus contingency actions

20 Monitoring is carried out on fires managed for resource benefits but

- 21 circumstances necessitate preparation of contingency actions to satisfy external
- ²² influences and ensure adequate preparation for possible undesirable
- 23 developments.

24

25 Monitoring plus mitigation actions

²⁶ Actions on fires managed for resource benefits that either pose real, but not

²⁷ necessarily immediate, threats or do not have a totally naturally defensible

28 boundary. These fires are monitored but operational actions are developed and

²⁹ implemented to delay, direct, or check fire spread, or to contain the fire to a

³⁰ defined area, and/or to ensure public safety (through signing, information, and

31 trail/area closures).

32

33 Initial Attack

³⁴ A planned response to a wildfire given the wildfire's potential fire behavior.

³⁵ The objective of initial attack is to stop the spread of the fire and put it out at

³⁶ least cost. This is an action where an initial response is taken to suppress

³⁷ wildfires consistent with firefighter and public safety and values to be protected.

38

39 Wildfire suppression with multiple strategies

⁴⁰ This action categorizes wildfires where a combination of tactics such as direct

attack, indirect attack, and confinement by natural barriers are utilized to

42 accomplish protection objectives as directed in a Wildland Fire Situation

- 43 Analysis (WFSA).
- 44

45

10-2

Release Date: January 2006

1 Control and extinguishment

² These actions are taken on a wildfire when the selected WFSA alternative

³ indicates a control strategy. Sufficient resources are assigned to achieve control

⁴ of the fire with a minimum of acres burned.

6 Responding to Wildland Fires

7

8 Report of Wildland Fire

9 When a wildland fire is reported it is evaluated according to the procedures10 outlined in the Annual Operating Plan.

11

¹² If no approved Fire Management Plan (FMP) exists or the fire is in an area

13 designated for suppression action, initial response forces are dispatched.

14

15 If the fire is in an area where an approved FMP exists, the fires may be managed

16 to benefit resource values in accordance with the preplanned conditions and

¹⁷ objectives outlined in a Wildland Fire Implementation Plan (WFIP).

18

¹⁹ A Wildland Fire Implementation Plan (WFIP) will be initiated for all wildland

20 fire use events. For an estimated 90+% of all wildland fires, information needed

²¹ for WFIP Stage I decision analysis is contained in the FMP. Only the most

22 complex fires being managed for resource benefits (Fire Use Fires) will require

²³ completion of all parts of a WFIP. The full WFIP consists of three distinct

24 stages (Stage I, Stage II and Stage III). When wildland fires occur, pre-planned

²⁵ descriptions in the FMP (in combination with the Fire Situation) assist Stage I

26 decisions.

27

²⁸ Progressive development of these stages will occur for wildland fires managed

²⁹ for resource benefits or where initial attack is not the selected response.

³⁰ Objectives, fire location, cause, conditions of fuel continuity, current fire

activity, fire location, predicted weather and fire behavior conditions, and risk

³² assessment results will indicate when various WFIP Stages must be completed.

³³ Resource benefits become more important as strategic decision factors,

additional planning and documentation requirements (additional WFIP Stages)
 are involved.

36

37 Initial Actions

³⁸ The actions taken by the first resources to arrive at a wildland fires. The

³⁹ objective is to safely and efficiently manage fires in conformance with existing

⁴⁰ policy and procedures consistent with an approved Fire Management Plan

41 (FMP).

42

⁴³ The information in this section is documented in the "NWCG - Incident

⁴⁴ *Response Pocket Guide*" (*IRPG*) (*NFES#1077*), and "*NWCG Fireline*

45 Handbook (NFES #0065)".

Release Date: January 2006

1 Organization and Qualifications

² Resources taking initial attack action on a fire must be qualified and have a

³ designated qualified Initial Attack Incident Commander.

5 Fire Size-up

⁶ At the earliest opportunity after arrival on an incident, the initial attack incident

- commander will relay the information from Appendix I to the agency dispatch,
- ⁸ and continue to keep the dispatcher informed of any significant changes and
- 9 progress on the fire. For Wildland Fire Use, a Stage I- Wildland Fire
- ¹⁰ Implementation Plan (WFIP) must be completed.
- FS A complexity analysis must be completed and documented on all fires.
 This can be found in Appendix M.
- 13

4

14 Fire Cause Determination

- The Incident Commander is responsible for assisting in the determination of the cause of the fire. It is recommended that all initial attack incident commanders complete basic training in wildland fire cause determination.
- **BLM** All initial attack incident commanders must have completed basic
- 19 training in wildland fire cause determination.

20

²¹ A checklist for Fire Cause Determination can be found in the *IRPG*.

