

Interagency Standards for Fire and Fire Aviation Operations

Department of the Interior
Bureau of Land Management
National Park Service
U.S. Fish and Wildlife Service

Department of Agriculture
Forest Service

2012



January 2012
NFES 2724

Interagency Standards for Fire and Fire Aviation Operations

January 2012
NFES 2724

Produced by the Federal Fire and Aviation Task Group, National Interagency Fire Center, Boise, ID.

This document is posted at http://www.nifc.gov/policies/pol_intgncy_guides.html

Published copies of this document may be ordered from the National Interagency Fire Center, Great Basin Cache Supply Office, Boise, Idaho 83705-5354. Consult the current *NWCG National Fire Equipment System Catalog Part 2: Publications* for current prices and ordering procedures posted at <http://www.nwcg.gov/pms/pubs/pubs.htm>

Release Date: January 2012

Chapter-01	Federal Wildland Fire Management Policy Overview
Chapter-02	BLM Program Organization and Responsibilities
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NATIONAL INTERAGENCY FIRE CENTER

3833 S. Development Avenue
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January 1, 2012

To: Agency Personnel

From: Fire and Aviation Directors;
Bureau of Land Management
Forest Service
U.S. Fish and Wildlife Service
National Park Service

Subject: *Interagency Standards for Fire and Fire Aviation Operations*

In 2004, the Federal Fire and Aviation Leadership Council chartered the Federal Fire and Aviation Task Group (FFATG) to annually revise, publish and distribute the federal *Interagency Standards for Fire and Fire Aviation Operations*, and issue errata to this document.

The *Interagency Standards for Fire and Fire Aviation Operations*, states, references, or supplements policy for Bureau of Land Management, Forest Service, Fish and Wildlife Service, and National Park Service fire and fire aviation program management.

Employees engaged in fire suppression and fire management activities will comply with all interagency and agency-specific health, safety, and fire management policy documents.

For the Bureau of Land Management this document is supplemental policy.

For the USDA Forest Service this document is referenced in *Forest Service Manual 5108*.

For the U.S. Fish and Wildlife Service this document is supplemental policy.

For the National Park Service this document is supplemental policy, in addition to *Reference Manual 18*.

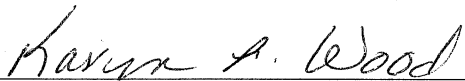
Release Date: January 2012

This document addresses specific action items that are contained in the *Guidance for Implementation of Federal Wildland Fire Management Policy* (February 13, 2009).

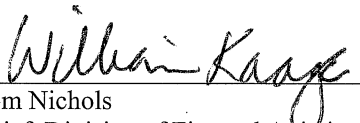
The contents of this book are not to be modified. Supplemental agency specific direction of a more restrictive nature may be issued separately.

Suggestions for modification of this publication should be sent to your agency representatives listed on this page.


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Release Date: January 2012

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Chapter 01**Federal Wildland Fire Management Policy Overview**

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Scope

The *Interagency Standards for Fire and Fire Aviation Operations* states, references, or supplements policy for Bureau of Land Management, Forest Service, U.S Fish and Wildlife Service and National Park Service fire and fire aviation program management. Original source policy is stated or referenced throughout this handbook. This handbook attempts to quote verbatim, rather than to paraphrase policy that is stated elsewhere. It also attempts to limit duplication of source policy when a reference will suffice. *Interagency Standards for Fire and Fire Aviation Operations* is intended to comply with and support the *Review and Update of the 1995 Federal Wildland Fire Management Policy (January 2001)* and the *Guidance for Implementation of Federal Wildland Fire Management Policy (February 13, 2009)* and other existing federal policy.

Purpose

The *Interagency Standards for Fire and Fire Aviation Operations* provides fire and fire aviation program management direction for Bureau of Land Management, Forest Service, U.S. Fish and Wildlife Service and National Park Service managers. Employees engaged in fire management activities will continue to comply with all agency-specific health and safety policy. Other references, such as the *National Wildfire Coordinating Group (NWCG) Incident Response Pocket Guide (PMS 461, NFES 1077)* and the *NWCG Fireline Handbook (PMS 410-1, NFES 0065)* provide operational guidance.

Review and Update of the 1995 Federal Wildland Fire Management Policy (January 2001)

The *Review and Update of the 1995 Federal Wildland Fire Management Policy (January 2001)* is comprised of the following guiding principles and discrete policies. As a whole these principles and policy statements guide the philosophy, direction, and implementation of fire management planning, activities, and projects on federal lands.

Guiding Principles of the Federal Wildland Fire Management Policy

1. Firefighter and public safety is the first priority in every fire management activity.
2. The role of wildland fire as an essential ecological process and natural change agent will be incorporated into the planning process. Federal agency land and resource management plans set the objectives for the use and desired future condition of the various public lands.

- 1 **3.** Fire Management Plans (FMPs), programs, and activities support Land and
2 Resource Management Plans and their implementation.
- 3 **4.** Sound risk management is a foundation for all fire management activities.
4 Risks and uncertainties relating to fire management activities must be
5 understood, analyzed, communicated, and managed as they relate to the cost
6 of either doing or not doing an activity. Net gains to the public benefit will
7 be an important component of decisions.
- 8 **5.** Fire management programs and activities are economically viable, based
9 upon values to be protected, costs, and land and resource management
10 objectives. Federal agency administrators are adjusting and re-organizing
11 programs to reduce costs and increase efficiencies. As part of this process,
12 investments in fire management activities must be evaluated against other
13 agency programs in order to effectively accomplish the overall mission, set
14 short and long term priorities, and clarify management accountability.
- 15 **6.** FMPs and activities are based upon the best available science. Knowledge
16 and experience are developed among all wildland fire management
17 agencies. An active fire research program combined with interagency
18 collaboration provides the means to make these tools available to all fire
19 managers.
- 20 **7.** FMPs and activities incorporate public health and environmental quality
21 considerations.
- 22 **8.** Federal, state, tribal, local, interagency, and international coordination and
23 cooperation are essential. Increasing costs and smaller work forces require
24 that public agencies pool their human resources to successfully deal with
25 the ever-increasing and more complex fire management tasks. Full
26 collaboration among federal agencies and between the federal agencies,
27 international, state, tribal, and local governments, and private entities results
28 in a mobile fire management work force available for the full range of
29 public needs.
- 30 **9.** Standardization of policies and procedures among federal agencies is an
31 ongoing objective. Consistency of plans and operations provides the
32 fundamental platform upon which federal agencies can cooperate, integrate
33 fire activities across agency boundaries, and provide leadership for
34 cooperation with state, tribal, and local fire management organizations.

35
36 *Review and Update of the 1995 Federal Wildland Fire Management Policy*
37 *(January 2001)*
38

39 **Elements of the Federal Wildland Fire Management Policy**

40 **1. Safety**

41 Firefighter and public safety is the first priority. All FMPs and activities
42 must reflect this commitment.

43 **2. Fire Management and Ecosystem Sustainability**

44 The full range of fire management activities will be used to help achieve
45 ecosystem sustainability, including interrelated ecological, economic, and
46 social components.

- 1 **3. Response to Wildland Fire**
2 Fire, as a critical natural process, will be integrated into land and resource
3 management plans and activities on a landscape scale across agency
4 boundaries. Response to wildland fires is based on ecological, social, and
5 legal consequences of the fire. The circumstances under which a fire
6 occurs, the likely consequences on firefighter and public safety and welfare,
7 the natural and cultural resources, and the values to be protected dictate the
8 appropriate response to fire.
- 9 **4. Use of Wildland Fire**
10 Wildland fire will be used to protect, maintain, and enhance resources and,
11 as nearly as possible, be allowed to function in its natural ecological role.
12 Use of fire will be based on approved FMPs and will follow specific
13 prescriptions contained in operational plans.
- 14 **5. Rehabilitation and Restoration**
15 Rehabilitation and restoration efforts will be undertaken to protect and
16 sustain ecosystems, public health, safety, and to help communities protect
17 infrastructure.
- 18 **6. Protection Priorities**
19 The protection of human life is the single overriding suppression priority.
20 Setting priorities among protecting public communities and community
21 infrastructure, other property and improvements, and natural and cultural
22 resources will be done based on the values to be protected, public health
23 and safety, and the costs of protection. Once people have been committed
24 to an incident, these human resources become the highest value to be
25 protected.
- 26 **7. Wildland Urban Interface**
27 The operational roles of the federal agencies as partners in the wildland
28 urban interface are wildland firefighting, hazard reduction, cooperative
29 prevention, education, and technical assistance. Structural fire suppression
30 is the responsibility of tribal, state, or local governments. Federal agencies
31 may assist with exterior structural fire protection activities under formal fire
32 protection agreements that specify the mutual responsibilities of the
33 partners, including funding. (Some federal agencies have full structural
34 protection authority for their facilities on lands they administer and may
35 also enter into formal agreements to assist state and local governments with
36 structural protection.)
- 37 **8. Planning**
38 Every area with burnable vegetation must have an approved FMP. FMPs
39 are strategic plans that define a program to manage wildland and prescribed
40 fires based on the area's approved land management plan (LMP). FMPs
41 must provide for firefighter and public safety; include fire management
42 strategies, tactics, and alternatives; address values to be protected, and
43 public health issues; and be consistent with resource management
44 objectives, activities of the area, and environmental laws and regulations.
45
46

- 1 **9. Science**
2 FMPs and fire programs will be based on a foundation of the best available
3 science. Research will support ongoing efforts to increase our scientific
4 knowledge of biological, physical, and sociological factors. Information
5 needed to support fire management will be developed through an integrated
6 interagency fire science program. Scientific results must be made available
7 to managers in a timely manner and must be used in the development of
8 LMPs, FMPs, and implementation plans.
- 9 **10. Preparedness**
10 Agencies will ensure their capability to provide safe, cost-effective fire
11 management programs in support of land and resource management plans
12 through appropriate planning, staffing, training, equipment, and
13 management oversight.
- 14 **11. Suppression**
15 Fires are suppressed at minimum cost, considering firefighter and public
16 safety, benefits and all values to be protected consistent with resource
17 objectives.
- 18 **12. Prevention**
19 Agencies will work together with their partners, other affected groups, and
20 individuals to prevent unauthorized ignition of wildland fires.
- 21 **13. Standardization**
22 Agencies will use compatible planning processes, funding mechanisms,
23 training and qualification requirements, operational procedures, values-to-
24 be protected methodologies, and public education programs for all fire
25 management activities.
- 26 **14. Interagency Cooperation and Coordination**
27 Fire management planning, preparedness, prevention, suppression,
28 restoration and rehabilitation, monitoring, research, and education will be
29 conducted on an interagency basis with the involvement of cooperators and
30 partners.
- 31 **15. Communication and Education**
32 Agencies will enhance knowledge and understanding of wildland fire
33 management policies and practices through internal and external
34 communication and education programs. These programs will be
35 continuously improved through the timely and effective exchange of
36 information among all affected agencies and organizations.
- 37 **16. Agency Administrator and Employee Roles**
38 Agency administrators will ensure their employees are trained, certified,
39 and made available to participate in the wildland fire program locally,
40 regionally, and nationally as the situation demands. Employees with
41 operational, administrative, or other skills will support the wildland fire
42 programs as necessary. Agency administrators are responsible and will be
43 held accountable for making employees available.
- 44 **17. Evaluation**
45 Agencies will develop and implement a systematic method of evaluation to
46 determine effectiveness of projects through implementation of the *2001*

1 *Federal Wildland Fire Management Policy.* The evaluation will assure
2 accountability, facilitate resolution in areas of conflict, and identify resource
3 shortages and agency priorities.

4
5 *Review and Update of the 1995 Federal Wildland Fire Management Policy*
6 *(January 2001)*

7
8 ***Guidance for Implementation of Federal Wildland Fire Management Policy***
9 ***(February 13, 2009)***

10
11 On February 13, 2009, the Fire Executive Council (FEC) approved guidance for
12 the implementation of federal wildland fire management policy. This guidance
13 provides for consistent implementation of the *Review and Update of the 1995*
14 *Federal Wildland Fire Management Policy (January 2001)*, as directed by the
15 Wildland Fire Leadership Council.

16
17 *Guidance for Implementation of Federal Wildland Fire Management Policy*
18 *(February 13, 2009), page 3.*

19
20 The following guidelines should be used to provide consistent implementation
21 of federal wildland fire policy:

- 22 **1.** Wildland fire management agencies will use common standards for all
23 aspects of their fire management programs to facilitate effective
24 collaboration among cooperating agencies.
- 25 **2.** Agencies and bureaus will review, update, and develop agreements that
26 clarify the jurisdictional inter-relationships and define the roles and
27 responsibilities among local, state, tribal, and federal fire protection entities.
- 28 **3.** Responses to wildland fire will be coordinated across levels of government
29 regardless of the jurisdiction at the ignition source.
- 30 **4.** Fire Management Plans will be intergovernmental in scope and developed
31 on a landscape scale.
- 32 **5.** Wildland fire is a general term describing any non-structure fire that occurs
33 in the wildland. Wildland fires are categorized into two distinct types:
 - 34 a. Wildfires - Unplanned ignitions or prescribed fires that are
35 declared wildfires.
 - 36 b. Prescribed Fires - Planned ignitions.
- 37 **6.** A wildland fire may be concurrently managed for one or more objectives
38 and objectives can change as the fire spreads across the landscape.
39 Objectives are affected by changes in fuels, weather, topography; varying
40 social understanding and tolerance; and involvement of other governmental
41 jurisdictions having different missions and objectives.
- 42 **7.** Management response to a wildland fire on federal land is based on
43 objectives established in the applicable Land/Resource Management Plan,
44 and/or the Fire Management Plan.

- 1 8. Initial action on human-caused wildfire will be to suppress the fire at the
2 lowest cost with the fewest negative consequences with respect to
3 firefighter and public safety.
- 4 9. Managers will use a decision support process to guide and document
5 wildfire management decisions. The process will provide situational
6 assessment, analyze hazards and risk, define implementation actions, and
7 document decisions and rationale for those decisions.

8

9 *Guidance for Implementation of Federal Wildland Fire Management Policy*
10 *(February 13, 2009)*, page 7.

11

12 **Fire Management Objectives**

13

14 Federal agency fire management programs should assist resource managers with
15 protecting, maintaining, and enhancing federal lands in a cost effective manner.
16 Wildland fire management objectives are:

- 17 • Protect human life, property, and natural/cultural resources, both within and
18 adjacent to agency administered lands.
- 19 • Minimize damages and maximize overall benefits of wildland fire within
20 the framework of land use objectives and Land/Resource Management
21 Plans.
- 22 • Manage the wildland fire program in accordance with congressional intent
23 as expressed in the annual appropriations act and enabling legislation and
24 comply with applicable departmental manual and agency policies and
25 procedures.
- 26 • Promote an interagency approach to managing fires on an ecosystem basis.
- 27 • Employ strategies to manage wildland fires that provide for firefighter and
28 public safety, minimize cost and resource damage, and are consistent with
29 values to be protected and management objectives.
- 30 • Stabilize and rehabilitate resources and improvements lost or damaged by
31 fire or suppression activities.
- 32 • Minimize and where necessary, mitigate human-induced impacts to
33 resources, natural processes, or improvements attributable to wildland fire
34 activities.
- 35 • Promote public understanding of fire management programs and objectives.
- 36 • Organize a fire staff that can apply the highest standards of professional and
37 technical expertise.
- 38 • Encourage research to advance the understanding of fire behavior, effects,
39 ecology, and management.
- 40 • Integrate fire management through all levels of the planning process.
- 41 • Prevent and investigate all unplanned human-caused fires.

42

43

44

45

1 Fire Operations Doctrine

2

3 Purpose of Fire Operations Doctrine

4 Fire operations doctrine states the fundamental principles on the subject of fire
5 operations. This doctrine establishes a particular way of thinking about fire
6 operations. It provides a philosophy for leading firefighters in fire operations, a
7 mandate for professionalism, and a common language. Fire operations doctrine
8 does not consist of procedures to be applied to specific situations so much as it
9 sets forth general guidance that requires judgment in application.

10

11 The Nature of Fire Operations

12 Fire is a complex, dynamic, and often unpredictable phenomenon. Fire
13 operations require mobilizing a complex organization that includes
14 management, command, support, and firefighting personnel, as well as aircraft,
15 vehicles, machinery, and communications equipment. While the magnitude and
16 complexity of the fire itself and of the human response to it will vary, the fact
17 that fire operations are inherently dangerous will never change. A firefighter
18 utilizing the best available science, equipment, training, and working within the
19 scope of agency doctrine and policy, can still suffer serious injury or death.

20

21 Wildland Fire Operations Risk Management

22 The primary means by which we prevent accidents in wildland fire operations is
23 through aggressive risk management. Our safety philosophy acknowledges that
24 while the ideal level of risk may be zero, a hazard free work environment is not
25 a reasonable or achievable goal in fire operations. Through organized,
26 comprehensive, and systematic risk management, we will determine the
27 acceptable level of risk that allows us to provide for safety yet still achieve fire
28 operations objectives. Risk management is intended to minimize the number of
29 injuries or fatalities experienced by wildland firefighters.

30

31 Fire Preparedness

32 Fire preparedness is the state of being ready to provide an appropriate response
33 to wildland fires based on identified objectives. Preparedness is the result of
34 activities that are planned and implemented prior to fire ignitions. Preparedness
35 requires identifying necessary firefighting capabilities and implementing
36 coordinated programs to develop those capabilities. Preparedness requires a
37 continuous process of developing and maintaining firefighting infrastructure,
38 predicting fire activity, identifying values to be protected, hiring, training,
39 equipping, pre-positioning, and deploying firefighters and equipment, evaluating
40 performance, correcting deficiencies, and improving operations. All
41 preparedness activities should be focused on developing fire operations
42 capabilities and on performing successful fire operations.

43

44 Fire Operations Command Philosophy

45 It is essential that our philosophy of command support the way we conduct fire
46 operations. First and foremost, in order to generate effective decision making in

1 fire operations, and to cope with the unpredictable nature of fire, commanders'
2 intent must be lucid and unambiguous, and lines of authority must be clearly
3 articulated and understood. Subordinate commanders must make decisions on
4 their own initiative based on their understanding of their commander's intent. A
5 competent subordinate commander who is at the point of decision may
6 understand a situation more clearly than a senior commander some distance
7 removed. In this case, the subordinate commander must have the freedom to
8 take decisive action directed toward the accomplishment of operational
9 objectives. However, this does not imply that unity of effort does not exist, or
10 that actions are not coordinated. Unity of effort requires coordination and
11 cooperation among all forces toward a commonly understood objective.
12 Unified, coordinated action, whether between adjacent single resources on the
13 fireline or between the highest command level and the most subordinate
14 firefighter, is critical to successful fire operations.

15

16 **Fire Leadership**

17 Leadership is the art of influencing people in order to achieve a result. The most
18 essential element for success in the wildland fire service is good leadership.
19 Good leaders provide purpose, direction, and motivation for wildland
20 firefighters working to accomplish difficult tasks under dangerous, stressful
21 circumstances. Leaders often face difficult problems to which there are no
22 simple, clear-cut, by-the-book solutions. In these situations, leaders must use
23 their knowledge, skill, experience, education, values, and judgment to make
24 decisions and to take or direct action - in short, to provide leadership. All
25 firefighters, regardless of position, must provide leadership.

26

27 **Fire Suppression**

28 The purpose of fire suppression is to put the fire out in a safe, effective, and
29 efficient manner. Fires are easier and less expensive to suppress when they are
30 small. When the management goal is full suppression, aggressive initial attack
31 is the single most important method to ensure the safety of firefighters and the
32 public and to limit suppression costs. Aggressive initial attack provides the
33 Incident Commander maximum flexibility in suppression operations.
34 Successful initial attack relies on speed and appropriate force. All aspects of fire
35 suppression benefit from this philosophy. Planning, organizing, and
36 implementing fire suppression operations should always meet the objective of
37 directly, quickly, and economically contributing to the suppression effort. Every
38 firefighter, whether in a management, command, support, or direct suppression
39 role, should be committed to maximizing the speed and efficiency with which
40 the most capable firefighters can engage in suppression action. When the
41 management goal is other than full suppression, or when conditions dictate a
42 limited suppression response, decisiveness is still essential and an aggressive
43 approach toward accomplishment of objectives is still critical.

44

45

46

1 **Principles of Suppression Operations**

2 The primary means by which we implement command decisions and maintain
3 unity of action is through the use of common principles of suppression
4 operations. These principles guide our fundamental fire suppression practices,
5 behaviors, and customs, and are mutually understood at every level of
6 command. They include Risk Management, Standard Firefighting Orders and
7 Watch Out Situations, LCES and the Downhill Line Construction Checklist.
8 These principles are fundamental to how we perform fire suppression operations
9 and are intended to improve decision making and firefighter safety. They are
10 not absolute rules. They require judgment in application.

11

12 **Principles of Fire Suppression Action**

13 The principles of fire suppression action provide a framework for developing
14 fire suppression strategy and for conducting fire suppression operations. Again,
15 these are not absolute or immutable rules. These five principles provide a
16 consistent set of considerations with which to evaluate decisions, plans, and
17 actions in different situations.

18 **1. Objective**

19 The principle of the objective is to direct every fire suppression operation
20 toward a clearly defined, decisive, and obtainable objective. The purpose of
21 fire suppression operations is to achieve the suppression objectives that
22 support the overall management goals for the fire.

23 **2. Speed and Focus**

24 Speed is rapidity of action. Focus is the convergence of appropriate
25 resources at the desired position to initiate action. The principle of speed
26 and focus maintains that rapidly deploying and concentrating firefighting
27 resources, in a calculated fashion, at the decisive time and place increases
28 the likelihood of successful suppression actions.

29 **3. Positioning**

30 The principle of positioning maintains that rapid, flexible, and opportunistic
31 movement increases the effectiveness of fire suppression resources.
32 Positioning ranges from single resource offensive or defensive reactions to
33 dynamic fire conditions, to pre-positioning of multiple resources based on
34 predicted activity and values at risk. Positioning should always be
35 undertaken with speed and focus in mind and with sufficient time for
36 positioning to occur before operations begin.

37 **4. Simplicity**

38 The principle of simplicity is that clear, uncomplicated plans and concise
39 orders maximize effectiveness and minimize confusion. Simplicity
40 contributes to successful actions.

41 **5. Safety**

42 The principle of safety maintains that ensuring the safety of firefighters and
43 other persons affected by fire operations is fundamental to successful
44 suppression action. Safety not only contributes to successful actions, it is
45 indispensable to them.

46

1 Cost Effective Fire Operations

2
3 Maximizing the cost effectiveness of any fire operation is the responsibility of
4 all involved, including those that authorize, direct, or implement those
5 operations. Cost effectiveness is the most economical use of the suppression
6 resources necessary to accomplish mission objectives. Accomplishing fire
7 operations objectives safely and efficiently will not be sacrificed for the sole
8 purpose of “cost savings”. Care will be taken to ensure that suppression
9 expenditures are commensurate with values to be protected, while understanding
10 that other factors may influence spending decisions, including the social,
11 political, economic, and biophysical environments.

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Chapter 02 BLM Wildland Fire and Aviation Program Organization and Responsibilities

Introduction

This chapter states, references, or supplements policy for Bureau of Land Management (BLM) Fire and Aviation Program Management. The standards provided in this document are based on current Department of Interior (DOI) and Bureau policy, and are intended to provide fire program guidance. The intent is to ensure safe, consistent, efficient, and effective fire and aviation operations. This chapter will be reviewed and updated annually.

BLM Fire Operations Website

BLM Fire Operations maintains a website that hosts operational, informational, and policy-related documents. The website also contains information about the National Fire Equipment Program, the BLM Fire Training Unit, and the BLM Fire Operations Group and its subcommittees. This website is referenced throughout this document. The address of the BLM Fire Operations website is: http://web.blm.gov/internal/fire/fire_ops/index.html

Fire and Aviation Directorate

The BLM Fire and Aviation Directorate (FAD) consists of the Assistant Director (FA) in Boise, the Deputy Assistant Director (FA) in Washington, DC, the Fire Operations Division Chief, the Aviation Division Chief, the Planning and Resources Division Chief, the Support Services Division Chief, the Budget and Evaluation Chief, the External Affairs Division Chief, and the Equal Employment Opportunity Manager.

Program Manager Responsibilities

Assistant Director, Fire and Aviation (FA-100)

- Develops policies and standards for firefighting safety, training, and for the prevention, suppression, and use of wildland fires on Bureau lands.
- Provides guidance to State Directors on the use of prescribed fire and fuels management to achieve hazardous fuels reduction and resource management objectives.
- Integrates fire and aviation management procedures into natural resource management.
- Establishes position competencies, standards, and minimum qualifications for Fire Management Officers, Fire Management Specialists, and leaders based on federal interagency standards recommended by the National Fire and Aviation Executive Board.

- 1 • Implements the interagency Fire Program Analysis (FPA) process and
2 develops procedures and standards for the distribution of program
3 resources.
- 4 • Reviews and evaluates state fire and aviation management programs.
- 5 • Represents the BLM in the coordination of overall fire and aviation
6 management activities at National Interagency Fire Center (NIFC), on intra-
7 and interagency fire committees, groups, and working teams.
- 8 • In conjunction with Federal Fire Directors, establishes priorities for
9 assignment of critical resources during wildland fire emergencies.
- 10 • Initiates or participates on Boards of Review concerning actions taken on
11 selected wildland fires.
- 12 • Negotiates cooperative agreements and/or modifications of existing national
13 level agreements to improve fire and aviation management activities on
14 Bureau lands.
- 15 • Reviews funding requests for severity, hazardous fuel reduction, and
16 emergency rehabilitation of Bureau lands damaged by wildland fires; makes
17 determinations on funding levels and recommends approval to the BLM
18 Director.
- 19 • Serves as designated contact for the United States Department of the
20 Treasury for the certification and revocation of Certifying Officers and
21 Assistant Disbursing Officers (CO/ADO) and Designated Officials for
22 emergency incident payments.

23
24 **Equal Employment Opportunity Manager (EEO) (FA-102)**

- 25 • Manages the Equal Employment Opportunity (EEO) program in accordance
26 with legal, regulatory, and policy requirements.
- 27 • Manages and directs the Counseling Program, and Alternative Dispute
28 Resolution (ADR) programs, in accordance with Equal Employment
29 Opportunity Commission (EEOC) regulations and BLM policy as well as
30 for other NIFC agencies.
- 31 • Advises managers and aggrieved persons of employee rights and
32 responsibilities, procedural options and timeframes in conflict situations and
33 formulates proposed resolutions.
- 34 • Negotiates with managers, aggrieved persons and their representatives to
35 informally resolve EEO matters, and executes final settlement agreements.
- 36 • Manages the Affirmative Employment Program (AEP).
- 37 • Develops and maintains the accessibility program for the disabled, required
38 under Section 504 of the Rehabilitation Act of 1973, as amended, and the
39 Americans with Disability Act (ADA of 1990).
- 40 • Conducts analyses to evaluate progress in meeting equal employment
41 opportunity program goals.
- 42 • Administers training activities for the organization.
- 43 • Provides managers and supervisors with guidance and advice on issues
44 related to EEO/civil rights program activities.

- 1 • Represents the organization in meetings with public and private groups,
2 universities, minority and women's organizations, other DOI components,
3 and other federal agencies.
4

5 **Support Services Division Chief (FA-200)**

- 6 • Manages all aspects of the responsibilities and programs under the
7 jurisdiction of NIFC for the benefit of the BLM and cooperating agencies.
8 • Directs the accomplishment of the approved operating budget, exercising
9 appropriate control to assure program quality goals are met according to
10 established standards.
11 • Interprets departmental and Bureau policies and directives as they affect
12 NIFC programs.
13 • Participates in the BLM-wide and interagency task force activities as a
14 leader or member.
15 • Responsible for the NIFC Site and Facilities Management, Business
16 Practices, Human Resources, and Information Resource Management.
17 • Is a focal point and frequent spokesperson for the Bureau and the national
18 level management, assures a public awareness of Bureau programs and
19 coordinates with key officials in affected federal agencies, states, and
20 occasionally with other entities such as: foreign governments, private
21 individuals, private organizations, vendors, suppliers, transportation groups,
22 airlines, and others.
23 • Supports the implementation of the BLM's Automation/Modernization/
24 Information Resource Management (IRM) initiatives as they apply to
25 BLM/NIFC.
26

27 **Fire Operations Division Chief (FA-300)**

- 28 • Serves as the principal technical expert on fire operations to the Assistant
29 Director (FA), Deputy Assistant Director (FA), and to the BLM State Fire
30 Programs.
31 • Provides the Assistant Director (FA) and the Deputy Assistant Director
32 (FA) technical advice, operational oversight, and leadership in all aspects of
33 fire operations.
34 • Performs annual fire program preparedness reviews. Evaluates compliance
35 with policies, objectives, and standards. Assesses operational readiness and
36 provides technical assistance to solve identified problems. Performs other
37 operations reviews as required/requested.
38 • Assists the Assistant Director (FA) and Deputy Assistant Director (FA), in
39 the formulation and establishment of national policies and programs
40 pertinent to wildland fire preparedness, suppression, shared national
41 resources, safety, training, and equipment.
42 • Serves as the BLM technical expert on national interagency mobilization
43 and utilization of fire suppression resources.
44 • Develops national plans, standards, and technical guides for the BLM and
45 interagency fire management operations.

- 1 • Develops and implements safety programs, accident investigation
2 procedures, and safety trend analyses.
- 3 • Supervises the Branch of Radio Operations (FA-350) which is responsible
4 for tactical and operational national radio planning for the Bureau to meet
5 the needs of all business users (law enforcement (LE), fire, cadastral survey,
6 recreation, and natural resource programs). FA-350 is responsible for
7 managing the BLM's nationwide radio frequency (RF) assignments;
8 conducting management control reviews; user satisfaction surveys; Exhibit
9 300 Business Case; operational analysis; equipment test plans; testing
10 resources for the DOI Technical Service Center (TSC); implementation of
11 facilities standards, and management of equipment lifecycles.

12 13 **Budget and Evaluation Division Chief (FA-400)**

- 14 • Serves as principal budget advisor of the Wildland Fire program to the
15 Assistant Director (FA), Deputy Assistant Director (FA), BLM Fire
16 Leadership Team, and to other BLM staffs.
- 17 • Serves as primary BLM representative in the DOI Wildland Fire Budget
18 formulation and execution process.
- 19 • Represents BLM on the DOI Fire Budget Team and at other interagency
20 meetings in regards to budget related policies, requirements, procedures,
21 and reports.
- 22 • Coordinates all budget activities between Washington Office, Office of
23 Wildland Fire Coordination, and Fire and Aviation.
- 24 • Provides national oversight for BLM Wildland Fire program budget
25 formulation, justification, and execution. Responsible for the development
26 and preparation of the budget justifications, Planning Target Allocation,
27 Annual Work Plan, capability statements, effects statements, and
28 congressional responses.
- 29 • Reviews NIFC offices at mid-year, third quarter, and end-of-year and
30 distributes available funding in accordance with BLM policy.
- 31 • Provides oversight of Casual Payment Center. Ensures all DOI casual
32 payments are processed in a timely and cost-effective manner adhering to
33 procedures and practices set forth by the DOI agencies.

34 35 **Aviation Division Chief (FA-500)**

- 36 • Serves as principal aviation advisor to the Assistant Director (FA), Deputy
37 Assistant Director (FA), other staffs, states, and to the DOI.
- 38 • Identifies and develops Bureau aviation policies, methods and procedures,
39 as well as standardized technical specifications for a variety of specialized
40 firefighting missions for incorporation into the directives system.
- 41 • Coordinates aviation-related activities and services between the Washington
42 Office (WO) and states with other wildland firefighting, regulatory,
43 investigative, and military agencies.
- 44 • Coordinates provision and use of aviation resources with business practices,
45 aviation user staffs at the WO, and state office level.

- 1 • Represents the BLM at interagency meetings, in interagency committees
2 developing government-wide aviation policies, requirements, procedures
3 and reports, at aviation industry meetings and conventions.
- 4 • Develops and implements aviation safety programs, accident investigation
5 procedures, and aviation safety trend analyses.
- 6 • Plans and conducts reviews and evaluations of state aviation programs.
- 7 • Plans and conducts technical and managerial analyses relating to the
8 identification of aviation organization and resources appropriate for agency
9 use, cost-effectiveness of aviation firefighting, other specialized missions,
10 aircraft acquisition requirements, equipment developmental needs, and
11 related areas.

12

13 Planning and Resources Division Chief (FA-600)

- 14 • Responsible for the development and implementation of the Bureau-wide
15 fire planning program. Provides guidance and assistance in administering
16 the technical and operational aspects of BLM's fire planning program at the
17 regional and agency levels for the accurate identification of program
18 funding needs. Checks for accuracy in computations with instructions and
19 policies.
- 20 • Responsible for the development and coordination of the BLM's prescribed
21 fire, fuels management, fire trespass, and fire prevention annual programs,
22 and recommends the distribution of program funds to regions.
- 23 • Tracks all fuels management fund distributions and prior year carryover
24 funds. Develops and maintains a national database for fuels management
25 accomplishments for Indian Trust Lands.
- 26 • Analyzes hazards and risks in the wildland urban interface using fuels
27 modification or reduction techniques, and develops recommendations for
28 Bureauwide application. Examines and analyzes laws and regulations
29 pertaining to prescribed fire use/fuels management in the wildland urban
30 interface, and works with top level Bureau representatives, states, and rural
31 fire districts to recommend policy which will achieve uniformity.
- 32 • Serves as the BLM's primary subject matter expert for National Fire
33 Management Analysis System (NFMAS), fire planning, Personal Computer
34 Historical Analysis (PCHA), Geographic Information System (GIS), Global
35 Positioning System (GPS), Lightning Detection System (LDS), Weather
36 Information Management System (WIMS), prescribed fire software
37 programs, and provides user training in those applications.

38

39 External Affairs Division Chief (FA-700)

- 40 • Responsible for coordination of information between the Departmental
41 Office of Wildland Fire Coordination to the BLM, BIA, USFWS, NPS,
42 USFS, National Association State Foresters (NASF), and Federal
43 Emergency Management Agency (FEMA) at NIFC.
- 44 • Responsible for coordination of the responses to: Office of Management
45 and Budget (OMB), Government Accountability Office (GAO),

- 1 congressional, political, and other external inquires between agencies and
2 departments, establishing and maintaining cooperative relationships
3 resulting in quality work products.
- 4 ● Serves as the manager of the External Affairs program for the NIFC.
 - 5 ● Develops recommendations pertaining to External Affairs aspects for BLM
6 Fire and Aviation policies.
 - 7 ● Initiates External Affairs policies and procedures pertaining to Fire and
8 Aviation for adoption at the department level in conjunction with other
9 departments and agencies.
 - 10 ● Serves as personal and direct representative of the Assistant Director, Fire
11 and Aviation at various meetings and functions with members of congress
12 and staff, state governors and legislatures, officials of local, state and
13 federal agencies, major private corporations, public and private interest
14 groups, and foreign governments.
 - 15 ● Serves as external affairs expert and consultant to the Assistant Director,
16 (FA) and the Deputy Assistant Director (FA) on a wide variety of issues and
17 policies of controversial nature, providing analysis and advice on public
18 reaction to major policy and program issues.
 - 19 ● Coordinate with legislative affairs on proposed legislation regarding FA.

20
21 **State Director**

22 The State Director is responsible for fire management programs and activities
23 within the state. The State Director will ensure that employees in their
24 organization meet the requirements outlined in the *Interagency Fire Program*
25 *Management Qualifications Standards and Guide* at: <http://www.ifpm.nifc.gov/>
26 and will ensure training is completed to support delegations to line managers
27 and principal actings.

28
29 **District/Field Manager**

30 The District/Field Manager is responsible to the State Director for the safe and
31 efficient implementation of fire management activities within their unit. This
32 includes cooperative activities with other agencies or landowners in accordance
33 with delegations of authorities. The District/Field Manager and their principal
34 actings will meet the required elements outlined in the Management
35 Performance Requirements for Fire Operations below.

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1 Management Performance Requirements for Fire Operations

PERFORMANCE REQUIRED	State Director/ Associate	District/ Field Manager
1. Ensures Fire Management Plans (FMPs) reflect the agency commitment to firefighter and public safety, while utilizing the full range of fire management activities available for ecosystem sustainability.	X	X
2. Develops fire management standards and constraints that are compliant with agency fire policies.	X	X
3. Ensures use of fire funds is in compliance with department and agency policies.	X	X
4. Ensures incident responses will be based on current and approved Resource Management Plans (RMPs) and FMPs.	X	X
5. Attends the Fire Management Leadership Course. Ensures that personnel delegated fire program responsibilities have completed the Fire Management Leadership Course.		X
6. Ensure Wildland Fire Decision Support System (WFDSS) decisions are certified at the appropriate level.	X	X
7. Provides a written Delegation of Authority to FMOs that gives them an adequate level of operational authority. If fire management responsibilities are zoned, ensures that all appropriate Agency Administrators have signed the delegation.	X	X
8. Ensures only trained, certified fire and non-fire personnel are available to support fire operations at the local and national level.	X	X
9. Ensures master agreements with cooperators are valid and in compliance with agency policy, and that attached Annual Operating Plans are current.	X	X
10. Personally visits at least one wildland and one prescribed fire each year.		X
11. Annually convenes and participates in pre-and post season fire meetings.	X	X
12. Reviews critical operations and safety policies and procedures with fire and fire aviation personnel.	X	X

PERFORMANCE REQUIRED	State Director/ Associate	District/ Field Manager
13. Ensures timely follow-up to fire management program reviews.	X	X
14. Ensures fire and fire aviation preparedness reviews are conducted annually in all unit offices. Participates in at least one review annually.	X	X
15. Ensures investigations are conducted for incidents with potential, entrapments, and serious accidents as per the standards in Chapter 18.	X	X
16. Provides a written Delegation of Authority, Wildland Fire Decision Support System (WFDSS) and an Agency Administrator Briefing to Incident Management Teams.		X
17. Ensures resource advisors are identified, trained, and available for incident assignment. Refer to <i>Resource Advisors Guide for Wildland Fire PMS 313, NFES 1831, Jan 2004</i> .		X
18. Attends post fire closeout on Type 1 and Type 2 fires (attendance may be delegated.)		X
19. Ensures trespass actions are initiated and documented to recover cost of suppression activities, land rehabilitation, and damages to the resource and improvements for all human-caused fires where liability can be determined, as per <i>Fire Trespass Handbook" H-9238-1</i> .	X	X
20. Ensures compliance with National and State Office policy for prescribed fire activities. Provides periodic reviews of the prescribed fire program.	X	X
21. Ensures Prescribed Fire Plans are approved and meet agency policies.	X	X
22. Ensures the Prescribed Fire Plan has been reviewed and recommended by a qualified technical reviewer who was not involved in the plan preparation.		X
23. Ensures a policy has been established to review and sign the go/no go checklist.		X
24. Ensures Unit Safety Program is in place, has a current plan, has an active safety committee that includes the fire program.	X	X

PERFORMANCE REQUIRED	State Director/ Associate	District/ Field Manager
25. Annually updates and reviews the <i>Agency Administrator's Guide to Critical Incident Management</i> www.nwccg.gov	X	X
26. Ensures current fire and weather information is posted (hardcopy, web, etc.), and available for all employees.		X

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2 **State Fire Management Officer (SFMO)**

3 The State Fire Management Officer (SFMO) provides leadership for their
4 agency fire and fire aviation management program. The SFMO is responsible
5 and accountable for providing planning, coordination, training, technical
6 guidance, and oversight to the state fire management programs. The SFMO also
7 represents the State Director on interagency geographic area coordination
8 groups and Multi-Agency Coordination (MAC) groups. The SFMO provides
9 feedback to Districts/Field Offices on performance requirements.

10

11 **District/Field Office Fire Management Officer**

12 The District/Field Office Fire Management Officer (FMO) is responsible and
13 accountable for providing leadership for fire and fire aviation management
14 programs at the local level. The FMO determines program requirements to
15 implement land use decisions through the Fire Management Plan (FMP) to meet
16 land management objectives. The FMO negotiates interagency agreements and
17 represents the District/Field Office Manager on local interagency fire and fire
18 aviation groups.