22

23 **Operational Briefings**

24 All personnel arriving at an incident must receive a briefing from the Incident

- ²⁵ Commander (IC), or delegate, prior to initiating any actions on the incident.
- ²⁶ Incoming ICs must place a priority on providing briefings to resources already
- 27 on the scene. The principles of LCES must be implemented prior to the
- ²⁸ initiation of any actions.

29

- ³⁰ If firefighters cannot be briefed prior to departure from base, the receiving
- ³¹ dispatch office will provide a briefing to the supervisor by radio. In all cases,
- ³² firefighters will be briefed prior to starting work. The IC or their delegate will
- 33 document all Operational Briefings.

34

- ³⁵ The Briefing Checklist found in Appendix F and in the *IRPG*, contains the
- ³⁶ minimum items required to brief all incoming crews, personnel, or resources.
- ³⁷ Units are encouraged to expand the minimum briefing, as appropriate, to ensure
- ³⁸ that safety and efficiency are addressed.

39

40 Spot Weather Forecast

- 41 Spot weather forecasts must be requested for fires that exhibit extreme fire
- ⁴² behavior, exceed initial attack, or are located in areas where Fire Weather Watch
- ⁴³ and Red Flag Warnings have been issued.

44

45 Spot weather forecasts may be requested at any time by using Appendix K.
 10-4 Release Date: January 2006

1 Strategy & Tactics

2

3 Determining Strategy and Tactics

⁴ Determining appropriate initial attack strategies and tactics must be based on

5 appropriate management response while providing for firefighter and public

⁶ safety. Other factors to consider are: suppression objectives, values at risk,

7 current and predicated fire behavior, weather conditions, available resources and

8 their condition.

9

10 Application of Risk Management

11 Identification and mitigation of risk must be considered in all strategic and

12 tactical planning. Use of the Risk Management Process is mandatory. Tactical

13 assignments for all resources will not be initiated or continued without strict

¹⁴ adherence to the Risk Management Process, incorporating the 10 Standard Fire

15 Orders, 18 Watch Out Situations, and principles of LCES. Reevaluation of the

¹⁶ Risk Management/LCES process is essential.

17

Fire Suppression Interpretations from Flame Length				
Flame	Interpretations			
Length	*			
Less	Fires can generally be attacked at the head or flanks by			
than 4'	firefighters using hand tools. Handline should hold fire.			
4' to 8'	Fires are too intense for direct attack on the head with hand tools. Handline cannot be relied on to hold the fire. Bulldozers, engines, and retardant drops can be effective.			
8' to 11'	Fires may present serious control problems: torching, crowning, and spotting. Control efforts at the head will probably be ineffective.			
Over 11'	Crowning, spotting, and major fire runs are probable. Control efforts at the head of the fire are ineffective.			

18

¹⁹ For additional information on strategic and tactical guidelines and principles, see

20 the NWCG Fireline Handbook 3 (PMS 410-1, NFES 0065), Chapter 1,

21 Firefighter Safety and Chapter 2, Initial Attack, and the Incident Response

22 *Pocket Guide (PMS-461, NFES 1077).*

23

24 Escaped Initial Attack

- ²⁵ A fire has escaped initial attack when:
- The fire has not been contained by the initial attack resources dispatched to
 the fire and there is no estimate of containment or control and;
- ²⁸ The fire will not have been contained within the initial attack management
- ²⁹ objectives established for that zone or area.
- 30

Release Date: January 2006

CHAPTER 10

1 Organization

² When complexity levels exceed initial attack capabilities, the appropriate

- ³ Incident Command System (ICS) positions should be added commensurate with
- ⁴ the complexity of the incident. The Incident Complexity Analysis and the
- 5 Wildland Fire Situation Analysis (WFSA) assist the manager in determining the
- ⁶ appropriate management structure to provide for safe and efficient fire
- 7 suppression operations.

8

A unified command structure will be a consideration in all multi-jurisdiction
 incidents.

10 11

12 Incident Complexity Analysis

¹³ An Incident Complexity Analysis will be used as a guide for ICs, fire managers,

¹⁴ and Agency Administrators to evaluate emerging fires in order to determine the

15 level of management organization required to meet agency objectives. This will

¹⁶ assist in identifying resource, safety, and strategic issues that will require

- 17 mitigation. There are two types of Incident Complexity Analysis available:
- For Type 1and 2 incidents use Appendix L.

¹⁹ • For Type 3, 4 and 5 Incidents use Appendix M.

20

21 Assumptions for Developing a Complexity Analysis

- As an incident becomes more complex, the need for an incident
- ²³ management team or organization increases.
- To facilitate assembling an efficient and effective organization, key
 managers should be involved during the early stages of complexity
- analysis.