19

20 **Manager's Oversight**

21 Agency administrators are required to personally visit an appropriate number of
22 fires each year. Appendix A contains information to support the agency
23 administrators during these visits.

24

25 **Post Incident Review**

26 Appendix B (*Managers Supplement for Post Incident Review*) emphasizes the
27 factors that are critical for ensuring safe and efficient wildland fire suppression,
28 and provides examples for managers to use in their review of incident operations
29 and incident commanders.

30

31 **Fire Training for Agency Administrators**

32 Agency administrators and their acting must complete one of the following
33 courses within two years of being appointed to a designated management
34 position.

- 35 • National - Fire Management Leadership
- 36 • Geographic - Local Fire Management Leadership

Release Date: January 2012

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- 1 Either class is acceptable; however, the national course is preferred.
 2
 3 Experience requirements for positions in Alaska Fire Service, Oregon and
 4 California (O&C) Districts, NIFC, national office, and other fire management
 5 positions in units and state/regional offices will be established as vacancies
 6 occur, but will be commensurate with the position's scope of responsibilities.
 7 The developmental training to fully achieve competencies should be addressed
 8 in an IDP within a defined time period.
 9

10 **Fire Staff Performance Requirements for Fire Operations**

PERFORMANCE REQUIRED	State FMO	District/ Zone/Field Office FMO
1. Establishes and manages a safe, effective, and efficient fire program.	X	X
2. Ensures the fire program is funded and managed to provide for safe and effective fire management activities.	X	X
3. Ensures the Fire Management Plan (FMP) reflects the agency commitment to firefighter and public safety, while utilizing the full range of fire management activities available for ecosystem sustainability.	X	X
4. Ensures only trained and qualified personnel are assigned to fire and fire aviation duties.	X	X
5. Ensures the unit safety program is implemented and provides direction for fire and non-fire safety regulations, training, and concerns.	X	X
6. Ensures completion of a Job Hazard Analysis (JHA)/Risk Assessment for fire and fire aviation activities, and non-fire activities so mitigation measures are taken to reduce risk.		X
7. Ensures compliance with work/rest guidelines during all fire and fire aviation activities.	X	X
8. Ensures fire and fire aviation management employees understand their role, responsibilities, authority, and accountability.	X	X
9. Organizes, trains, equips, and directs a qualified work force.	X	X

PERFORMANCE REQUIRED	State FMO	District/ Zone/Field Office FMO
10. Establishes and implements a post incident assignment performance review process for each employee.	X	X
11. Develops, implements, evaluates, and documents fire and fire aviation training to meet current and anticipated needs.	X	X
12. Ensures fire and fire aviation policies are understood, implemented, and coordinated with other agencies as appropriate.	X	X
13. Monitors fire suppression activities to recognize when complexity levels exceed program capabilities. Increases managerial and operational resources to meet the need.	X	X
14. Monitors fire season severity predictions, fire behavior, and fire activity levels. Ensures fire severity funding and National Preposition Funding is requested in a timely manner, used, and documented in accordance with agency standards.	X	X
15. Ensures master agreements with cooperators are valid and in compliance with agency policy, and that attached Annual Operating Plans are current.	X	X
16. Develops, maintains, and implements current operational plans (e.g., dispatch, preparedness, prevention).		X
17. Develops, maintains, and implements restrictions procedures in coordination with cooperators whenever possible.	X	X
18. Ensures that the use of fire funds complies with department and agency policies.	X	X
19. Reviews and approves appropriate overtime authorization requests for personnel providing fire suppression coverage during holidays, special events, and abnormal fire conditions.		X
20. Ensures a process is established to communicate fire information to public, media, and cooperators.	X	X
21. Annually convenes and participates in pre-and post season fire meetings where management controls and critical safety issues are discussed.	X	X

PERFORMANCE REQUIRED	State FMO	District/ Zone/Field Office FMO
22. Oversees pre-season preparedness review of fire and fire aviation program.	X	X
23. Initiates, conducts, and/or participates in fire program management reviews and investigations.	X	X
24. Personally participates in periodic site visits to individual incidents and projects.		X
25. Utilizes the Incident Complexity Analysis appendix E & F to ensure the proper level of management is assigned to all incidents.	X	X
26. Ensures transfer of command on incidents occurs as per Chapter 11.		X
27. Ensures incoming personnel and crews are briefed prior to fire and fire aviation assignments.		X
28. Ensures an accurate and defensible Wildland Fire Decision Support System (WFDSS) is completed and updated daily for all fires that escape initial attack.	X	X
29. Ensures a WFDSS is completed, approved, and certified daily for all fires managed for multiple objectives.	X	X
30. Works with cooperators, groups, and individuals to develop and implement processes and procedures for providing fire safe communities within the wildland urban interface.	X	X
31. Ensures trespass actions are initiated and documented to recover cost of suppression activities, land rehabilitation, and damages to the resource/improvements for all human-caused fires that ignite on BLM jurisdiction where liability can be determined.	X	X
32. Ensures required unit personnel are trained in fire cause determination and fire trespass.	X	X
33. Ensures compliance with National and State Office policy for prescribed fire activities. Provides periodic reviews of the prescribed fire program.	X	X

PERFORMANCE REQUIRED	State FMO	District/ Zone/Field Office FMO
34. Annually updates and reviews the <i>Agency Administrator's Guide to Critical Incident Management</i> .	X	X
35. Ensures fire season severity predictions, weather forecasts, fire behavior predictors, and fire activity levels are monitored and communicated daily to all employees (hard copy, web page, email, radio, or fax).		X
36. Ensures standards in current National and Local Mobilization Guides are followed.	X	X
37. Complies with established property control/management procedures.	X	X

1

2 Requirements for fire management positions are outlined in the *Interagency Fire*
3 *Program Management Qualifications Standards and Guide* (IFPM) Standard.

4 The supplemental Qualification Standard for professional GS-0401 Fire
5 Management Specialist positions, approved by the Office of Personnel
6 Management, is also included in the IFPM Standard. The *Interagency Fire*
7 *Program Management Qualification Standards and Guide* can be found in its
8 entirety on the IFPM website: <http://www.ifpm.nifc.gov>.

9

10 Delegation of Authority

11

12 Delegation for State Fire Management Officers (SFMO)

13 In order to effectively perform their duties, a SFMO must have certain
14 authorities delegated from the State Director. This delegation is normally placed
15 in the state office supplement to agency manuals. This delegation of authority
16 should include the following roles and responsibilities:

- 17 • Serve as the State Director's authorized representative on geographic area
18 coordination groups, including MAC groups.
- 19 • Coordinate and establish priorities on uncommitted fire suppression
20 resources during periods of shortages.
- 21 • Coordinate logistics and suppression operations statewide.
- 22 • Relocate agency pre-suppression/suppression resources within the
23 state/region based on relative fire potential/activity.
- 24 • Correct unsafe fire suppression activities.
- 25 • Direct accelerated, aggressive initial attack when appropriate.
- 26 • Enter into agreements to provide for the management, fiscal, and
27 operational functions of combined agency operated facilities.
- 28 • Suspend prescribed fire activities when warranted.

Release Date: January 2012

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- 1 • Give authorization to hire Emergency Firefighters in accordance with the
- 2 DOI Pay Plan for Emergency Workers.
- 3 • Approve emergency fire severity funding expenditures not to exceed the
- 4 agency's annual authority.
- 5 • Appendix C provides a sample "Delegation of Authority".

6

7 **Delegation for District/Zone/Field Office Fire Management Officers (FMO)**

8 In order to effectively perform their duties, a unit FMO must have certain
9 authorities delegated from the District Manager. This delegation is normally
10 issued annually. This delegation of authority should include the following roles
11 and responsibilities:

- 12 • Serve as the District Manager's authorized representative on operations
- 13 groups and coordination groups, including MAC groups.
- 14 • Coordinate and establish priorities on uncommitted fire suppression
- 15 resources during periods of shortages.
- 16 • Coordinate logistics and suppression operations for the unit.
- 17 • Relocate agency pre-suppression/suppression resources within the unit
- 18 based on relative fire potential/activity.
- 19 • Correct unsafe fire suppression activities.
- 20 • Direct accelerated, aggressive initial attack when appropriate.
- 21 • Facilitate entry into agreements to provide for the management, fiscal, and
- 22 operational functions of combined agency operated facilities.
- 23 • Suspend prescribed fire activities when warranted.
- 24 • Give authorization to hire Emergency Firefighters in accordance with the
- 25 DOI Pay Plan for Emergency Workers.
- 26 • Approve emergency fire severity funding expenditures not to exceed the
- 27 unit's approved authority.
- 28 • Appendix C provides a sample "Delegation of Authority".

29

30 **BLM Operational Duty Officer (ODO)**

31

32 Each BLM unit Fire Management Officer will perform the duties of an ODO or
33 will provide a delegated ODO for their units during any period of predicted
34 incident activities. ODO responsibilities may be performed by any individual
35 with a signed Delegation of Authority from the local Agency Administrator.
36 Qualifications for the ODO will be identified within the Unit Annual Operating
37 Plan. The required duties for all BLM ODOs are:

- 38 • Monitor unit incident activities for compliance with BLM safety policies.
- 39 • Coordinate and set priorities for unit suppression actions and resource
- 40 allocation.
- 41 • Keep unit Agency Administrators, suppression resources, and information
- 42 officers informed of the current and expected situation.
- 43 • Plan for and implement actions required for future needs.
- 44 • Document all decisions and actions.

1 ODOs will provide operational oversight of these requirements as well as any
 2 unit specific duties assigned by the local fire managers through the local unit fire
 3 operating plan. ODOs will not fill any ICS incident command functions
 4 connected to any incident. In the event that the ODO is required to accept an
 5 incident assignment, the FMO will ensure that another qualified and authorized
 6 ODO is in place prior to the departure of the outgoing ODO.

7

8 **Incident Business**

9

10 Administrative guidance related to payroll operations, hiring authorities,
 11 Emergency Support Functions, fire contracting, cost reviews, etc. can be found
 12 on the BLM Fire & Aviation web site at:
 13 http://web.blm.gov/internal/fire/budget/Reference_docs/Incident%20Business/IB-new/IB_MMMenu.html

14

16 **BLM Fire Management Position Titles and Fire Department Cooperator Equivalencies**

17

18 Bureau of Land Management units that choose to use fire department cooperator
 19 nomenclature will utilize the following BLM position title equivalency standard.

20

21 BLM Fire Management Position Title	Fire Department Cooperator Equivalency
State FMO, District FMO	Chief
State AFMO, District AFMO	Deputy Chief
State Office Fire Staff	Assistant Chief
Field Office FMO, Center Manager, District Fire Management Specialist, District Fuels Specialist	Division Chief
Fire Operations Specialist, Fuels Specialist, Assistant Center Manager, Prevention/Education Specialist	Battalion Chief
Prevention Technician, Prevention/Education Specialist	Prevention officer
Hotshot Superintendent, Helicopter Manager	Superintendent
Engine Captain, Hotshot Foreman, Assistant Helicopter Manager, Fuels Module Leader	Captain
Fire Engine Operator	Engineer
Communications Technician	Comm.
Mechanic	Repair

22

23 **Safety and Occupational Health Program**

24

25 Safety and occupational health program responsibilities are interwoven
 26 throughout Bureau program areas, including fire management. Safety of our
 27 employees lies within every level of the organization and program

- 1 implementation can have a direct impact on firefighting personnel. To ensure
 2 that program requirements are met to support the fire and aviation management
 3 program, the following checklist shall be utilized.

4

5 **Safety and Health Responsibilities for the Fire Program**

PERFORMANCE REQUIRED	State Safety Manager	District/ Zone Safety Manager	Unit FMO	Field Manager
1. An annual Unit Safety and Health Action Plan is developed, approved, and signed by unit Agency Administrator. This plan outlines courses of action to improve the unit's safety program and is based upon an assessment of what is needed to make the safety program fully functional.		X	X	X
2. Risk assessments (RAs) are completed for non-suppression related fire activities. JHAs/RAs are completed for suppression related activities and crews are briefed on JHA/RA prior to beginning work.			X	X
3. An individual has been designated as the Unit Safety Officer.	X			X
4. Maintains a working relationship with all facets of the fire organization including outstations.		X	X	X

PERFORMANCE REQUIRED	State Safety Manager	District/ Zone Safety Manager	Unit FMO	Field Manager
5. A safety committee or group, which includes fire representation, is organized to monitor safety and health concerns and activities.		X	X	X
6. Written safety and health programs required by OSHA are in place and being implemented to include fire personnel.	X	X		
7. Employees are provided mandatory safety and health training, including the BLM Fire and Aviation Employee Orientation Checklist.		X	X	X
8. Fire safety programs (e.g., SAFENET, Six Minutes for Safety, Safety Alerts) are known and being utilized.			X	
9. Safety publications are available to all fire employees (e.g., <i>Incident Response Pocket Guide, 1112-2 Manual, Fireline Handbook 410-1</i>).			X	

PERFORMANCE REQUIRED	State Safety Manager	District/ Zone Safety Manager	Unit FMO	Field Manager
10. Assures that risk management process is integrated into all major policies, management decisions, and the planning and performance of every job. <i>BLM Manual 1112 Safety</i>			X	
11. Procedures are in place to monitor Work Capacity Test (WCT) results and ensure medical examination policies are followed.			X	
12. Material Safety Data Sheets (MSDS) are present, accessible, and available for all hazardous materials used and stored in the work area.		X	X	
13. Procedures are in place to purchase non-standard equipment as identified in the JHA/Risk Assessment process, and to ensure compliance with consensus standards (e.g., ANSI, NIOSH) for PPE.	X	X		X
14. Personal Protective Equipment (PPE) supplied, is serviceable, and being utilized.		X	X	
15. Ensures tailgate safety meetings are held and documented.			X	

PERFORMANCE REQUIRED	State Safety Manager	District/ Zone Safety Manager	Unit FMO	Field Manager
16. Monitors and inspects operations and work sites for unsafe acts and conditions and promptly takes appropriate preventative and corrective measures. <i>BLM Manual 1112 Safety.</i>		X		
17. Procedures are in place for reporting unsafe and unhealthful working conditions.		X		X
18. Promptly reports and investigates all job-related accidents/incidents that result in or have the potential to cause fatalities, injuries, illnesses, property, or environmental damage. All such reports are electronically submitted to the Safety Management Information System (SMIS). <i>BLM Manual 1112 Safety</i>			X	X
19. Injury data is monitored and reviewed to determine trends affecting the health and welfare of employees.		X		X

PERFORMANCE REQUIRED	State Safety Manager	District/ Zone Safety Manager	Unit FMO	Field Manager
20. Ensures facility and work areas inspections are conducted to ensure requirements are met. <i>29 CFR 1960 and 485 DM, Chapter 5 requirements.</i>	X	X		X

1

2 **Employee Safety and Health Program Responsibility**3 All employees have personal responsibility to ensure safe and healthful work
4 practices and the following elements specifically outline these responsibilities:

- 5 • Complying with applicable work rules, practices, and procedures.
- 6 • Using safety devices, personal protective equipment, clothing, and other
7 means provided or directed by recognized authority at all times when
8 necessary for their protection.
- 9 • Reporting unsafe and unhealthful working conditions to management.
- 10 • Reporting every job-related accident/incident to their supervisor that results
11 in, or has the potential to harm people, property, or the environment.
- 12 • Reporting personal conditions that could adversely affect their ability to
13 perform in a safe and healthful manner on the job.
- 14 • Completing the BLM Fire and Aviation Employee Orientation Checklist,
15 available on the BLM Fire Operations website.

16

17 **Emergency Notification**

18

19 After emergency response actions deliver an injured employee to the immediate
20 medical care facility, prompt notification through the chain of command is
21 essential to ensure proper management support to the employee. For BLM fire
22 operations, notification criteria are as follows:

- 23 • Supervisor of the injured employee will notify the local state Fire
24 Operations Group representative immediately after treatment when the
25 injured employee is not released to duty. This contact will be in addition to
26 contacts made to the home unit chain of command.

27

28 **Employee Advocacy**

29

30 Fire operations doctrine acknowledges the inherent danger of fire operations and
31 the potential for serious injury or death to firefighters. When these occur, it is
32 important that Bureau employees are provided the best and most appropriate
33 care and support possible. Managers should consult their human resources
34 experts to ensure that applicable Departmental and Bureau human resources

1 policies and guidelines are followed. In addition, the following website
2 provides information to assist managers in dealing with the many complexities
3 of these occurrences.
4 http://web.blm.gov/internal/fire/fire_ops/toolbox_sift.htm

6 **BLM Fire Honor Guard**

7
8 The Bureau of Land Management Fire Honor Guard is a team of uniformed
9 employees who display honor and appreciation for those men and women who
10 have died in the line of duty. Honor Guard members will represent the BLM at
11 memorial services and other special events to honor those we have lost and
12 recognize their family, friends, and coworkers.

13
14 BLM Fire Honor Guard members are selected from within the ranks of front line
15 firefighters. Members must be in good standing in the Bureau and receive a
16 written recommendation from the local area fire management officer. Members
17 will be expected to commit for no less than a one-year period. Members must
18 attend two scheduled drill sessions each year, and must be available for honor
19 guard assignments on short notice.

20
21 For more information, refer to
22 http://www.blm.gov/nifc/st/en/prog/fire/honor_guard.html.

24 **Employee Responsibility**

25
26 All employees, cooperators, contractors, and volunteers who participate in
27 wildland fire operations have the duty to treat each other with respect and to
28 maintain a work environment free of misconduct and harassment.

29
30 Misconduct includes but is not limited to: alcohol misuse, driving while
31 intoxicated, the use of illegal drugs, hazing, insubordination, disregard for
32 policies and procedures, and the destruction or theft of government property.

33
34 Harassment is coercive or repeated, unsolicited and unwelcome verbal
35 comments, gestures, or physical contacts and includes retaliation for confronting
36 or reporting harassment.

37
38 Harassment and misconduct will not be tolerated under any circumstances and
39 will be dealt with in the strictest of terms. We must all take responsibility for
40 creating and ensuring a healthy and safe work environment. Employees who
41 experience or witness harassment, misconduct, or any inappropriate activity
42 should report it to the proper authority immediately.

43
44
45
46

1 **Examples of Harassment and Misconduct**

- 2 • **Physical conduct** - Unwelcome touching, standing too close, looking up
3 and down, inappropriate or threatening staring or glaring, obscene,
4 threatening, or offensive gestures.
- 5 • **Verbal or written misconduct** - Inappropriate references to body parts;
6 derogatory or demeaning comments, jokes, or personal questions; sexual
7 innuendoes; offensive remarks about race, gender, religion, age, ethnicity,
8 or sexual orientation, obscene letters or telephone calls, catcalls, whistles or
9 sexually suggestive sounds.
- 10 • **Visual or symbolic misconduct** - Display of nude pictures, scantily-clad,
11 or offensively-clad people; display of offensive, threatening, demeaning, or
12 derogatory symbols, drawings, cartoons, or other graphics; offensive
13 clothing or beverage containers, bumper stickers, or other articles.
- 14 • **Hazing** - Hazing is considered a form of harassment. “Hazing” is defined
15 as “any action taken, or situation created intentionally, to produce mental or
16 physical discomfort, embarrassment, or ridicule.”
- 17 • **Alcohol** - The use of alcohol during any work period is strictly prohibited.
18 The performance of job duties while under the influence of alcohol is
19 prohibited. Underage personnel alcohol use is prohibited at all times.
20

21 **BLM Mobile Fire Equipment Policy**

22 **Introduction**

23 The following section represents a general overview of the BLM Mobile Fire
24 Equipment Policy. The policy can be found in it’s entirety on the BLM National
25 Fire Equipment Program (NFEP) Website, located within the BLM Fire
26 Operations website.
27

28 **Policy and Guidance**

29 The BLM fire equipment program is responsible for the design, development,
30 and acquisition of specialized wildland fire equipment to meet the full range of
31 fire management requirements. The design and development is accomplished
32 through the analysis of performance needs required by BLM field units and
33 working with industry to produce prototypes for testing and eventually
34 production units. Acquisition of equipment is accomplished primarily through
35 contracting. The BLM fire equipment program balances advanced technology
36 with overall cost efficiency to provide maximum safety for personnel while
37 effectively meeting fire management needs.
38

39 It is agency policy to maintain each piece of fire equipment at a high level of
40 performance and in a condition consistent with the work it has been designed to
41 perform. This shall be accomplished through application of a uniform
42 preventive maintenance program, timely repair of components damaged while
43 on assignment, and in accordance with all agency fiscal requirements. Repairs
44 shall be made as they are identified to keep the equipment functional and in peak
45 operating condition.
46

1 **Fire Equipment Committees**

2 There are three levels of fire equipment committees: National, State, and
3 Interagency. Fire equipment committees address the broad spectrum of
4 equipment subjects and make recommendations. State committees will report to
5 the respective State Fire Management Officer. The National Fire Equipment
6 Committee (NFEC) and the BLM Engine Committee report to the Fire
7 Operations Group (FOG). Equipment committees should invite other agency
8 equipment leads to share ideas, transfer technology, and coordinate efforts.

9
10 **BLM National Fire Equipment Program (NFEP)**

11 The BLM National Fire Equipment Program (NFEP) located at NIFC. This unit
12 is responsible for the development, ordering, inspection, receiving, and
13 distribution of new fire equipment that will meet or exceed the minimum
14 performance standards established by the BLM National Fire Equipment
15 Committee and the BLM Engine Committee. The NFEP website is located
16 within the BLM Fire Operations website.

17
18 **Equipment Development**

19 The BLM NFEP has established a fire equipment development process to ensure
20 that new fire equipment or technologies meet or exceed established performance
21 standards. All new fire equipment will follow this development process and will
22 be tested and evaluated under actual field conditions prior to being made
23 available for general ordering.

24
25 **Standardization**

26 Standardization of fire equipment aids in the ability to produce equipment that
27 effectively meets the Bureau's mission by providing cost effective equipment
28 with the least impact on fire programs. Standardization also contributes to the
29 ability to provide effective, consistent, and quality training to the BLM Fire
30 Program workforce. The BLM National Fire Equipment Committee and Engine
31 Committee have the responsibility to establish and approve minimum
32 performance standards for all BLM-specific fire equipment.

33
34 **Fire Engine and Command Vehicle Identifier Standards**

35 Bureau of Land Management fire engine and command vehicle identifier
36 standards have been established by the national Fire Operations Group and can
37 be found at the BLM Fire Operations website.

38
39 **Deficiency Reporting**

40 The BLM Fire Equipment Improvement/Deficiency Reporting System is used to
41 collect improvement recommendations and deficiency reports for all BLM fire
42 equipment. The reporting system enables the BLM NFEP to build a
43 comprehensive database to document problems, identify trends, and establish
44 priorities for development and modification of new and existing equipment.

45

1 Field Offices submit reports for problems encountered with BLM fire
2 equipment. Reports may also be submitted for suggestions for improvement.
3 Submitted reports receive immediate attention and the submitter receives
4 verification of receipt. The NFEP will follow-up with the submitting Field
5 Office to correct the deficiency or work to incorporate the improvement
6 suggestion. The Improvement/Deficiency Reporting System can be found on
7 the BLM National Fire Equipment Program website, located within the BLM
8 Fire Operations website.

9

10 **Acquisition of Working Capital Fund Equipment**

11 The National Operations Center (NOC) located in Denver manages the Working
12 Capital Fund (WCF). Each class of vehicle has an established replacement
13 cycle based on miles or hours, vehicle replacement costs, and residual value.
14 The WCF acquires funds through Fixed Ownership and Use Rates determined
15 by the replacement cycle. At the end of the replacement cycle, adequate funds
16 to replace the vehicle are available. For new vehicle purchases, funds are
17 acquired/secured by the receiving unit and the new purchase is added to the
18 WCF. The NOC monitors vehicle usage and replacement cycles, and notifies
19 the NFEP when vehicles need to be replaced. The NFEP then coordinates with
20 the receiving unit to order the replacement vehicle. When the order is placed,
21 the NFEP works with the BLM Fleet Manager, the receiving unit, contracting,
22 and the vendor to fill the order.

23

24 **Funding**

25 Procurement of nonstandard equipment with fire management funds when
26 standard equipment is available must have written approval by the FAD
27 Division of Operations Chief and the State Fire Management Officer. Most fire
28 vehicles are funded through the WCF. Other types of fire equipment are funded
29 through the normal budget process at the state and local level. Specialized
30 equipment may be funded in a variety of ways including through the Fire and
31 Aviation Directorate, special project allocations, available mid or year end
32 funds, state or local funding, interagency agreement, or through the WCF.

33

34 **BLM Mobile Fire Equipment Ordering**

35 Ordering of BLM mobile fire equipment is completed through the NFEP at
36 NIFC. Available equipment is listed in the BLM Fire Equipment Ordering
37 System (FEOS) web page. Contact the National Fire Equipment Program for
38 additional information.

39

40 States have the authority to order their own equipment using WCF funds.
41 However, the BLM has established required equipment and performance
42 standards for new equipment. These standards have been established to reduce
43 excessive procurement costs, maintain common operational functions, and
44 provide a Bureau wide standard fire fleet.

45

1 If states order their own equipment using WCF funds, they must have approval
2 from the WCF Fleet Manager and State Fire Management Officer prior to
3 ordering.

4

5 **Equipment Modification/Retrofitting**

6 Any major retrofit, change, or addition to BLM fire equipment requires
7 submission of a proposal to the BLM National Fire Equipment Committee
8 (NFEC). The NFEC in conjunction with the BLM National Fire Equipment
9 Program will consider and approve/disapprove any such proposals. Minor
10 changes or add-ons may be approved through the NFEP.

11

12 **Property Transfer/Replacement**

13 Surplus, early turn-ins, and transfer fire vehicles may be transferred to another
14 unit for continued service with the approval of the State Fire Management
15 Officer and the WCF Manager. In these instances, the vehicle remains in the
16 same class, and the FOR and use rates will continue to be charged to the unit
17 acquiring the vehicle. Units may dispose of fire vehicles prior to the normal
18 replacement date. In these instances, no future replacement is automatically
19 provided and there is no accrued credit for the FOR collected on that unit prior
20 to disposal. Units acquiring this type of equipment continue payment of the
21 FOR and use rates.

22

23 **Conversions**

24 Offices requesting to convert replacement fire equipment to a different class of
25 equipment must follow and provide the following criteria and documentation:

- 26 • Proposed changes meet current and future preparedness requirements
27 identified in Resource/Land management Plans and Fire Management
28 Plans.
- 29 • Proposed changes result in an overall cost savings to the government
30 (replacement of 2 Type 6 engines for 1 Type 4 engine).

31 If any proposed changes in equipment result in additional overall costs to the
32 government, documentation must include:

- 33 • Increased production rates which may offset additional costs
- 34 • The requesting states availability of sufficient funds to cover additional
35 costs.

36

37 This documentation will require signature by the requesting State Director and
38 State FMO, the Operations Division Chief at BLM Fire & Aviation Directorate,
39 and the WCF Manager for final approval.

40

41 **Lights and Siren Response**

42

43 Responding to Bureau of Land Management (BLM) wildland fire incidents
44 normally does not warrant the use of emergency lights and siren to safely and
45 effectively perform the BLM mission. However, there may be rare or

- 1 extenuating circumstances when limited use of lights and sirens are appropriate
2 and necessary due to an immediate threat to life.
3
- 4 Those BLM state organizations that determine a lights and sirens response is
5 necessary to meet mission requirements must develop an operating plan that is
6 signed and approved by the State Director and forwarded to the Chief, Division
7 of Fire Operations, BLM Fire and Aviation. The operating plan must ensure the
8 following:
- 9 1. All vehicles (command, engines, etc.) will be properly marked, equipped, and
10 operated in accordance with state statutes, codes, permits, and BLM unit
11 requirements.
 - 12 2. Drivers will complete training in the proper use of lights and sirens response
13 in accordance with National Fire Protection Association (NFPA) 1451 and 1002
14 standards, as well as any state requirements.
 - 15 3. Drivers responding with lights and sirens will be minimally qualified as
16 engine operator.
 - 17 4. Lights and sirens will meet NFPA and state code requirements.
 - 18 5. Posted speed limits will be followed at all times, regardless of response type.
 - 19 6. Operators will stop or reduce speed as circumstances dictate prior to
20 proceeding through all intersections.
 - 21 7. Traffic light changing mechanisms (e.g., Opticons) will only be used under
22 formal written agreement with state and local governments. They will be used
23 only when they are necessary to create safe right-of-way through urban high-
24 traffic areas. All pertinent state and local statutes and procedures will be
25 adhered to.
 - 26 8. Authorization to respond with lights and sirens does not cross state lines. No
27 driver will be authorized by one state to operate with lights and sirens in another
28 state.

30 **BLM Firefighters**

32 **Introduction**

33 Firefighters operate within the Incident Command System (ICS), which is a
34 component of the National Interagency Incident Management System (NIIMS).
35 In the ICS, firefighters are either assigned as single resource overhead
36 (individuals assigned to specific supervisory or functional positions) or as
37 members of an organized unit. The individuals within these units are trained to
38 provide different levels and types of tactical, logistical, and managerial
39 capability.

40 These units include:

- 41 • **Hand Crews** - Vehicle mobile firefighters that specialize in the use of hand
42 tools, chainsaws, portable pumps, and ignition devices for tactical
43 operations. Hand crew types include Interagency Hotshot Crews (IHC)s,
44 Type 2 Initial Attack Crews, and Type 2 Crews.
- 45 • **Engine Crews** - Engine mobile firefighters that specialize in the use of
46 engines for tactical operations.

- 1 • **Helitack** - Helicopter mobile firefighters that specialize in the use of
2 helicopters for tactical and logistical operations.
3 • **Smokejumpers** - Fixed wing aircraft and parachute mobile firefighters that
4 specialize in the use hand tools, chainsaws, and ignition devices for tactical
5 operations.
6

7 **BLM Firefighter Priority for Use**

- 8 • Initial attack on lands for which the BLM has suppression responsibility.
9 • Other fire suppression/management assignments on BLM lands.
10 • Other fire suppression/management assignments on other agency lands.
11 • All Hazard - ESF#4 reference:
12 http://web.blm.gov/internal/fire/budget/Reference_docs/esf4/ESF4_page.htm
13 m
14

15 **Mobilization of BLM Firefighters**

16
17 BLM firefighters are mobilized to perform the following functions:

- 18 • Suppress fires and manage wildland fire incidents;
19 • Improve BLM initial attack capability;
20 • Maximize the utilization of limited BLM fire operational assets;
21 • Provide additional fire management capability in high tempo periods;
22 • Provide experience and developmental opportunities to BLM firefighters;
23 • Perform fire management project work or assignments; or
24 • Perform other project work or assignments.
25

26 There are five funding mechanisms for mobilizing BLM firefighters:

- 27 • Preparedness funding
28 • Suppression funding
29 • Short term severity (State/Regional Level Severity) funding
30 • National level severity funding
31 • National preposition funding
32

33 **Preparedness Funding**

34 Preparedness funding may be used to mobilize resources for normal
35 preparedness activities such as:

- 36 • Movement of resources within a unit not associated with fire activity;
37 • Detailing firefighters to fill vacant positions;
38 • Project work; and/or
39 • Training.
40

41 Fire managers have the authority to expend preparedness funding for
42 preparedness activities. Mobilization of non-BLM federal resources with BLM
43 preparedness funding requires a reimbursable agreement.
44
45

1 Suppression Funding

2 Suppression funding is used to mobilize resources to wildland fire incidents.
3 BLM firefighters are mobilized directly to incidents using established methods
4 (resource orders, initial attack agreements, dispatch plans, response plans, etc.)
5

6 Short Term Severity (State Level Severity)

7 Short term severity funding may be used to mobilize resources for state/regional
8 short term severity needs that are expected to last less than one week, such as:

- 9 • Wind events;
- 10 • Cold dry front passage;
- 11 • Lightning events; and/or
- 12 • Unexpected events such as off-road rallies or recreational gatherings.

13
14 Each state director and the Fire and Aviation division chiefs for Operations and
15 Aviation have been delegated the authority to expend up to \$300,000 for “short
16 term” severity needs per fiscal year. This discretionary severity authorization
17 can be expended for appropriate severity activities without approval from Fire
18 and Aviation. States will establish a process for requesting and approving short
19 term severity funds.
20

21 National Level Severity Funding

22 National level severity funding is used to mobilize resources to areas where:

- 23 • Preparedness plans indicate the need for additional
24 preparedness/suppression resources;
- 25 • Anticipated fire activity will exceed the capabilities of local resources.
- 26 • Fire season has either started earlier or lasted longer than identified in the
27 fire management plan; and/or
- 28 • An abnormal increase in fire potential or fire danger not planned for in
29 existing preparedness plans exists.
30

31 Guidance for requesting and utilizing national level severity funding is found in
32 Chapter 10 and on the BLM Fire Operations website. Requests should be
33 consolidated by state, coordinated with Fire and Aviation, and then submitted to
34 Fire and Aviation by the State Director. The official memo requesting funds
35 should be mailed to the Assistant Director, Fire and Aviation. An electronic
36 copy should also be e-mailed to “BLM_FA_Severity@blm.gov”.
37

38 Severity funding requests will be accepted and approved for a maximum of 30
39 days, regardless of the length of the authorization; use of severity funding must
40 be terminated when abnormal conditions no longer exist. If the fire severity
41 situation extends beyond the 30-day authorization, the state must prepare a new
42 severity request.
43

44 An approval memo from Fire and Aviation will list authorized resources along
45 with a cost string code for each state and field office to use for all resources. All

1 resources authorized through this process will be counted in the state's severity
2 authorization limit, including extension of exclusive use aircraft contracts.

3

4 In order to support the BLM national aviation strategy, which includes
5 prioritized allocation based on need, air resource mobility, and cost containment,
6 a state may be directed to release an air resource to another state. All charges
7 related to releasing an air resource will be covered by Fire and Aviation or the
8 receiving state.

9

10 **National Preposition Funding**

11 Units may request national preposition funding to acquire supplemental fire
12 operations assets. National preposition funding may be used to mobilize
13 resources when BLM units:

- 14 • Do not have available preparedness funding;
- 15 • Do not have available short-term severity funding; or
- 16 • Do not meet the criteria for use of national severity funding.

17

18 Approved national preposition funding may be used only for travel and per diem
19 costs for the duration of the assignment, and overtime labor costs associated
20 with the original preposition move.

21

- 22 • **National Preposition Request Process**
 - 23 ○ Unit FMO identifies need and notifies State FOG representative. FOG
24 rep informs SFMO.
 - 25 ○ FOG rep coordinates with unit FMO to verify need and determine asset
26 types, numbers, and projected preposition location.
 - 27 ○ Requesting FOG rep queries FOG group and identifies available assets.
 - 28 ○ Requesting and sending FOG reps jointly complete the BLM
29 Preposition Request Form found on the BLM Fire Operations website.
 - 30 ○ Requesting FOG rep will submit the request electronically via e-mail to
31 "BLM_FA_Prepositioning@blm.gov" to acquire Division of Fire
32 Operations (FA-300) approval. If aviation assets are requested, FA-300
33 will coordinate with the National Aviation Office (FA-500) and secure
34 FA-500 approval.
 - 35 ○ FA-300 will notify the requesting and sending FOG representatives via
36 e-mail when the request is approved.
 - 37 ○ After securing FA-300/500 approval, the requesting FOG rep places
38 name request order(s) for specified assets through normal coordination
39 system channels.
 - 40 ○ Responding BLM assets will be assigned to a temporary host unit by
41 the receiving FOG rep.
 - 42 ○ Responding assets, sending/receiving FOG reps, and the temporary
43 host unit will negotiate length of assignment and crew rotation, and
44 ensure that prepositioned personnel meet work/rest requirements.

45

- 1 BLM preposition funding request information can be found at the BLM Fire
2 Operations website.

3

4 **BLM Firefighters General Non-Fire Training Requirements**

	Training Required	Initial Requirement/Frequency
Agency Permanent, Career Seasonal, & Temporary Firefighters	Safety Orientation	Once
	Bloodborne Pathogens	Once: Awareness level. For employees not at increased risk (e.g. non-fireline support personnel) Annually: For employees at increased risk due to assigned duties (e.g. IHC, Helitack, SMJ, Engine Crew)
	Defensive Driving	Prior to operating motor vehicle for official purposes. Once every three years.
	First Aid/Cardiopulmonary Resuscitation (CPR)	Upon initial employment. Every 3 years or per certifying authority.
	HAZMAT - First Responder Awareness Level	Upon initial employment. Annually.
	Do What's Right/EEO	Annually.
	Training Required	Frequency
Administratively Determined (AD) and Emergency Firefighters (EFF)	Defensive Driving (If operating GOV, including rental or leased, vehicle for official purposes, prior to operating vehicle).	Once every three years.
	First Aid/Cardiopulmonary Resuscitation (CPR)	Upon initial employment. Every 3 years or per certifying authority. At least two persons per crew (GS or AD) shall be current and certified in First Aid/CPR

- 5 For a complete listing of safety & health training - refer to *BLM Manual*
6 *Handbook 1112-2, Safety and Health for Field Operations.*

7

8 **BLM Firefighter Mandatory Physical Fitness Standards**

- 9 The *Wildland Fire Qualifications System Guide* (PMS 310-1) establishes
10 physical fitness standards for NWCG sanctioned firefighters. These standards

1 are assessed using the Work Capacity Tests (WCT). Prior to attempting the
 2 WCT, all permanent, career-seasonal, temporary, Student Career Experience
 3 Program (SCEP), and AD/EFF employees who participate in wildland fire
 4 activities requiring a fitness level of arduous must participate in the DOI
 5 Medical Qualification Standards Program (DOI-MSP).
 6
 7 Employees serving in wildland fire positions that require a fitness rating of
 8 arduous as a condition of employment are authorized one hour of duty time each
 9 work day for physical fitness conditioning. Employees serving in positions that
 10 require a fitness rating of moderate or light may be authorized up to three hours
 11 per week.
 12
 13 Units will maintain a fitness program that ensures BLM firefighters will possess
 14 the physical ability to perform the duties of their positions safely and effectively
 15 while ensuring compliance with the requirements of the Work Capacity Test
 16 (WCT).
 17
 18 Information on the WCT and the DOI-MSP is located in Chapter 13 of this
 19 publication. Fitness and conditioning information may be found at
 20 www.nifc.gov/FireFit/index.htm

21
 22 **BLM Firefighter Target Physical Fitness Standards**

23 These are voluntary targets. They are not mandatory. These targets are
 24 established to provide BLM firefighters a common standard against which to
 25 gauge their physical fitness level. BLM firefighters are encouraged to meet or
 26 exceed these standards.

27

	Age 20-29	Age 30-39	Age 40-49	Age 50 & Up
1.5 Mile Run	11:58	12:25	13:05	14:43
Sit-Ups (1 minute)	40	36	31	26
Push-Ups (1 minute)	33	27	21	15

28
 29 The guide below may be used to adjust the 1.5 mile run times to compensate for
 30 altitude differences:

Altitude in feet	1.5 mile run time adjustment
0 - 5,000	No adjustment
5,000 - 6,000	Add 30 seconds
6,000 - 7,000	Add 40 seconds
7,000 - 8,000	Add 50 seconds

31
 32
 33

1 BLM National Fire Operations Fitness Challenge

2 The BLM national fire operations fitness challenge encourages and recognizes
3 achievement in physical fitness by BLM firefighters. The fitness challenge
4 provides a common system by which BLM firefighters can measure current
5 fitness, establish fitness goals, and track fitness improvement. The fitness
6 challenge is voluntary, but BLM firefighters are encouraged to participate. The
7 fitness challenge tests participants in four basic exercises - push-ups, pull-ups,
8 sit-ups and a timed run of either 1.5 or 3.0 miles. Test results are compiled into
9 a final overall score. Unit and state offices are encouraged to support and
10 recognize achievement in firefighter fitness. The BLM FA Division of Fire
11 Operations will recognize high achievers annually. Specific information on the
12 fitness challenge is located at:

13 www.blm.gov/nifc/st/en/prog/fire/fireops/fitness_challenge.html

14

15 Interagency Fire Program Management Standards

16 The BLM follows the *Interagency Fire Program Management Qualifications*
17 *Standards and Guide (IFPM Standard)*, January 2000. The IFPM Standard
18 does the following:

- 19 • Establishes minimum qualifications standards for 13 key fire management
20 positions. These standards include 1) basic requirements, 2) specialized
21 experience requirements, 3) NWCG incident management qualifications, 4)
22 additional required training.
- 23 • Provides a “complexity rating for program management” table, which is
24 used to determine overall complexity of the unit level fire program. This is
25 used because qualification standards for some of the 13 identified positions
26 are tied to fire program complexity.