The analysis is not a cure-all for the decision process; local fire history, current fire conditions, and management requirements must be considered.

29

30 Wildland Fire Situation Analysis (WFSA)

- ³¹ The Wildland Fire Situation Analysis process is used to determine and
- 32 document the suppression strategy from the full range of responses available for
- ³³ suppression operations. Suppression strategies are designed to meet the policy
- ³⁴ objectives of suppression.

35

- ³⁶ The WFSA is a decision making process in which the Agency Administrator or
- ³⁷ representative describes the situation, compares multiple strategic wildland fire
- ³⁸ management alternatives, evaluates the expected effects of the alternatives,
- ³⁹ establishes objectives and constraints for the management of the fire, selects the
- ⁴⁰ preferred alternative, and documents the decision. The format and level of detail
- ⁴¹ required depends on the specific incident and its complexity. The key is to
- 42 document the decision made. A WFSA and Delegation of Authority will be
- ⁴³ completed whenever a wildfire escapes initial attack.
- 44

Release Date: January 2006

DEVELOPING A RESPONSE TO WILDLAND FIRES

¹ The Agency Administrator or their representative, along with the Fire

² Management Officer (FMO) or Incident Commander will prepare the WFSA.

- ³ The format and level of detail required depends on the specific incident and its
- ⁴ complexity. For signatory authority and cost limits see the chart below. An
- 5 electronic copy of the WFSA can be found at http://www.fs.fed.us/fire/wfsa/. A

⁶ description of the WFSA Elements with guidance for the completion can be

7 found in Appendix EE.

8

- ⁹ Funding approval levels for multiple jurisdictional incidents are determined
- ¹⁰ based on each agency's funding commitment and not upon the total funding.

11 12

Signature authorities for WFSA are as follows:

	BIA	BLM	FWS	NPS	FS
Local Approval Level	\$2,000,000 Agency Supervisor	\$2,000,000 Field/District Manager	\$2,000,000 Refuge Manager/ Project Leader	\$2,000,000 Park Superintendent	\$2,000,000 District Ranger \$2,000,000- 10,000,000 Forest Supervisor
Regional/ State Certification Level	\$2,000,000 - \$5,000,000 Regional Director	\$2,000,000 - \$5,000,000 State Director	\$2,000,000 - \$5,000,000 Regional Director	\$2,000,000- \$5,000,000 Regional Director	\$10,000,000- \$50,000,000 Regional Forester
National Certification Level	>\$5,000,000 Director	>\$5,000,000 Director	>\$5,000,000 Director	>\$5,000,000 Director	>\$50,000,000 Chief

13

14 Wildland/Urban Interface Firefighting

15

16 Introduction

- 17 A wildland/urban interface exists where community-defined values, structures,
- 18 watersheds, roads and highways, power and gas lines, or other community
- ¹⁹ resources intermingle with wildland fuels, and may be threatened by wildland
- ²⁰ fires. Wildland fires in these areas are often multi-jurisdictional and multi-
- ²¹ agency. This complexity combined with wildland fire, public safety, increased
- ²² media attention, political pressures, and other factors, may combine to
- 23 overwhelm a normal size-up and decision-making process. The potential exists
- ²⁴ in areas of wildland/urban interface for extremely dangerous and complex fire
- 25 situations.

26

27 Policy

- ²⁸ The operational roles of the agencies in the wildland/urban interface are
- 29 wildland firefighting, hazardous fuels reduction, cooperative prevention and
- ³⁰ education, and technical assistance. Structural fire suppression is the
- responsibility of tribal, state, or local governments. Federal agencies may assist
- 32 with exterior structural protection activities under formal Fire Protection

Release Date: January 2006

Agreements that specify the mutual responsibilities of the partners, including

² funding.

3

4 Protection Agreements and Planning

5 Managers must incorporate wildland/urban interface considerations into all

- ⁶ agreements, operating plans, and land and fire management plans, to ensure that
- 7 all interface areas are covered, and state and local responsibilities are
- ⁸ apportioned appropriately.

9

10 Emergency Non-Wildland Fire Response

11 Authorized funding under the wildland fire preparedness and suppression

- 12 activities includes funding for wildland fire related activities. Funding is not
- provided to prepare for, or respond, to emergency non-wildland fire response
- 14 activities such as structure fires, vehicle fires, dump fires, hazardous materials
- ¹⁵ releases, and emergency medical responses.

16

17 Management Controls to Mitigate Exposure

18 Agency policy states that PPE devices will be used only when equipment

guards, engineering controls, or management control does not adequately protectemployees. To meet this requirement:

- Managers and supervisors will not knowingly place wildland firefighters in positions where exposure to toxic gases or chemicals would require the use
- ²³ of self-contained breathing apparatus.
- Managers will not sign cooperative fire protection agreements that would commit wildland firefighters to situations where exposure to toxic gases or
- chemicals would require the use of self-contained breathing apparatus.
- Managers will avoid giving the appearance that their wildland fire
 suppression resources are trained and equipped to perform structure,
- vehicle, and dump fire suppression, to respond to hazardous materials

³⁰ releases, or to perform emergency medical response.

31

32 Structure Fires, Vehicle Fires, and Landfill Fires

- 33 Structure, vehicle, and dump fire suppression is not a functional responsibility of
- ³⁴ wildland fire suppression resources. These fires have the potential to emit high
- ³⁵ levels of toxic gases. Firefighters will not be dispatched to structure, vehicle, or
- ³⁶ dump fires unless there is a significant threat to lands and resources that are
- ³⁷ under agency protection, including by protection agreement. Firefighters will
- ³⁸ not take direct suppression action on structure, vehicle, or dump fires. This
- ³⁹ policy will be reflected in suppression response plans.

40

- ⁴¹ Should firefighters encounter structure, vehicle, or dump fires during the
- 42 performance of their normal wildland fire suppression duties, firefighting efforts
- ⁴³ will be limited to areas where the fire has spread onto agency protected lands.
- 44 Structure protection will be limited to exterior efforts, and only when such

Release Date: January 2006

- 1 actions can be accomplished safely and in accordance with established wildland
- ² fire operations standards.
- **FS FSM-5137 Structure Fires**
- 4 Structure fire protection activities include suppression of wildfires that are 5 threatening improvements. Exterior structure protection measures include 6 actions such as foam or water application to exterior surfaces of buildings 7 and surrounding fuels, fuel removal, and burning out around buildings.
- FS FSM-5137.02 Objective for Structure Fire Protection. The Forest
- Service's primary responsibility is to suppress wildfire before it reaches
- 10 structures. The Forest Service may assist state and local fire departments
- in exterior structure fire protection when requested under terms of an
- 12 approved cooperative agreement.
- FS FSM-5137.03 Policy for Structure Fire Suppression. Structure
 fire suppression, which includes exterior and interior actions on burning
 structures, is the responsibility of state, tribal, or local fire departments.
- **FS** Forest Service officials shall avoid giving the appearance that the agency is prepared to serve as a structure fire suppression organization.
- **FS** Forest Service employees shall limit fire suppression actions to exterior structure protection measures as described in Section 5137.
- ²⁰ FS FSM-5137.03,2 Structure Fire Protection and Suppression for
- 21 Forest Service Facilities. At those Forest Service administrative sites,
- 22 outside the jurisdiction of state and local fire departments, limit fire
- *protection measures to prevention, use of fire extinguishers on incipient*
- stage fires (FSH 6709.11, Sec. 6-4c), safe evacuation of personnel,
- 25 containment by exterior attack, and protection of exposed improvements.
- FS At Forest Service administrative sites located within the jurisdiction
 of state and local structural fire departments, structure fire suppression
 responsibility must be coordinated with state and local fire departments.
- 29 FS FSM-5137.03,3 Vehicle and Dump Fires
- 30 **FS** Do not undertake direct attack on vehicle or dump fires on National
- 31 Forest System lands unless such action is absolutely necessary to protect
- *life or prevent the spread of fire to the wildlands.*
- *FS* For additional fire service and homeowner information regarding
- 34 wildland/urban fire refer to http://firewise.org on the Internet.
- **NPS Structural Fire (including Vehicle Fires) Response Requirements.**
- 36 Structural fire suppression is a functional responsibility in many NPS
- *units.* Any structural fire response shall only be by personnel who have
- received the required training and are properly equipped. Vehicle fires
- contain a high level of toxic emissions and must be treated with the same
- 40 care that structural fires are treated. Firefighters must be in full structural
- 41 fire personal protective clothing including self-contained breathing
- 42 apparatus. Situations exist during the incipient phase of a vehicle fire
- 43 where the fire can be quickly suppressed with the discharge of a handheld
- 44 *fire extinguisher. Discharging a handheld fire extinguisher during this*

Release Date: January 2006

CHADTED	10	
CHAPIER	10	

1

phase of the fire will normally be considered an appropriate action. If the

2 fire has gone beyond the incipient stage, employees are to protect the

³ scene and request the appropriate suppression resources. In order to

- 4 protect the health and safety of National Park Service personnel, no
- 5 *employee shall be directed, dispatched, (including self-dispatching) to the*