27

28 State and unit level fire managers should consult human resources officials and
29 apply the IFPM Standard as appropriate. IFPM information is located at
30 <http://www.ifpm.nifc.gov>

31

32 Driver Training for Regular Drivers of Fire Equipment

33 All regular drivers of non-tactical water tenders, helicopter support vehicles,
34 crew carriers, and fuel tenders must complete training that includes the
35 instructional objectives posted at the BLM Fire Training website at:

36 http://www.blm.gov/nifc/st/en/prog/fire/training/fire_training.html

37

38 For the purposes of this policy, a regular driver is defined as an employee whose
39 duties include driving fire equipment on a regular basis. This may include
40 highway, off-road, city, mobile attack, and extreme terrain driving.

41

42 BLM Hand Crews

43

44 BLM Hand Crew Standards (all crew types)

- 45 • **Language** - CRWB and FFT1: must be able to read and interpret the
46 language of the crew as well as English.

- 1 • **Flight Weight** – 5300 pounds
- 2 • **Personal gear** - Sufficient for 14 day assignments
- 3 • **Physical fitness** - Arduous, all positions
- 4 • **Required Equipment & PPE** - Fully equipped as specified in the
- 5 *Interagency Standards for Fire and Fire Aviation Operations.*

6

7 **BLM Hand Crew Standards by Type**

Crew Type	Type 1	Type 2IA	Type 2
Crew Size	Minimum 18 Maximum 25	Minimum 18 Maximum 20	Minimum 18* Maximum 20
Leadership Qualifications	1-Supt. 1-Assist Supt 3 Squad Leaders	1 CRWB 3 ICT5	1 CRWB 3 FFT1
Incident Management Capability	Operate up to 3 independent squads w/ T4 and T5 command capability	Operate up to 3 independent squads with T5 command capability	Operate as single crew in full crew configuration
Crew Experience	80% of the crewmembers must have at least 1 season experience in fire suppression	60% of the crewmembers must have at least 1 season experience in fire suppression	20% of the crewmembers must have at least 1 season experience in fire suppression
Crew Utilization	National Shared Resource	Local unit control	Local unit control
Communication	7 programmable handheld radios. 1programmable mobile radio in each truck	4 programmable handheld radios	4 programmable handheld radios
Training	40 hours annual training prior to assignment.	40 hours Basic firefighter training or once red carded; 4 hours annual fireline fresher training prior to assignment.	40 hours Basic firefighter training or once red carded; 4 hours annual fireline fresher training prior to assignment.
Logistics	Squad level agency purchasing authority	Crew level agency purchasing authority	No purchasing authority
Transportation	Own transportation	Need transportation	Need transportation
Works together 40 hours/week	Yes	No	No

- 8 * As per the *Alaska Interagency Mobilization Guide*, for mobilization within
 9 Alaska, Type 2 EFF crews will consist of 16 personnel: one crew boss, a
 10 minimum of two squad bosses and the remainder to be crew members and/or
 11 trainees.

12

1 **BLM Interagency Hotshot Crews**

2 BLM IHCs are comprised of 18-25 firefighters and are used primarily for
3 wildfire suppression, fuels reduction, and other fire management duties. They
4 are capable of performing self-contained initial attack suppression operations,
5 and commonly provide incident management capability at the Type 3 or 4
6 levels. BLM IHCs meet all IHC standards stated in the *Standards for*
7 *Interagency Hotshot Crew Operations*.

8

9 **BLM IHC Locations**

State	Crew	Location
AK	Chena	Fairbanks
	Midnight Sun	
CA	Diamond Mountain	Susanville
	Kern Valley	Bakersfield
CO	Craig	Craig
ID	Snake River	Pocatello
MS	Jackson	Jackson
NV	Silver State	Carson City
NV	Ruby Mountain	Elko
OR	Vale	Vale
UT	Bonneville	Salt Lake City

10

11 **BLM IHC Annual Crew Mobilization**

12 BLM IHCs will comply with the Annual Crew Pre-Mobilization Process
13 outlined in the *Standards for Interagency Hotshot Crew Operations* before
14 becoming available for assignment each spring. BLM specific direction is
15 outlined below:

- 16 • The superintendent will complete an appendix C from the *Standards for*
17 *Interagency Hotshot Crew Operations* with their local FMO and agency
18 administrator.
- 19 • A copy of Appendix C will be sent to the BLM State Fire Management
20 Officer for approval.
 - 21 ○ The extent of the preparedness review required every 12 months by the
22 Appendix C is at the discretion of the State Fire Management Officer,
23 local Fire Management Officer, and Crew Superintendent.

24 The State Fire Management Officer will notify the appropriate Geographic Area
25 Coordination Center (GACC) of crew availability.

26

27 **BLM IHC Crew Status**

28 If a change in crew capabilities results in the inability to meet the standards
29 specified in the *National Interagency Hotshot Crew Operations Guide* or

1 *Standards for Fire and Fire Aviation Operations*, the superintendent is required
 2 to contact their local GACG and have the crew typing amended to the
 3 appropriate level as listed in the BLM crew typing chart.
 4
 5 Re-statusing the crew back to the IHC level will use either the Annual Crew Pre-
 6 Mobilization Process or the Crew Certification Process outlined in the *Standards*
 7 *for Interagency Hotshot Crew Operations*. The choice of which process will be
 8 at the discretion of the State Fire Management Officer, local Fire Management
 9 Officer, and Crew Superintendent.

10
 11 **BLM IHC Crew Size**

12 BLM IHCs have the option of traveling with 25 personnel when on incident
 13 assignments as authorized by the local unit. BLM IHC superintendents will
 14 obtain prior approval from the dispatching GACC when the assignment requires
 15 fixed wing transport and the crew size is greater than 20.

16
 17 **BLM IHC Status Reporting System**

- 18 • BLM IHCs will report status through the BLM IHC Status Reporting
 19 System.
- 20 • BLM IHC superintendents will regularly update the system by contacting
 21 the Great Basin SMKJ Duty Officer with any change in crew status and/or
 22 current utilization when on assignment.
- 23 • The Great Basin SMKJ Duty Officer is available 24 hours, seven days per
 24 week at:
 - 25 ○ 800-925-8307 (work hours)
 - 26 ○ 208-387-5426 (work hours)
 - 27 ○ 208-850-5144 (after hours)
- 28 • BLM IHC status will be posted at
 29 <http://www.nifc.gov/smokejumper/hotshotrpt.php>

30
 31 **BLM IHC Training and Qualification Requirements**

Role	NWCG Qualification	Fire Training
Firefighter	FFT2	I-100 Intro to ICS S-130 Firefighter Training S-190 Intro to Wildland Fire Behavior L-180 Human Factors on the Fireline
Senior Firefighter	FFT1	All the above plus: S-211 Portable Pumps and Water Use S-212 Chain Saws S-131 Firefighter Type 1 S-133 Look Up, Look Down, Look Around S-270 Basic Air Operations S-290 Intermediate Fire Behavior

Squad Boss	ICT5	All the above plus: I-200 Basic ICS S-215 Fire Ops in the WUI S-230 Crew Boss Single Resource S-234 Ignition Operations S-260 Incident Business Management L-280 Followership to Leadership
Assistant Superintendent	STCR ICT4	All the above plus: I-300 Intermediate ICS S-200 Initial Attack IC S-330 Task Force/Strike Team Leader S-390 Intro to Fire Behavior Calculations L-380 Fireline Leadership M-410 Facilitative Instructor or equivalent
Superintendent	TFLD ICT4 FIRB	All the above.

1

2 **BLM Engines**

3

4 BLM engines carry 2-6 firefighters and are used primarily for wildfire
5 suppression, fuels reduction, and other fire management duties. They are
6 capable of performing self-contained initial attack suppression operations, and
7 can generally provide single resource incident management capability up to the
8 Type 4 level.

9

10 **BLM Engine Ordering**

- 11 • BLM engines will status themselves with their local dispatch center in
12 accordance with local policy and procedure.
- 13 • Availability of BLM engines for off unit assignments rests with local unit
14 fire management.
- 15 • BLM units needing engines from off their own unit for support will contact
16 their state operations lead with a request.
- 17 • The state operations lead will contact the FA Division of Operations or
18 other BLM state office operations leads with the request.

19

20 **BLM Engine Typing**

21 BLM engines are typed according to interagency standards as established by
22 NWCG. See chapter 14 for engine typing standards.

23

24 **BLM Engine Minimum Staffing Requirements**

25 All BLM engines will meet these staffing standards on every fire response.

- 1 • BLM engines operating with 5 or more personnel will always have a fully
- 2 qualified ENOP (other than the Captain). The Captain must be qualified as
- 3 ICT4.
- 4 • BLM engines operating with 4 personnel will always have an FFT1 (other
- 5 than the Captain). The Captain must be qualified as ICT4.
- 6 • BLM Engines operating with 3 personnel must have a Captain qualified as
- 7 ICT5 or higher.
- 8 Chase vehicles are considered part of the engine staffing.
- 9

BLM WCF Vehicle Class	NWCG Type Class	Engine Captain	Engine Operator	Engine Crewmember
625 Unimog	4	1	1	1
626 Unimog	4	1	1	1
650 Hummer	6	1		1
662 Light	6	1		1
663 Light	6	1		1
664 Enhanced Light	6	1		1
665 Interface	3	1		2
667 Heavy Engine	4	1		2
668 Super-heavy Tactical Engine	4	1	1	1
668 Super-heavy Tactical Tender	2 (Tender)	1		1

10

11 **BLM Engine – Minimum Fire Training and Qualification Standards**

Role	IQCS	Training
Crewmember	FFT2	I-100 Intro to ICS, S-130 Firefighter Training, L-180 Human Factors on the Fireline, S-190 Intro to Wildland Fire Behavior
Engine Operator	FFT1 ENOP	All the above plus: BLM Engine Operator Course (ENOP), S-131 Firefighter Type 1, S-133 Look Up/Down/Around, S-211 Pumps and Water Use, S-212 Wildfire Power Saws, S-290 Intermediate Fire Behavior, L-280 Followership to Leadership
Engine Captain	ENGB ICT5	All the above plus: I-200 Basic ICS, S-200 Initial Attack Incident Commander, S-215 Fire Ops in the Wildland/Urban Interface, S-230 Crew Boss (Single Resource), S-231 Engine Boss (Single Resource), S-234 Ignition Operations, S-260 Incident Business Management, S-270 Basic Air Operations, S-290 Intermediate Fire Behavior

12

1 **BLM Engine - Driver Training and Qualification Requirements**

Role	Initial Training	Refresher Training
Crewmember	BLM Engine Driver Orientation (BL-300) and Defensive Driving	BLM Engine Driver Orientation (annual) ¹ and Defensive Driving (every 3 years)
Engine Operator and Engine Captain	BLM (ENOP)Engine Operator Course or equivalent and CDL Permit (GVW 26,000 or greater) and Defensive Driving	BLM Engine Driver Refresher (RT-301) (annual) and Defensive Driving (every 3 years)
WCF class 650 and 668 drivers	WCF class 650 and 668 driver and maintenance training ²	

2 ¹ S-216 Driving for the Fire Service or the BLM Engine Operator Course will
3 satisfy this refresher training requirement.

4 ² WCF class 650 and 668 driver and maintenance training will be conducted by
5 the FAD Division of Fire Operations National Fire Equipment Program
6 annually. Travel, per-diem, vehicle operating charges, and fuel costs directly
7 related to this training will be covered by the NFEP; base 8 salary and overtime
8 costs will be covered by the students' home unit. BLM engine training courses
9 can be found at the BLM Fire Training Website.

10

11 All hands-on components of engine driver training courses will be conducted on
12 the specific vehicle or vehicle type that the driver will be using.

13

14 Equivalent courses that satisfy driver training requirements, such as the National
15 Safety Council sanctioned Emergency Vehicle Operator Course (EVOC), will
16 be approved in writing by the Division Chief, Fire Operations, on a case-by-case
17 basis.

18

19 When staffing a BLM engine with an employee from another agency on a short-
20 term basis (i.e. detail, severity assignment, etc.), the qualification standards of
21 that agency will be accepted. These qualifications must meet PMS 310-1
22 requirements for the position that the detailed employee is serving in. Fire
23 management officers should consider requiring these employees to attain BLM
24 required training and qualifications for long-term details/assignments.

25

26 **BLM Engine Equipment Inventory**

27 BLM engines will be stocked as per the BLM National Engine Equipment
28 Inventory found at the BLM Fire Operations Website.

29

30

1 Fire Equipment Maintenance and Care Standards

2 BLM fire equipment will be maintained to reflect the highest standards in
3 performance and appearance. Equipment will be stored in sheltered areas away
4 from environmental elements whenever possible to prevent damage to critical
5 seals, mechanical components, and the high-visibility finish.

6
7 The Fire Engine Maintenance Procedure and Record (FEMPR) will be used to
8 document periodic maintenance on all engines. Apparatus safety and
9 operational inspections will be performed at the intervals recommended by the
10 manufacturer and on a daily and post-fire basis as required. All annual
11 inspections will include a pump gpm test to ensure the pump/plumbing system is
12 operating at or above the manufacturer's minimum rating for the pump. The
13 Fire Engine Maintenance Procedure and Record (FEMPR) shall be maintained
14 and archived to record historic engine maintenance for the duration of the
15 vehicle's service life. This historical data is beneficial in determining trends,
16 repair frequency, and repair costs. The FEMPR can be found at the BLM Fire
17 Operations website.

19 BLM Smokejumpers

20
21 BLM Smokejumpers operate in teams of 2-8 firefighters and are used primarily
22 for wildfire suppression, fuels reduction, and other fire management duties.
23 They are capable of performing self-contained initial attack suppression
24 operations, and commonly provide incident management capability at the Type
25 3 level. BLM Smokejumpers provide personnel to Type 1 and Type 2 incidents
26 as command and general staff or other miscellaneous single resource. The
27 primary locations of the BLM smokejumper bases are Boise, Idaho and
28 Fairbanks, Alaska.

30 BLM SMKJ Operations

31 BLM smokejumper operational and administrative procedures are located in the
32 *Interagency Smokejumper Operations Guide (ISMOG)*, the *BLM Ram-Air*
33 *Training Manual (RATM)*, the *Great Basin Smokejumpers User Guide*, *Alaska*
34 *Geographic Area Coordination Center Mob Guide*, and other pertinent
35 agreements and operating plans.

37 BLM SMKJ Coordination & Dispatch

38 Smokejumpers are a national shared resource and are ordered according to
39 geographic area or national mobilization guides. The operational unit for
40 Smokejumpers is "one load" (8-20 smokejumpers). Specific information on the
41 coordination, dispatch, ordering, and use of BLM smokejumpers can be found in
42 the *BLM Great Basin Smokejumpers User Guide*, and in the *Alaska Geographic*
43 *Area Coordination Center Mob Guide*. Contact BLM smokejumpers in Boise at
44 (208) 387-5426 or in Alaska at (907) 356-5540 for these publications.

45
46

1 **Malfunctions and Abnormality Reporting System (MARS)**

2 The Malfunction/Abnormality Reporting System (MARS) is a BLM system
3 used to report and document malfunctions and abnormalities associated with
4 BLM smokejumper parachute jumping, parachute equipment, and parachute
5 related aircraft operations. The MARS database is used by BLM smokejumper
6 management to analyze malfunctions and abnormalities, identify trends, and
7 initiate corrective actions.

8

9 **Interagency Smokejumper Mission Incident Reporting**

10 All smokejumper mission incidents are reported on the Interagency
11 Smokejumper Mission Incident Work Sheet, an interagency form used to rapidly
12 disseminate smokejumper incident information to all smokejumper bases.
13 Corrective actions, when interagency in nature, are coordinated through
14 established interagency smokejumper management processes.

15

16 **Investigations**

17 When BLM smokejumper incidents meet wildland fire accident and event
18 definitions stated in chapter 18 of this document, established processes will be
19 followed.

20

21 **BLM SMKJ Equipment**

22 BLM smokejumpers use aircraft approved by the interagency Smokejumper
23 Aircraft Screening and Evaluation Board (SASEB). All aviation operations will
24 be performed according to established agency policies and procedures. BLM
25 smokejumpers use the Smokejumper Ram-Air Parachute System exclusively.
26 All abnormalities in personnel parachute equipment and procedures will be
27 reported through the Malfunction and Abnormality Reporting System (MARS).

28

29 All parachuting operations will be performed according to established agency
30 policies and procedures. All modifications to and deviations from established
31 standards will be reported, documented, and approved through the BLM SMKJ
32 Modification Documentation (MODOC) process.

33

34 **BLM SMKJ Training**

35 To ensure proficiency and safety, smokejumpers complete annual training in
36 aviation, parachuting, fire suppression, administration, and safety. Experienced
37 jumpers receive annual refresher training in these areas. First year
38 smokejumpers undergo a rigorous four week long smokejumper training
39 program. Candidates are evaluated to determine:

- 40 • Level of physical fitness
- 41 • Ability to learn and perform smokejumper skills
- 42 • Ability to work as a team member
- 43 • Attitude
- 44 • Ability to think clearly and remain productive in a stressful environment

45

46

1 **BLM Smokejumper Training and Qualification Standards**

Position	IQCS Target	SMKJ Training Target
Dept Managers	T1 and T2 C&G	
Spotter	ICT3, DIVS, ATGS RXB2, SOFR	
Lead Smokejumper	STLD, TFLD	Senior Rigger, FOBS
Smokejumper	ICT4, CRWB, FIRB	FEMO
Rookie Smokejumper	ICT5, FFT1	

2

3 **BLM Smokejumper Physical Fitness Standards**

4 The national smokejumper physical fitness standards are mandatory. All BLM
5 smokejumpers must pass the national smokejumper physical fitness standards in
6 order to participate in smokejumper parachute training.

7

8 The BLM smokejumper physical fitness target standards are voluntary. The
9 target standards are established to provide BLM smokejumpers a common
10 standard against which to gauge their physical fitness level. BLM
11 smokejumpers are encouraged to meet or exceed these standards.

12

National SMKJ Standard	BLM SMKJ Target Standard
1.5 mile run in 11:00 minutes or less	(Three Options): A. 1.5 mile run in 9:30 minutes or less, or B. 3 mile run in 22:30 minutes or less, or C. 1.5 mile run in 11:00 minutes or less in combination with backpacking a 90-pound load for three miles in less than 45 minutes.
45 sit-ups	60 sit-ups
25 push-ups	35 push-ups
7 pull-ups	10 pull-ups
*Smokejumpers must pass a work performance standard for backpacking a 110 pound load three miles in less than 90 minutes	* Smokejumpers must pass a work performance standard for backpacking a 110 pound load three miles in less than 90 minutes

13 *This element is tested during Smokejumper Rookie Training.

14

15 Retesting

16 National smokejumper physical fitness retesting criteria closely follows similar
17 criteria for the Work Capacity Test stated in chapter 13 of this document.

18

19

- 1 Retesting criteria include:
- 2 • Returning BLM smokejumpers will be provided up to three opportunities to
 - 3 pass the national smokejumper physical fitness standards. Each retest will
 - 4 occur no sooner than 24 hours after failing the previous test, and will
 - 5 consist of **all** elements of the smokejumper physical fitness test.
 - 6 • BLM smokejumper candidates will be provided one opportunity to pass the
 - 7 national smokejumper physical fitness standards.
 - 8 • If an employee sustains an injury (verified by a licensed medical provider)
 - 9 during a test, the test will not count as an attempt. Once an injured
 - 10 employee has been released for full duty, the employee will be given time
 - 11 to prepare for the test (not to exceed 4 weeks).

13 **BLM Exclusive Use Helitack Crews**

14

15 The BLM contracts for the exclusive use of vendor supplied and supported

16 helicopters. These aviation resources are Type 2 (Medium) or Type 3 (light)

17 helicopters and are located at BLM Districts throughout the western United

18 States. Helitack Crews are assigned to manage each contracted helicopter and

19 perform suppression and support operations to accomplish fire and resource

20 management objectives.

21

22 Each contract specifies a Mandatory Availability Period (MAP) that the aircraft

23 will be assigned for the exclusive use of the BLM. The National Aviation

24 Office provides the funding to pay for the aircraft's availability costs.

25

26 The BLM host unit is responsible for providing a Helitack crew that meets the

27 minimum experience and qualification requirements specified in the Exclusive

28 Use Fire Helicopter Position Prerequisites in Chapter 16 of this document. Each

29 functional or supervisory level must have met the experience and qualification

30 requirements of the next lower functional level. The minimum daily staffing

31 level (7 day staffing) must meet the level indicated in the *Interagency Helicopter*

32 *Operations Guide (IHOG)* Chapter 2, Chart 2-4. The host unit is also

33 responsible for providing administrative support, and *Interagency Helicopter*

34 *Operations Guide (IHOG)* specified equipment, vehicles, and facilities for their

35 Helitack Crews and any other associated specialized equipment.

36

37 The following chart indicates **target** IQCS qualifications for BLM exclusive use

38 helitack crews. These targets are NOT required, but provide direction for

39 increased program capabilities. This chart does not replace the minimum

40 requirements specified in chapter 16.

41

42

43

44

45

46

1 **Target (Desired) Exclusive Use Helitack Crew Qualifications &**
 2 **Composition**

Role	Target IQCS Qualifications	Target Training
Fire Helicopter Crew Supervisor	ICT3 or DIVS, HEB1, PLDO, HLCO, ASGS	S-300 or S-339, S-378, L-381, S-375
Assistant Fire Helicopter Crew Supervisor	TFLD, HEB2, PLDO	S-215, S-330, S-390, S-371, L-380
Fire Helicopter Squad Boss	ICT4, HMGB	S-200, S-230, S-290, M-410, S-230
Helicopter Senior Crew Member	ICT5, HMGB(T)	S-372, L-280
Helicopter Crew Member	FFT1, HECM	S-131, S-133

3
 4 **Sage Grouse Conservation Related to Wildland Fire and Fuels**
 5 **Management**

6
 7 The Gunnison sage-grouse and greater sage-grouse have been designated as
 8 sensitive species by the Bureau. These sensitive species are managed to
 9 promote their conservation and to minimize the need for listing under the
 10 Endangered Species Act in accordance with the BLM's special status species
 11 policy (BLM Manual 6840). Fire and fuels management functions will
 12 contribute to this conservation through planning, utilization of sage-grouse maps
 13 and data, and applying best management practices. While protecting sage-
 14 grouse habitats and populations is critical, firefighter and public safety remain
 15 our highest priorities.

16
 17 **Wildland Fire Operations**

18 The BLM will strive to maintain a high initial attack success rate while being
 19 cognizant of sage-grouse habitats by:

- 20 • Utilizing available maps and spatial data depicting sage-grouse habitats
 21 during suppression activities;
- 22 • Using predictive services to prioritize and preposition firefighting resources
 23 in critical habitat areas;
- 24 • Improving firefighter awareness of the importance of sagebrush habitat;
- 25 • Continuing the use of resource advisors familiar with local sage-grouse
 26 habitat and management practices during initial and extended attack;
- 27 • Emphasizing habitat conservation during resource allocation decisions, such
 28 as in local and geographic area multi-agency coordination group meetings;
 29 and
- 30 • Applying local, state, and national-level best management practices.

31
 32 **Fuels Management**

33 The fuels treatment prioritization process will address sage-grouse habitat
 34 conservation in project design, treatment location, and documentation. Fire

1 program managers will utilize local toolboxes, national resources, and fuels
2 management best practices for sage-grouse conservation to identify, enhance,
3 and conserve sage-grouse habitats. Fuels management objectives may include
4 protecting existing habitat, modifying fire behavior in sage grouse habitat, native
5 plant restoration, and creating landscape vegetation patterns which enhance
6 sage-grouse habitat. Sage-grouse objectives from land use and fire management
7 plans will be used as a framework for fuels project design. States may elect to
8 issue detailed criteria regarding patch sizes, cover requirements, or other habitat
9 parameters in fuels project design.

10

11 Fire and fuels management best management practices for sage-grouse
12 conservation can be located at the BLM Fire Planning and Fuels Management
13 website at <http://web.blm.gov/internal/fire/fpfm/index.html>

14

15 **BLM Use of WFDSS**

16

17 In addition to WFDSS guidance in Chapter 11, the BLM has established the
18 following additional policy requirements for the WFDSS:

- 19 • Input of initial attack fires into the WFDSS is optional. All fires which
20 escape initial attack or are being managed for multiple objectives will be
21 input into the WFDSS and a decision will be published.
- 22 • The BLM Agency Administrators will serve as Approvers of WFDSS
23 decisions, regardless of fire costs. The BLM Agency Administrators must
24 meet fire training requirements for Agency Administrators as specified in
25 this chapter.
- 26 • Use of the web-based WFDSS application is required. If internet
27 connections or servers are unavailable, WFDSS documentation will be
28 completed using the “temporary WFDSS paper form” and entered into the
29 web-based application as soon as it becomes available.
- 30 • Minimum WFDSS documentation requirements are available at the BLM
31 Fire Operations Website.
- 32 • State and field units will ensure that WFDSS Strategic Objectives and
33 Management Requirements reflect guidance contained in current Fire
34 Management Plans and Resource Management Plans.
- 35 • Unit-level shape files which define locally relevant data such as habitats,
36 infrastructure, or other features important to fire management decisions will
37 be uploaded into the WFDSS, at the discretion of local fire managers.
- 38 • State and field units will ensure that Agency Administrators, Line Officers,
39 and appropriate staff have WFDSS user profiles established in order to
40 complete assigned WFDSS tasks.
- 41 • State WFDSS points-of-contact will convey Agency Administrator
42 responsibilities in pre-season training. As approvers of WFDSS decisions,
43 Agency Administrators will ensure that periodic assessments are completed
44 until the fire is declared out.

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Chapter 03

National Park Service Program Organization & Responsibilities

This chapter summarizes specific requirements for NPS fire management programs. Fire managers should consult DO-18 Wildland Fire and RM-18 Wildland Fire for full guidance and descriptions of requirements summarized in this chapter. If there is a discrepancy between guidance found in this document and DO or RM-18, information contained herein will be considered authoritative as updates occur on a more frequent cycle than either the DO or RM.

Agency Administrator Roles

Director

The Director of the National Park Service is responsible to the Secretary of the Interior for fire management programs on public lands administered by the National Park Service. The Division of Fire and Fire Aviation Management is responsible to the Director for policy formulation and program oversight.

The Chief, Division of Fire and Aviation Management will meet the required elements outlined in the *Management Performance Requirements for Fire Operations*.

Regional Director

The Regional Director is responsible to the Director for fire management programs and activities within their region.

The Regional Director will meet the required elements outlined in the *Management Performance Requirements for Fire Operations* and ensure training is completed to support delegations to line managers and principal actings.

Park Superintendent

The Park Superintendent is responsible to the Regional Director for the safe and efficient implementation of fire management activities within their unit, including cooperative activities with other agencies or landowners in accordance with delegations of authorities. The Park Superintendent or principal acting will meet the required elements outlined in the *Management Performance Requirements for Fire Operations*.

1 **Agency Administrator Management Performance Requirements for Fire**
 2 **Operations**
 3

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
1. Take necessary and prudent actions to ensure firefighter and public safety.	X	X	X
2. Ensure sufficient qualified fire and non-fire personnel are available to support fire operations at a level commensurate with the local and national fire situations.	X	X	X
3. Ensure Fire Management Officers (FMOs) are fully qualified as identified in the <i>Interagency Fire Program Management Qualification Standards</i> .	X	X	X
4. Provide a written Delegation of Authority (DOA) on an annual basis to individual(s) responsible for wildland fire management activities to ensure an adequate level of operational authority. Depending on park organizational structure, written delegations may be provided to the Chief Ranger, Natural Resource Specialist, FMO, designated Fire Coordinator, Park Group FMO, or to individuals from neighboring fire management organizations, provided a written agreement or memorandum of understanding is in-place. Where applicable, an Inter-park Agreement that specifies the reciprocal responsibilities of the Superintendent and Park Group FMO will be prepared. This Inter-park Agreement will be accompanied by an annual delegation of authority. Both the DOA and Inter-Park Agreement will remain valid until rescinded by either party, updates are needed, or personnel changes necessitate a revision and update. As appropriate, the DOA will specify multi-agency coordination (MAC) group authorities.	X	X	X

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
5. Ensure applicable park resource management objectives are included in Fire Management Plan (FMP). Ensure FMP receives an interdisciplinary annual review and is validated and appropriately updated on an annual basis in advance of the fire season. A comprehensive and interdisciplinary review of the FMP should be completed every 5 years (RM 19, Chapter 4). Copies of the park's signed annual FMP Review and Update template (RM-18, Chapter 4, Exhibit 2) or packet, will be sent to the Regional FMO and to the FMPC in Boise.			X
6. Review and approve wildland fire preparedness funding based on and accurate and defensible readiness analysis. Review and approve fuels management funding requests.	X	X	X
7. Develop fire management standards and constraints that are in compliance with agency fire policies.		X	X
8. Ensure compliance with the collection, storing, and aggregation of Wildland Fire Program Core geospatial data (http://share.nps.gov/firegis).			X
9. Ensure use of fire funds is in compliance with Department and Agency policies.	X	X	X
10. Management teams will meet once a year to review fire and aviation policies, roles, responsibilities, and delegations of authority. Specifically address oversight and management controls, critical safety issues and high-risk situations such as team transfers of command, periods of multiple fire activity and Red Flag Warnings.	X	X	X

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
11. Review safety policies, procedures, and concerns with field fire and fire aviation personnel. Discussions should include issues that could compromise safety and effectiveness during the upcoming season.			X
12. Ensure timely follow-up actions to program reviews, fire preparedness reviews, fire and fire aviation safety reviews, fire critiques and post-season reviews.	X	X	X
13. Ensure fire and fire aviation preparedness reviews are conducted in all units each year. Parks must complete checklists applicable to their specific program scope and complexity and include appropriate program elements, such as prescribed fire. A summary of the preparedness review findings including standards exceeded or needing improvement will be submitted to the Regional FMO before the fire season.		X	X
14. Ensure an approved burn plan is followed for each prescribed fire project, including technical review and Go/No Go checklists are completed, follow-up monitoring and documentation to ensure management objectives are met.		X	X
15. Meet annually with major cooperators and review interagency agreements to ensure their continued effectiveness and efficiency (may be delegated).		X	X
16. Ensure post fire reviews are conducted on all fires that escape initial attack or are managed as long term incidents. Participate in all reviews that require management by any type of Incident Management Team (Regional Director may delegate).		X	X

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
17. Provide management oversight by personally visiting wildland and prescribed fires each year.			X
18. Provide incident management objectives, written delegations of authority and Agency Administrator briefings to Incident Management Teams.			X
19. Monitor wildfire potential and provide oversight during periods of critical fire activity/situations.	X	X	X
20. Evaluate the need for resource advisors for all fires and assign as appropriate.			X
21. Convene and participate in annual pre- and post-season fire meetings.	X	X	X
22. Attend <i>Fire Management Leadership Course</i> .		X	X
23. Ensure appropriate investigations are conducted for accidents (as defined in Chapter 18), entrapments, shelter deployments, and related events.	X	X	X
24. For all unplanned human-caused fires where liability can be determined, ensure actions are initiated to recover cost of suppression activities, land rehabilitation, and damages to the resource and improvements.		X	X
25. Ensure the development of Published Decisions within WFDSS with local unit staff specialists for all fires that escape initial attack.	X	X	X
26. Ensure there is adequate direction in fire management plans to identify fire danger awareness with escalating fire potential.			X

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
27. Ensure compliance with Departmental and agency policy, as well as Regional Office-direction for prescribed fire activities and ensure that periodic reviews and inspections of the prescribed fire program are completed.	X	X	X
28. Review prescribed fire plans and recommend or approve the plans depending upon the delegated authority. Ensure that the prescribed fire plan has been reviewed and recommended by a qualified technical reviewer who was not involved in the plan preparation.			X
29. At National Preparedness Level 4 and 5, approve the initiation or continuation of prescribed fire applications based on an assessment of risk, impacts of the proposed actions on area resources and activities and include feedback from the Geographic Area Multi-Agency Coordinating Group.		X	

1

2 **Fire Management Staff Roles**

3

4 **National Office**

5 The Chief, Division of Fire and Aviation (FAM Chief), NPS-NIFC, is
6 responsible and accountable for developing policy, program direction and
7 international coordination. The FAM Chief, along with the Branch Chiefs for
8 Wildland Fire and Aviation, work with interagency cooperators to coordinate,
9 reduce duplication, increase efficiencies in wildland fire management and
10 aviation, and provide feedback to regional offices on performance requirements.

11

12 **Regional Office**

13 The Regional Fire Management Officer (RFMO) provides leadership for their
14 fire and fire aviation management program. The RFMO is responsible and
15 accountable for providing planning, coordination, training, technical guidance
16 and oversight to the park fire management programs. The RFMO also
17 represents the Regional Director on interagency geographic coordination groups
18 and Multi-Agency Coordination (MAC) Groups. The RFMO provides feedback
19 to units on performance requirements.

20

21

- 1 **Park**
- 2 The Fire Management Officer (FMO) is responsible and accountable for
- 3 providing leadership for fire and fire aviation management programs at the local
- 4 level. The FMO determines program requirements to implement land use
- 5 decisions through the Fire Management Plan (FMP) to meet land management
- 6 objectives. The FMO negotiates interagency agreements
- 7 (contracting/agreements officer must review and process agreement) and
- 8 represents the Agency Administrator on local interagency fire and fire aviation
- 9 groups.
- 10
- 11 The Superintendent annually shall provide and update the expectations of
- 12 wildland fire program leaders by means of two instruments. One is a limited
- 13 Delegation of Authority (DOA) that encompasses the scope of duties outlined
- 14 above. The other is an Inter-park Agreement for those cases where a Park
- 15 Group FMO (or designee) handles defined duties on behalf of another NPS unit
- 16 within the defined Park Group.
- 17

Fire Management Staff Performance Requirements for Fire Operations

PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
1. Maintain safety first as the foundation for all aspects of fire and fire aviation management.	X	X	X
2. Ensure completion of a job hazard analysis (JHA) for fire and fire aviation activities so mitigation measures are taken to reduce risk.			X
3. Ensure work/rest and length of assignment guidelines are followed during all fire and fire aviation activities. Deviations must be approved and documented.	X	X	X
4. Ensure that only trained and qualified personnel are assigned to fire and fire aviation duties.	X	X	X
5. Develop, implement, evaluate and document fire and fire aviation training programs to meet current and anticipated needs.	X	X	X

PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
6. Establish an effective process to gather, evaluate, and communicate information to managers, supervisors, and employees. Ensure clear and concise communications are maintained at all levels.	X	X	X
7. Develop and maintain an open line of communication with the public and cooperators.	X	X	X
8. Ensure that the fire and fire aviation management staff understand their role, responsibilities, authority, and accountability.	X	X	X
9. Organize, train, equip, and direct a qualified work force. Establish "red card" certification/qualification process at the local level. Individual Development Plans (IDP) should be developed for all employees, but special emphasis must be on employees that do not meet standards.	X	X	X
10. Ensure fire and fire aviation policies are understood, followed, and coordinated with other agencies as appropriate.	X	X	X
11. Recognize when complexity levels exceed program capabilities. Increase administrative, managerial, and operational resources to meet the need.	X	X	X
12. Initiate, conduct and participate in fire management related reviews and investigations, including converted prescribed fires.	X	X	X
13. Provide for and personally participate in periodic site visits to individual incidents and projects.	X	X	X

PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
14. Utilize the incident complexity analysis to ensure the proper level of management is assigned to all incidents.		X	X
15. Review and evaluate performance of the fire management organization and take appropriate actions.	X	X	X
16. Ensure incoming personnel and crews are briefed prior to fire and fire aviation assignments.		X	X
17. Ensure the development of Published Decisions within WFDSS with local unit staff specialists for all fires that escape initial attack and within limitations contained within the Park's FMP.		X	X
18. Monitor fire season severity predictions, fire behavior, and fire activity levels. Take actions to ensure safe, efficient, and effective operations.	X	X	X
19. Provide fire personnel with adequate guidance and decision-making authority to ensure timely decisions.		X	X
20. Ensure a written/approved plan based on current land use and/or fire management plans and/or project-level NEPA document exists for each prescribed fire or non-fire treatment. Plans shall be integrated with related vegetation management actions such as invasive species management.			X
21. Ensure effective transfer of command of incident management occurs and oversight is in place.	X	X	X
22. Develop and maintain agreements, annual operating plans, and contracts on an interagency basis to increase effectiveness and efficiencies.	X	X	X

PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
23. Provide the expertise and skills to fully integrate fire and fire aviation management into interdisciplinary planning efforts.	X	X	X
24. Work with cooperators to identify processes and procedures for providing fire safe communities.	X	X	X
25. Develop, maintain, and annually evaluate the FMP to ensure accuracy and validity by completing a review. Ensure applicable park resource management objectives are included in the Fire Management Plan (FMP).		X	X
26. Ensure budget requests and allocations reflect analyzed anticipated workload.	X	X	X
27. Develop and maintain current operational plans, e.g., dispatch, pre-attack, prevention.	X	X	X
28. Ensure that reports and records are properly completed and maintained.	X	X	X
29. Ensure Wildland Fire Program Core spatial data is collected, stored, and aggregated based on NPS standards (http://share.nps.gov/firegis).		X	X
30. Ensure fiscal responsibility and accountability in planning and expenditures.	X	X	X
31. Assess, identify, and implement program actions that effectively reduce unwanted wildland fire ignitions and mitigate risks to life, property and resources. Utilize safe, effective, and efficient management.		X	X
32. Effectively communicate the role of wildland fire to internal and external agency audiences.	X	X	X

PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
33. Complete trespass actions when unplanned human-caused ignitions occur.		X	X
34. Ensure compliance with National and Regional policy and direction for prescribed fire activities and ensure that periodic reviews and inspections of the prescribed fire program are completed.	X	X	X
35. Ensure all fire management actions and activities are consistent with those contained in the current Fire Management Plan and associated environmental compliance documentation.			X

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Requirements for Fire Management Positions

All NPS employees assigned dedicated fire management program responsibilities at the park, regional or national level shall meet established interagency and NPS competencies (knowledge, skills, and abilities) and associated qualifications.

All NPS employees assigned to wildland fire management incidents will meet the training and qualification standards set by the National Wildfire Coordinating Group.

Refer to Chapter 13 of the *Interagency Standards for Fire and Fire Aviation Operations* for specific requirements.

All wildland fires will be managed by an individual qualified and certified at the command level appropriate to the complexity level of the incident.

The qualification standards identified in the *Interagency Fire Program Management Qualifications Standards* will be required, in conjunction with specific agency requirements, when filling vacant fire program positions and as an aid in developing Individual Development Plans (IDPs) for employees.

Training

Training for Park Superintendents

The following training is required for park superintendents.

- Fire Management Leadership

Release Date: January 2012

1 The national course is the preferred alternative to the regionally-sponsored
 2 course. The training should be completed within two years of appointment to a
 3 designated management position.

4
 5 **Training for Fire Management Officers**

6 The following training is required for fire management officers.

- 7 • Fire Program Management (M-581).
- 8 • M-3 Aviation Management for Supervisors (every 3 years).

9
 10 **NPS Firefighters General Training Requirements**

	One-Time Training	Recurring Training	Annual Training
All Firefighters	Hazardous Materials-First Responder Awareness Level Aviation B3:Helicopter/Airplane Safety–classroom IS-700:National Incident Management System (NIMS), an Introduction**	First Aid/CPR, every 2 years. Defensive Driving every 3 years. Aviation B3 (on-line), every three years.	RT-130 Annual Fireline Safety Training EEO, Discrimination & Whistleblowing in the Workplace (on-line) * HazWOPR Refresher (on-line@DOILearn) Blood borne Pathogen (on-line)

11 *Training is not required for AD positions.

12 **For all other required NIMS training, see PMS 310-1. It is strongly
 13 recommended all NPS Wildland Fire personnel complete IS-800 to gain an
 14 introduction to the National Response Framework (NRF).

15
 16 **Structural Fire and Hazardous Materials Response**

17
 18 **Structural Fire Response Requirements (Including Vehicle, Trash, and
 19 Dumpster Fires)**

20 In order to protect the health and safety of National Park Service personnel, no
 21 employee shall be directed, or dispatched (including self-dispatching) to the
 22 suppression of structural fires, including vehicle fires, unless they are provided
 23 with the required personnel protective equipment, firefighting equipment and
 24 training. All employees must meet or exceed the standards and regulations
 25 identified in Director’s Order and Reference Manual #58, Structural Fire.

26

1 Vehicle, trash, and dumpster fires contain a high level of toxic emissions and
2 must be treated with the same caution that structural fires are treated.
3 Firefighters must be outfitted with NFPA compliant structural fire personnel
4 protective clothing, including self-contained breathing apparatus. Situations
5 exist during the incipient phase of a vehicle fire where the fire can be quickly
6 suppressed with the discharge of a handheld fire extinguisher. Discharging a
7 handheld fire extinguisher during this phase of the fire will normally be
8 considered an appropriate action. If the fire has gone beyond the incipient stage,
9 employees are to protect the scene and request the appropriate suppression
10 resources.

11

12 **Hazardous Materials Response**

13 Hazardous material response or control is not a functional responsibility of
14 wildland fire suppression resources. These incidents have tremendous potential
15 to cause significant health and life safety issues. In order to protect the health
16 and safety of NPS personnel, no employee shall be directed, or dispatched
17 (including self dispatching) to an incident involving hazardous materials unless
18 they are provided with the required personnel protective equipment and the
19 appropriate certification level. NPS personnel on incidents involving hazardous
20 material will limit their actions to those emergency services necessary for the
21 immediate protection of themselves and the public and the prompt notification
22 of appropriate public safety agencies. All wildland firefighters who are likely to
23 witness or discover hazardous substances are required to complete the agency's
24 First Responder Awareness (Level I) program, requiring 4-8 hours of initial
25 training and an additional 4 hours of refresher training annually.

26

27 **Delegation of Authority**

28

29 **Delegation for Regional Fire Management Officers**

30 In order to effectively perform their duties, the RFMO must have certain
31 authorities delegated from the Regional Director. The delegation of authority
32 should include the following roles and responsibilities:

- 33 • Serves as the Regional Director's authorized representative on Geographic
34 Area Coordination Groups, including MAC groups.
- 35 • Coordinate and establish priorities on uncommitted fire suppression
36 resources during periods of shortages.
- 37 • Coordinate wildland fire planning, response, and evaluation region-wide.
- 38 • Relocate agency pre-suppression/suppression resources within the region
39 based on fire potential/activity.
- 40 • Correct unsafe fire suppression activities.
- 41 • Direct accelerated, aggressive initial attack when appropriate.
- 42 • Develop and maintain agreements to provide for the management, fiscal and
43 operational functions of combined agency operated facilities.
- 44 • Suspend prescribed fire activities when warranted.

- 1 • Give authorization to hire Emergency Firefighters in accordance with the
- 2 DOI Pay Plan for Emergency Workers.
- 3 • Approve emergency fire severity funding expenditures not to exceed the
- 4 Regional annual authority.

6 **NPS Duty Officer (DO)**

7
8 All Fire Management Officers are responsible to provide DO coverage during
9 any period of predicted incident activities. DO's responsibilities may be
10 performed by any individual with a signed Delegation of Authority from the
11 local agency administrator. The required duties for all DOs are:

- 12 • Monitor unit incident activities for compliance with NPS safety policies.
- 13 • Coordinate and set priorities for unit suppression actions and resource
- 14 allocation.
- 15 • Keep Agency Administrators, suppression resources and Information
- 16 Officers informed of the current and expected situation.
- 17 • Plan for and implement actions required for future needs.
- 18 • Document all decisions and actions.

19
20 DOs will provide operational oversight of these requirements as well as any
21 specific duties assigned by fire managers through the fire operating plan. DOs
22 will not fill any ICS incident command functions connected to any incident. In
23 the event that the DO is required to accept an incident assignment, the FMO will
24 ensure that another authorized DO is in place prior to the departure of the
25 outgoing DO.

27 **Engine Operating Standards**

28
29 Current direction on the NPS Fire and Aviation vehicle program is at the NPS
30 Fire Operations Sharepoint site:

31 <http://npsfamshare/wildlandfire/operations/fleetandfacilities/default.aspx>

33 **Vehicle Color and Marking**

34 Vehicles dedicated to wildland fire activities shall be white in color and have a
35 single four-inch wide red reflective stripe placed according to NFPA 1906
36 (NFPA 1906 8.8.3, 2006 edition). The word "FIRE" red with white background
37 color will be clearly visible on all four sides of the vehicle. The NPS
38 Arrowhead will be placed on the front doors. The size and placement of the
39 Arrowhead will be as specified in RM-9. An identifier will be placed on the
40 vehicle according to local zone or GACC directions. Roof numbers will be
41 placed according to local zone procedures.

43 **Engine Staffing Standards**

44 If no ENGB is assigned, then the apparatus is designated as a Patrol or
45 Prevention vehicle, not as an Engine.

Engine Type	Recommended Daily Staffing†	WCF Mandatory Staffing During Defined Season	Minimum 410-1 Standards	Min Quals, out-of-park Response	Min Quals, In-park Response
3	5*	4*	3	ENGB, 2-FFT2	ENGB, 2-FFT2
4	5*	4*	2	ENGB, 2-FFT2	ENGB, FFT2
5	5*	4*	2	ENGB, 2-FFT2	ENGB, FFT2
6	3	3	2	ENGB, 2-FFT2	ENOP**, FFT2
7	3	2	2	ENGB, FFT2	See Below ***

1 † Recommended when status is available, but must at least meet minimum 410-
2 1 standards for off-park assignments.

3 * Engines staffed with more than 3 will always have a qualified engine operator
4 (ENOP) in addition to an ENGB

5 ** ENOP must also be qualified as ICT5

6 *** Determined by Park Superintendent and/or FMO, minimum FFT2

7
8 ENOP is an agency specific qualification. To add this position to an employee
9 in IQCS, use the NPS00 SetID.

10
11 NPS ENOP Prerequisites: FFT1, L-280, RT130, FITCAT, ENOP PTB
12 ENOP PTB can be found at: <http://www.nwcg.gov/pms/taskbook/taskbook.htm>

13
14 **Lights and Siren Response**

15
16 Responding to wildland fire incidents normally does not warrant the use of
17 emergency lights and siren on public roads by calling for or blocking the right-
18 of-way from other traffic in order to safely and effectively perform the NPS
19 mission. However, there may be rare and extenuating circumstances when
20 limited use of emergency lights and siren is appropriate and necessary due to an
21 immediate threat to life.

22
23 Those units that determine an emergency lights-and-siren response on public
24 roads is necessary to meet mission requirements must develop an operating plan
25 that ensures the following:

- 26 1. All vehicles (command, engines, etc.) will be properly marked, equipped, and
27 operated in accordance with state statutes, codes, permits and NPS requirements.
- 28 2. Drivers will complete training in the proper use of lights and siren response in
29 accordance with National Fire Protection Association (NFPA) 1451 Standard for
30 a Fire Service Operations Training Program and 1002 Standard for Fire

- 1 Apparatus Operator/Driver Professional Qualifications, as well as any state
- 2 requirements.
- 3 3. Drivers responding with emergency lights and sirens will be minimally
- 4 qualified as engine operator.
- 5 4. Lights and sirens will meet NFPA and state code requirements.
- 6 5. Posted speed limits will be followed at all times, regardless of response type.
- 7 6. Drivers will stop at all controlled intersections (sign, light, traffic officer)
- 8 before proceeding; drivers will stop or reduce speed as circumstances dictate
- 9 prior to proceeding through any uncontrolled intersections.
- 10 7. Traffic light changing mechanisms (e.g., Opticons) will only be used under
- 11 formal written agreement with state and local governments. They will be used
- 12 only when they are necessary to create safe right-of-way through urban high-
- 13 traffic areas. All pertinent state and local statutes and procedures will be
- 14 adhered to.

15

16 **Vehicle Repairs and Maintenance**

17 The cost of all vehicle repairs and maintenance is the responsibility of the
18 individual parks unless the damage is directly attributable to operations on a
19 wildfire. In that case, with approval from the IC, the damages may be paid for
20 under the fire's suppression account. Daily preventative maintenance checks,
21 regular servicing, and prompt repairs are critical to providing mission readiness,
22 performance, and safe operation. Annual required maintenance servicing and
23 monthly preventative maintenance checks will be conducted and documented.
24 Wildland fire vehicles that are not operationally sound or have safety
25 deficiencies must not be put into service. In addition, vehicles that suffer from
26 mechanical or safety issues while enroute or on assignment must be taken out of
27 service at the earliest opportunity in which it is safe to do so and must not be put
28 back into service until corrective action can be completed.

29

30 **Fixed Ownership Rates (FORs)**

31 FORs are fees that are paid into the WCF annually for each vehicle in the
32 program. These fees continue to accumulate over the life of a vehicle and are
33 used to replace the vehicle at the end of its life cycle. The FOR is adjusted
34 annually by the WCF manager to reflect changes in input parameters.

35

36 **Equipment Bulletins and Equipment Alerts**

37

38 The NPS mirrors the Bureau of Land Management (BLM) two-level Equipment
39 Bulletin (EB) and Equipment Alert (EA) System. The purpose of the system is
40 to share accurate and timely information regarding potential equipment
41 problems and/or needed repairs. The EB is primarily intended to inform the
42 equipment users of recommendations for repairs, potential hazards, or general
43 information related to the overall maintenance, awareness, and safe operation of
44 fire equipment. The EA is time sensitive and addresses potentially serious
45 hazards or risks. The alert includes a specific action that the user must act upon.

1 Unexpected issues involving wildland fire vehicles which do not fall under other
2 types of wildland fire reviews and investigations and/or other applicable federal,
3 state or specific agency requirements must be reported via an electronic form
4 located in the PDS fleet tab. If an unexpected vehicle issue warrants a EB or EA
5 it is issued by the National Fire Equipment Program Manager through the
6 Operations Advisory Team and the Capital Equipment Committee. Members of
7 these groups must ensure the information reaches all levels of the organization.

9 **Annual Safety Inspections, Scheduled Maintenance, and Daily Inspections**

10 It is required to complete and document annual safety inspections, regularly
11 scheduled preventative maintenance and daily (or pre-trip) inspections for all
12 NPS wildland fire vehicles. Annual safety inspections must be documented on
13 Form 1520-35 and uploaded into PDS. Regularly scheduled preventative
14 maintenance, unscheduled maintenance and repairs must be recorded in PDS.
15 Daily inspections must be recorded in the FEMPR (Fire Engine Maintenance
16 Procedure and Record).

18 **Wildland Fire Uniform Standards**

20 The Service-wide Uniform Program Guideline (DO-43) sets forth the
21 servicewide policies and associated legal mandates for wearing the NPS uniform
22 and for authorizing allowances to employees.

24 The guideline states that superintendents administer the uniform program within
25 their areas and are responsible for developing and communicating local uniform
26 and appearance standards in accordance with DO-43, determining who will wear
27 the uniform and what uniform will be worn and enforcing uniform and
28 appearance standards. Three options exist for uniforms for wildland fire
29 personnel:

- 30 • Within the context of the uniform standards, if the conventional NPS
31 uniform is identified at the local level as required for specified fire
32 management staff, fire program management funds may be used to support
33 uniform purchases in accordance with allowance limits identified in DO-43.
- 34 • While Nomex outerwear (i.e. shirts, trousers, brush-coats) routinely issued
35 as personal protective equipment has become recognized as the uniform of
36 the wildland firefighter as a matter of necessity, these apparel also have
37 justifiable utility as a uniform standard at the park level for certain fire
38 and/or ONPS base-funded wildland fire staff.
- 39 • When the conventional NPS uniform or the full Nomex outerwear is not
40 appropriate or justified, local management with park superintendent
41 approval may establish a predetermined dress code for fire staff. The goals
42 of the NPS uniform program can appropriately be applied (with common
43 sense) to this departure from the norm.
- 44 • The DOI Boot Policy is referenced in Chapter 7.
- 45 • The fire management officer is responsible for establishing a reasonable
46 allotment schedule for new or returning employees, commensurate with

1 supplies provided in previous seasons. A suggested per person issuance is
2 three to four tee shirts, one ball cap, and one sweatshirt (where appropriate).
3 \$100 would normally be adequate to cover costs of this issuance.
4

5 Where appropriate and justified, fire funds may be applied to the purchase of
6 100 percent cotton tee shirts, sweatshirts, and ball caps, with appropriate logo
7 and color scheme, to augment the Nomex outerwear worn in conjunction with
8 project or wildland fire management incidents. Nomex outerwear will usually
9 be returned to the park's fire cache based on the tour of duty (end of season,
10 transfer to another park, etc.).
11

12 Just as with uniform allowance discussed in DO-43, the intent of fire-funded
13 purchases is to defray the cost of the appropriate apparel, not necessarily to
14 cover the cost of all items. This will not only be factored into the quantities
15 deemed necessary for the individual, but would also preclude fire-funded
16 purchases of fleece jackets, rain gear and other personal items generally
17 considered the responsibility of those employees not covered by the NPS
18 uniform program. Exceptions to this should be well-justified and documented.
19

20 **Fire Management Credentials**

21 Official fire identification credentials are approved for issuance to National Park
22 Service (NPS) employees with fire as a primary or secondary responsibility as
23 identified in their individual position descriptions and approved by DOI Office
24 of Services for OWCP, Accountability and Retirement (SOAR). These
25 credentials provide fire personnel with similar professional identification as
26 being used by many fire cooperators. The fire credentials consist of a badge,
27 identification card, and case that are issued as government property. The badge
28 complies with national fire standards, has red trim, and is labeled as Fire Chief,
29 Fire Manager or Firefighter. The fire credentials are to be carried in a wallet
30 type case and utilized for identification purposes only and will not be worn with
31 the official NPS uniform or otherwise conflict with DO-43. Lost or stolen
32 credentials, as government property, should be entered into NCIC for
33 confiscation and returned when found.
34

35 **Fire Management in Wilderness**

36
37 Over 85% of all NPS lands are under some form of wilderness protection.
38 Because of the significance of wilderness resources and the requirement to
39 preserve wilderness character in those areas, all fire management actions in
40 wilderness (including the categories of designated, recommended, potential,
41 proposed, and wilderness study areas eligible) will be consistent with the
42 "minimum requirement" concept found in section 6.3.5 of NPS Management
43 Policies (2006).
44

1 Actions taken in wilderness will be conducted to protect life and safety, meet
2 natural and cultural resource objectives, and minimize unwanted impacts of the
3 fire management actions and the fires themselves. In evaluating fire
4 management actions, the potential disruption of wilderness character will be
5 considered before, and given significantly more weight than, economic
6 efficiency and convenience. Unless human life is threatened, only those actions
7 that preserve wilderness character and/or have localized, short-term adverse
8 impacts will be acceptable. Any delegation of authority to incident management
9 teams will convey appropriate emphasis on the protection of wilderness
10 resources.
11

Chapter 04**U.S. Fish & Wildlife Service Program Organization & Responsibilities****Introduction**

This document states, references, or supplements policy for the U.S. Fish and Wildlife Service Wildland Fire Management Program. The standards provided in this document are based on current U.S. Department of the Interior and Bureau policy, and are intended to provide fire program guidance. If there is a discrepancy between guidance found in this document and the Service Manual, information contained herein will be considered authoritative as updates occur on a more frequent cycle than the FW Manual. The intent is to ensure safe, consistent, efficient, and effective fire and aviation operations. This document will be reviewed and updated annually.

Agency Administrator Roles**Director**

The Director of the Fish and Wildlife Service has overall responsibility for the Service wildland fire management program. The Director will ensure that all regional fire management activities are formally evaluated.

Chief, National Wildlife Refuge System

The National Wildlife Refuge System under the Chief provides leadership for the wildland fire management program. The National Wildlife Refuge System also formally evaluates all regional fire activities at least every five years. The Assistant Director of the National Wildlife Refuge System has delegated the authority to approve the *Fire Management Handbook* and other fire related handbooks as needed to provide guidance to the Chief, Branch of Fire Management.

Regional Director

The Regional Director is responsible to the Director for fire management programs and activities within their region. The Regional Director will meet the required elements outlined in the *Management Performance Requirements for Fire Operations* and ensure training is completed to support delegations to line managers and principal acting's.

- Ensures that Project Leaders are qualified to approve prescribed fire plans. Any prescribed fire that is converted to a wildfire, and/or contributes to an air quality violation, and/or significant damage to values outside of FWS boundaries must be reviewed. The appropriate level and scope of the review will be determined by agency policy. The final review results shall be provided to the Regional Director within 90 days.
- Ensures emergency stabilization and burned area rehabilitation plans with estimated costs < \$500,000 are consistent with Department and Service policy and guidelines.

- 1 • Establishes a process to delegate approval for prescribed fire burn plans to
 2 the responsible line officer. The Regional review and concurrence processes
 3 for such plans must include Burn Bosses and designated subject matter
 4 experts.
 5

6 **Regional Chief and Refuge Supervisors**

7 Regional Chiefs and Refuge Supervisors are delegated specific leadership
 8 responsibilities by the Regional Director. They provide oversight and direction,
 9 in coordination with, the Wildland Fire Management Program for the National
 10 Wildlife Refuge System. These responsibilities occur through established lines
 11 of authority as assigned by the Regional Director.
 12

13 **Project Leader/Refuge Manager**

14 The Project Leader is responsible to the Regional Director for the safe and
 15 efficient implementation of fire management activities within their unit,
 16 including cooperative activities with other agencies or landowners, in
 17 accordance with delegations of authorities. The Project Leader, or principal
 18 acting, will meet required elements outlined in the Project Leader/Refuge
 19 Manager Performance Requirements.
 20

- 21 • Refuge Managers/Project Leaders must meet the performance requirements
 22 which are appropriate for the unit's fire management complexity as
 23 determined by the Refuge Supervisors, in consultation with the Regional Fire
 24 Management Coordinator (RFMC).
 25 • If a Project Leader/Refuge Manager is absent during an incident, the Refuge
 26 Supervisor and RFMC will make an assessment of the Acting Project
 27 Leader/Refuge Manager's capabilities and provide appropriate additional
 28 support. The Refuge Supervisor and RFMC will provide additional fire
 29 management support for the affected refuge as needed.
 30

31 **Management Performance Requirements for Fire Operations**

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader / Refuge Manager
<i>Policy</i>				
1. Ensure any standards developed are compliant with agency wildland fire policies.	X	X	X	X
2. Ensure use of fire funds is in compliance with department and agency policies.	X	X	X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader / Refuge Manager
3. Review critical operations and safety policies and procedures with fire and fire aviation personnel.		X	X	X
4. Demonstrate a working knowledge of Service safety and accident reporting policies and procedures.		X	X	X
5. Demonstrate knowledge of NWCG, Interagency Fire Program Management, and Interagency Standards for Fire and Fire Aviation Operations "Red Book" Standards.		X	X	X
<i>Program Management</i>				
6. Ensure Fire Management Plans (FMP) reflect agency commitment to firefighter and public safety, while utilizing the full range of fire management activities available for ecosystem sustainability.	X	X	X	X
7. Ensure all fire management activities are supported by a current FMP with documented annual updates and are integrated with an approved Comprehensive Conservation Plan.	X	X	X	X
8. Ensure units have a current safety plan, an active safety committee, and safety program that integrates the fire program.	X	X	X	X
9. Ensure investigations and reviews are conducted for incidents, accidents, escaped prescribed fires and near misses as described in Chapter 18.	X	X	X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader / Refuge Manager
10. Ensure management strategies and tactics are employed that achieve departmental cost containment goals.	X	X	X	X
11. Annually update and review the <i>Agency Administrator's Guide to Critical Incident Management</i>		X	X	X
12. Ensure timely follow-up to fire management program reviews.		X	X	X
13. Ensure master agreements with cooperators are valid and in compliance with agency policies, and Annual Operating Plans are current.		X	X	X
14. Provide a written Delegation of Authority to FMOs giving an adequate level of operational authority. For zoned/area units, ensure all appropriate Agency administrators have signed the delegation. When applicable, an Inter-refuge Agreement specifying reciprocal responsibilities of the Project Leader/Refuge Manager and the Area/Zone FMO.		X	X	X
15. Ensure trespass actions are initiated and documented to recover cost of suppression activities, land rehabilitation, and damages to resources and improvements for all human-caused fires where liability can be determined, as per <i>FWS Fire Management Handbook</i> .		X	X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader / Refuge Manager
16. Ensure WFDSS is used to publish timely decisions and to provide decision support documentation for all fires that escape initial attack or initial response.		X	X	X
17. Ensure financial allocation and program of work analysis systems (FPA, HFPAS, FIREBASE, etc.) for preparedness and fuels activities correctly reflect current program needs as identified in fire management plans.			X	X
18. Annually convene and participate in pre-and post-season fire meetings.			X	X
19. Participate as part of in-briefings and post fire closeouts on Type I and Type II fires. (Attendance by Regional Chiefs may be delegated).			X	X
20. Provide a written delegation of authority, Wildland Fire Decision Support System (WFDSS) analysis, Agency Administrator Briefings to Incident Management Teams and local Incident Managers as defined by fire management policy.				X
21. Ensure fire and fire aviation preparedness reviews are conducted annually in all unit offices. Personally participate in at least one review annually.				X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader / Refuge Manager
22. Ensure that fire season severity predictions, weather forecasts, fire behavior predictors and fire activity levels are monitored daily, and communicated and available to all employees .				X
23. Service representative at annual cooperator meetings and review interagency agreements to ensure effectiveness and efficiency.				X
24. Ensure fire prevention and fire suppression standards are compliant with agency fire policies. Ensure fire prevention activities are integrated into step up plans.				X
25. Ensure resource advisors are identified, trained, and available for incident assignment. Refer to <i>Resource Advisors Guide for Wildland Fire</i> PMS 313, NFES 1813, Jan 2004.				X
26. Personally visit at least one wildland and one prescribed fire each year as available.				X
27. Appropriately manage Social/Political/Media resources and relationships affecting prescribed fire and wildfire activities.	X	X	X	X
28. Ensure appropriate risk management measures are in place as they pertain to incident management activities.			X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader / Refuge Manager
29. Ensure appropriate administration, management and oversight of Type I and II IMTs. Ensure Incident Business Analysts, Resource Advisors, and Agency Representative positions are utilized as needed.				X
30. Develop, negotiate, and implement cost share, Service First, and reimbursable protection agreements with cooperators.				X
31. Participate in operations, safety, and fire administration reviews with fire and fire aviation personnel.				X
32. Provide oversight to Emergency Stabilization (ES) and Burned Area Rehabilitation (BAR) processes and procedures.				X
<i>Training / Certification</i>				
33. Ensure only trained, certified fire and non-fire personnel are available to support fire operations at the local and national level.	X	X	X	X
34. Ensure personnel delegated fire program responsibilities have completed required training. (Refer to Training Section).			X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader / Refuge Manager
35. Provide position task book and incident qualification card certification on an as needed basis. Ensure employees meet all necessary medical and physical testing requirements appropriate for NWCG or agency specific qualifications.				X
<i>Prescribed Fire/Fuels Management</i>				
36. Ensure compliance with National and Regional Office policy for prescribed fire activities. Provide periodic reviews of the prescribed fire program.	X	X	X	X
37. Implement Interagency Prescribed Fire Planning and Implementation Policies and Guidelines.		X	X	X
38. Ensure Prescribed Fire Plans are approved and meet agency policies.			X	X
39. Ensure all wildfires resulting from prescribed fire actions are reported to Regional Director within 24 hours of the wildfire declaration.			X	X
40. Ensure a policy has been established for review and signing go-no/go checklists.				X
41. Ensure Prescribed Fire Plans have been reviewed and recommended by a qualified technical reviewer other than the plan author.				X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader / Refuge Manager
42. Perform required agency administrator role of reviewing and approving Prescribed Fire Burn Plans and Go-No Agency Administrator Checklists.				X

1

2 **Fire Management Staff Roles**

3

4 **National Office**

5

6 **Fire Director**

7 The Fire Director is the Chief of the Fire Management Branch in the National
 8 Wildlife Refuge System, and is the Service representative at the National
 9 Interagency Fire Center (NIFC). The Fire Director, through *Service Manual 621*
 10 *FW 1*, is delegated authority by the Director to represent the Service on the
 11 National Multi-Agency Coordinating Group (NMAC Group). The Fire Director
 12 is responsible for implementing the decisions of the NMAC as they affect U.S.
 13 Fish and Wildlife Service areas. The decisions of the NMAC include the
 14 prioritizing of incidents nationally and the allocation or reallocation of
 15 firefighting resources to meet national priorities.

16

17 The Fire Management Branch is responsible for providing technical direction
 18 and coordination of fire management planning, policy development, and
 19 procedures service wide.

20

21 **Regional Office**

22

23 **Regional Fire Management Coordinator (RFMC)**

24 The Regional Fire Management Coordinator provides leadership, direction,
 25 coordination, training, planning, evaluation, and technical guidance for the
 26 region and is available to provide assistance for intra-agency and interagency
 27 wildland fire management needs. The RFMC will meet qualification
 28 requirements established by the service for the position. The RFMC, through
 29 written delegation by the Regional Director, is delegated authority to represent
 30 the region on the GMAC. The RFMC is responsible for implementing the
 31 decisions of the MAC Group as they affect U.S. Fish and Wildlife Service areas.
 32 The decisions of the GMAC include the prioritizing of incidents, Interagency
 33 Master/statewide agreements and the allocation or reallocation of firefighting
 34 resources to meet wildland fire management priorities.

35

- 1 RFMCs will ensure IQCS accounts are established and training records
 2 maintained for agency administrators. The IQCS mnemonic for FWS agency
 3 administrators is AADM.

4

5 **Refuge**

6

7 **Fire Management Officer (FMO)**

- 8 The Fire Management Officer (FMO) is responsible and accountable for
 9 providing leadership for fire management programs at the local level. The FMO
 10 determines program requirements to implement land use decisions through the
 11 Fire Management Plan (FMP) to meet land management objectives. The FMO
 12 negotiates interagency agreements and represents the Agency Administrator on
 13 local interagency fire and fire aviation groups.

14

- 15 The FMO is responsible for coordinating with the refuge/unit Agency
 16 Administrator to annually review and update (as needed) the unit Fire
 17 Management Plan to comply with agency policy. An FMO may be assigned to
 18 provide wildland fire management support to a group of refuges (zone or
 19 district) when individually each refuge does not warrant a fulltime FMO.

20

21 **Fire Management Staff Performance Requirements for Fire Operations**

PERFORMANCE REQUIRED	Fire Director	RFMC	Zone/ District FMO
1. Establishes and manages a safe, effective, and efficient fire program.	X	X	X
2. Ensures that the Fire Management Plan (FMP) reflects the agency commitment to firefighter and public safety, while utilizing the full range of fire management activities available for ecosystem sustainability. <i>(Federal Wildland Fire Management Plan 2001)</i>	X	X	X
3. Provides the expertise and skills to fully integrate fire and fire aviation management into interdisciplinary planning efforts. (When requested)	X	X	X
4. Ensures that only trained and qualified personnel are assigned to fire and fire aviation duties.	X	X	X

PERFORMANCE REQUIRED	Fire Director	RFMC	Zone/ District FMO
5. Ensures completion of a Job Hazard Analysis (JHA)/Risk Assessment for fire and fire aviation activities so mitigation measures are taken to reduce risk.		X	X
6. Ensures compliance with work/rest guidelines during all fire and fire aviation activities.	X	X	X
7. Ensures that the fire and fire aviation management employees understand their role, responsibilities, authority, and accountability.	X	X	X
8. Organizes trains, equips, and directs a qualified work force. Establishes and implements performance review process.	X	X	X
9. Develops implements, evaluates, and documents fire and fire aviation training to meet current and anticipated needs.	X	X	X
10. Ensures fire and fire aviation policies are understood, implemented, and coordinated with other agencies as appropriate.	X	X	X
11. Monitors fire suppression activities to recognize when complexity levels exceed current management capabilities. Increases managerial and operational resources to meet the need.	X	X	X
12. Monitors fire season severity predictions, fire behavior, and fire activity levels. Takes action to ensure safe, efficient, and effective operations.	X	X	X
13. Ensures that master agreements with cooperators are valid and in compliance with agency policy, and that attached Annual Operating Plans are current.	X	X	X
14. Develops, maintains, and implements current operational plans. (e.g., dispatch, preparedness, prevention).		X	X
15. Ensures use of fire funds is in compliance with department and agency policies.	X	X	X

PERFORMANCE REQUIRED	Fire Director	RFMC	Zone/ District FMO
16. Ensures that fire severity funding is requested, used, and documented in accordance with agency standards (<i>Interagency Standards for Fire and Fire Aviation Operations</i> , Chapter 9).	X	X	X
17. Reviews and approves appropriate overtime authorization requests for personnel providing fire suppression coverage during holidays, special events, and abnormal fire conditions.		X	X
18. Ensures a process is established to communicate fire info to public, media, and cooperators.	X	X	X
19. Annually convenes and participates in pre-and post season fire meetings. Specifically address management controls and critical safety issues.	X	X	X
20. Oversees pre-season preparedness review of fire and fire aviation program.	X	X	X
21. Initiates, conducts, and/or participates in fire program management reviews and investigations.	X	X	X
22. Personally participates in periodic site visits to individual incidents and projects.		X	X
23. Ensures that transfer of command occurs as per appendix D on incidents.		X	X
24. Utilizes the Incident Complexity Analysis appendix E & F to ensure the proper level of management is assigned to all incidents	X	X	X
25. Ensures that incoming personnel and crews are briefed prior to fire and fire aviation assignments.		X	X
26. Ensures an accurate and defensible Wildland Fire Decision Support System (WFDSS) analysis is completed and updated, approved, and certified as necessary.	X	X	X

PERFORMANCE REQUIRED	Fire Director	RFMC	Zone/ District FMO
27. Works with cooperators, groups, and individuals to develop and implement processes and procedures for providing fire safe communities within the wildland urban interface.	X	X	X
28. Ensures that trespass actions are initiated and documented to recover cost of suppression activities, land rehabilitation, and damages to the resource and improvements for all human-caused fires where liability can be determined, as per <i>FWS Fire Trespass Handbook</i> .	X	X	X
29. Ensures training for fire cause determination and fire trespass is completed.	X	X	X
30. Ensures compliance with National and State Office policy for prescribed fire activities. Provides periodic reviews of the prescribed fire program.	X	X	X
31. Annually updates and reviews the <i>Agency Administrator's Guide to Critical Incident Management</i> .	X	X	X
32. Ensures that fire season severity predictions, weather forecasts, fire behavior predictors, and fire activity levels are monitored and communicated daily to all employees (hard copy, web page, email, radio, or fax).		X	X
33. Uses current National and Local Mobilization Guides and ensures that national, geographic and local mobilization standards are followed.	X	X	X
34. Complies with established property control/management procedures.	X	X	X
35. Ensures procedures are in place for reporting unsafe and unhealthy working conditions	X	X	X
36. Ensures all job related accidents/incidents resulting in, or having the potential to cause fatalities, injuries, illnesses, property or environmental damage are reported and/or investigated. All such reports are electronically submitted through the Safety Management Information System (SMIS).		X	X

PERFORMANCE REQUIRED	Fire Director	RFMC	Zone/ District FMO
37. Ensures that the RXBP and the personnel implementing them meet Service wide and Regional requirements.			X
38. Ensures adequate oversight and status reporting of all prescribed fires.			X
39. Reports all wildfires resulting from prescribed fires to the Regional Fire Management Coordinator within 12 hours of the wildfire declaration.			X
40. Develops and/or updates fire management plans and associated operational plans for approval by project leaders and regional fire and refuge staff (as determined by the region)			X
41. Responsible for the coordination of RAWs maintenance, up keep, sensor calibration, oversight of daily inputs in order to maintain a weather network which is used by many cooperating agencies, and the development of the RAWs operating plan.			X

1

2 **National Fire Leadership Team**

3

- 4 The National Fire Leadership Team (NFLT) is established under the guidance
5 and support of the NWRS Leadership Team. The team is established to provide
6 regional input on issues of National importance, to advise the Chief, Fire
7 Management Branch (FMB), and provide leadership, coordination, and guidance
8 in the development and implementation of a safe and effective fire management
9 program within the Service. The team serves as a national clearing house,
10 provides discussion of wildland fire management issues, and recommends
11 actions to improve coordination and integration of regional fire management
12 activities into national direction. The team will be responsible for the following:
- 13 • Provide leadership, coordination, and guidance for the Service's fire
14 management program.
 - 15 • Identify potential fire management issues, and recommend strategies that will
16 enhance the Service's ability to safely and effectively manage fire on Service
17 lands.
 - 18 • Develop and recommend common guidance and business rules as needed to
19 manage fire management activities while recognizing individual regional
20 needs.

- 1 ● Provide a forum for the exchange of ideas, best management practices, and
2 lessons learned relating to Service fire management activities.
- 3 ● Provide a forum to discuss budget methodology applications that are
4 consistent with appropriation language authority as well as providing for the
5 collaboration and coordination within FWS and with our interagency
6 partners.
- 7 ● Form task groups, working teams, or other collections of subject matter
8 experts as needed to deal with specific tasks or long-term issues. These
9 groups or teams will each have a Leader who usually works in the subject
10 matter area with members assigned who may have the subject area as a
11 collateral duty. They will have representation from across the Service, and
12 will provide guidance or operational recommendations to the NFLT.

14 **Delegation of Authority**

16 **Regional Fire Management Coordinator**

17 In order to effectively perform their duties, a RFMC must have certain
18 authorities delegated from the Regional Director. This delegation is normally
19 placed in the regional office supplement to agency manuals. This delegation of
20 authority should include:

- 21 ● Serve as the Regional Director's authorized representative on geographic
22 area coordination groups, including MAC groups.
- 23 ● Coordinate and establish priorities on uncommitted fire suppression
24 resources during periods of shortages.
- 25 ● Coordinate logistics and suppression operations regional-wide.
- 26 ● Relocate agency pre-suppression/suppression resources within the region
27 based on relative fire potential/activity.
- 28 ● Correct unsafe fire suppression activities.
- 29 ● Direct accelerated, aggressive initial attack when appropriate.
- 30 ● Enter into agreements to provide for the management, fiscal, and
31 operational functions of combined agency operated facilities.
- 32 ● Suspend prescribed fire activities when warranted.
- 33 ● Give authorization to hire Emergency Firefighters in accordance with the
34 DOI Pay Plan for Emergency Workers.
- 35 ● Approve emergency fire severity funding expenditures not to exceed the
36 agency's annual authority.

38 **Zone/District Fire Management Officer**

39 In order to effectively perform their duties, the FMO may receive a Delegation
40 of Authority (DOA) outlining the operational and administrative fire
41 management duties. All Unit Agency Administrators within a Zone/District
42 should consider signing a single Zone/District Fire Management delegation. A
43 sample "Delegation of Authority" can be found on the FWS Fire Operations
44 Policy and Guidance SharePoint site.

1 Inter-refuge Agreements

2
3 Inter-Refuge Agreements may be used when FMOs provide fire management
4 oversight to multiple refuges. This is in addition to the Delegation of Authority
5 from the Project Leaders/Refuge Managers to the FMO, and further defines the
6 roles and expectations between the FMO and Refuges. An example can be
7 found on the FWS Fire Operations Policy and Guidance SharePoint site.
8

9 Fire Duty Officer

10
11 Fire Management Officers are responsible to provide Fire Duty Officer (FDO)
12 coverage during periods of predicted incident activities. FDO responsibilities
13 may be performed by any individual delegated the authority, either written or
14 verbal, from the FMO. The duties for FDOs include:

- 15 • Monitor unit incident activities for compliance with FWS safety policies.
- 16 • Coordinate and set priorities for unit preparedness activities, incident
17 response and resource allocation.
- 18 • Keep agency administrators and resources informed of the current and
19 expected situation.
- 20 • Plan for and implement actions required for future needs.
- 21 • Document decisions and actions.
- 22 • It is recommended FDOs not fill ICS functions.

23 Fire Severity Funding

24
25
26 Units may request severity funding when wildfire response resources are
27 insufficient to meet the predicted fire workload on Service lands. Units/Regions
28 may request two types of severity funding depending upon the anticipated
29 duration of need (see table). An approved and Current FMP must be in place to
30 receive severity funding.
31

32 Short-Term Severity Funding

33 Short-term severity funding can be requested to implement preplanned actions
34 from an approved preparedness or step-up plan. This may include: the unit
35 anticipates being at PL4 or PL5 (or equivalent) for less than seven consecutive
36 days, or when the need is only for extending the days/hours of existing staff.
37 Short-term severity requests must be approved by the RFMC, and may not
38 exceed a total of \$300,000 per Region annually as described in the FWS Fire
39 Business Reference Guide, Fire Severity Work Breakdown Structure
40 description. Short-term severity funding codes are PER1 (region 1), PER2
41 (region 2), etc. An example for short-term severity in Region 2 is FF02RNB000
42 (*cost center for Bosque del Apache NWR, R2*) plus the work breakdown
43 structure FF.F2100002PER20.2A.
44
45
46

1 Long-Term Severity Funding

2 Long-term severity funding can be requested when additional outside resources
3 are needed for an extended period of time. The need for additional resources
4 must be based upon existing approved preparedness plans or documentation of
5 extraordinary conditions that were not anticipated in the existing preparedness
6 plans. Long-term severity requests must be approved by the Chief, Fire
7 Management Branch. Severity requests follow guidance located in Appendix E
8 of the FWS Fire Business Reference Guide and include the documentation
9 identified in the appendix.

10

11 Long-term severity funding is provided for a maximum of 30 days per request;
12 however, regardless of the length of the authorization, use of severity funding
13 must be terminated when abnormal conditions no longer exist. Long-term
14 severity codes are cost center plus Severity Funding work breakdown structure
15 including FIRECODE, e.g. FF02RNB000 FF.F2100002FJ4M0.2A.

16

17 Daily Fire Report

18

19 During the “National Fire Season” as identified by the National Interagency
20 Coordination Center at Boise, ID (NICC), each field unit within the Refuge
21 System will report all wildland fire occurrence and fire status daily to their local
22 dispatch office and Regional Office. Additionally, each Region will establish
23 procedures to gather fire information and coordinate with their respective
24 geographic area coordination centers as necessary. Field units will report the
25 status of large fires separately on form ICS-209 to the local dispatch centers
26 with copies furnished to the RFMCs. Include weekend fire activity on
27 Monday’s report unless there is significant fire activity.

28

29 Individual Fire Report

30

31 An Individual Fire Report must be completed in the Fire Management
32 Information System (FMIS) for the following types of fires within 15 days after
33 the fire is declared out:

- 34 • All wildland fires on Service lands.
- 35 • Wildland fires threatening Service lands on which the Service takes action.
- 36 • Fires on which action was taken for another agency.
- 37 • All prescribed fires that remain within prescription on Service lands. When a
38 fire exceeds prescription criteria, treat it as an unwanted wildfire, and file a
39 separate report covering those acres by the unwanted wildland fire.
- 40 • All false alarms responded to by field office staff.

41

42 Reports are required regardless of who takes action, e.g., force account,
43 cooperator, or contractor. When actions are taken on a cooperative fire, the
44 agency having jurisdiction over the land on which the wildfire occurs will file a
45 complete report and prepare a limited version to record and bill for assistance
46 when necessary.