6 suppression of structural fires, including vehicle fires, unless they are

- provided with the required personal protective equipment, firefighting
- 8 equipment and training. All employees must meet or exceed the standards
- and regulations identified in Director's Order and Reference Manual #58,
 Structural Fire.
- NPS Training Requirements for Firefighters Responding to Structural
 Fires (including Vehicle Fires). All wildland firefighters who respond to
 structural fires will meet the training requirements identified in Director's
- 14 Order and Reference Manual #58, Structural Fire and will be qualified at
- 15 *least at the Structural Firefighter level.*
- NPS Medical Examination Requirements for Firefighters Responding to Structure Fires (including Vehicle Fires). All wildland firefighters
- who respond to structural fires will meet the medical requirements
- ¹⁹ *identified in Director's Order and Reference Manual #58, Structural Fire.*
- 20 *Medical requirements include respiratory testing and some other*
- ²¹ components not included in the wildland fire medical examination.
- 22 NPS Physical Fitness for Wildland Firefighters Responding to
- 23 Structure Fires (including Vehicle Fires). The physical fitness
- requirements as the same as for wildland fire arduous duty.
- 25

26 Hazardous Materials

- 27 Wildland firefighters have the potential to be exposed to hazardous materials
- ²⁸ releases while performing their jobs. Hazardous materials or waste may be
- ²⁹ found on public lands in a variety of forms (e.g. clandestine drug lab waste,
- ³⁰ mining waste, illegal dumping, and transportation accidents).

31

- ³² In order to meet 29 CFR 1910.120, and to ensure familiarity with hazardous
- 33 materials releases, all wildland firefighters will complete a one-time, two-hour
- 34 First Responder Awareness training course and an annual refresher course
- 35 thereafter (First Responders are individuals who are likely to witness or discover
- ³⁶ a hazardous substance release, and who have been trained to initiate an
- ³⁷ emergency response sequence by notifying proper authorities of the release).
- 38 Awareness Class module 1703-07/11 is available from the National Training
- ³⁹ Center and may be taught in the field office by the Hazardous Materials
- 40 Coordinator.

10-10

41

42

Release Date: January 2006

- ¹ Firefighters who discover any unauthorized waste dump or spill site that
- contains indicators of potential hazardous substances should take the following
 precautions:
- Follow the procedures in the *Incident Response Pocket Guide*.
- 5 Treat each site as if it contains harmful materials.
- Do not handle, move, or open any container, breathe vapors, or make
 contact with the material.
- ⁸ Move a safe distance upwind from the site.
- Contact appropriate personnel. Generally, this is the Hazardous Materials
- ¹⁰ Coordinator for the local office.
- 11 FS FSM-5135.2 Hazardous Materials
- 12 Limit actions of Forest Service personnel on incidents involving hazardous
- 13 material to those emergency measures necessary for the immediate
- 14 protection of themselves and the public. If the material is a health and
- safety hazard requiring special measures for control and abatement,
- ¹⁶ promptly notify the appropriate public safety agencies. Provide training in
- 17 hazardous materials recognition and avoidance to employees whose
- 18 exposure to such materials is likely (FSM 2160).
- 19

20 Emergency Medical Response

- 21 Medical emergency response is not a functional responsibility of wildland fire
- ²² suppression resources. Wildland firefighters are not trained and equipped to
- ²³ perform emergency medical response duties, and should not be part of a
- ²⁴ preplanned response that requires these duties. When wildland firefighters
- 25 encounter emergency medical response situations, their efforts should be limited
- to immediate care (e.g. first aid, first responder) actions that they are trained and qualified to perform.
- **NPS Emergency Medical Response Requirements.** NPS employees who
- *provide emergency medical services will adhere to the requirements*
- 30 contained in Director's Order and Reference Manual #51, Emergency
- 31 *Medical Services, once these directives receive final approval.*
- 32

33 Wildland/Urban Interface Watch Outs

- ³⁴ Checklists are provided in the *Incident Response Pocket Guide* for safe and
- ³⁵ efficient responses and operations. The primary considerations are firefighter
- ³⁶ safety and public safety. The Appendices that address interface situations can
- ³⁷ be found in the back of this book.
- Structure Triage: Appendix O.
- ³⁹ Structure Go/No-Go Reference: Appendix P.
- 40

41 Roadside Response

- ⁴² Positioning of vehicles and employee awareness is paramount when responding
- ⁴³ to incidents in close proximity to roadways. Refer to Appendix J which
- ⁴⁴ highlights tactical considerations for roadway responses.

Release Date: January 2006