Release Date: January 2012

04-17

1 Fish and Wildlife Service Use of Wildland Fire Decision Support System

2

3 Effective March 31, 2010 all managers must use WFDSS to document and
4 publish decisions on extended attack wildfires, wildfires managed for multiple
5 objectives and escaped prescribed fires.

6 Documentation of all other wildfires in WFDSS is at the discretion of the local
7 unit. All fires in Alaska will have WFDSS initiated by the Protection Agency.

8

9 Final Wildland Fire Record

10

11 The final wildland fire project record may include the following:

- 12 • FMIS data entry
- 13 • Narrative
- 14 • WFDSS
- 15 • Incident Action Plan(s)
- 16 • Daily weather forecasts and spot weather forecasts; Cumulative fire map
17 showing acreage increase by day
- 18 • Total cost summary
- 19 • Monitoring data (Wildland Fire Observation Records)
- 20 • Critique of fire projections on Incident Action Plan

21

22 Physical Fitness and Conditioning

23

24 Employees serving in wildland fire positions that require a fitness rating of
25 arduous as a condition of employment are authorized one hour of duty time each
26 work day for physical fitness conditioning. Employees not having a fitness
27 rating of arduous as a condition of employment, but who are required by a
28 Critical Performance element or other written agreement to maintain an arduous
29 level, will be authorized three hours per week of duty time for physical fitness
30 condition. All other wildland firefighting personnel holding qualifications
31 requiring ratings of moderate or arduous may be authorized, by their supervisor,
32 up to three hours per week of duty time for fitness conditioning. Prior to any
33 duty time being allowed for physical fitness conditioning, employees and
34 supervisors must agree, in writing, what physical conditioning activities the
35 employee will engage in, and when and where they will occur. Activities
36 outside of the agreement will not be authorized or allowed. A combination of
37 activities designed to increase both physical strength and aerobic fitness, while
38 minimizing the possibility of physical injury, should be utilized.

39

40 Training

41

42 The qualification standards identified in the *Interagency Fire Program*
43 *Management Qualification Standards* are required, in conjunction with specific
44 agency requirements, when filling vacant fire program positions, and as an aid in
45 developing Individual Development Plans (IDPs) for employees.

- 1 • Refuge Managers/Project Leaders with Service lands under their jurisdiction
2 which require the development and maintenance of a Fire Management Plan
3 must attend either the National Advanced Fire and Resource Institute
4 (NAFRI) or a locally sponsored Fire Management for Leaders course, or
5 may, upon concurrence of the RFMC, attend the Agency Administrator
6 Workshop for Prescribed Fire course which is hosted by the National
7 Interagency Prescribed Fire Training Center (PFTC.)
- 8 • Refuge Managers/Project Leaders with high complexity programs under their
9 jurisdiction must attend the National Fire Management Leadership Course or
10 Local Fire Management Leadership Course. Program complexity is
11 determined jointly between the Regional Fire Management Coordinator and
12 the Regional Refuge Supervisor based upon: frequency and complexity of
13 wildland fires, values at risk, number and type of fuels treatments, number
14 and type of fire management personnel assigned to the unit, Interagency
15 cooperation and coordination, and likelihood of Type 1 or 2 incidents
16 (wildfire or all hazard).
- 17 • Regional Chiefs, Regional Refuge Supervisors, and Refuge
18 Managers/Project Leaders must complete periodic refresher training as
19 determined by their supervisor in consultation with the RFMC. Refresher
20 training options may include attending fire management training/workshops,
21 trainee experiences, or mentoring.

22

23 **Fire Management Officer Training**

24 All Fire Management Officers (FMO) are required to attend the M-581,
25 Interagency Fire Program Management course, either as a student or as a
26 member of the instructor cadre. If attending as an instructor, the FMO must be
27 present for the entire course.

28

29 **Fish and Wildlife Service Specific Qualifications**

30 Guidance regarding agency-specific qualifications (including ENOP, RXB3,
31 Faller ABC, RXCM, DZOP, and TPOP) can be found in chapter 13 of the Fire
32 Management Handbook.

1 **Chapter 05**
2 **USDA Forest Service Wildland Fire and Aviation Program**
3 **Organization and Responsibilities**

4
5 **Introduction**

6
7 This document is intended to be a program reference guide that documents the
8 standards for operational procedures and practices for the USDA Forest Service
9 Fire and Aviation Management program. The standards provided in this
10 handbook are based on current agency and interagency wildland fire
11 management policy, and is intended to provide fire and aviation program
12 guidance and to ensure safe, consistent, efficient, and effective fire and aviation
13 operations. This document will be reviewed and updated annually.

14
15 **Foundational Doctrine**

16
17 The following collection of principles and beliefs form the foundational doctrine
18 for fire suppression in the U.S. Forest Service. These principles and beliefs
19 operate at multiple organizational levels, including:

- 20 • Forest Service Wide (i.e., apply to all employees and activities)
- 21 • Fire and Aviation Management (i.e., are specific to the fire and aviation
22 management program)
- 23 • Fire Suppression (i.e., are specific to fire fighting activities).

24
25 **The Operational Environment**

- 26 • *Fire Suppression*
 - 27 1. No resource or facility is worth the loss of human life, however the
 - 28 wildland fire suppression environment is complex and possesses inherent
 - 29 hazards that can, even with reasonable mitigation, result in harm to fire
 - 30 fighters engaged in fire suppression operations. In recognition of this fact,
 - 31 we are committed to the aggressive management of risk.

32
33 **Mission**

- 34 • *Forest Service Wide*
 - 35 2. The Forest Service is prepared and organized to support national and
 - 36 international emergencies with trained personnel and other assets when
 - 37 requested.
 - 38 3. Agency employees respond when they come across situations where
 - 39 human life is immediately at risk or there is a clear emergency, and they are
 - 40 capable of assisting without undue risk to themselves or others.
 - 41 4. In responding to emergencies, we will bring the same professionalism
 - 42 and passion for safety as we do to non-emergency situations.
 - 43 5. Support for local fire emergencies takes priority over accomplishment of
 - 44 local resource targets. Support of non-local fire emergencies will be at the
 - 45 discretion of the local line officer, as bounded by agency agreements and
 - 46 Regional or National direction.

Release Date: January 2012

05-1

- 1 6. A cooperative relationship between the Forest Service and other agencies
2 is essential. The Forest Service is committed to honor its part of the joint
3 responsibility to develop and maintain effective working relationships with
4 its intergovernmental cooperators.
- 5 • *Fire & Aviation Management*
6 7. Fire management is central to meeting the Forest Service mission –
7 conserving natural resources, restoring ecological health, and protecting
8 communities.
 - 9 • *Fire Suppression*
10 8. Successful fire suppression is essential to support the Forest Service
11 mission.
12 9. The intent of wildfire suppression is to protect human life, property, and
13 at risk lands and resources.

14

Leadership and Accountability

- 16 • *Forest Service Wide*
17 10. The hallmarks of Forest Service leadership are action, attitude, and
18 accountability.
19 11. Leaders express clear and concise intent to ensure assignments are
20 managed safely, effectively, and efficiently.
21 12. Leaders regularly monitor operations for effectiveness, and take action
22 when there is recognition of exceptional or problematic employee
23 performance.
24 13. Both positive reinforcement and discipline will be based on individual
25 behavior as measured by adherence to the rules; appropriate application of
26 doctrine, principles, and guidelines; execution of responsibilities
27 commensurate with role; and appropriate use of available information.
- 28 • *Fire Suppression*
29 14. Demonstrated fitness for command is a requirement for leadership
30 positions associated with fire fighting.

31

Roles and Relationships

- 33 • *Forest Service Wide*
34 15. Commitment to duty, respect for others, and personal integrity are
35 expected. Every employee fosters a work environment that is enjoyable,
36 rewarding, recognizes the value of diversity, and is free of harassment.
- 37 • *Fire & Aviation Management*
38 16. Line officers with fire management responsibilities will have knowledge
39 and understanding of fire program management.
40 17. Contracted resources will meet identified standards for qualifications,
41 training, productivity, and efficiency necessary to meet emergency response
42 needs.
43 18. It is the Forest Service responsibility to initiate and participate in public
44 education efforts to promote support for necessary fire management
45 activities.

46

- 1 • *Fire Suppression*
2 19. Every Forest Service employee has a responsibility to support fire
3 suppression emergencies in a manner that meets identified needs, and is
4 within their qualifications and capabilities.
5
- 6 **Operations**
- 7 • *Forest Service Wide*
8 20. Employees are expected and empowered to be creative and decisive, to
9 exercise initiative and accept responsibility, and to use their training,
10 experience, and judgment in decision-making to carry out their leader's
11 intent.
12 21. Employees are expected and empowered to make reasonable and
13 prudent decisions to accomplish the agency mission while minimizing
14 exposure to hazards.
15 22. Clear, uncomplicated plans and concise orders maximize effectiveness
16 and minimize confusion.
- 17 • *Fire Suppression*
18 23. When it is time to fight fire, we do so in a manner that maximizes
19 effectiveness of effort, has highest regard for firefighter and public safety,
20 and controls costs.
21 24. Every fire suppression operation is directed toward clearly-defined,
22 decisive, and obtainable objectives.
23 25. Command and control must be decentralized to cope with the
24 unpredictable nature of fire. To achieve their leader's intent and accomplish
25 operational objectives, subordinate commanders are required to make
26 decisions on their own initiative, and to coordinate their efforts.
27 26. Unity of effort is maintained and suppression actions are coordinated at
28 all times.
29 27. Using principles requires judgment in application, while adherence to
30 rules does not. In combination, principles and rules guide our fundamental
31 wildland fire suppression practices and behaviors, and are mutually
32 understood at every level of command.
33 28. Rapid deployment and concentration of fire suppression resources at the
34 decisive time and place is essential to successful fire suppression actions.
35 29. Maintaining high capability for initial attack is essential to public and
36 fire fighter safety, accomplishment of management objectives, and cost
37 containment.
38
- 39 **Risk Management**
- 40 • *Fire Suppression*
41 30. We practice risk management to minimize the exposure and affects of
42 the inherent hazards in fire suppression while maximizing the opportunities
43 to achieve leader intent.
44
45
46

1 Agency Administrator Positions

2

3 The Forest Service has developed core fire management competencies. They
4 are presented here for reference:

- 5 ● Knowledge of fire program management including ability to integrate fire
6 and fuels management across all program areas and functions;
- 7 ● Ability to implement fire management strategies and integrate natural
8 resource concerns into collaborative community protection and ecosystem
9 restoration strategies;
- 10 ● Knowledge to oversee a fire management program including budget,
11 preparedness, prevention, suppression, and hazardous fuels reduction;
- 12 ● Ability to serve as an agency administrator during an incident on an
13 assigned unit; and
- 14 ● Ability to provide a fully staffed, highly qualified, and diversified
15 firefighting workforce that exists in a "safety first" and "readiness"
16 environment.

17

18 Training and Core Competencies

- 19 ● Attend a regional or national Fire Management Leadership for Agency
20 Administrators training session;
- 21 ● Require a shadow assignment with a fully qualified agency administrator;
- 22 ● Receive training or experience with the Wildland Fire Decision Support
23 System (WFDSS); and
- 24 ● Ability to provide a Delegation of Authority to incident commanders.

25

26 Line Officer Certification Program

27 The following principles will guide certification of agency administrators in fire
28 management:

- 29 ● Regional Foresters are accountable for certification of line officers;
- 30 ● Line officer evaluation includes standards for training, background and
31 experience, and demonstrated ability, which will result in a qualitative
32 evaluation of readiness by the Regional Forester;
- 33 ● When the complexity level of a fire exceeds a line officer's certification, a
34 coach will be assigned to advise (but not replace);
- 35 ● This certification program will be periodically evaluated and updated as
36 needed;
- 37 ● Assistance with decision documentation and analysis can be requested
38 through the Wildland Fire Management RD&A- National Fire Decision
39 Support Center (NFDSC); and
- 40 ● The Coaching/Shadowing program, to be administered by each region, is an
41 integral part of this certification program.

42

43 Line Officers will be evaluated in three basic areas:

- 44 ● Training;
- 45 ● Background and experience; and

- 1 • Demonstrated understanding of concepts and principles.

2

3 This certification program is a multi-level process where line officers
4 demonstrate competence in one of three levels of managing fires. Those levels
5 would be Working, Journey, and Advanced.

6

7 **Guidelines**

8 In consideration of the appropriate level (Working, Journey, and Advanced) to
9 assign a line officer, the Regional Forester should consider the following
10 guidelines:

- 11 • For individuals that do not meet at least the Working Level, a coach will be
12 assigned to support that line officer in managing Type 3 or higher wildfire
13 incidents.

14

15 **Working Level** - The line officer could manage a low to moderate complexity
16 fire. The line officer should meet the following:

- 17 • **Training:** Fire Management Leadership or National Fire Management for
18 Line Officers, and attain WFDSS Certification as described per
19 authorization level in FSM 5120.
- 20 • **Background and Experience:**
- 21 ○ Successful management of a minimum of one Type 3 or higher fire, or
 - 22 one successful higher complexity fire (Type 2 or higher) quality
 - 23 shadow assignment (consider complexity and size of the fires).
 - 24 ○ Management oversight of a low-complexity fire program and/or
 - 25 experience as an agency administrator or representative.
 - 26 ○ Applicable experience in all hazard or other incident oversight may be
 - 27 considered in lieu of this experience.
 - 28 ○ Consider career fire experience.
- 29 • **Demonstrated Ability:** Successful evaluation by a coach (including
30 feedback from ICs or ACs) that the candidate has demonstrated
31 understanding and application of the responsibilities of an agency
32 administrator on smaller low-complexity fires with a basic understanding of
33 the elements of the core competencies.

34

35 **Journey Level** - The line officer could manage a moderate to high complexity
36 fire. The line officer needs to be certified at the Working Level and should meet
37 the following:

- 38 • **Training:** Fire Management Leadership or National Fire Management for
39 Line Officers, and attain WFDSS Certification as described per
40 authorization level in FSM 5120.
- 41 • **Background and Experience:**
- 42 ○ Successful management of a minimum of one Type 2 or higher fire, or
 - 43 one successful higher complexity fire (Type I) quality shadow
 - 44 assignment, depending on fire experience (complexity and size of the
 - 45 fires should be considered).

- 1 ○ Management oversight of a moderate-complexity fire program, or
- 2 experience as an agency administrator or representative on Type 2 or
- 3 higher fires.
- 4 ○ Applicable experience in all-hazard or other incident oversight may
- 5 also be considered in lieu of other guidelines.
- 6 ● **Demonstrated Ability:** Successful evaluation by a coach (including
- 7 feedback from ICs or ACs) that the candidate has demonstrated
- 8 understanding and application of the responsibilities of an agency
- 9 administrator on moderate to large complex fires in the core competencies,
- 10 and other elements that may be relevant.

11

12 **Advanced Level** - The line officer could manage a high complexity fire. The

13 line officer needs to be certified at the Journey Level, and should meet the

14 following:

- 15 ● **Training:** Fire Management Leadership or National Fire Management for
- 16 Line Officers, and attain WFDSS Certification as described per
- 17 authorization level in FSM 5120.
- 18 ● **Background and Experience:**
- 19 ○ Successful management of a minimum of five Type 1 or 2 fires (at least
- 20 one of which is a Type 1 fire), depending on fire experience
- 21 (complexity and size of the fires should be considered).
- 22 ○ Management oversight of a moderate to high-complexity fire program.
- 23 ○ Applicable experience in all hazard or other incident oversight may
- 24 also be considered in lieu of other guidelines.
- 25 ● **Demonstrated Ability:** Successful evaluation by a coach (including
- 26 feedback from ICs or ACs) that the candidate has demonstrated
- 27 understanding and application of the responsibilities of an agency
- 28 administrator on large complex fires in the core competencies, and other
- 29 elements that may be relevant.

30

31 **Other Considerations**

32 Core competencies, consistent with Fire Doctrine principles, include:

- 33 ● Safety.
- 34 ● Strategies and tactics for cost containment.
- 35 ● Incident management processes.
- 36 ● Understanding of decision support tools.
- 37 ● Situational awareness of resource availability & allocation.
- 38 ● Understanding fire agreements and cost apportionment.
- 39 ● WFDSS experience.
- 40 ● Monitoring and evaluation of fire operations.
- 41 ● Risk management.
- 42 ● Social/political awareness and interpersonal relations.

43

44

- 1 Other training opportunities to achieve core competencies - Additional training
2 opportunities/suggestions (will be updated as program is evaluated):
- 3 ● Upper levels of fire leadership and fire management courses
 - 4 ● Function as the Line Officer in sand table exercises and training simulations
5 in S-420, S-520, and other fire courses.
 - 6 ● Participate in advanced risk management training.
 - 7 ● Get assigned to a Type 1 or Type 2 team as a training assignment (e.g.
8 shadow Plans) and see the world from their viewpoint.
 - 9 ● WFDSS training (see the WFDSS homepage <http://wfdss.usgs.gov/wfdss>
10 for training materials).
 - 11 ● Include risk management and fire management topics during annual line
12 officer meetings.
 - 13 ● Attend staff rides (staff rides need to include a stand that portrays the line
14 officer perspective).
 - 15 ● Participate in prescribed fires and/or attend prescribed fire training.
 - 16 ● Participate in other leadership and/or decision-making training.

17 18 **Guidance on the Selection of Coaches**

19 Coaches can be current or former line officers. The Regional Forester
20 determines the level of certification for which a coach is qualified.

21 Criteria for individuals serving as Coaches are as follows:

- 22 ● Must be a “Journey” level line officer in dealing with large fire incident, or
23 rated at an experience level commensurate with incident being managed.
24 Present and past agency administrators can serve as coaches, including
25 retirees that were qualified/experienced.
- 26 ● Must be willing and able to serve as a Coach.

27 28 **Specific Agency Administrator Responsibilities for Fire and Aviation at the** 29 **Field Level**

30 31 **Responsibilities**

- 32 ● Integrate fire and fuels management across all functional areas.
- 33 ● Implement fire management strategies and integrate natural resource
34 concerns into collaborative community protection and ecosystem restoration
35 strategies on the unit.
- 36 ● Manage a budget that includes fire preparedness, prevention, suppression,
37 and hazardous fuels in an annual program of work for the unit.
- 38 ● Perform duties of agency administrator and maintain those qualifications.
- 39 ● Provide a fully staffed, highly qualified, and diverse workforce in a "safety
40 first" environment.

41
42 These responsibilities are based on current policy and provide program guidance
43 to ensure safe, consistent, efficient, and effective fire and aviation operations.

44
45

1 Preparedness

- 2 • Take all necessary and prudent actions to ensure firefighter and public
3 safety.
- 4 • Ensure sufficient qualified fire and non-fire personnel are available to
5 support fire operations at a level commensurate with the local and national
6 fire situation.
- 7 • Ensure accurate position descriptions are developed and reflect the
8 complexity of the unit. Individual Development Plans promote and enhance
9 FMO currency and development.
- 10 • Provide a written Delegation of Authority to FMOs that provides an
11 adequate level of operational authority at the unit level. Include Multi-
12 Agency Coordinating (MAC) Group authority, as appropriate.
- 13 • Identify resource management objectives to maintain a current Fire
14 Management Plan (FMP) that identifies an accurate level of funding for
15 personnel and equipment.
- 16 • Develop preparedness standards that are in compliance with agency fire
17 policies.
- 18 • Management teams meet once a year to review fire and aviation policies,
19 roles, responsibilities, and delegations of authority. Specifically address
20 oversight and management controls, critical safety issues, and high-risk
21 situations such as transfers of incident command, periods of multiple fire
22 activity, and Red Flag Warnings.
- 23 • Ensure fire and aviation preparedness reviews are conducted each year and
24 include the key components of the record of decision for the nationwide
25 aerial application of fire retardant on National Forest System land.
- 26 • Meet annually with cooperators and review interagency agreements to
27 ensure their continued effectiveness and efficiency.
- 28 • Meet annually with local US Fish and Wildlife Service and NOAA
29 Fisheries specialists to ensure the avoidance maps reflect changes during
30 the year on additional species or changes made for designated critical
31 habitat, and reporting and monitoring guidelines are still valid and being
32 applied.
- 33 • Convene and participate in annual conferences and fire reviews.
- 34 • Agency administrators, Fire Program Managers, and/or Safety and Health
35 Program Managers shall conduct after action reviews on all Type 3 fires
36 and a minimum of 10% of their unit's Type 4 and 5 fires and document
37 their inspections in the incident records.

38
39 Suppression

- 40 • Ensure use of fire funds is in compliance with Agency policies.
- 41 • All fires must utilize the WFDSS to inform and document decisions related
42 to course of action, resource allocations, and risk management
43 considerations. WFDSS will be used to approve and publish decisions on
44 all fires that exceed initial attack or include a resource management
45 objective. See table below for WFDSS approval authorities.

- 1 • Personally attend reviews on Type 1 and Type 2 fires. Ensure agency
- 2 administrator representatives are assigned when appropriate.
- 3 • Provide incident management objectives (all wildfires must have a
- 4 protection objective), written delegations of authority, and a complete
- 5 agency administrator briefing to Incident Management Teams.
- 6 • Ensure briefings include any applicable information for avoidance areas and
- 7 waterways per the nationwide aerial application of fire retardant direction,
- 8 mapping, and cultural resources. Include the reporting requirements in the
- 9 briefing if a misapplication of fire chemical occurs. Provide resource
- 10 advisors if the use of aerially applied fire retardant is expected and the unit
- 11 has mapped avoidance areas (which include waterways and 300' or larger
- 12 buffers) and otherwise evaluate the need for resource advisors for all other
- 13 fires, and assign as appropriate.
- 14 • For all unplanned human-caused fires where responsibility can be
- 15 determined, ensure actions are initiated to recover cost of suppression
- 16 activities, land rehabilitation, damages to the resource, and improvements.
- 17 • Ensure structure exposure protection principles are followed.

18
19 **Responsibilities and Oversight**

- 20 • Agency Administrators are responsible for all aspects of fire management.
- 21 • Agency Administrators will ensure that all Forest Service employees and
- 22 employees of interagency partners working on Forest Service jurisdiction
- 23 wildfires clearly understand direction.
- 24 • Agency Administrators must approve and publish decisions in WFDSS (and
- 25 subsequent courses of action) and issue delegations of authority to the
- 26 incident commander. The agency administrator authority is based on
- 27 incident type, as directed in FSM 5131.3.

Incident Type	USFS Approval*
Type I	Regional Forester level with National oversight
Type II	Forest Supervisor level with oversight by the Regional Forester
Type III, IV, V	District Ranger level with oversight by the Forest Supervisor

29 *This Authority may be delegated to the next level provided that the line
30 officer at the next level meets Line Officer wildfire response certification
31 requirements.

- 32
- 33 • Critical long duration wildfire oversight roles include ensuring that:
 - 34 ○ Up-to-date Published decisions are completed and documented in
 - 35 WFDSS.
 - 36 ○ Hazards are identified and risk assessments are incorporated into
 - 37 Published Decisions.

- 1 ○ Coordination with partners and potentially affected parties is conducted
- 2 (including smoke impacts). Unified command is implemented early if
- 3 necessary.
- 4 ○ Resource capacity and availability are adequately assessed to meet
- 5 expectations.
- 6 ● This oversight role should address concerns of the states, cooperators, and
- 7 the public including air quality impacts from multiple wildfires.

8

9 Safety

- 10 ● Review safety policies, procedures, and concerns with field fire and
- 11 aviation personnel.
- 12 ● Ensure timely follow-up actions to program reviews, fire preparedness
- 13 reviews, fire and aviation safety reviews, and management reviews.
- 14 ● Monitor the fire situation and provide oversight during periods of critical
- 15 fire activity and situations of high risk.
- 16 ● Ensure there is adequate direction in fire management plans to maintain fire
- 17 danger awareness.
- 18 ● Take appropriate actions with escalating fire potential.
- 19 ● Ensure appropriate investigation or Lessons Learned analyses are conducted
- 20 for incidents, entrapments, and serious accidents.

21

22 Prescribed Fire

- 23 ● Ensure an approved burn plan is followed for each prescribed fire project,
- 24 including follow-up monitoring and documentation to ensure management
- 25 objectives are met.
- 26 ● Provide management oversight by personally visiting wildland and
- 27 prescribed fire activities each year.
- 28 ● Ensure compliance with National and Regional Office policy and direction
- 29 for prescribed fire activities and ensure that periodic reviews and
- 30 inspections of the prescribed fire program are completed.
- 31 ● Approve Prescribed Fire Plans. Authority may be delegated to other Line
- 32 Officers as provided under agency guidance and policy.
- 33 ● Review Prescribed Fire Plans and recommend or approve the plans
- 34 depending upon the delegated authority. Ensure that the Prescribed Fire
- 35 Plan has been reviewed and recommended by a qualified technical reviewer
- 36 who was not involved in the plan preparation.

37

38 Fire Management Positions

39 The following standards show the minimum operational experience required for
40 fire management positions. The *Interagency Fire Program Management*
41 *Qualifications Standard (IFPM)* and *Forest Service Fire Program Management*
42 *Standard (FS-FPM)* will be used in conjunction with specific agency
43 requirements when filling vacant fire program positions, and as an aid in
44 developing Individual Development Plans (IDPs) for employees.

45

**1 Specific Fire Management Staff Responsibilities for Fire Operations at the
2 Field Level**

3

4 Preparedness

- 5 ● Use sound risk management practices as the foundation for all aspects of
6 fire and aviation management.
- 7 ● Ensure that only trained and qualified personnel are assigned to fire and
8 aviation duties.
- 9 ● Develop, implement, evaluate, and document fire and aviation training
10 program to meet current and anticipated needs.
- 11 ● Establish an effective process to gather, evaluate, and communicate
12 information to managers, supervisors, and employees. Ensure clear concise
13 communications are maintained at all levels.
- 14 ● Ensure fire and aviation management staffs understand their roles,
15 responsibilities, authority, and accountability.
- 16 ● Develop and maintain effective communication with the public and
17 cooperators.
- 18 ● Regardless of funding level, provide a safe, effective, and efficient fire
19 management program.
- 20 ● Organize, train, equip, and direct a qualified work force. An Individual
21 Development Plan (IDP) must be provided for incumbents who do not meet
22 new standards. Establish qualification review process.
- 23 ● Take appropriate action when performance is exceptional or deficient.
- 24 ● Ensure fire and aviation policies are understood, followed, and coordinated
25 with other agencies as appropriate.
- 26 ● Ensure that adequate resources are available to implement fire management
27 operations.
- 28 ● Provide fire personnel with adequate guidance, training, and decision-
29 making authority to ensure timely decisions.
- 30 ● Develop and maintain agreements, annual operating plans, and contracts on
31 an interagency basis to increase effectiveness and efficiencies.
- 32 ● Develop, maintain, and annually evaluate the FMP to ensure accuracy and
33 validity.
- 34 ● Ensure budget requests and allocations reflect preparedness requirements in
35 the FMP.
- 36 ● Develop and maintain current operational plans. (e.g., dispatch, pre-attack,
37 prevention).
- 38 ● Ensure that reports and records are properly completed and maintained.
- 39 ● Ensure fiscal responsibility and accountability in planning and expenditures.
- 40 ● Assess, identify, and implement program actions that effectively reduce
41 unwanted wildland fire ignitions and mitigate risks to life, property, and
42 resources.
- 43 ● Work with cooperators to identify processes and procedures for providing
44 fire safe communities within the wildland urban interface.

45

1 Suppression

- 2 ● Provide for and personally participate in periodic site visits to individual
3 incidents and projects.
- 4 ● Utilize the Organizational Needs Assessment and/or Complexity Analysis
5 to ensure the proper level of management is assigned to all incidents.
- 6 ● Ensure incoming personnel and crews are briefed prior to fire and aviation
7 assignments.
- 8 ● Coordinate the development of Published Decisions within WFDSS with
9 local unit staff specialists for all fires that escape initial attack.
- 10 ● Ensure effective transfer of command of incident management occurs and
11 safety is considered in all functional areas.
- 12 ● Monitor fire activity to anticipate and recognize when complexity levels
13 exceed program capabilities. Increase managerial and operational resources
14 to meet needs.
- 15 ● Complete cost recovery actions when unplanned human-caused fires occur.
- 16 ● Ensure structure exposure protection principles are followed.
- 17 ● Ensure all misapplications of wildland fire chemicals are reported and
18 appropriate consultation conducted as needed (see Chapter 12).
- 19 ● Ensure 5% assessment of fires less than 300 acres that had aerial fire
20 retardant used and have avoidance areas as a result of the record of decision
21 for the nationwide aerial application of fire retardant on National Forest
22 System land is completed and documented for misapplication reporting.
- 23 ● Ensure all assessments of impacts to threatened and endangered species or
24 cultural resources are conducted by trained and qualified resource
25 personnel.

26 Safety

- 28 ● Ensure completion of a Job Hazard Analysis (JHA) for fire and fire aviation
29 activities, and implement applicable risk mitigation measures.
- 30 ● Ensure work/rest and R&R guidelines are followed during all fire and
31 aviation activities. Deviations are approved and documented.
- 32 ● Initiate, conduct, and/or participate in fire management related reviews and
33 investigations.
- 34 ● Monitor fire season severity predictions, fire behavior, and fire activity
35 levels. Take appropriate actions to ensure safe, efficient, and effective
36 operations.

37 Prescribed Fire

- 39 ● Ensure a written, approved burn plan exists for each prescribed fire project.
- 40 ● Ensure all escaped prescribed fires receive a review at the proper level.
- 41 ● Provide the expertise and skills to fully integrate fire and aviation
42 management into interdisciplinary planning efforts.
- 43 ● Ensure compliance with National and Regional Office policy and direction
44 for prescribed fire activities and ensure that program reviews and
45 inspections of the prescribed fire program are completed.

1 Structure Exposure Protection Principles

2

3 Mission and Role

4 A significant role of the Forest Service is to manage natural resources on public
5 land, and management of unwanted wildland fire is a primary mission in that
6 role. Wildland firefighter training, tools, and personal protective equipment are
7 based on the wildland environment. This does not prevent using wildland
8 tactics in the Wildland Urban Interface (WUI) when risks are mitigated.
9 Wildland firefighter training for the WUI, however, is centered on the concepts
10 of preventing wildland fire from reaching areas of structures and/or reducing the
11 intensity of fire that does reach structures. Fire suppression actions on structures
12 that are outside federal jurisdiction, outside the scope of wildland firefighting
13 training, or beyond the capability of wildland firefighting resources are not
14 appropriate roles for the Forest Service.

15

16 Forest Service leadership will express clear and concise “leader’s intent” to
17 ensure structure protection assignments are managed safely, effectively, and
18 efficiently. Leaders are expected to operate under existing policies and doctrine
19 under normal conditions. Where conflicts occur, employees will be expected to
20 weigh the risk versus gain, and operate within the intent of Agency policy and
21 doctrine.

22

23 Strategic Principles

- 24 ● The Forest Service actively supports creation of Firewise Communities and
25 structures that can survive wildland fire without intervention. We support
26 the concept that property owners have primary responsibility for reducing
27 wildfire risks to their lands and assets.
- 28 ● The Forest Service will actively work toward applying Firewise concepts to
29 all Forest Service owned structures, facilities, and permitted use to serve as
30 a model to publics and communities.
- 31 ● The Forest Service will apply strategy and tactics to keep wildland fires
32 from reaching structures, as prudent to do so, considering risk management
33 for firefighters and publics, fire behavior, values at risk including natural
34 resources, availability of firefighting resources, and jurisdictional
35 authorities.
- 36 ● The Forest Service will be proactive in developing agreements with
37 interagency partners to clarify its structure protection policy.
- 38 ● The Forest Service structure protection role is based on the assumption that
39 other Departments and agencies will fulfill their primary roles and
40 responsibilities. The Forest Service will not usurp individual, local, or state
41 responsibility for structure protection.
- 42 ● Prior to task implementation, a specific structure protection role briefing
43 will be accomplished.

44

45

46

1 **Tactical Applications**

2

3 **Structure Protection Definition**

4 Actions taken in advance of a fire reaching structures or other improvements are
5 intended to safely prevent the fire from damaging or destroying these values at
6 risk. For the Forest Service, structure protection involves the use of standard
7 wildland fire suppression tactics and control methods; including the use of
8 standard equipment, fire control lines, and the extinguishing of spot fires near or
9 on the structure when safe and practical.

10

11 **USFS Role**

12 As documented in a Forest Service doctrinal principle, "Agency employees
13 respond when they come across situations where human life is immediately at
14 risk or there is a clear emergency, and they are capable of assisting without
15 undue risk to themselves or others". This principle serves as a foundational
16 basis for the roles employees play in structure protection.

17

18 Pursuant to this "structure protection" policy provided above, Forest Service
19 personnel may engage support from other cooperators in structure protection
20 activities when 1) requested by local government under terms of an approved
21 cooperative agreement or 2) when operating within a unified command. The
22 agency is permitted, without agreement, to render emergency assistance to a
23 local government in suppressing wildland fires, and in preserving life and
24 property from the threat of fire, when properly trained and equipped agency
25 resources are the closest to the need, and there is adequate leadership to do so
26 safely. The agency will NOT routinely provide primary emergency response
27 (medical aids, fire suppression, HAZMAT, etc... as identified on "run cards" or
28 preplanned dispatch scenarios) nor will the agency supplant the local
29 government responsibility to do so.

30

31 The contents of a cooperative agreement will clearly define the responsibilities
32 of partners. Regarding structural fire protection, typical Forest Service
33 responsibilities in the case of mutual aid, initial attack, extended attack, or large
34 fire support include:

- 35 • To provide initial attack through extended attack actions consistent with
36 application of wildland fire strategy and tactics.
- 37 • To supply water in support of tribal, state or local agencies having
38 jurisdictional responsibility for the fire. This would include the use of water
39 tenders, portable pumps, hose, tanks, and supporting draft sites.
- 40 • To assist or supply foam or chemical suppressant capability with engines or
41 aerial application.
- 42 • To assist local authorities in the event of evacuations.
- 43 • To assist local authorities by assessing (triaging) structures for defensibility
44 from wildfire.
- 45 • To coordinate with local authorities on actions taken by Private Structure
46 Protection Companies.

1 As such, there should not be an expectation that the Forest Service will:

- 2 • “Wrap” or set up and administer sprinklers around privately owned
3 structures.
- 4 • Remove fuels immediately surrounding a structure such as brush,
5 landscaping, or firewood.

6

7 As addressed above, the Forest Service will apply strategy and tactics to keep
8 wildland fires from reaching structures, as prudent to do so, considering risk
9 management for firefighters and publics, fire behavior, values at risk including
10 natural resources, availability of firefighting resources, and jurisdictional
11 authorities.

12

13 The Forest Service shall not:

- 14 • Take direct suppression actions on structures other than those that tactically
15 reduce the threat of fire spread to them.
- 16 • Enter structures or work on roofs of structures for the purpose of direct
17 suppression actions.

18

19 In consideration of Forest Service owned or leased structures outside of
20 structure fire protection areas these same policies apply. The use of Firewise
21 principles and aggressive fire prevention measures will be employed for Forest
22 Service structures at every opportunity.

23

24 If a Forest Service structure is determined to be at risk, “wrapping” or other
25 indirect protection methods for the structure can be authorized by the Agency
26 Administrator. Documentation of these decisions needs to be placed in the fire
27 documentation package and the unit files. Any employee engaged in
28 “wrapping” or other indirect methods of protection operations will be
29 thoroughly briefed and trained in correct safety and personal protection
30 equipment procedures, especially if the use of ladders or climbing on the
31 structure is necessary. In any case, the Forest Service holds that no structure is
32 worth the risk of serious injury to an employee in an attempt to protect that
33 structure or facility from fire.

34

35 **Local Government Role**

36 Local government has the responsibility for emergency response, including
37 structure protection, within their jurisdiction. This responsibility is usually
38 found within the fire agencies’ charter and is substantiated by tax dollar revenue
39 (sales and/or property tax).

40

41 **Cost**

42 Local governments assume the financial responsibility for emergency response
43 activities, including structure protection, within their jurisdictions. Local
44 government will order resources deemed necessary to protect structures within
45 their jurisdiction. Local agencies will not be reimbursed for performing their
46 responsibilities within their jurisdiction.

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1 Tactical Operating Principles

2 When engaging in structure protection activities, as defined above, Forest

3 Service personnel will apply the following principles:

- 4 ● The first priority for all risk-decisions is human survival, both of firefighters
5 and the public.
- 6 ● Incident containment strategies specifically address and integrate protection
7 of defensible improved property and wildland values.
- 8 ● Direct protection of improved property is undertaken when it is safe to do
9 so, when there are sufficient time and appropriate resources available, and
10 when the action directly contributes to achieving overall incident objectives.
- 11 ● Firefighter decision to accept direction to engage in structure protection
12 actions is based on the determination that the property is defensible and the
13 risk to firefighters can be safely mitigated under the current or potential fire
14 conditions.
- 15 ● A decision to delay or withdraw from structure protection operations is the
16 appropriate course of action when made in consideration of firefighter
17 safety, current or potential fire behavior, or defensibility of the structure or
18 groups of structures.
- 19 ● Firefighters at all levels are responsible to make risk-decisions appropriate
20 to their individual knowledge, experience, training, and situational
21 awareness.
- 22 ● Every firefighter is responsible to be aware of the factors that affect their
23 judgment and the decision-making process, including: a realistic perception
24 of their own knowledge, skills, and abilities, the presence of life threat or
25 structures, fire behavior, availability of resources, social/political pressures,
26 mission focus, and personal distractions such as home, work, health, and
27 fatigue.
- 28 ● An individual's ability to assimilate all available factors affecting
29 situational awareness is limited in a dynamic wildland urban interface fire
30 environment. Every firefighter is responsible to understand and recognize
31 these limitations, and to apply experience, training and personal judgment
32 to observe, orient, decide, and act in preparation for the "worst case".
- 33 ● It is the responsibility of every firefighter to participate in the flow of
34 information with supervisors, subordinates, and peers. Clear and concise
35 communication is essential to overcome limitations in situational
36 awareness.

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Chapter 6

RESERVED

This chapter is reserved.

Chapter 07 Safety and Risk Management

Introduction

The primary means by which we prevent accidents in wildland fire operations is through aggressive risk management. Our safety philosophy acknowledges that while the ideal level of risk may be zero, a hazard free work environment is not a reasonable or achievable goal in fire operations. Through organized, comprehensive, and systematic risk management, we will determine the acceptable level of risk that allows us to provide for safety yet still achieve fire operations objectives. Risk management is intended to minimize the number of injuries or fatalities experienced by wildland firefighters.

Policy

Firefighter and public safety is our first priority. All Fire Management Plans and activities must reflect this commitment. The commitment to and accountability for safety is a joint responsibility of all firefighters, managers, and administrators. Every supervisor, employee, and volunteer is responsible for following safe work practices and procedures, as well as identifying and reporting unsafe conditions.

Agency Specific Safety Policy Documents:

- *BLM - BLM Handbook 1112-1, 1112-2*
- *FWS - Service Manual 241 FW7, Firefighting*
- *NPS - DO-50 and RM-50 Loss Control Management Guideline*
- *FS - FSM 5100 and chapters, FSH-6709.11 Health and Safety Code Handbook*

For additional safety guidance, refer to:

- *Fireline Handbook* (PMS 410-1, NFES 0065).
- *Incident Response Pocket Guide (IRPG)* (PMS 461, NFES 1077)

Guiding Principles

The primary means by which we implement command decisions and maintain unity of action is through the use of common principles of operations. These principles guide our fundamental wildland fire management practices, behaviors, and customs, and are mutually understood at every level of command. They include Risk Management, Standard Firefighting Orders and Watch Out Situations, LCES and the Downhill Line Construction Checklist. These principles are fundamental to how we perform fire operations, and are intended to improve decision making and firefighter safety. They are not absolute rules. They require judgment in application.

Goal

1
2
3 The goal of the fire safety program is to provide direction and guidance for safe
4 and effective management in all activities. Safety is the responsibility of
5 everyone assigned to wildland fire, and must be practiced at all operational
6 levels from the national fire director, state/regional director, and unit manager to
7 employees in the field. Agency administrators need to stress that firefighter and
8 public safety always takes precedence over property and resource loss.
9 Coordination between the fire management staff and unit safety officer(s) is
10 essential in achieving this objective.

Definitions

11
12
13
14 **Safety:** A measure of the degree of freedom from risk or conditions that can
15 cause death, physical harm, or equipment or property damage.

16 **Hazard:** A condition or situation that exists within the working environment
17 capable of causing physical harm, injury, or damage.

18 **Risk:** The likelihood or possibility of hazardous consequences in terms of
19 severity or probability.

20 **Risk Management:** The process whereby management decisions are made and
21 actions taken concerning control of hazards and acceptance of remaining risk.

Risk Management Process

22
23
24
25 Fire operations risk management is outlined in the *NWCG Incident Response*
26 *Pocket Guide (IRPG)*. The five step process provides firefighters and fire
27 managers a simple, universal, and consistent way to practice risk management
28 by:

- 29 • Establishing situation awareness.
- 30 • Identifying hazards and assessing the risk.
- 31 • Controlling or eliminating hazards.
- 32 • Making decisions based on acceptability of remaining risk.
- 33 • Evaluating effectiveness of hazard controls and continuously re-evaluating
34 the situation.

Job Hazard Analysis (JHA)/Risk Assessment (RA)

35
36
37
38 A completed JHA/RA is required for:

- 39 • Jobs or work practices that have potential hazards.
- 40 • New, non-routine, or hazardous tasks to be performed where potential
41 hazards exist.
- 42 • Jobs that may require the employee to use non-standard personal protective
43 equipment (PPE).
- 44 • Changes in equipment, work environment, conditions, policies, or materials.

- 1 • Supervisors and appropriate line managers must ensure that established
2 JHAs are reviewed and signed prior to any non-routine task or at the
3 beginning of the fire season.
- 4 ○ *BLM- Additional RA information can be obtained at:*
5 *<http://web.blm.gov/portal/employeeresources/allemployees/safety/riskm>*
6 *anagement.php*

8 **Work/Rest**

9
10 To mitigate fatigue, agency administrators, fire managers, supervisors, incident
11 commanders, and individual firefighters should plan for and ensure that all
12 personnel are provided a minimum 2:1 work/rest ration (for every 2 hours of
13 work or travel, provide 1 hour of sleep and/or rest). Work shifts that exceed 16
14 hours and/or consecutive days that do not meet the 2:1 work/rest ratio should be
15 the exception. When this occurs, the following actions are required:

- 16 • Personnel will resume 2:1 work/rest ratio as quickly as possible.
- 17 • The Incident Commander or Agency Administrator will justify work shifts
18 that exceed 16 hours and/or consecutive days that do not meet 2:1 work to
19 rest ratio. Justification will be documented in the daily incident records,
20 and must include mitigation measures used to reduce fatigue.
- 21 • The Time Officer's/Unit Leader's approval of the Emergency Firefighter
22 Time Report (OF-288), or other agency pay document, certifies that the
23 required documentation is on file and no further documentation is required
24 for pay purposes.

25
26 The work/rest guidelines do not apply to aircraft pilots assigned to an incident.
27 Pilots must abide by applicable Federal Aviation Administration (FAA)
28 guidelines, or agency policy if more restrictive.

30 **Length of Assignment**

32 **Assignment Definition**

33 An assignment is defined as the time period (days) between the first full
34 operational period at the first incident or reporting location on the original
35 resource order and commencement of return travel to the home unit.

37 **Length of Assignment**

38 Standard assignment length is 14 days, exclusive of travel from and to home
39 unit, with possible extensions identified below. Time spent in staging and
40 preposition status counts toward the 14-day limit, regardless of pay status, for all
41 personnel, including Incident Management Teams.

43 **Days Off**

44 To assist in mitigating fatigue, days off are allowed during and after
45 assignments. Agency Administrators (AAs) (incident host or home unit) may
46 authorize time off supplementary to mandatory days off requirements.

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1 The authority to grant a day off with pay lies within 5 U.S.C. 6104, 5 CFR
2 610.301-306, and 56 Comp. Gen. Decision 393 (1977).

3
4 After completion of a 14 day assignment and return to the home unit, two
5 mandatory days off will be provided (2 after 14). Days off must occur on the
6 calendar days immediately following the return travel in order to be charged to
7 the incident. (See Section 12.1-2) (5 U.S.C. 6104, 5 CFR 610.301-306, and 56
8 Comp. Gen. Decision 393 (1977). If the next day(s) upon return from an
9 incident is/are a regular work day(s), a paid day(s) off will be authorized.
10 Regulations may preclude authorizing this for non-NWCG and state/local
11 employees.

12
13 Pay entitlement, including administrative leave, for a paid day(s) off cannot be
14 authorized on the individual's regular day(s) off at their home unit. Agencies
15 will apply holiday pay regulations, as appropriate. A paid day off is recorded on
16 home unit time records according to agency requirements. Casuals (AD) are not
17 entitled to paid day(s) off upon release from the incident or at their point of hire.

18
19 Contract resources are not entitled to paid day(s) off upon release from the
20 incident or at their point of hire.

21
22 Home unit agency administrators may authorize additional day(s) off with
23 compensation to further mitigate fatigue. If authorized, home unit program
24 funds will be used. All length of assignment rules apply to aviation resources,
25 including aircraft pilots, notwithstanding the FAA and agency day off
26 regulations.

27 **Assignment Extension**

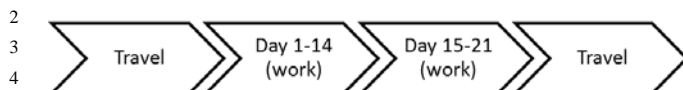
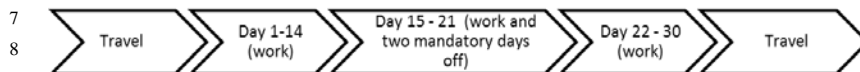
28 Prior to assigning incident personnel to back-to-back assignments, their health,
29 readiness, and capability must be considered. The health and safety of incident
30 personnel and resources will not be compromised under any circumstance.

- 31
- 32 • Assignments may be extended when:
 - 33 ○ Life and property are imminently threatened.
 - 34 ○ Suppression objectives are close to being met.
 - 35 ○ A military battalion is assigned.
 - 36 ○ Replacement resources are unavailable, or have not yet arrived.

37
38 Upon completion of the standard 14-day assignment, an extension of up to an
39 additional 14 days may be allowed (for a total of up to 30 days, inclusive of
40 mandatory days off, and exclusive of travel). Regardless of extension duration,
41 two mandatory days off will be provided prior to the 22nd day of the assignment.

42 14-Day Scenario



1 21-Day Scenario6 30-Day Scenario

11 Contracts, Incident Blanket Purchase Agreements (I-BPA), and Emergency
 12 Equipment Rental Agreements (EERA) should be reviewed for appropriate pay
 13 requirements and length of assignment. If the contract, I-BPA, or EERA do not
 14 address this, the incident Finance/Administration Section Chief or the
 15 procurement official should be consulted as to whether compensation for a day
 16 off is appropriate.

17 **Single Resource/Kind Extensions**

18 The section chief or incident commander will identify the need for assignment
 19 extension and will obtain the affected resource's concurrence. The section chief
 20 and affected resource will acquire and document the home unit supervisor's
 21 approval.
 22

23
 24 The incident commander approves the extension. If a convened geographic or
 25 national multi-agency coordinating group (GMAC/NMAC) directs, the incident
 26 commander approves only after GMAC/NMAC concurrence.
 27

28 If the potential exists for reassignment to another incident during the extension,
 29 the home unit supervisor and the affected resource will be advised and must
 30 concur prior to reassignment.
 31

32 **Incident Management Team Extensions**

33 Incident management team extensions are to be negotiated between the incident
 34 agency administrator, the incident commander, and the GMAC/NMAC (if
 35 directed).
 36

37 **Maximum Consecutive Days Worked- Home Unit**

38 During extended periods of activity at the home unit, personnel will have a
 39 minimum of 1 day off in any 21-day period.
 40

41 **Driving Standard**

42
 43 All employees driving motor vehicles are responsible for the proper care,
 44 operation, maintenance, and protection of the vehicle, and to obey all federal
 45 and state laws.
 46

1 The use of government-owned, rented, or leased motor vehicles is for official
2 business only. Unauthorized use is prohibited.

3

4 **General Driving Policy**

- 5 ● Employees must have a valid state driver's license in their possession for
6 the appropriate vehicle class before operating the vehicle. Operating a
7 government-owned or rental vehicle without a valid state driver's license is
8 prohibited.
- 9 ● All drivers whose job duties require the use of a motor vehicle will receive
10 initial defensive driver training within three months of entering on duty and
11 refresher driver training every three years thereafter.
- 12 ● All traffic violations or parking tickets will be the operator's responsibility.
- 13 ● All driving requiring a CDL will be performed in accordance with
14 applicable Department of Transportation regulations.
- 15 ● Seat belts must be available and used in agency motor vehicles. Without
16 exception, seat belts must be worn at all times by motor vehicle operators
17 and passengers, regardless of the distance to be traveled or the time
18 involved. If any employee fails to fasten their seat belt while riding in a
19 vehicle on official business, they are subject to disciplinary action as
20 determined by local management.
- 21 ● Employees operating any motor vehicle with a GVWR of 26,000 pounds or
22 more, towing a vehicle 10,000 pounds GVWR or more, hauling hazardous
23 material requiring the vehicle to be placarded, or transporting 16 or more
24 persons (including the driver) must possess a valid Commercial Drivers
25 License (CDL) with all applicable endorsements. Program funds are
26 authorized to pay for the cost of CDL licensing fees and exams, necessary
27 for employees to operate fire equipment. In those cases where a test has
28 been failed and must be retaken, the employee will be responsible for costs
29 associated with additional testing.
 - 30 ○ *BLM - All employees operating a Government motor vehicle will be*
31 *required to submit Form DI-131 (Application for U.S. Government*
32 *Motor Vehicle Operator's Identification Card) and OF-345 (Physical*
33 *Fitness Inquiry for Motor Vehicle Operators). When the supervisor*
34 *signs the DI-131, the employee is authorized to operate Government-*
35 *owned or leased vehicles, or privately-owned vehicles on official*
36 *business. Individual office forms equivalent to the OF-345 and DI-131*
37 *are acceptable.*
 - 38 ○ *FS - Policy requires all operators of government owned, or leased*
39 *vehicles to have a Forest Service issued Operator's Identification Card*
40 *(OF-346) indicating the type of vehicles or equipment the holder is*
41 *authorized and qualified to operate.*
 - 42 ○ *BLM/FWS/NPS - The DOI has granted wildland fire agencies a*
43 *waiver to allow employees between the ages of 18 and 21 to operate*
44 *agency commercial fire vehicles using a state issued CDL under the*
45 *specific conditions as stated below:*

- 1 ▪ *Drivers with a CDL may only drive within the state that has issued*
2 *the CDL and must comply with the state's special requirements*
3 *and endorsements.*
4 ▪ *These drivers must only drive vehicles that are equipped with visible*
5 *and audible signals, and are easily recognized as fire fighting*
6 *equipment. This excludes, but is not limited to, school buses used*
7 *for crew transport and "low-boy" tractor trailers used for*
8 *construction equipment transport.*
9 ▪ *Supervisors must annually establish and document that these drivers*
10 *have a valid license (i.e. that the license has not been suspended,*
11 *revoked, canceled, or that the employee has not been otherwise*
12 *unqualified from holding a license - 485 DM 16.3.B (1), ensure*
13 *that the employee has the ability to operate the vehicle(s) safely in*
14 *the operational environment assigned (485 DM 16.3.B (2), and*
15 *review and validate the employee's driving record (485 DM*
16 *16.3.B(4)).*

18 **Non-Incident Operations Driving**

19 Refer to the current driving standards for each individual agency.

20

21 **Mobilization and Demobilization**

22 To manage fatigue, every effort should be made to avoid off unit (excluding IA
23 response) mobilization and demobilization travel between 2200 hrs and 0500
24 hrs.

25

26 **Incident Operations Driving**

27 This policy addresses driving by personnel actively engaged in wildland fire
28 suppression or all-risk activities; these include driving while assigned to a
29 specific incident (check-in to check-out) or during initial attack fire response
30 (includes time required to control the fire and travel to a rest location).

- 31 • Agency resources assigned to an incident or engaged in initial attack fire
32 response will adhere to the current agency work/rest policy for determining
33 length of duty day.
- 34 • No driver will drive more than 10 hours (behind the wheel) within any duty-
35 day.
- 36 • Multiple drivers in a single vehicle may drive up to the duty-day limitation
37 provided no driver exceeds the individual driving (behind the wheel) time
38 limitation of 10 hours.
- 39 • A driver shall drive only if they have had at least 8 consecutive hours off
40 duty before beginning a shift. Exception to the minimum off-duty hour
41 requirement is allowed when essential to:
- 42 ○ Accomplish immediate and critical suppression objectives.
- 43 ○ Address immediate and critical firefighter or public safety issues.
- 44 • As stated in the current agency work/rest policy, documentation of
45 mitigation measures used to reduce fatigue is required for drivers who
46 exceed 16 hour work shifts. This is required regardless of whether the

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1 driver was still compliant with the 10 hour individual (behind the wheel)
2 driving time limitations.

3

4 **Fire Vehicle Operation Standards**

5 Operators of all vehicles must abide by state traffic regulations. Operation of all
6 vehicles will be conducted within the limits specified by the manufacturer.
7 Limitations based on tire maximum speed ratings and Gross Vehicle Weight
8 restrictions must be followed. It is the vehicle operator's responsibility to
9 ensure vehicles abide by these and any other limitations specified by agency or
10 state regulations.

11

12 **Management Controls to Mitigate Exposure**

13

14 Management controls, engineering controls, equipment guards, and
15 administrative procedures are the first line of defense against exposing an
16 employee to a hazard. Personal protective equipment (PPE) will be used to
17 protect employees against hazards that exist after all management controls are
18 exhausted.

19

20 **Wildland Fire Field Attire**

21

22 Polyester, polypropylene, and nylon materials are not to be worn, because most
23 synthetic fibers melt when exposed to flame or extreme radiant heat. Personnel
24 should wear only undergarments made of 100 percent or the highest possible
25 content of natural fibers, aramid, or other flame-resistant materials.

26

27 **Personal Protective Equipment (PPE)**

28

29 All personnel are required to use Personal Protective Equipment (PPE)
30 appropriate for their duties and/or as identified in JHAs/RAs. Employees must
31 be trained to use safety equipment effectively.

32

33 Aramid clothing should be cleaned or replaced whenever soiled, especially
34 when soiled with petroleum products. Aramid clothing will be replaced when
35 the fabric is so worn as to reduce the protection capability of the garment or is so
36 faded as to significantly reduce the desired visibility qualities.

37

38 Any modification to personal protective equipment that reduces its protection
39 capability such as iron-on logos, and sagging of pants, is an unacceptable
40 practice and will not be allowed on fires.

41

42 **Required Fireline PPE includes:**

- 43 ● Wildland fire boots
- 44 ● Fire shelter
- 45 ● Hard hat with chinstrap
- 46 ● Goggles/safety glasses (as identified by JHAs/RAs)

- 1 • Ear plugs/hearing protection
- 2 • Yellow-long-sleeved aramid shirt
- 3 • Aramid trousers
- 4 • Leather or leather/flammable resistant combination gloves. Flight gloves are not
- 5 approved for fireline use.
- 6 • Additional PPE as identified by local conditions, material safety data sheet
- 7 (MSDS), or JHA/RA
- 8
- 9 ○ *FS- Shirt, trousers, and gloves used by USFS personnel must meet*
- 10 *Forest Service specification 5100-91 (shirt), 5100-92 (trousers), 6170-*
- 11 *5 (gloves), or be certified to the National Fire Protection Association*
- 12 *(NFPA) 1977, Standard on Protective Clothing and Equipment for*
- 13 *Wildland Fire Fighting.*

15 **Wildland Fire Boot Standard**

16 Personnel assigned to wildland fires must wear a minimum of 8-inch high, lace-
17 type exterior leather work boots with Vibram-type, melt-resistant soles. The 8-
18 inch height requirement is measured from the bottom of the heel to the top of the
19 boot. Alaska is exempt from the Vibram-type sole requirement.

20
21 All boots that meet the wildland fire boot standard as described above are
22 required for firefighting and fireline visits, considered non-specialized PPE, and
23 will be purchased by the employee (including AD/EFF) prior to employment.

- 24 • *DOI- The DOI has issued policy authorizing payment of a boot stipend by*
- 25 *DOI agencies. See agency-specific guidance for implementation of the DOI*
- 26 *policy.*

28 **Fire Shelters**

29 New Generation Fire Shelters (M-2002, Forest Service Specification 5100-606)
30 are required for all wildland firefighters. For more information, refer to
31 http://www.nifc.gov/fire_equipment/fire_shelter.htm

32
33 Training in inspection and deployment of new generation fire shelters will be
34 provided prior to issuance. Firefighters will inspect their fire shelters at the
35 beginning of each fire season and periodically throughout the year, to ensure
36 they are serviceable.

37
38 Training shelters will be deployed at required Annual Fireline Safety Refresher
39 Training. No live fire exercises for the purpose of fire shelter deployment
40 training will be conducted.

41
42 Fire shelters will be carried in a readily accessible manner by all line personnel.
43 The deployment of shelters will not be used as a tactical tool. Supervisors and
44 firefighters must never rely on fire shelters instead of using well-defined escape
45 routes and safety zones. When deployed on a fire, fire shelters will be left in
46 place if it is safe to do so and not be removed pending approval of authorized

1 investigators. Firefighters must report the shelter deployment incident to their
2 supervisor as soon as possible.

3

4 **Head Protection**

5 Personnel must be equipped with hardhats and wear them at all times while on
6 the fireline. Hardhats must be equipped with a chinstrap, which must be
7 fastened while riding in, or in the vicinity of, helicopters.

8 Acceptable hardhats for fireline use are:

- 9 • “Wildland Firefighter’s Helmet” listed in a current or past edition of the
10 GSA Wildland Fire Equipment Catalog. To view a current catalog, go to
11 www.gsa.gov/fireprogram, click on “library” and then on “catalog”; or
- 12 • equivalent hardhat meeting the *(NFPA) 1977 Standard on Protective
13 Clothing and Equipment for Wildland Fire Fighting* requirements, or
- 14 • equivalent hardhat meeting ANSI Z89.1-2003 Type 1, Class G or ANSI
15 Z89.1-2009 Type 1, Class G.

16

17 Hardhats consist of two components - the shell and the suspension - which work
18 together as a system. Alteration of either of these components compromises the
19 effectiveness of the system (e.g. wearing hardhat backwards) and is not allowed.
20 Both components require periodic inspection and maintenance. The useful
21 service life begins when the hardhat is put into service, not the manufacture date
22 specified on the hardhat. Specific inspection and maintenance instructions are
23 found in Missoula Technology and Development Center (MTDC) Tech Tip
24 publication, *Your Hardhat: Inspection and Maintenance* (0267-2331-MTDC).
25 <http://www.fs.fed.us/t-d/pubs/htmlpubs/htm02672331/index.htm>.

26

27 **Eye and Face Protection**

28 The following positions require the wearing of eye protection (meets *ANSI
29 Z87.1* Standards):

- 30 • Nozzle operator
- 31 • Chainsaw operator/faller
- 32 • Helibase and ramp personnel
- 33 • Wildland fire chemical mixing personnel
- 34 • Other duties may require eye protection as identified in a specific JHA/RA

35

36 Full face protection in the form of a face shield in compliance with *ANSI Z87.1*
37 shall be worn when working in any position where face protection has been
38 identified as required in the job specific JHA/RA: Batch Mixing for Terra-
39 Torch®, power sharpener operators, etc.

40

41 **Hearing Protection**

42 Personnel who are exposed to a noise level in excess of 85db must be provided
43 with, and wear, hearing protection. This includes, but is not limited to:

- 44 • Chainsaw operators/fallers.
- 45 • Pump operators.

- 1 • Helibase and aircraft ramp personnel.
- 2 • Wildland fire chemical mixing personnel.

3

4 Other duties may require hearing protection as identified in a specific JHA/RA.
5 Employees may be required to be placed under a hearing conservation program
6 as required by 29 CFR 1910.95. Consult with local safety & health personnel
7 for specifics regarding unit hearing conservation programs.

8

9 **Neck Protection**

10 Face and neck shrouds are not required PPE. The use of shrouds is not required
11 and should be as a result of onsite risk analysis. If used, face and neck shrouds
12 shall meet the requirements of FS specification 5100-601 or *NFPA 1977*
13 *Standard on Protective Clothing and Equipment for Wildland Fire Fighting*.

14

15 Shrouds should be positioned in a manner that allows for immediate use. For
16 additional information see MTDC Tech Tip *Improved Face and Neck Shroud*
17 *for Wildland Firefighters, 2004* (0451-2323-MTDC).

18 <http://fsweb.mtdc wo.fs.fed.us/pubs/htmlpubs/htm04512323/index.htm>

19

20 **Leg Protection**

21 All chainsaw operators will wear chainsaw chaps meeting the United States
22 Forest Service Specification 6170-4F or 4G. All previous Forest Service
23 specification chainsaw chaps must be removed from service. Chainsaw chaps
24 shall be maintained in accordance with MTDC Publication, *Inspecting and*
25 *Repairing Your Chainsaw Chaps - User Instructions* (0567-2816-MTDC)
26 <http://www.fs.fed.us/t-d/pubs/htmlpubs/htm05672816/page01.htm>

27

28 **Respiratory Protection**

29 Respiratory protection should only be implemented once engineering and
30 administrative controls are exhausted. The need for respiratory protection
31 during wildland fire operations must be determined by each agency. The
32 requirements for respirator use are found in 29 CFR Part 1910.134.

33

34 Only NIOSH-approved respirators shall be used. Several respiratory-type
35 products are marketed to wildland firefighters but are not NIOSH-approved (e.g.
36 shrouds with filtration devices).

37 Managers and supervisors will not knowingly place wildland firefighters in
38 positions where exposure to toxic gases or chemicals that cannot be mitigated
39 and would require the use of self-contained breathing apparatus.

40

41 Managers will not sign cooperative fire protection agreements that would
42 commit wildland firefighters to situations where exposure to toxic gases or
43 chemicals would require the use of self-contained breathing apparatus.

- 44 • *FS - FSM – 5130- Self-Contained Breathing Apparatus - Wildland*
45 *firefighters may use only SCBA which are compliant with NFPA 1981,*
46 *Standard on Open-Circuit Self-Contained Breathing Apparatus (SCBA) for*

1 *Emergency Services. SCBA may only be used when contaminants from*
2 *vehicle, dump, structure, or other non-wildland fuel fire cannot be avoided*
3 *while meeting wildland fire suppression objectives (29 CFR 1910.134,*
4 *Respiratory Protection). If such an apparatus is not available, avoid*
5 *exposure to smoke from these sources. The acquisition, training, proper*
6 *use, employee health surveillance programs, inspection, storage, and*
7 *maintenance of respiratory protection equipment must comply with*
8 *applicable National Fire Protection Association standards and 29 CFR*
9 *1910.134, and be justified by a Job Hazard Analysis. Where the acquisition*
10 *and use of an SCBA is approved, it may be carried only on a fire engine and*
11 *its use must be consistent with FSM 5130.*

13 **Specialized or Non Standard Personal Protective Equipment (PPE)**

14 Specialized PPE not routinely supplied by the agency (e.g. prescription safety
15 glasses, static-resistant clothing, cold weather flame resistant outer wear, etc.)
16 required to perform a task safely must be procured in accordance with agency
17 direction, and supported by a JHA/Risk Assessment.

19 A JHA/Risk Assessment must be completed and reviewed by the Unit Safety
20 Officer and the supervisor's approval is required. Items must meet agency and
21 industry standards for specific intended use. Cold weather flame resistant outer
22 wear shall be in compliance with NFPA 1977, *Standard on Protective Clothing*
23 *and Equipment for Wildland Fire Fighting*. All cold weather inner wear should
24 be composed of 100% or the highest possible content of natural fibers (cotton,
25 wool or silk) or other flame resistant material such as aramid.

27 **High Visibility Vests**

28 In order to meet 23 CFR 634, high visibility apparel should be worn whenever a
29 firefighter is working on or in the right of way of a public roadway.

31 Employees must wear high visibility safety apparel that meets ANSI/ISEA 107-
32 2004, Class 2 or 3, or ANSI/ISEA 207-2006. Apparel, including vests, that
33 meets ANSI/ISEA 107-2004 and ANSI/ISEA 207-2006 currently does not meet
34 the flame resistance requirements of the NFPA Standard on Protective Clothing
35 and Equipment for Wildland Fire Fighting.

37 Exceptions:

38 The high visibility safety apparel should not be worn if:

- 39 • There is a reasonable chance that the employee may be exposed to flames,
40 high heat, or hazardous materials.
- 41 • The high visibility garment hinders an employee's ability to do their job
42 because it prevents necessary motion or because it limits access to
43 necessary equipment such as radios or fire shelters.

45 Additional information is available in the Missoula Technology and
46 Development Center (MTDC) report, *High-Visibility Garments and Worker*

1 *Safety on Roadways* (1151-2811-MTDC).
2 http://fsweb.mtdc.wo.fs.fed.us/php/library_card.php?p_num=1151%202811

3

4 **Fireline Safety**

5

6 **Incident Briefings**

7 Fire managers must ensure that safety briefings are occurring throughout the fire
8 organization, and that safety factors are addressed through the IC or their
9 designee and communicated to all incident personnel at operational briefings.
10 The identification and location of escape routes and safety zones must be
11 stressed. A briefing checklist can be found in the *Incident Response Pocket*
12 *Guide (IRPG)*.

13

14 **LCES - A System for Operational Safety**

15 LCES will be used in all operational briefings and tactical operations as per the
16 *Incident Response Pocket Guide (IRPG)*.

- 17 • L - Lookout(s)
- 18 • C - Communication(s)
- 19 • E - Escape Route(s)
- 20 • S - Safety Zone(s)

21

22 **Incident Safety Oversight**

23 Agency administrators are responsible for safety oversight, and may request
24 additional safety oversight as needed.

25

26 Examples may include:

- 27 • A fire escapes initial attack or when extended attack is probable.
- 28 • There is complex or critical fire behavior.
- 29 • There is a complex air operation.
- 30 • The fire is in an urban intermix/interface.
- 31 • Other extraordinary circumstances.

32

33 Every individual has the right to turn down unsafe assignments. When an
34 individual feels an assignment is unsafe, they also have the obligation to
35 identify, to the degree possible, safety alternatives for completing that
36 assignment. The IRPG contains a process for How to Properly Refuse Risk.

37

38 **Smoke and Carbon Monoxide**

39 It is important to note that smoke is just one of the potential risks faced by
40 wildland firefighters. Site-specific hazards and mitigations need to be identified
41 (using JHA/RA) to reduce firefighter exposure to smoke and potential carbon
42 monoxide which includes evaluating and balancing all the risks associated with
43 the operational objectives.

1 From an incident management perspective, smoke impacts need to be analyzed
2 and risk assessment completed using the ICS-215A, Incident Action Plan Safety
3 Analysis worksheet.

4 **Location of Fire Camps and Plans to Remain in Place**

5 Fire camps should be located in areas that will service the incident for the long
6 term without having to relocate. Due to such factors as extreme fire behaviors,
7 fire camp locations might be compromised. Incident commanders are to be
8 especially vigilant to quickly identify situations that may put their fire camp(s)
9 or any other adjacent fire camps in jeopardy. As such, planning for evacuation
10 and/ or remain in place actions should be considered. Evacuation plans at a
11 minimum shall include:

- 12 • Documented risk assessment
- 13 • Trigger points
- 14 • Egress routes
- 15 • Transportation for all personnel
- 16 • Accountability for all personnel
- 17 • Those individuals not meeting 310-1 qualifications will be considered
18 escorted visitors as addressed elsewhere in this chapter.
 - 19 ○ *FS- At a minimum, plans shall also include:*
 - 20 ▪ *ICP protection strategy referenced in the IAP.*
 - 21 ▪ *Live-ability considerations including air quality, functionality of*
22 *location and facilities, and safety factors for post burn conditions.*

23 **Standard Safety Flagging**

24 The NWCG recommends the following Safety Zone/Escape Route flagging for
25 wildland fire activities:

- 26 • Hot-pink flagging marked “Escape Route” (NFES 0566). Crews with
27 colorblind members may wish to carry and utilize fluorescent chartreuse
28 flagging (NFES #2396).
- 29 • Hazards. Yellow with black diagonal stripes, 1 inch wide (NFES 0267). If
30 the above recommendation is not utilized on an incident, the incident will
31 need to identify the selected color and it make known to all firefighters.
32
33
34

35 **Emergency Medical Planning and Services**

36 **Incident Emergency Management Planning**

37 To achieve successful medical response within incident management, agency
38 home units will take the necessary steps to ensure incidents of all complexity
39 levels have an Incident Emergency Plan, standardized communication center
40 protocols, and an incident medical plan that satisfies the requirements found in
41 NWCG memo number 025-2010 (<http://www.nwcg.gov/general/memos/nwcg-025-2010.html>). This will include an expanded block eight of the ICS-206,
42 Medical Plan form, detailing available resources (ground and air), roles,
43 responsibilities, and hazard mitigations.
44
45

1 Air Ambulance Coordination

2 Unit and state/regional level fire program managers should ensure that
3 procedures, processes, and/or agreements for use of local and regional air
4 ambulance services are stated in writing and effectively coordinated between the
5 fire programs, the dispatch/logistics centers, and the service providers.

7 Incident Emergency Medical Services

8 Agencies will follow interim NWCG minimum standards for incident
9 emergency medical services as defined in Appendix K (NWCG#011-2208) to
10 assist wildland fire incident commanders with determining the level and number
11 of emergency medical resources and related supplies needed based upon the
12 number of incident personnel. This standard as well as other incident medical
13 information can be found on the NWCG Incident Emergency Medical

14 Subcommittee website at:

15 <http://www.nwcg.gov/branches/pre/rmc/iems/index.html>

16
17 Incidents that have established Medical Units shall follow the direction as
18 outlined in *Interim NWCG Minimum Standards for Medical Units Managed By*
19 *NWCG Member Agencies* at:

20 [http://www.nwcg.gov/branches/pre/rmc/iems/policyguides/minimum_stds_for_](http://www.nwcg.gov/branches/pre/rmc/iems/policyguides/minimum_stds_for_medical_units.pdf)
21 [medical_units.pdf](http://www.nwcg.gov/branches/pre/rmc/iems/policyguides/minimum_stds_for_medical_units.pdf)

22
23 Home units that choose to utilize and support higher level medical responders to
24 provide medical support for internal agency medical emergencies (beyond basic
25 first aid/CPR) may do so; however, certification and credentialing must follow
26 respective state laws and protocols.

28 Unexploded Ordnance

29
30 General guidance is as follows:

- 31 • If Unexploded Ordnance (UXO) is suspected, do not enter the area.
- 32 • Small arms (rifle and shotgun) munitions areas should be flagged and
33 avoided by fire personnel.
- 34 • For suspected larger munitions, the area must be avoided by fire personnel
35 and contact local law enforcement bomb squad or nearest Department of
36 Defense agency.
- 37 • Each unit will determine which employees are authorized to enter known or
38 potential hazardous substance release sites, and the responsibility for these
39 determinations remains with each agency administrator.
- 40 • For additional UXO safety information, see current IRPG.

42 Hazardous Materials

43
44 Employees that discover any unauthorized waste dump or spill site that contains
45 indicators of potential hazardous substances (e.g., containers of unknown
46 substances, pools of unidentifiable liquids, piles of unknown solid materials,

Release Date: January 2012

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1 unusual odors, or any materials out of place or not associated with an authorized
2 activity) should take the following precautions:

- 3 ● Follow the procedures in the IRPG.
- 4 ● Treat each site as if it contains harmful materials.
- 5 ● Do not handle, move, or open any container, breathe vapors, or make
6 contact with the material.
- 7 ● Move a safe distance upwind from the site.
- 8 ● Contact appropriate personnel. Generally, this is the Hazardous Materials
9 Coordinator for the local office.
- 10 ● Firefighters need to immediately report H₂S or potential exposure and seek
11 immediate medical care.
- 12 ● *BLM/FWS/NPS - Agencies require that all field personnel complete a First
13 Responder Awareness training. Firefighters are required to take an annual
14 refresher for Hazardous Material protocol.*

15
16 The following general safety rules shall be observed when working with
17 chemicals:

- 18 ● Read and understand the Material Safety Data Sheets.
- 19 ● Keep the work area clean and orderly.
- 20 ● Use the necessary safety equipment.
- 21 ● Label every container with the identity of its contents and appropriate
22 hazard warnings.
- 23 ● Store incompatible chemicals in separate areas.
- 24 ● Substitute less toxic materials whenever possible.
- 25 ● Limit the volume of volatile or flammable material to the minimum needed
26 for short operation periods.
- 27 ● Provide means of containing the material if equipment or containers should
28 break or spill their contents.

30 **Responding to Wildland Fires in or near Oil/Gas Operations**

31 For those offices with oil and gas operations within their fire suppression
32 jurisdiction, the following is the minimum standard operating procedures to help
33 ensure the health and safety of wildland firefighters:

- 34 ● Firefighters shall receive annual oil and gas hazard recognition and
35 mitigation training.
- 36 ● Local unit shall complete a JHA/RA for wildland fire suppression activities
37 in oil and gas areas and provide a copy with a briefing to all local and
38 incoming resources.
- 39 ● Establish Response Protocols and proper decontamination procedures to
40 minimize exposure to additional employees, equipment, and facilities.
41 Protocols will include notification procedures to respective oil and gas
42 company(s).
- 43 ● Ensure oil and gas resource advisors are consulted.

- 1 • Ensure that at least one member of each squad or engine crew is
- 2 knowledgeable in the use and data interpretation of the Hydrogen Sulfide
- 3 gas monitor. Training on the device will include at a minimum:
- 4 ○ Equipment charging and maintenance of sensors
- 5 ○ Startup, zeroing, calibration, and bump testing procedures as
- 6 recommended by the manufacturer.
- 7 ○ How the monitor elicits a warning alarm (visual, auditory, vibration)
- 8 • Understand Peak Reading, Short Term Exposure Limits (STEL), and Time
- 9 Weighted Averages.
- 10 ○ Understand how to set the monitors alarm threshold.
- 11 • The monitor's alarm shall be set at the current American Conference on
- 12 Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (10
- 13 PPM 2008) and STEL (15 PPM 2008).
- 14 • If hydrogen sulfide gas (H₂S) is encountered, immediately disengage and
- 15 leave area.
- 16 • Do not establish incident base camps or staging areas in or near oil and gas
- 17 operations.

18
19 The following websites provide additional information and training resources:

- 20 • http://www.nifc.gov/wfstar/oil_gas.htm
- 21 • <http://iirdb.wildfirelessons.net/main/Reviews.aspx>
- 22 • www.nfpa.org/assets/files/pdf/Sup10.pdf

23 24 **Responding to Wildland Fires in or Near Radioactive Locations**

25 Abandoned uranium mines and other potential radioactive sites exist in many
26 areas of public lands. When these areas are identified, local management should
27 provide information and direction on operations to be used. General knowledge
28 and understanding of potential radiation exposure is necessary for wildland fire
29 program management to make valid risk management decisions in these areas.

30 The following websites provide this information and general guidelines:

- 31 • http://www.nifc.gov/policies/red_book/doc/RadiationDocument.pdf
- 32 • http://www.nifc.gov/policies/red_book/doc/RadiationGuidance.pdf

33 34 **Hazardous Water Sources**

35 Many water sources used during fire suppression activities may appear
36 harmless, but contain hazardous materials (e.g. hydraulic fracturing fluid,
37 cyanide, sewage, corrosives). These hazardous water sources may pose threats
38 to personnel health and firefighting equipment. Indicators that a water source
39 may be hazardous include proximity to active or inactive mining operations,
40 gas/oil wells, water treatment facilities, or other industrial operations. In many
41 cases, these hazardous water sources may not be fenced and no warning signs
42 may be present.

43
44

1 Suppression personnel should evaluate water sources to ensure they do not
2 contain hazardous materials. If unsure of the contents of a water source,
3 personnel should not utilize the water source until its contents can be verified.
4 Dispatch centers, Resource Advisors, or on-scene personnel can assist with
5 verification of safe water sources. Information about known hazardous water
6 sources should be included in operational briefings.

8 **Hydrogen Cyanide (HCN) Exposure**

9 Synthetic materials such as plastics, nylon, Styrofoam®, and polyurethane can
10 produce HCN. HCN exposure can disrupt the body's ability to use oxygen,
11 cause asphyxia, and cause carbon monoxide poisoning. Common items such as
12 sofas, carpeting, vehicles, and other products routinely found in the wildland can
13 produce smoke with HCN.

14
15 Symptoms of HCN poisoning include bitter almond odor on breath, burning
16 taste in mouth, stiffness of lower jaw, feeling of numbness or constriction in
17 throat, weakness, and headache.

18
19 Follow hazardous materials protocols contained in the IRPG to mitigate
20 exposure to HCN. If personnel may have been exposed to HCN, immediate
21 referral to a health care facility capable of toxicology testing and treatment of
22 HCN exposure is required.

24 **Safety for Non-Operational Personnel Visiting Fires**

25
26 A wide variety of personnel such as agency administrators, other agency
27 personnel, dignitaries, members of the news media, etc may visit incidents. The
28 following standards apply to all visitors.

30 **Visits to an Incident Base**

31 Recommended field attire for visits to incident base camps and other non-
32 fireline field locations:

- 33 • Lace-up, closed toe shoes/boots with traction soles and ankle support.
- 34 • Trousers.
- 35 • Long-sleeve shirt.
- 36 • For agency personnel, the field uniform is appropriate.

38 **Visits to the Fireline/RX Burns**

- 39 • Visits to the fireline must have the approval of the IC/Burn Boss.
- 40 • Visitors must maintain communications with the DIVS or appropriate
41 fireline supervisor of the area they are visiting.
- 42 • Required PPE:
 - 43 ○ Wildland fire boots.
 - 44 ○ Yellow long-sleeved aramid shirts.
 - 45 ○ Aramid trousers.
 - 46 ○ Hard hat with chinstrap.

- 1 ○ Leather or leather/flame resistant combination gloves. Flight gloves
- 2 are not approved for fireline use.
- 3 ○ Fire shelter.
- 4 ● Required field attire:
- 5 ○ Undergarments made of 100 percent or the highest possible content of
- 6 natural fibers, aramid, or other flame-resistant materials.
- 7 ● Required equipment/supplies:
- 8 ○ Hand tool.
- 9 ○ Water canteen.

10

11 Fireline Logistical Support

12 Personnel performing fireline logistical support duties (e.g. bus drivers, supply
13 delivery/retrieval, incident drivers, non-tactical water delivery, etc.) must meet
14 the following requirements:

- 15 ● Complete fire shelter training
- 16 ● Fireline PPE
- 17 ● Receive an incident briefing
- 18 ● Ensure adequate communications are established
- 19 ● other requirements (if any) established by the Incident Commander
- 20 ● A Work Capacity Test (WCT) is not required unless required for a specific
21 position defined in the PMS 310-1.

22

23 Visits to the Fireline

24

25 Visits (such as media visits or political/administrative tours) to hazardous areas
26 of the fire or areas that pose a fire behavior threat will be managed by meeting
27 the requirements below.

28

29 Visitors to the Fireline/RX Burns may be “Non-Escorted” or “Escorted”
30 depending on the following requirements:

31

32 Non-Escorted Visits

33 Visitors must have an incident qualification with a minimum physical fitness
34 level of “light” to visit the fireline unescorted.

- 35 ● Must have adequate communications and radio training.
- 36 ● Completed the following training:
 - 37 ○ Introduction to Fire Behavior (S-190).
 - 38 ○ Firefighter Training (S-130).
 - 39 ○ Annual Fireline Safety Refresher Training.
- 40 ● Deviation from this requirement must be approved by the IC.

41

42 The law enforcement physical fitness standard is accepted as equivalent to a
43 “light” WCT work category.

44

45

1 Escorted Visits

2 All non-incident, non-agency, visitors lacking the above training and physical
3 requirements must be escorted while on the fireline.

- 4 • Visitors must receive training in the proper use of PPE.
- 5 • Requirement for hand tool and water to be determined by escort.
- 6 • Visitors must be able to walk in mountainous terrain and be in good
7 physical condition with no known limiting conditions.
- 8 • Escorts must be minimally qualified as Single Resource Boss. Any
9 deviation from this requirement must be approved by the IC.

10

11 Helicopter Observation Flights

12 Visitors who take helicopter flights to observe fires must receive approval from
13 the Incident Commander, a passenger briefing, and meet the following
14 requirements:

- 15 • Required PPE:
 - 16 ○ Flight helmet
 - 17 ○ Leather boots
 - 18 ○ Flame-resistant clothing
 - 19 ○ All leather or leather and aramid gloves

20

21 Occasional passengers/visitors have no training requirement, but a qualified
22 flight manager must supervise loading and unloading of passengers.

23

24 Fixed-Wing Observation Flights

25 No PPE is required for visitors and agency personnel who take fixed-wing
26 flights to observe fires. However, a passenger briefing is required, and the flight
27 level must not drop below 500 feet AGL.

28

29 Six Minutes for Safety Training

30

31 It is recommended that daily Six Minutes for Safety training be conducted that
32 focuses on high-risk, low frequency activities that fire personnel may encounter
33 during a fire season. A daily national Six Minutes for Safety briefing can be
34 found at: http://www.nifc.gov/sixminutes/dsp_sixminutes.php or the National
35 Incident Management Situation Report.

36

37 SAFENET

38

39 SAFENET is a form, process, and method for reporting and resolving safety
40 concerns encountered in any aspect (e.g., preparedness, training, etc.) of
41 wildland fire or all hazard incident management. The information provided on
42 the form will provide important, safety-related data to the National Interagency
43 Fire Center, and determine long-term trends and problem areas.

44

45

46

1 The objectives of the form and process are:

- 2 • To provide immediate reporting and correction of unsafe situations or close
3 calls in wildland fire.
- 4 • To provide a means of sharing safety information throughout the fire
5 community.
- 6 • To provide long-term data that will assist in identifying trends.
- 7 • Primarily intended for wildland and prescribed fire situations, however,
8 SAFENET can be used for training and all hazard events.

9
10 Individuals who observe or who are involved in an unsafe situation shall initiate
11 corrective actions if possible, and then report the occurrence using SAFENET.

12 You are encouraged, but not required, to put your name on the report.

13 Prompt replies to the originator (if name provided), timely action to correct the
14 problem, and discussion of filed SAFENETs at local level meetings encourage
15 program participation and active reporting.

16
17 SAFENET is not the only way to correct a safety-related concern and it does not
18 replace accident reporting or any other valid agency reporting method. It is an
19 efficient way to report a safety concern. It is also a way for front line
20 firefighters to be involved in the daily job of being safe and keeping others safe,
21 by documenting and helping to resolve safety issues. SAFENETs may be filed:

- 22 • Electronically at <http://safenet.nifc.gov>;
- 23 • Verbally by telephone at 1-888-670-3938; or
- 24 • By SAFENET Field Card

25
26 The SAFENET Field Card is can be used by wildland fire personnel to
27 immediately identify and report unsafe situations or close calls that should
28 receive immediate resolution/mitigation. If the situation cannot be resolved at
29 the local/incident level, the reporting individual is encouraged to follow the
30 formal SAFENET submission process stated above. SAFENET Field Cards are
31 available at: <http://safenet.nifc.gov>

32 33 **Accident/Injury Reporting**

34
35 The Occupational Safety and Health Administration (OSHA) mandates that all
36 accidents and injuries be reported in a timely manner. This is important for the
37 following reasons:

- 38 • To protect and compensate employees for incidents that occur on-the-job.
- 39 • To assist supervisors and safety managers in taking corrective actions and
40 establish safer work procedures.
- 41 • To determine if administrative controls or personal protective equipment are
42 needed to prevent a future incident of the same or similar type.
- 43 • To provide a means for trend analysis.

44

- 1 Employees are required to immediately report to their supervisor every job-
2 related accident. Managers and supervisors shall ensure that an appropriate
3 level of investigation is conducted for each accident and record all personal
4 injuries and property damage. Coordinate with your human resources office or
5 administrative personnel to complete appropriate Office of Worker's
6 Compensation (OWCP) forms. Reporting is the responsibility of the injured
7 employee's home unit regardless of where the accident or injury occurred.
- 8 ○ *DOI- employees will report accidents using the Safety Management*
9 *Information System (SMIS) at <https://www.smis.doi.gov/>. Supervisors*
10 *shall complete SMIS report within six working days after the*
11 *accident/injury.*
 - 12 ○ *FS- employees will use the Safety and Health Information Portal*
13 *System (SHIPS) through the Forest Service Dashboard at*
14 *http://fsweb.asc.fs.fed.us/HRM/owcp/WorkersComp_index.php*
15

16 **Required Treatment for Burn Injuries**

17
18 The following standards will be used when any firefighter sustains burn injuries,
19 regardless of agency jurisdiction.

20
21 After on-site medical response, initial medical stabilization, and evaluation are
22 completed, the Agency Administrator or designee having jurisdiction for the
23 incident and/or firefighter representative (e.g. Crew Boss, Medical Unit Leader,
24 Compensations for Injury Specialist, etc.) should coordinate with the attending
25 physician to ensure that a firefighter whose injuries meet any of the following
26 burn injury criteria is immediately referred to the nearest regional burn center.

27
28 It is imperative that action is expeditious, as burn injuries are often difficult to
29 evaluate and may take 72 hours to manifest themselves. These criteria are based
30 upon American Burn Association criteria as warranting immediate referral to an
31 accredited burn center.

32
33 The decision to refer the firefighter to a regional burn center is made directly by
34 the attending physician or may be requested of the physician by the agency
35 administrator or designee having jurisdiction and/or firefighter representative.

36
37 The Agency Administrator or designee for the incident will coordinate with the
38 employee's home unit to identify a Workers Compensation liaison to assist the
39 injured employee with workers compensation claims and procedures.

40 Workers Compensation benefits may be denied in the event that the attending
41 physician does not agree to refer the firefighter to a regional burn center.

42
43 During these rare events, close consultation must occur between the attending
44 physician, the firefighter, the Agency Administrator or designee and/or
45 firefighter representative, and the firefighter's physician to assure that the best
46 possible care for the burn injuries is provided.

1 Burn Injury Criteria

- 2 • Partial thickness burns (second degree) involving greater than 5% Total
- 3 Body Surface Area (TBSA).
- 4 • Burns (second degree) involving the face, hands, feet, genitalia, perineum,
- 5 or major joints.
- 6 • Third-degree burns of any size are present.
- 7 • Electrical burns, including lightning injury are present.
- 8 • Inhalation injury is suspected.
- 9 • Burns are accompanied by traumatic injury (such as fractures).
- 10 • Individuals are unable to immediately return to full duty.
- 11 • When there is any doubt as to the severity of the burn injury, the
- 12 recommended action should be to facilitate the immediate referral and
- 13 transport of the firefighter to the nearest burn center.

14
15 A list of burn care facilities can be found at:

16 <http://www.blm.gov/nifc/st/en/prog/fire/im.html>.

17
18 For additional NWCG incident emergency medical information see:

19 <http://www.nwcg.gov/branches/pre/rmc/iems/index.html>

21 Critical Incident Management

22
23 The NWCG has published the *Agency Administrator's Guide to Critical*
24 *Incident Management* (PMS 926). This guide is designed as a working tool to
25 assist agency administrators with the chronological steps in managing a critical
26 incident. This document includes a series of checklists, which outline agency
27 administrator's and other functional area's oversight and responsibilities. The
28 guide is not intended to replace local emergency plans or other specific guidance
29 that may be available, but should be used in conjunction with existing SOPs.

30 Local units should complete the guide, and review and update at least annually.

31 This guide is only available electronically at:

32 <http://www.nwcg.gov/pms/pubs/pubs.htm>.

34 Critical Incident Stress Management (CISM)

35
36 A critical incident may be defined as a fatality or other event that can have
37 serious long term affects on the agency, its employees and their families or the
38 community. Such an event may warrant stress management assistance. The
39 local agency administrator may choose to provide CISM for personnel that have
40 been exposed to a traumatic event.

41
42 The availability of CISM teams and related resources (e.g. defusing teams)
43 varies constantly - it is imperative that local units pre-identify CISM resources
44 that can support local unit needs. Some incident management teams include
45 personnel trained in CISM who can provide assistance.

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Chapter 08 Interagency Coordination & Cooperation

Introduction

Fire management planning, preparedness, prevention, suppression, restoration and rehabilitation, monitoring, research, and education will be conducted on an interagency basis with the involvement of cooperators and partners. The same capabilities used in wildland fire management will also be used, when appropriate and authorized, on non-fire incidents in the United States, and on both wildland fires and non-fire incidents internationally.

National Wildland Fire Cooperative Agreements

USDOJ and USDA Interagency Agreement for Fire Management

The objectives of the *Interagency Agreement for Fire Management Between the Bureau of Land Management (BLM), Bureau of Indian Affairs (BIA), National Park Service (NPS), Fish and Wildlife Service (FWS) of the United States Department of the Interior (DOI) and the Forest Service (FS) of the United States Department of Agriculture* are:

- To provide a basis for cooperation among the agencies on all aspects of wildland fire management and as authorized in non-fire emergencies.
- To facilitate the exchange of personnel, equipment (including aircraft), supplies, services, and funds among the agencies.

DOI, USDA, and DOD Interagency Agreement

The purpose of the *Interagency Agreement for the Provision of Temporary Support During Wildland Firefighting Operations among the United States Department of the Interior, the United States Department of Agriculture, and the United States Department of Defense* is:

- To establish the general guidelines, terms and conditions under which the National Interagency Fire Center (NIFC) will request, and DOD will provide, temporary support to NIFC in wildland fire emergencies occurring within all 50 States, the District of Columbia, and all U.S. Territories and Possessions, including fires on State and private lands. It is also intended to provide the basis for reimbursement of DOD under the Economy Act.

These and other agreements pertinent to interagency wildland fire management can be found in their entirety in Chapter 40 of the *National Interagency Mobilization Guide* online at:
<http://www.nifc.gov/nicc/mobguide/CHAPTER40.pdf>

1 National Wildland Fire Management Structure

2

3 Wildland Fire Leadership Council (WFLC)

4 The WFLC is a cooperative, interagency organization dedicated to achieving
5 consistent implementation of the goals, actions, and policies in the National Fire
6 Plan and the Federal Wildland Fire Management Policy. The WFLC provides
7 leadership and oversight to ensure policy coordination, accountability, and
8 effective implementation of the National Fire Plan and the Federal Wildland
9 Fire Management Policy.

10

11 The Council consists of the Department of Agriculture's Undersecretary for
12 Natural Resources and the Environment and the Chief of the U.S. Forest
13 Service; the Department of the Interior's Directors of the National Park Service,
14 the Fish and Wildlife Service, and the Bureau of Land Management, the
15 Assistant Secretary of Indian Affairs and the Chief of Staff to the Secretary of
16 the Interior; the Department of Homeland Security's U.S. Fire Administration;
17 the Intertribal Timber Council; the Western Governors Association; the National
18 Association of State Foresters; and the National Association of Counties.
19 Staffing the Council will be coordinated by the Department of Agriculture's
20 Office of Fire and Aviation Management and the Department of the Interior's
21 Office of Wildland Fire Coordination.

22

23 Federal Fire Policy Council (FFPC)

24 The Federal Fire Policy Council carries out the federal component of wildland
25 fire management. The primary responsibilities of the FFPC include establishing
26 national policy guidance; formulating, coordinating, and integrating wildland
27 fire policy; providing policy direction for the formulation of the wildland fire
28 budgets; providing a forum to consider and resolve inter- and intra-departmental
29 policy issues; ensuring that program goals are identified and that results are
30 measured for wildland fire; and maintaining national level fire activity
31 situational awareness.

32

33 The Federal Fire Policy Council is composed of the USDA Deputy Under
34 Secretary – National Resources and Environment; the Chief of the Forest
35 Service and the Deputy Chief of State and Private Forestry; and for DOI the
36 Assistant Secretaries for Policy, Management and Budget, Fish and Wildlife and
37 Parks, Indian Affairs, Land and Minerals Management, and Water and Science;
38 the Bureau Directors of the Bureau of Indian Affairs, the Bureau of Land
39 Management, the Fish and Wildlife Service, the National Park Service, and the
40 US Geological Survey; the Deputy Assistant Secretary – Law Enforcement,
41 Security & Emergency Management; the Assistant Administrator of DHS-US
42 Fire Administration; and the Environmental Protection Agency representative.

43

44 Wildland Fire Executive Council (WFEC)

45 The Wildland Fire Executive Council provides coordinated interagency federal
46 executive level wildland fire policy leadership, direction, and program oversight.

1 Members include the Director, USDA FS Fire & Aviation Management; the
2 Director, DOI Office of Wildland Fire Coordination; the BLM Assistant
3 Director, Office of Fire and Aviation Management; the NPS Associate Director,
4 Visitor and Resource Protection; the FWS Assistant Director, National Wildlife
5 Refuge System; the BIA Deputy Director, Trust and Services; the Associate
6 Director, DOI Aviation Management Division; the Administrator, DHS U. S.
7 Fire Administration; and the Chair, NWCG, in an ex officio capacity.

8

9 **Interior Fire Executive Council (IFEC)**

10 The Interior Fire Executive Council (IFEC) provides coordination and
11 interagency executive level wildland fire policy leadership, direction, and
12 program oversight. IFEC is the focal point for discussing wildland fire policy
13 issues that affect the DOI and provides a forum for gathering the interests of the
14 DOI bureaus to formulate a DOI recommendation and/or position to be taken
15 forward to the Wildland Fire Executive Council (WFEC).

16

17 The IFEC is composed of the Director, Office of Wildland Fire Coordination
18 (OWFC) and the four DOI fire directors and their respective senior executive.
19 Associate members include the Director, Aviation Management Directorate and
20 a representative from USGS.

21

22 **Office of Wildland Fire Coordination (OWFC)**

23 The OWFC is a Department of the Interior organization responsible for
24 managing and overseeing all wildland fire management activities executed by
25 the bureaus. OWFC coordinates the Department's wildland fire programs
26 within the Department and with other federal and non-federal partners, to
27 establish legally and scientifically based Department-wide policies and budgets,
28 and to provide strategic leadership and oversight, that result in safe,
29 comprehensive, cohesive, efficient, and effective wildland fire programs for the
30 nation consistent with the bureaus' statutory authorities and constraints.

31

32 OWFC has three functional areas:

- 33 • The Budget and Performance Management Division which manages and
34 oversees the DOI Wildland Fire Management financial account and budget
35 operations;
- 36 • The Policy Division which develops wildland fire management program
37 policies, strategies, and plans for wildland fire operations, fuels and biomass
38 coordination, emergency management coordination, science advisory,
39 international cooperation, and strategic planning; and
- 40 • The Enterprise Systems and Decision Support Division which coordinates
41 with Federal and non-Federal partners on inter-departmental/intra-
42 governmental Information Technology systems that support interagency
43 wildland fire business management, fire operations and program
44 management activities and other decision support tools. This functional
45 area also manages the Fire Program Analysis Group (FPA), Wildland Fire
46 Decision Support System (WFDSS), the Integrated Reporting of Wildland-

1 Fire Information Group (iRWIn), and Ecosystem Management Decision
2 Support (EMDS).

3

4 **National Wildfire Coordinating Group (NWCG)**

5 The NWCG is made up of the USDA FS; four Department of the Interior
6 agencies: BLM, NPS, BIA, and the FWS; Intertribal Timber Council; U.S. Fire
7 Administration; and state forestry agencies through the National Association of
8 State Foresters (NASF). The mission of the NWCG is to provide leadership in
9 establishing and maintaining consistent interagency standards and guidelines,
10 qualifications, and communications for wildland fire management. Its goal is to
11 provide more effective execution of each agency's fire management program.
12 The group provides a formalized system to agree upon standards of training,
13 equipment, qualifications, and other operational functions.

14

15 **Multi-Agency Management and Coordination**

16

17 **National Multi-Agency Coordinating (NMAC) Group**

18 National multi-agency coordination is overseen by the NMAC Group, which
19 consists of one representative each from the following agencies: BLM, FWS,
20 NPS, BIA, FS, NASF, and the USFA, who have been delegated authority by
21 their respective agency directors to manage wildland fire operations on a
22 national scale when fire management resource shortages are probable. The
23 delegated authorities include:

24

- 25 • Provide oversight of general business practices between the NMAC group
26 and the Geographic Area Multi-Agency Coordination groups.
- 27 • Establish priorities among geographic areas.
- 28 • Activate and maintain a ready reserve of national resources for assignment
29 directly by NMAC as needed.
- 30 • Implement decisions of the NMAC.

31

32 **Geographic Area Multi-Agency Coordinating (GMAC) Groups**

33 Geographic area multi-agency coordination is overseen by GMAC Groups,
34 which are comprised of geographic area (State, Region) lead administrators or
35 fire managers from agencies that have jurisdictional or support responsibilities,
36 or that may be significantly impacted by resource commitments. GMAC
37 responsibilities include:

38

- 39 • Establish priorities for the geographic area.
- 40 • Acquire, allocate, and reallocate resources.
- 41 • Provide NMAC with National Ready Reserve (NRR) resources as required.
- 42 • Issue coordinated and collective situation status reports.

43

44

45

46

47

1 National Dispatch/Coordination System

2

3 The wildland fire dispatch system in the United States has three levels (tiers):

- 4 • National
- 5 • Geographic
- 6 • Local

7

8 Logistical dispatch operations occur at all three levels, while initial attack
9 dispatch operations occur primarily at the local level. Any geographic area or
10 local dispatch center using a dispatch system outside the three-tier system must
11 justify why a non-standard system is being used and request written
12 authorization from the DOI National Office or USFS Regional Office.

13

14 National Interagency Coordination Center (NICC)

15 The NICC is located at NIFC, Boise, Idaho. The principal mission of the NICC
16 is the cost-effective and timely coordination of land management agency
17 emergency response for wildland fire at the national level. This is accomplished
18 through planning, situation monitoring, and expediting resource orders between
19 the BIA Areas, BLM States, National Association of State Foresters, FWS
20 Regions, FS Regions, NPS Regions, National Weather Service (NWS) Regions,
21 Federal Emergency Management Agency (FEMA) Regions through the United
22 States Fire Administration (USFA), and other cooperating agencies.

23

24 NICC supports non-fire emergencies when tasked by an appropriate agency,
25 such as FEMA, through the National Response Framework. NICC collects and
26 consolidates information from the GACCs and disseminates the *National*
27 *Incident Management Situation Report* through the NICC website at
28 <http://www.nifc.gov/nicc/sitreprt.pdf>.

29

30 Geographic Area Coordination Centers (GACCs)

31 There are 11 GACCs, each of which serves a specific geographic portion of the
32 United States. Each GACC interacts with the local dispatch centers, as well as
33 with NICC and neighboring GACCs. Refer to the *National Interagency*
34 *Mobilization Guide* for a complete directory of GACC locations, addresses, and
35 personnel.

36

37 The principal mission of each GACC is to provide the cost-effective and timely
38 coordination of emergency response for all incidents within the specified
39 geographic area. GACCs are also responsible for determining needs,
40 coordinating priorities, and facilitating the mobilization of resources from their
41 areas to other geographic areas.

42

43 Each GACC prepares an intelligence report that consolidates fire and resource
44 status information received from each of the local dispatch centers in its area.
45 This report is sent to NICC and to the local dispatch centers, caches, and agency
46 managers in the geographic area.

Release Date: January 2012

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1 Local Dispatch Centers

2 Local dispatch centers are located throughout the country as dictated by the
3 needs of fire management agencies. The principal mission of a local dispatch
4 center is to provide safe, timely, and cost-effective coordination of emergency
5 response for all incidents within its specified geographic area. This entails the
6 coordination of initial attack responses and the ordering of additional resources
7 when fires escape initial attack.

8
9 Local dispatch centers are also responsible for supplying intelligence
10 information relating to fires and resource status to their GACC and to their
11 agency managers and cooperators. Local dispatch centers may work for or with
12 numerous agencies, but should only report to one GACC.

13
14 Some local dispatch centers are also tasked with law enforcement and agency
15 administrative workloads for non-fire operations; if this is the case, a
16 commensurate amount of funding and training should be provided by the
17 benefiting activity to accompany the increased workload. If a non-wildland fire
18 workload is generated by another agency operating in an interagency dispatch
19 center, the agency generating the additional workload should offset this
20 increased workload with additional funding or personnel.

21

22 Local and Geographic Area Drawdown

23

24 Drawdown is the predetermined number and type of suppression resources that
25 are required to maintain viable initial attack (IA) capability at either the local or
26 geographic area. Drawdown resources are considered unavailable outside the
27 local or geographic area for which they have been identified. Drawdown is
28 intended to:

- 29 • Ensure adequate fire suppression capability for local and/or geographic area
30 managers.
- 31 • Enable sound planning and preparedness at all management levels.

32 Although drawdown resources are considered unavailable outside the local or
33 geographic area for which they have been identified, they may still be
34 reallocated by the Geographic Area or National MAC to meet higher priority
35 obligations.

36

37 Establishing Drawdown Levels

38 Local drawdown is established by the local unit and/or the local MAC group and
39 implemented by the local dispatch office. The local dispatch office will notify
40 the Geographic Area Coordination Center (GACC) of local drawdown decisions
41 and actions.

42

43 Geographic area drawdown is established by the GMAC and implemented by
44 the GACC. The GACC will notify the local dispatch offices and the National
45 Interagency Coordination Center (NICC) of geographic area drawdown decision
46 and actions.

1 National Ready Reserve (NRR)

2

3 NRR is a means by which the NMAC identifies and readies specific categories,
4 types, and quantities of fire suppression resources in order to maintain overall
5 national readiness during periods of actual or predicted national suppression
6 resource scarcity.

7 NRR implementation responsibilities are as follows:

- 8 • NMAC establishes national ready reserve requirements by resource
9 category, type, and quantity.
- 10 • NICC implements NMAC intent by directing individual GACCs to place
11 specific categories, types, and quantities of resources on national ready
12 reserve.
- 13 • GACCs direct local dispatch centers and/or assigned IMTs to specifically
14 identify resources to be placed on national ready reserve.
- 15 • GACCs provide NICC specific names of national ready reserve resources.
- 16 • NICC mobilizes national ready reserve assets through normal coordination
17 system channels as necessary.

18

19 National ready reserve resources must meet the following requirements:

- 20 • May be currently assigned to ongoing incidents.
- 21 • Must be able to demobe and be enroute to new assignment in less than 2
22 hours.
- 23 • Resources must have a minimum of 7 days left in 14 day rotation
24 (extensions will not be factored in this calculation).
- 25 • May be assigned to incidents after being designated ready reserve, in
26 coordination with NICC.
- 27 • Designated ready reserve resources may be adjusted on a daily basis.

28

29 NMAC will adjust ready reserve requirements as needed. Furthermore, in order
30 to maintain national surge capability, the NMAC may retain available resources
31 within a geographic area, over and above the established geographic area
32 drawdown level.

33

34 National Interagency Mobilization Guide

35

36 The *National Interagency Mobilization Guide* (NFES 2092) identifies standard
37 procedures which guide the operations of multi-agency logistical support
38 activity throughout the coordination system. The guide is intended to facilitate
39 interagency dispatch coordination, ensuring timely and cost effective incident
40 support. Local and Geographic Area Mobilization Guides should be used to
41 supplement the *National Interagency Mobilization Guide*.

42

43

44

45

1 Interagency Incident Business Management Handbook

2

3 All federal agencies have adopted the NWCG *Interagency Incident Business*
4 *Management Handbook* (IIBMH) as the official guide to provide execution of
5 each agency's incident business management program. Unit offices, geographic
6 areas, or NWCG may issue supplements, as long as policy or conceptual data is
7 not changed.

8

9 Since consistent application of interagency policies and guidelines is essential,
10 procedures in the IIBMH will be followed. Agency manuals provide a bridge
11 between manual sections and the IIBMH so that continuity of agency manual
12 systems is maintained and all additions, changes, and supplements are filed in a
13 uniform manner.

- 14 • *BLM - The IIBMH replaces BLM Manual Section 1111.*
- 15 • *FWS - Refer to Service Manual 095 FW 3 Wildland Fire Management.*
- 16 • *NPS - Refer to RM-18.*
- 17 • *FS - Refer to FSH 5109.34.*

18

19 Standards for Cooperative Agreements

20

21 Agreement Policy

22 Agreements will be comprised of two components: the actual agreement and an
23 operations plan. The agreement will outline the authority and general
24 responsibilities of each party and the operations plan will define the specific
25 operating procedures.

26

27 Any agreement which obligates federal funds or commits anything of value
28 must be signed by the appropriate warranted contracting officer. Specifications
29 for funding responsibilities should include billing procedures and schedules for
30 payment.

31

32 Any agreement that extends beyond a fiscal year must be made subject to the
33 availability of funds. Any transfer of federal property must be in accordance
34 with federal property management regulations.

35

36 All agreements must undergo periodic joint review; and, as appropriate,
37 revision. Assistance in preparing agreements can be obtained from local or state
38 office fire and/or procurement staff.

39

40 All appropriate agreements and operating plans will be provided to the servicing
41 dispatch center. The authority to enter into interagency agreements is extensive.

- 42 • *BLM - BLM Manual 9200, Departmental Manual 620 DM, the Reciprocal*
43 *Fire Protection Act, 42 U.S.C. 1856, and the Federal Wildland Fire*
44 *Management Policy and Program Review.*
- 45 • *FWS - Service Manual, Departmental Manual 620 DM, and Reciprocal*
46 *Fire Protection Act, 42U.S.C. 1856.*

- 1 • *NPS - Chapter 2, Federal Assistance and Interagency Agreements*
2 *Guideline (DO-20), and the Departmental Manual 620 (DM-620). NPS-*
3 *RM-18, Interagency Agreements, Release Number 1, 02/22/99.*
4 • *FS - FSM 1580, 5106.2 and FSH 1509.11.*
5

6 **Types of Agreements**

8 **National Interagency Agreements**

9 The national agreement, which serves as an umbrella for interagency assistance
10 among federal agencies is the interagency agreement between the Bureau of
11 Land Management, Bureau of Indian Affairs, National Park Service, Fish and
12 Wildlife Service of the United States Department of the Interior, and the Forest
13 Service of the United States Department of Agriculture. This and other national
14 agreements give substantial latitude while providing a framework for the
15 development of state and local agreements and operating plans.
16

17 **Regional/State Interagency Agreements**

18 Regional and state cooperative agreements shall be developed for mutual
19 assistance. These agreements are essential to the fire management program.
20 Concerns for area-wide scope should be addressed through these agreements.
21

22 **Local Interagency Agreements**

23 Local units are responsible for developing agreements with local agencies and
24 fire departments to meet mutual needs for suppression and/or prescribed fire
25 services.
26

27 **Emergency Assistance**

28 Approved, established reimbursable agreements are the appropriate and
29 recommended way to provide emergency assistance. If no agreements are
30 established, refer to your agency administrator to determine the authorities
31 delegated to your agency to provide emergency assistance.
32

33 **Contracts**

34 Contracts may be used where they are the most cost-effective means of
35 providing for protection commensurate with established standards. A contract,
36 however, does not absolve an agency administrator of the responsibility for
37 managing a fire program. The office's approved fire management plan must
38 define the role of the contractor in the overall program.
39

40 Contracts should be developed and administered in accordance with federal
41 acquisition regulations. In particular, a contract should specify conditions for
42 abandonment of a fire in order to respond to a new call elsewhere.
43

44 **Elements of an Agreement**

45
46 The following elements should be addressed in each agreement:

Release Date: January 2012

- 1 • The authorities appropriate for each party to enter in an agreement.
- 2 • The roles and responsibilities of each agency signing the agreement.
- 3 • An element addressing the cooperative roles of each participant in
4 prevention, pre-suppression, suppression, fuels, and prescribed fire
5 management operations.
- 6 • Reimbursements/Compensation - All mutually approved operations that
7 require reimbursement and/or compensation will be identified and agreed to
8 by all participating parties through a cost-share agreement. The mechanism
9 and timing of the funding exchanges will be identified and agreed upon.
- 10 • Appropriation Limitations - Parties to this agreement are not obligated to
11 make expenditures of funds or reimbursements of expenditures under terms
12 of this agreement unless the Congress of the United States of America
13 appropriates such funds for that purpose by the Counties of _____, by the
14 Cities of _____, and/or the Governing Board of Fire Commissioners
15 of _____.
- 16 • Liabilities/Waivers - Each party waives all claims against every other party
17 for compensation for any loss, damage, personal injury, or death occurring
18 as a consequence of the performance of this agreement unless gross
19 negligence on any part of any party is determined.
- 20 • Termination Procedure - The agreement shall identify the duration of the
21 agreement and cancellation procedures.
- 22 • A signature page identifying the names of the responsible officials shall be
23 included in the agreement.
- 24
- 25 • *NPS - Refer to DO-20 for detailed instructions and format for developing*
26 *agreements.*
- 27

28 **Annual Operating Plans (AOPs)**

29
30 Annual Operating Plans shall be reviewed, updated, and approved prior to the
31 fire season. The plan may be amended after a major incident as part of a joint
32 debriefing and review. The plan shall contain detailed, specific procedures
33 which will provide for safe, efficient, and effective operations.

34 35 **General Elements of an AOP**

36 The following items should be addressed in the AOP:

- 37 • **Mutual Aid**
38 The AOP should address that there may be times when cooperators are
39 involved in emergency operations and unable to provide mutual aid. In this
40 case, other cooperators may be contacted for assistance.
- 41 • **Command Structure**
42 Unified command should be used, as appropriate, whenever multiple
43 jurisdictions are involved, unless one or more parties request a single
44 agency IC. If there is a question about jurisdiction, fire managers should
45 mutually decide and agree on the command structure as soon as they arrive

1 on the fire; agency administrators should confirm this decision as soon as
2 possible. Once this decision has been made, the incident organization in
3 use should be relayed to all units on the incident as well as dispatch centers.
4 In all cases, the identity of the IC must be made known to all fireline and
5 support personnel.

6 • **Communications**

7 In mutual aid situations, a common designated radio frequency identified in
8 the AOP should be used for incident communications. All incident
9 resources should utilize and monitor this frequency for incident
10 information, tactical use, and changes in weather conditions or other
11 emergency situations. In some cases, because of equipment availability/
12 capabilities, departments/agencies may have to use their own frequencies
13 for tactical operations, allowing the “common” frequency to be the link
14 between departments. It is important that all department/agencies change to
15 a single frequency or establish a common communications link as soon as
16 practical. Clear text should be used. Avoid personal identifiers, such as
17 names. This paragraph in the AOP shall meet Federal Communications
18 Commission (FCC) requirements for documenting shared use of radio
19 frequencies.

20 • **Distance/Boundaries**

21 Responding and requesting parties should identify any mileage limitations
22 from mutual boundaries where “mutual aid” is either pay or non-pay status.
23 Also, for some fire departments, the mileage issue may not be one of initial
24 attack “mutual aid”, but of mutual assistance. In this situation, you may
25 have the option to make it part of this agreement or identify it as a situation
26 where the request would be made to the agency having jurisdiction, which
27 would then dispatch the fire department.

28 • **Time/Duration**

29 Responding and requesting parties should identify time limitations (usually
30 24 hours) for resources in a non-reimbursable status, and “reimbursable
31 rates” when the resources are in a reimbursable status.

32 • **Qualifications/Minimum Requirements**

33 As per the NWCG memorandum *Qualification Standards During Initial*
34 *Action, March 22, 2004* and the PMS 310-1 *Wildland Fire Qualification*
35 *System Guide*:

- 36 ○ The 310-1 qualification/certification standards are mandatory only for
37 national mobilization of wildland fire fighting resources.
- 38 ○ During initial action, all agencies (federal, state, local and tribal) accept
39 each other’s standards. Once jurisdiction is clearly established, then
40 the standards of the agency(s) with jurisdiction prevail.
 - 41 ■ *BLM- During initial attack, all agencies accept each other’s*
42 *standards. When an incident exceeds initial attack and*
43 *jurisdiction has been established, the standards of the*
44 *jurisdictional agency(s) prevail.*
- 45 ○ Prior to the fire season, federal agencies should meet with their state,
46 local, and tribal agency partners and jointly determine the qualification/

- 1 certification standards that will apply to the use of local, non-federal
2 firefighters during initial action on fires on lands under the jurisdiction
3 of a federal agency.
- 4 ○ The Geographic Area Coordinating Group should determine the
5 application of 310-1 qualification/certification standards for
6 mobilization within the geographic area.
 - 7 ○ On a fire where a non-federal agency is also an agency with legal
8 jurisdiction, the standards of that agency apply.
 - 9 ○ The AOP should address qualification and certification standards
10 applicable to the involved parties.
- 11 ● **Reimbursement/Compensation**
12 Compensation shall be as close to actual expenditures as possible. This
13 should be clearly identified in the AOP. Vehicles and equipment operated
14 under the federal excess property system will only be reimbursed for
15 maintenance and operating costs.
 - 16 ● **Cooperation**
17 The annual operating plan will be used to identify how the cooperators will
18 share expertise, training, and information on items such as prevention,
19 investigation, safety, and training.
 - 20 ● **Agency Reviews and Investigations**
21 Annual operating plans should describe processes for conducting agency
22 specific reviews and investigations.
 - 23 ● **Dispatch Centers**
24 Dispatch centers will ensure all resources know the name of the assigned IC
25 and announce all changes in incident command. Geographic Area
26 Mobilization Guides, Zone Mobilization Guides, and Local Mobilization
27 Guides should include this procedure as they are revised for each fire
28 season.
- 29
- 30 **Fiscal Responsibility Elements of an AOP**
31 Annual Operating Plans should address the following:
- 32 ● The level of communication required with neighboring jurisdictions
33 regarding the management of all wildland fires, especially those with
34 multiple objectives.
 - 35 ● The level of communication required with neighboring jurisdictions
36 regarding suppression resource availability and allocation, especially for
37 wildland fires with objectives that include benefit.
 - 38 ● Identify how to involve all parties in developing the strategy and tactics to
39 be used in preventing wildland fire from crossing the jurisdictional
40 boundary, and how all parties will be involved in developing mitigations
41 which would be used if a wildland fire does cross jurisdictional boundaries.
 - 42 ● Jurisdictions, which may include state and private lands, should identify the
43 conditions under which wildland fire may be managed to achieve benefit,
44 and the information or criteria that will be used to make that determination

- 1 (e.g. critical habitat, hazardous fuels, and land management planning
2 documents).
- 3 ● Jurisdictions will identify conditions under which cost efficiency may
4 dictate where suppression strategies and tactical actions are taken (i.e. it
5 may be more cost effective to put the containment line along an open
6 grassland than along a mid-slope in timber). Points to consider include loss
7 and benefit to land, resource, social and political values, and existing legal
8 statutes.
 - 9 ● The cost-sharing methodologies that will be utilized should wildfire spread
10 to a neighboring jurisdiction in a location where fire is not wanted.
 - 11 ● The cost-share methodologies that will be used should a jurisdiction accept
12 or receive a wildland fire and manage it to create benefit.
 - 13 ● Any distinctions in what cost-share methodology will be used if the reason
14 the fire spreads to another jurisdiction is attributed to a strategic decision,
15 versus environmental conditions (weather, fuels, and fire behavior), or
16 tactical considerations (firefighter safety, resource availability) that preclude
17 stopping the fire at jurisdictional boundaries. Examples of cost-sharing
18 methodologies may include, but are not limited to, the following:
 - 19 ○ When a wildland fire that is being managed for benefit spreads to a
20 neighboring jurisdiction because of strategic decisions, and in a
21 location where fire is not wanted, the managing jurisdiction shall be
22 responsible for wildfire suppression costs.
 - 23 ○ In those situations where weather, fuels, or fire behavior of the
24 wildland fire precludes stopping at jurisdiction boundaries cost-share
25 methodologies may include, but are not limited to:
 - 26 a) Each jurisdiction pays for its own resources – fire suppression
27 efforts are primarily on jurisdictional responsibility lands,
 - 28 b) Each jurisdiction pays for its own resources – services rendered
29 approximate the percentage of jurisdictional responsibility, but not
30 necessarily performed on those lands,
 - 31 c) Cost share by percentage of ownership,
 - 32 d) Cost is apportioned by geographic division. Examples of
33 geographic divisions are: Divisions A and B (using a map as an
34 attachment); privately owned property with structures; or specific
35 locations such as campgrounds,
 - 36 e) Reconciliation of daily estimates (for larger, multi-day incidents).
37 This method relies upon daily agreed to cost estimates, using Incident
38 Action Plans or other means to determine multi-Agency
39 contributions. Reimbursements can be made upon estimates instead
40 of actual bill receipts.

41
42 For further information, refer to *NWCG Memorandum #009-2009 Revisions to*
43 *the Annual Operating Plans for Master Cooperative Fire and Stafford Act*
44 *Agreements due to Implementation of Revised Guidance for the Implementation*
45 *of Federal Wildland Fire Management Policy, April 13, 2009*
46

1 All-Hazards Coordination and Cooperation

2

3 All-hazards incidents are natural, technological, or human-caused incidents that
4 warrant action to protect life, property, environment, and public health or safety,
5 and to minimize disruptions of school activities. Wildland fire is one type of all-
6 hazard incident. All-hazards incidents are managed using a standardized
7 national incident management system and response framework.

8

9 Stafford Act Disaster Relief and Emergency Assistance

10 The *Robert T. Stafford Disaster Relief and Emergency Assistance Act (Public*
11 *Law 93-288, as amended)* establishes the programs and processes for the Federal
12 Government to provide disaster and emergency assistance to states, local
13 governments, tribal nations, individuals, and qualified private non-profit
14 organizations. The provisions of the Stafford Act cover all hazards including
15 natural disasters and terrorist events. In a major disaster or emergency as
16 defined by the act, the President “may direct any federal agency, with or without
17 reimbursement, to utilize its authorities and the resources granted to it under
18 federal law (including personnel, equipment, supplies, facilities, managerial,
19 technical, and advisory services) in support of state and local assistance efforts.”

20

21 Homeland Security Act

22 The *Homeland Security Act of 2002 (Public Law 107-296)* established the
23 Department of Homeland Security (DHS) with the mandate and legal authority
24 to protect the American people from the continuing threat of terrorism. In the
25 act, Congress also assigned DHS as the primary focal point regarding natural
26 and manmade crises and emergency planning.

27

28 Homeland Security Presidential Directive-5

29 *Homeland Security Presidential Directive (HSPD-5), Management of Domestic*
30 *Incidents, February 28, 2003*, is intended to enhance the ability of the United
31 States to manage domestic incidents by establishing a single, comprehensive
32 national incident management system. HSPD-5 designates the Secretary of
33 Homeland Security and the Principal Federal Official (PFO) for domestic
34 incident management and empowers the Secretary to coordinate Federal
35 resources used in response to or recovery from terrorist attacks, major disasters,
36 or other emergencies in specific cases.

37

38 National Response Framework

39 Federal disaster relief and emergency assistance are coordinated by the Federal
40 Emergency Management Agency (FEMA) using the National Response
41 Framework (NRF). The NRF, using the National Incident Management System
42 (NIMS), establishes a single, comprehensive framework for the management of
43 domestic incidents. The NRF provides the structure and mechanisms for the
44 coordination of federal support to state, local, and tribal incident managers; and
45 for exercising direct federal authorities and responsibilities. Information about

1 the National Response Framework can be found at:
 2 <http://www.fema.gov/nrf/index.htm>

3
 4 **National Incident Management System (NIMS)**

5 HSPD-5 directed that the DHS Secretary develop and administer a National
 6 Incident Management System to provide a consistent, nationwide approach for
 7 Federal, State, and local governments to work effectively and efficiently
 8 together to prepare for, respond to, and recover from domestic incidents,
 9 regardless of cause, size, or complexity. To provide for interoperability and
 10 compatibility among federal, state, and local capabilities, the NIMS will include
 11 a core set of concepts, principles, terminology, and technologies covering the
 12 incident command system; multi-agency coordination systems; unified
 13 command; training; identification and management of resources (including
 14 systems for classifying types of resources); qualifications and certification; and
 15 the collection, tracking, and reporting of incident information and incident
 16 resources.

17
 18 **Emergency Support Function (ESF) Annexes**

19 Emergency Support Function (ESF) Annexes are the components of the NRF
 20 that detail the mission, policies, structures, and responsibilities of federal
 21 agencies. They are utilized for coordinating resource and programmatic support
 22 to the states, tribes, and other federal agencies or other jurisdictions and entities
 23 during Incidents of National Significance. Each ESF Annex identifies the ESF
 24 coordinator and the primary and support agencies pertinent to the ESF. The
 25 primary agency serves as a federal executive agent under the Federal
 26 Coordinating Officer to accomplish the ESF mission. Support agencies, when
 27 requested by the DHS or the designated ESF primary agency, are responsible for
 28 conducting operations using their own authorities, subject-matter experts,
 29 capabilities, or resources. USDA-FS is the coordinator and primary agency for
 30 ESF #4 - Firefighting. For ESF #4 operations that occur in the State of Alaska,
 31 the USDA-FS remains the primary agency under the NRF, and works closely
 32 with the Department of the Interior (DOI)/Bureau of Land Management, who
 33 serves as the operational lead for firefighting response in Alaska. See
 34 <http://www.fema.gov/pdf/nrf/nrf-esf-04.pdf> for further information regarding
 35 ESF #4.

36
 37 Other NRF USDA-FS and DOI responsibilities are:

ESF Support Annex	USDA Role	DOI Role
#01 Transportation	Support	Support
#02 Communications	Support	Support
#03 Public Works and Engineering	Support	Support
#04 Firefighting	Coordinator & Primary	Support
#05 Emergency Management	Support	Support

#06 Mass Care, Emergency Assistance, Housing, & Human Services	Support	Support
#07 Logistics Management and Resources Support	Support	Support
#08 Public Health and Medical Services	Support	Support
#09 Search and Rescue	Support	Primary
#10 Oil and Hazardous Materials Response	Support	Support
#11 Agriculture and Natural Resources	Support (through USDA)	Primary
#12 Energy		Support
#13 Public Safety and Security	Support	Support
#14 Long-term Community Recovery		Support
#15 External Affairs	Support	Support

1

2 **National Oil and Hazardous Substances Pollution Contingency Plan (NCP,**
3 **40 CFR 300)**

4 The NCP provides the organizational structure and procedures for preparing for
5 and responding to discharges of oil and releases of hazardous substances,
6 pollutants, and contaminants. The NCP is required by section 105 of the
7 Comprehensive Environmental Response, Compensation, and Liability Act of
8 1980 (CERCLA), 42 U.S.C. 9605, as amended by the Superfund Amendments
9 and Reauthorization Act of 1986 (SARA), P.L. 99-499, and by section 311(d) of
10 the Clean Water Act (CWA), 33 U.S.C. 1321(d), as amended by the Oil
11 Pollution Act of 1990 (OPA), P.L. 101-380. The NCP identifies the national
12 response organization that may be activated in response actions to discharges of
13 oil and releases of hazardous substances, pollutants, and contaminants in
14 accordance with the authorities of CERCLA and the CWA. It specifies
15 responsibilities among the federal, state, and local governments and describes
16 resources that are available for response, and provides procedures for involving
17 state governments in the initiation, development, selection, and implementation
18 of response actions, pursuant to CERCLA. The NCP works in conjunction with
19 the National Response Framework through Emergency Support Function 10 –
20 Oil and Hazardous Material Response.

21

22 **Post-Katrina Emergency Management Reform Act**

23 The *Post-Katrina Emergency Reform Act of 2006 (Public Law 109-295)*
24 amended the Homeland Security Act. This law established the FEMA
25 Administrator as responsible for managing the Federal response to emergencies
26 and disasters, and for reporting directly to the President. The Secretary of
27 Homeland Security is the Principal Federal Official, but has no direct authority
28 for response or coordination.

29

30

1 **Presidential Policy Directive-8**

2 *Presidential Policy Directive-8 (PPD-8), National Preparedness, March 30,*
3 *2011* is intended to strengthen all-of-Nation preparedness. PPD-8 directs the
4 Secretary of Homeland Security to develop a national preparedness goal and a
5 national preparedness system in coordination and consultation with other federal
6 departments and agencies, state, local, tribal, and territorial governments, private
7 and non-profit sectors, and the public. The national preparedness system will be
8 comprised of:

- 9 • National planning frameworks for the prevention, protection, mitigation,
10 response to, and recovery from national threats. These frameworks will be
11 similar and complementary to the National Response Framework (NRF).
- 12 • Corresponding interagency and agency operational plans.
- 13 • Guidance for the national interoperability of personnel and equipment.
- 14 • Guidance for business, community, family, and individual preparedness.

15
16 **All-Hazards Coordination and Cooperation**

17 In an actual or potential Incident of National Significance that is not
18 encompassed by the Stafford Act, the President may instruct a federal
19 department or agency, subject to any statutory limitations on the department or
20 agency, to utilize the authorities and resources granted to it by Congress. In
21 accordance with Homeland Security Presidential Directive-5, federal
22 departments and agencies are expected to provide their full and prompt support,
23 cooperation, available resources, consistent with their own responsibilities for
24 protecting national security. Personnel assigned to all-hazard incidents may
25 only perform duties within agency policy, training, and capability.

26
27 **USFS All-Hazards Guiding Principles and Doctrine**

28 The Forest Service has developed doctrine, known as the *Foundational Doctrine*
29 *for All-Hazard Response*, outlining the guiding principles, roles, and
30 responsibilities of the agency during all-hazards response. Forest Service
31 responders and leadership are expected to follow this doctrine, established to
32 help ensure the safest response conditions possible.

33
34 The following principles encompass the guidelines, roles, and responsibilities
35 established in this doctrine:

- 36 • The intent of Forest Service all-hazard response and support is to protect
37 human life, property, and at-risk lands and resources *while imminent threats*
38 *exist*.
- 39 • Personnel should be prepared and organized to support all-hazard responses
40 by providing trained personnel to utilize their inherent skills, capabilities,
41 and assets -without requiring significant advanced training and preparation.
42 Support to cooperators requiring wildland resources will be consistent with
43 employee core skills, capabilities, and training.
- 44 • As incidents move from the *response phase* to the *recovery phase*, there
45 should be a shift to demobilizing agency resources.

- 1 • Within all-hazard response environments, agency personnel may encounter
2 situations in which there is an imminent threat to life and property outside
3 of their Agency's jurisdiction. These environments include scenarios
4 ranging from being first on scene at a vehicle accident, to committing
5 Agency resources to protect a local community. Leaders are therefore
6 expected to use their judgment and respond appropriately.
- 7 • Wildland resources deployed to all-hazard responses will understand the
8 dynamic and complex environment and utilize their leadership, training, and
9 skills to adapt, innovate, and bring order to chaos.
- 10 • Leaders are expected to operate within the incident organizational structure
11 encountered on all-hazard responses. When such structure is absent, they
12 will utilize National Incident Management System principles to assure safe
13 and effective utilization of agency resources.
- 14 • Leaders are expected to operate under existing policies and doctrine under
15 normal conditions. On all-hazard responses, fire and aviation business and
16 safety standards may have to be adapted to the situation to successfully
17 accomplish the mission. When conflicts occur, employees will use their
18 judgment, weigh the risk versus gain, and operate within the intent of
19 Agency policy and doctrine.
- 20 • All-hazard response will be focused on missions that we perform
21 consistently and successfully. Workforce assignments will be directed
22 toward the core skills developed through our existing training and
23 curriculum.
- 24 • Agency employees will be trained to operate safely and successfully in the
25 all-hazard environment. Preparedness training will focus on gaining
26 general knowledge of all-hazard response, disaster characteristics, as well as
27 the effects from these events on citizens and responders.
- 28 • Specific operational skills will be facilitated through the National Incident
29 Management System, working with the responsible agencies who supply
30 the technical specialists who, in turn, provide the specific skill sets. The
31 Forest Service will not train or equip to meet every hazard.
- 32 • Wildland employees are expected to perform all-hazard support as directed
33 within their qualifications and physical capabilities. All employees have the
34 right to a safe assignment. The employee may suspend his or her work
35 whenever any environmental condition –or combination of conditions–
36 become so extreme that an immediate danger is posed to employee health
37 and safety that cannot be readily mitigated by the use of appropriate,
38 approved protective equipment or technology.
- 39 • Acceptable risk is risk mitigated to a level that provides for reasonable
40 assurances that the all-hazard task can be accomplished without serious
41 injury to life or damage to property.
- 42 • All-hazard incident-specific briefing and training will be accomplished
43 *prior* to task implementation. This preparation will usually occur prior to
44 mobilization where incident description, mission requirements, and known
45 hazards are addressed. Key protective equipment and associated needs for

- 1 these all-hazard task that wildland employees do not routinely encounter or
2 perform will be identified. This will be done- and be in place- *prior* to task
3 implementation.
- 4 • Agency employees will be provided with appropriate vaccinations,
5 credentials, and personal protective equipment to operate in the all-hazard
6 environment to which they are assigned.
 - 7 • Additional information can be found in the Forest Service Foundational
8 Doctrine for All-Hazard Response:
9 http://www.fs.fed.us/fire/doctrine/conferences/all_hazard_response.pdf

11 **International Wildland Fire Coordination and Cooperation**

13 **U.S. - Mexico Cross Border Cooperation on Wildland Fires**

14 In June of 1999, the Department of Interior and the Department of Agriculture
15 signed a Wildfire Protection Agreement with Mexico. The agreement has two
16 purposes:

- 17 • To enable wildfire protection resources originating in the territory of one
18 country to cross the United States-Mexico border in order to suppress
19 wildfires on the other side of the border within the zone of mutual
20 assistance (10 miles/16 kilometers) in appropriate circumstances.
- 21 • To give authority for Mexican and U.S. fire management organizations to
22 cooperate on other fire management activities outside the zone of mutual
23 assistance.

24
25 National Operational Guidelines for this agreement are located in Chapter 40 of
26 the *National Interagency Mobilization Guide* available online. These guidelines
27 cover issues at the national level and also provide a template for those issues that
28 need to be addressed in local operating plans. The local operating plans identify
29 how the agreement will be implemented by the GACCs (and Zone Coordination
30 Centers) that have dispatching responsibility on the border. The local operating
31 plans will provide the standard operational procedures for wildfire suppression
32 resources that could potentially cross the U.S. border into Mexico.

34 **U.S. - Canada, Reciprocal Forest Firefighting Arrangement**

35 Information about United States - Canada cross border support is located in
36 Chapter 40 of the *National Interagency Mobilization Guide* available online.
37 This chapter provides policy guidance, which was determined by an exchange of
38 diplomatic notes between the U.S. and Canada in 1982. This chapter also
39 provides operational guidelines for the Canada - U.S. Reciprocal Forest Fire
40 Fighting Arrangement. These guidelines are updated yearly.

42 **U.S. - Australia/New Zealand Wildland Fire Arrangement**

43 Information about United States - Australia/New Zealand support is located in
44 Chapter 40 of the *National Interagency Mobilization Guide* available online.
45 This chapter provides a copy of the arrangements signed between the U.S. and
46 the states of Australia and the country of New Zealand for support to one

Release Date: January 2012

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1 another during severe fire seasons. It also contains the AOP that provides more
2 detail on the procedures, responsibilities, and requirements used during
3 activation.

4 5 **International Non-Wildland Fire Coordination and Cooperation**

6 7 **International Disasters Support**

8 Federal wildland fire employees may be requested through the FS to support the
9 U.S. Government's (USG) response to international disasters by serving on
10 Disaster Assistance Response Teams (DARTs). A DART is the operational
11 equivalent of an ICS team used by the U.S. Agency for International
12 Development's Office of Foreign Disaster Assistance (OFDA) to provide an on-
13 the-ground operational capability at the site of an international disaster. Prior to
14 being requested for a DART assignment, employees will have completed a
15 weeklong DART training course covering information about:

- 16 • USG agencies charged with the responsibility to coordinate USG responses
17 to international disaster.
- 18 • The purpose, organizational structure, and operational procedures of a
19 DART.
- 20 • How the DART relates to other international organizations and countries
21 during an assignment. Requests for these assignments are coordinated
22 through the FS International Programs, Disaster Assistance Support
23 Program (DASP).
- 24 • DART assignments should not be confused with technical exchange
25 activities, which do not require DART training.

26
27 More information about DARTs can be obtained at the FS International
28 Program's website: <http://www.fs.fed.us/global/aboutus/dasp/welcome.htm>.

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Chapter 09 Fire Management Planning

Policy and Implementation

Every area with burnable vegetation must have an approved Fire Management Plan (FMP). FMPs are strategic plans that define a program to manage planned and unplanned ignitions based on the areas approved Land or Resource Management Plan (L/RMP). FMPs must provide for firefighter and public safety; include fire management strategies, tactics, and alternatives; address values to be protected and public health issues; and be consistent with resource management objectives, activities of the area, and environmental laws and regulations.

For complete historical interagency policy and implementation guidance, see http://www.nwcg.gov/branches/ppm/fpc/archives/fire_policy/index.htm
<http://www.nifc.gov/policies.htm>

Purpose

The fire management planning process and requirements may differ among agencies. However, for all agencies, the FMP contains strategic and operational elements that describe how to manage applicable fire program components such as: response to unplanned ignitions, hazardous fuels and vegetation management, burned area emergency stabilization and rehabilitation, prevention, community interactions and collaborative partnerships roles, and monitoring and evaluation programs.

The FMP includes a concise summary of information organized by fire management unit (FMU) or units. Each FMP should be updated as new information becomes available, as conditions on the ground necessitate updates, or when changes are made to the L/RMP.

For an example of FMP templates, see:

- **DOI-** <http://www.nwcg.gov/branches/ppm/ifpc/library.htm>
- **FS-** <http://fsweb.wo.fs.fed.us/fire/fmp/>

Wildland Fire Management Objectives

A wildland fire may be concurrently managed for one or more objectives as specified in the L/RMP and FMP. Objectives can change as the fire spreads across the landscape and are affected by changes in fuels, weather, topography; varying social understanding and tolerance; and involvement of other governmental jurisdictions having different missions and objectives.

1 Concepts and Definitions

2
3 For further clarification of concepts and definitions that follow, refer to
4 *Terminology Updates Resulting from Release of the Guidance for the*
5 *Implementation of Federal Wildland Fire Management Policy (2009), April 30,*
6 *2010 (NWCG #024-2010), and the *Guidance for Implementation of Federal**
7 *Wildland Fire Management Policy, February 13, 2009.*
8

9 Land/Resource Management Plan

10 A document prepared with public participation and approved by the agency
11 administrator that provides general guidance and direction for land and resource
12 management activities for an administrative area. The L/RMP identifies fire's
13 role in a particular area and for a specific benefit. The objectives in the L/RMP
14 provide the basis for the development of fire management objectives and the fire
15 management program in the designated area.
16

17 Fire Management Plan

18 A Fire Management Plan (FMP) identifies and integrates all wildland fire
19 management (both planned and unplanned ignitions) and associated activities
20 within the context of the approved L/RMP. The FMP is supplemented by
21 operations plans, including but not limited to preparedness plans, preplanned
22 dispatch plans, fuels treatment plans, and prevention plans. FMPs assure that
23 wildland fire management goals and objectives are coordinated.
24

25 Fire Management Unit

26 The primary purpose of developing Fire Management Units (FMUs) in fire
27 management planning is to assist in organizing information in complex
28 landscapes. The process of creating FMUs divides the landscape into smaller
29 geographic areas to more easily describe physical/biological/social
30 characteristics and frame associated planning guidance based on these
31 characteristics. FMUs should be developed through interagency efforts and
32 interactions to facilitate common fire management across boundaries.
33

34 An FMU can be any land management area definable by objectives that set it
35 apart from the management characteristics of an adjacent FMU (e.g.
36 management constraints, topographic features, access, values to be protected,
37 political boundaries, fuel types, and major fire regime groups). The FMU may
38 have dominant management objectives and pre-selected strategies assigned to
39 accomplish these objectives.
40

41 Wildland Fire

42 Wildland fire is a general term describing any non-structure fire that occurs in
43 vegetation and/or natural fuels including both prescribed fire and wildfire.
44
45
46

1 Fire Type

2 Wildland fires are categorized into two distinct types:

- 3 • Wildfires- Unplanned ignitions or prescribed fires that are declared
- 4 wildfires.
- 5 • Prescribed fires- Planned ignition.

7 Response to Wildland Fire

8 Responses to wildland fire will be coordinated with all affected
9 agencies/cooperators regardless of the jurisdiction at the ignition point. Fire, as
10 a critical natural process, will be integrated into land and resource management
11 plans and activities on a landscape scale, and across agency boundaries.

12
13 Management response to a wildland fire on federal land is based on objectives
14 established in the applicable L/RMP and FMP. A wildfire may be concurrently
15 managed for more than one objective. Unplanned natural ignitions may be
16 managed to achieve L/RMP and FMP objectives when risk is within acceptable
17 limits.

- 18 • *FS- All wildfires will have a protection objective.*

19
20 Initial response to human-caused wildfires will be to suppress the fire at the
21 lowest cost with the fewest negative consequences with respect to firefighter and
22 public safety.

- 23 • *FS- Human caused fires and trespass fires must be suppressed safely and*
24 *cost effectively and must not be managed for resource benefits.*
- 25 • *BLM- All known human caused fires, except escaped prescribed fires, will*
26 *be suppressed in every instance and will not be managed for resource*
27 *benefits.*

28
29 Response to wildland fire is based on ecological, social, and legal consequences
30 of the fire. The appropriate response to the fire is dictated by:

- 31 • The circumstances under which a fire occurs
- 32 • The likely consequences to firefighter/public safety and welfare
- 33 • The natural/cultural resource values to be protected

35 Initial Response

36 Initial response is the immediate decisions and actions taken to react to an
37 ignition. These decisions and actions may include a management or initial
38 decision to postpone taking action on the ground based on conditions, safety,
39 and/or competing priorities.

41 Initial Attack

42 This type of initial response is an aggressive action to put the fire out consistent
43 with firefighter and public safety and values to be protected.

44
45

1 Extended Attack

2 Suppression activity for a wildfire that has not been contained or controlled by
3 initial attack or contingency forces and for which more firefighting resources are
4 arriving, en route, or being ordered by the initial attack incident commander.
5 See *NWCG Glossary of Wildland Fire Terminology, November 2008*.

6

7 Wildfire Suppression

8 Management action to extinguish a fire or confine fire spread.

Chapter 10 Preparedness

Preparedness

Preparedness is the result of activities that are planned and implemented prior to wildland fire ignitions to ensure safe, efficient, and effective management action. Preparedness is a continuous process that includes developing and maintaining unit, state/regional, and national level firefighting infrastructure, predicting fire activity, hiring, training, equipping, and deploying firefighters, evaluating performance, correcting deficiencies, and improving overall operations. The preparedness process includes routine pre-season actions as well as incremental in-season actions conducted in response to increasing fire danger.

Preparedness actions are based on operational plans such as Fire Danger Operating Plans (FDOPs), Preparedness Level/Step-up Plans, and/or initial response plans.

Fire Danger Operating Plan

FDOPs use information from decision support tools such as the National Fire Danger Rating System (NFDRS), the Canadian Forest Fire Danger Rating System (CFFDRS, used in interior Alaska), the Palmer Drought Index, live fuel moisture data, monthly or seasonal wildland fire outlooks, seasonal climate forecasts, and wildland fire risk analyses. FDOPs should be prepared by individuals trained at the Intermediate NFDRS (S-491) level, and preferably the Advanced NFDRS level.

The FDOP guides the application of information from decision support tools (i.e. NFDRS, CFFDRS, etc.) at the local level. A FDOP documents the establishment and management of the local unit fire weather station network and describes how fire danger ratings are applied to local unit fire management decisions. FDOPs are generally prepared for local interagency areas; therefore, interagency involvement throughout the process is essential. Interagency FDOPs are an integral component of unit fire management plan(s). FDOPs may be packaged as a stand-alone document or as part of a larger planning effort (such as a fire management plan).

All units will develop and maintain a Fire Danger Operating Plan. Fire Danger Operating Plans include, but are not limited to, the following components:

- **Roles and Responsibilities**

Defined for those responsible for maintenance and daily implementation of the plan, program management related to the plan, and associated training.

- 1 Training for development of fire danger rating areas is available through
2 NWCG-sponsored NFDRS courses.
- 3 • **Fire Danger Rating Inventory**
4 An inventory of the basic components of the operating plan will include a
5 description of the dispatch response areas, protection units, administrative
6 units, fire occurrence, land management objectives, standards, guidelines,
7 etc. The fire danger rating inventory:
 - 8 ○ includes identification of fire/ignition issues specific to the area;
 - 9 ○ incorporates NFDRS fuel models, slope classes (topography, and
10 weather/climatology into Fire Danger Rating Areas (FDRAs); and
 - 11 ○ validates the existing weather station network and identifies any
12 additional weather stations that support fire danger rating needs.
 - 13 • **Operational Procedures**
14 This section establishes the procedures used to gather and process data in
15 order to integrate fire danger rating information into decision processes.
16 The network of fire weather stations whose observations are used to
17 determine fire danger ratings is identified. Station maintenance
18 responsibilities and schedules are defined.
 - 19 ○ NFDRS offers several choices of fuel model and output to the user.
20 Distinct selections of fuel model and index/component are appropriate
21 for different management decisions (such as internal readiness or
22 industrial and public restrictions). The choice of NFDRS fuel model
23 and index or component used to determine fire danger ratings to
24 support particular decisions is explained in this section.
 - 25 ○ NFDRS requires periodic management in order to produce appropriate
26 results that are applied in a timely manner. Some daily observation
27 variables (such as state of the weather) must be manually validated
28 and published daily. This procedure is essential for the calculation of
29 daily and forecasted NFDRS outputs in the Weather Information
30 Management System (WIMS) and ensures weather data storage in the
31 National Interagency Fire Management Integrated Database
32 (NIFMID). These efforts are coordinated with the local National
33 Weather Service fire weather meteorologists and Geographic Area
34 Coordination Center (GACC) predictive services meteorologists to
35 provide timely forecasted NFDRS outputs. Observed (today) and
36 forecasted (tomorrow) NFDRS outputs are communicated daily. Live
37 fuel moisture model inputs (such as herbaceous vegetation type/stage,
38 season code, greenness factor) are adjusted seasonally in WIMS
39 (<http://fam.nwcg.gov/fam-web/>) at appropriate times. Decision points
40 are determined through analysis using FireFamily Plus and reviewed
41 and adjusted annually or more often as appropriate in WIMS.
 - 42 • **Climatic Breakpoints and Fire Business Thresholds**
43 Climatological breakpoints and fire business thresholds are established to
44 provide NFDRS-based decision points for all appropriate management
45 responses in a Fire Danger Rating Area (FDRA). Climatological

1 breakpoints are points on the cumulative distribution of one fire
2 weather/danger index computed from climatology without regard for
3 associated fire occurrence/business. For example, the value of the 90th
4 percentile ERC is the climatological breakpoint at which only 10 percent of
5 the ERC values are greater in value. Climatological percentiles are used for
6 budgetary decisions by federal agencies.

- 7 ○ BLM - 80th and 95th percentiles
- 8 ○ FWS/NPS/FS - 90th and 97th percentiles

9
10 It is important to identify the period or range of data analysis used to determine
11 the agency percentiles. The percentile values for 12 months of data will be
12 different from the percentile values for the fire season. Year round data should
13 be used for percentiles for severity type decisions, and percentiles based on fire
14 season data for staffing levels and adjective fire danger rating.

15
16 It is equally important to recognize that these agency-specific climatological
17 percentiles represent a method to describe a point during the year with respect to
18 fire weather/danger indices computed from historical weather only.
19 Climatological percentiles do not incorporate the correlation of fire occurrence
20 data.

21
22 Fire business thresholds are values of one or more fire weather/fire danger
23 indices that have been statistically related to occurrence of fires (fire business).
24 Generally, the threshold is a range of weather/fire danger values where fire
25 activity has significantly increased or decreased. Assuming that a
26 comprehensive FireFamilyPlus analysis of historical weather and fire occurrence
27 data is completed, fire business thresholds are expected to more closely predict
28 large and/or multiple fire activity than climatological breakpoints.

29 30 **Staffing Level**

31 The Staffing Level is used to make daily internal fire operations decisions. A
32 unit can operate with anywhere from 3 to 9 levels of staffing. Most units
33 typically use 5 (1,2,3,4,5) or 6 (1,2,3L,3H,4,5) levels. Staffing Level is a direct
34 output of the danger rating processor (WIMS) and is based on one of the
35 following:

- 36 ● NFDRS (Burning Index, Energy Release Component, Spread Component,
37 or Ignition Component)
- 38 ● Keetch-Byram Drought Index

39 40 **Adjective Fire Danger Rating**

41 Adjective Fire Danger Rating (low, moderate, high, very high, extreme) is based
42 on the NFDRS index or component used to compute staffing level and the
43 ignition component (the probability that a firebrand would cause a wildland
44 fire). It is a general description of fire danger for the purpose of informing the

1 public. Adjective ratings are computed automatically in the WIMS based on
2 NFDRS parameters provided by local fire managers.

3
4 Climatological breakpoints and fire business thresholds are developed with
5 NFDRS software, such as FireFamilyPlus, and are applied in the NFDRS
6 processor, (WIMS), to determine daily staffing levels and adjective ratings.

8 **Preparedness Plans**

9
10 Preparedness plans provide management direction given identified levels of
11 burning conditions, fire activity, and resource commitment, and are required at
12 national, state/regional, and local levels. Preparedness plans must be
13 documented as part of the unit's Fire Management Plan. Preparedness plans
14 consist of:

- 15 • An analysis and decision making process, including a Fire Danger
16 Operating Plan;
- 17 • A validation that each Remote Automated Weather Station (RAWS) meets
18 the requirements of the *Interagency Wildland Fire Weather Station*
19 *Standards and Guidelines* (PMS 426-3); and
- 20 • The identification of actions to be taken in response to increasing levels of
21 fire severity and activity (preparedness level) at the unit level. Preparedness
22 levels (1-5) are determined by incremental measures of burning conditions,
23 fire activity, and resource commitment.

24
25 Refer to the National Interagency Mobilization Guide and GACC Mobilization
26 Guides for more information on preparedness plans.

28 **Preparedness Level/Step-up Plans**

29
30 Preparedness Level/Step-up Plans are designed to direct incremental
31 preparedness actions in response to increasing fire danger. Each Step-Up Plan
32 should address the five preparedness levels (1, 2, 3, 4, and 5) and the
33 corresponding planned actions that are intended to mitigate those fire danger
34 conditions.

35
36 Outputs from the FDOP process are used to support the decisions found in
37 staffing plans, step-up staffing plans, preparedness levels, dispatch response
38 plans, dispatch response levels, etc. Increasing fire danger suggests a
39 corresponding increase in preparedness actions intended to mitigate those fire
40 danger conditions.

41
42 The Staffing Plan describes escalating responses that are pre-approved in the
43 FDOP and fire management plan. Mitigating actions are designed to enhance
44 the unit's fire management capability during short periods (one burning period,

1 Fourth of July, or other pre-identified events) where normal staffing cannot meet
2 initial attack, prevention, or detection needs.

3

4 The difference between preparedness level/step-up and severity is that
5 preparedness level/step-up actions are established in the unit FDOP and fire
6 management plan and implemented by the unit when those pre-identified
7 conditions are experienced. Severity is a longer duration condition that cannot
8 be adequately dealt with under normal staffing, such as a killing frost converting
9 live fuel to dead fuel or drought conditions. Severity is discussed later in this
10 chapter.

11

12 Mitigating actions identified in the fire management plan should include, but are
13 not limited to, the following items:

- 14 • Management direction and considerations
- 15 • Fire prevention actions, including closures/restrictions, media messages,
16 signing, and patrolling
- 17 • Prepositioning suppression resources
- 18 • Cooperator discussion and/or involvement
- 19 • Safety considerations: safety message, safety officer
- 20 • Augmentation of suppression forces
- 21 • Support function: consideration given to expanded dispatch activation,
22 initial attack dispatch staffing, and other support needs (procurement,
23 supply, ground support, and communication)
- 24 • Support staff availability outside of fire organization
- 25 • Communication of Fire Weather Watch and Red Flag Warning conditions
- 26 • Fire danger/behavior assessment
- 27 • Briefings for management and fire suppression personnel
- 28 • Fire information - internal and external
- 29 • Multi-agency coordination groups/area command activation
- 30 • Prescribed fire direction and considerations
- 31 • Increased detection activities

32

33 **Initial Response Plans**

34

35 Initial Response plans (e.g. run cards, preplanned response, etc.) specify the
36 response to an unplanned ignition. Based on fire weather, fuel conditions, fire
37 management objectives, and resource availability, initial response plans identify
38 the fire management response (e.g. number and type of suppression assets to
39 dispatch) to an unplanned ignition.

40

41 **Fire Danger Pocket Card for Firefighter Safety**

42

43 Fire Danger Pocket Cards provide, through a graphical interpretation of daily
44 fire danger, a means for firefighters to understand the fire potential for a given

1 local area during any day of the fire season. Interagency Pocket cards are
2 encouraged in areas where multiple agencies share fire suppression
3 responsibilities. Fire Danger Pocket Cards must adhere to the NWCG standard
4 located at:

5 <http://fam.nwcg.gov/fam-web/pocketcards/default.htm>

6

7 Compliance with the standard, including quality, currency, and application of
8 the Pocket Card, is the responsibility of the local fire management unit.

- 9 • **BLM-** *BLM units will maintain Fire Danger Pocket Cards and ensure they*
10 *are available to all personnel.*
- 11 • **FS-** *Obtain Regional certification for Fire Danger Pocket Cards.*
12 *Distribute Pocket Cards to each fireline supervisor on Type 3, 4, and 5*
13 *wildfires. Annually update and post the cards to the website referenced*
14 *above.*

15

16 **Seasonal Risk Analysis**

17

18 A Seasonal Risk Analysis (SRA) requires fire managers to review current and
19 predicted weather and fuels information, compare this information with historic
20 weather and fuels records, and predict the upcoming fire season's severity and
21 duration for any given area. It is important to incorporate drought indices into
22 this assessment.

23

24 Information from a SRA can be used to modify the Annual Operating Plan
25 (AOP), step-up and pre-attack plans. It provides the basis for actions such as
26 prepositioning critical resources, requesting additional funding, or modifying
27 Memoranda of Understanding (MOU) to meet anticipated needs.

28

29 Each unit selects, and compares to normal, the current value and seasonal trend
30 of one or more of the following indicators which are most useful in predicting
31 fire season severity and duration in its area:

- 32 • NFDRS (or CFFDRS) index values (ERC, BI)
- 33 • Temperature levels
- 34 • Precipitation levels
- 35 • Humidity levels
- 36 • Palmer Drought or Standardized Precipitation Index
- 37 • 1000-hour fuel moisture (timber fuels)
- 38 • Vegetation moisture levels
- 39 • Live fuel moisture (brush fuels)
- 40 • Curing rate (grass fuels)
- 41 • Episodic wind events (moisture drying days)
- 42 • Unusual weather events (early severe frost)
- 43 • Fires to date

44

1 The seasonal trend of each selected indicator is graphically compared to normal
2 and all-time worst. This comparison is updated regularly and posted in dispatch
3 and crew areas.

4
5 If the SRA suggests an abnormal fire season might be anticipated, a unit should
6 notify the state/regional office and request additional resources commensurate
7 with the escalated risk. SRA for each geographic area are prepared, issued, and
8 updated each year by GACC Predictive Service staffs. These analyses consider
9 detailed information for each of the Predictive Services Areas (PSA) within the
10 geographic area.

11
12 Seasonal Assessment Workshops are conducted to facilitate these seasonal
13 outlook reports. Local risk analyses should be compiled at the state/regional
14 office to determine the predicted fire season severity within the state/region, and
15 then forwarded to the respective national office for use in determining national
16 fire preparedness needs. Risk analysis is ongoing. It should be reviewed
17 periodically and revised when significant changes in key indicators occur. All
18 reviews of seasonal risk analysis, even if no changes are made, should be
19 documented.

20

21 **Fire Severity Funding**

22

23 Fire severity funding is the authorized use of suppression operations funds
24 (normally used exclusively for suppression operations and distinct from
25 preparedness funds) for extraordinary preparedness activities that are required
26 due to:

- 27 • Preparedness plans (fire management plan, fire danger operating plan,
28 annual operating plan, etc.) indicate the need for additional
29 preparedness/suppression resources. The plan(s) should identify thresholds
30 for severity needs.
- 31 • Anticipated fire activity will exceed the capabilities of local resources.
- 32 • Fire seasons that either start earlier or last longer than planned in the fire
33 management plan.
- 34 • An abnormal increase in fire potential or danger not planned for in existing
35 preparedness plans.

36

37 The objective of fire severity funding is to mitigate losses by improving
38 suppression response capability.

39

40 When suppression resources acquired through the approved fire planning
41 process (e.g. NFMAS, IIAA, FPA) are insufficient to meet the extraordinary
42 need, suppression resources may be requested through the severity funding
43 process. Fire severity funding is not intended to raise preparedness funding
44 levels to cover differences that may exist between funds actually appropriated
45 and those identified in the fire planning process.

Release Date: January 2012

10-7

1 Typical Uses

2 Severity funds are typically used to:

- 3 ● Increase prevention activities
- 4 ● Temporarily increase firefighting staffing
- 5 ● Pay for standby
- 6 ● Preposition initial attack suppression forces
- 7 ● Provide additional aerial reconnaissance
- 8 ● Provide for standby aircraft availability

9

10 Authorization

11 Authorization to use severity funding is provided in writing based on a written
12 request with supporting documentation. Authorization is on a line item basis
13 and comes with a severity cost code. Agencies will follow their administrative
14 procedures for issuing severity cost codes. Authorization is provided for a
15 maximum of 30 days per request; however, regardless of the length of the
16 authorization, use of severity funding must be terminated when abnormal
17 conditions no longer exist. If the fire severity situation extends beyond the 30
18 day authorization, the State/Region must prepare a new severity request.

19

20 State/Regional Level Severity Funding

21 Each fiscal year the national office will provide each state/region with funding
22 and a severity cost code for state/regional short-term severity needs (e.g. wind
23 events, cold dry front passage, lightning events, and unexpected events such as
24 off road rallies) that are expected to last less than one week. Expenditure of
25 these funds is authorized by the state/regional directors at the written request of
26 the agency administrator. State/regional directors are responsible and
27 accountable for ensuring that these funds are used only to meet severity funding
28 objectives and that amounts are not exceeded. The national office will notify the
29 state/regional director, state/regional budget officer, and the state/regional FMO
30 when the severity cost code is provided.

- 31 ● *FWS - Short-term severity or "step-up" cost codes are established yearly*
32 *(at the Regional level) as PER1, PER2, etc (numeric value indicates the*
33 *specific region utilizing short-term severity funding).*
- 34 ● *NPS - Parks have the authority to approve "Step-up" actions only, as*
35 *defined in their fire management plan. Regional offices approve severity*
36 *(long term - up to 30 days) for parks up to \$100,000 per severity event.*
- 37 ● *FS - Severity funding direction is found in FSM 5190.*

38

39 National Level Severity Funding

40 National Agency Fire Directors or their delegates are authorized to allocate fire
41 severity funding under specific conditions stated or referenced in this chapter.
42 Expenditure of these funds is authorized by the appropriate approving official at
43 the written request of the state/regional director. Approved severity funding will

1 be used only for the preparedness activities and timeframes specifically outlined
2 in the authorization, and only for the objectives stated above.

- 3 • *NPS- National office approves all requests over \$100,000.*
- 4 • *FWS- Additional information may be found on the FWS Sharepoint site.*

6 **Appropriate Severity Funding Charges**

8 **Labor**

9 Appropriate labor charges include:

- 10 • Regular pay for non-fire personnel
- 11 • Regular pay for seasonal/temporary fire personnel outside their normal fire
12 funded activation period
- 13 • Overtime pay for all fire and non-fire personnel
- 14 • Severity funded personnel and resources must be available for immediate
15 initial attack regardless of the daily task assignment
- 16 • Severity funded personnel and resources will not use a severity cost code
17 while assigned to wildfires. The wildfire firecode number will be used.

19 **Vehicles and Equipment**

- 20 • GSA lease rate and mileage
- 21 • Hourly rate or mileage for Agency owned vehicles
- 22 • Commercial rentals and contracts
 - 23 ○ *FWS – Severity-related repair and maintenance of Fish and Wildlife*
24 *vehicles and equipment may be funded by severity because FWS does*
25 *not have a use rate covering these charges. These charges must be*
26 *approved by the National Office.*

28 **Aviation**

29 This includes:

- 30 • Contract extensions
- 31 • The daily minimum for call when needed (CWN) aircraft
- 32 • Preposition flight time
- 33 • Support expenses necessary for severity funded aircraft (facility rentals,
34 utilities, telephones, etc.)

36 **Travel and Per Diem**

37 Severity funded personnel in travel status are fully subsisted by the government
38 in accordance with their agency regulations. Costs covered include:

- 39 • Lodging
- 40 • Government provided meals (in lieu of per diem)
- 41 • Airfare (including returning to their home base)
- 42 • Privately owned vehicle mileage (with prior approval)
- 43 • Other miscellaneous travel and per diem expenses associated with the
44 assignment

1 Prevention Activities

2 These include:

- 3 ● Funding Prevention Teams (Preventions teams will be mobilized as
4 referenced in the *National Mobilization Guide*, Chapter 20)
- 5 ● Implementing local prevention campaigns, to include community risk
6 assessment, mitigation planning, outreach, and education
- 7 ● Augmenting patrols
- 8 ● Note: Non-fire funded prevention team members should charge base 8 and
9 overtime to the severity cost code for the length of the prevention activities
10 assignment. Fire funded personnel should charge overtime only to the
11 severity cost code for the length of the prevention activities assignment.

13 Inappropriate Fire Severity Funding Charges

- 14 ● To cover differences that may exist between funds actually appropriated
15 (including rescissions) and those identified in the fire planning process
- 16 ● Administrative surcharges, indirect costs, fringe benefits
- 17 ● Equipment purchases
- 18 ● Purchase, maintenance, repair, or upgrade of vehicles
- 19 ● Purchase of radios
- 20 ● Purchase of telephones
- 21 ● Purchase of pumps, saws, and similar suppression equipment
- 22 ● Aircraft availability during contract period
- 23 ● Cache supplies which are normally available in fire caches
- 24 ● Fixed ownership rate vehicle costs
- 25 ● Equipment that has been solicited allows for use on nationwide fire
26 suppression, all-hazard incidents and severity. Pre-season EERAs / Incident
27 Only EERAs may not be used for severity use or hazardous fuels projects.
28 Long term rehabilitation projects require a separate solicitation for
29 equipment.

31 Interagency Requests

32 Agencies working cooperatively in the same geographic area must work
33 together to generate and submit joint requests, to minimize duplication of
34 required resources, reduce interagency costs and to utilize severity funded
35 resources in an interagency manner. However, each agency should request
36 funds only for its own agency specific needs. The joint request should be routed
37 simultaneously through each agency's approval system, and the respective
38 approving official will issue an authorization that specifies allocations by
39 agency.

41 Requesting Fire Severity Funding

42 Each agency has established severity funding request protocols. The completed
43 and signed request is submitted from the state/regional director to the

- 1 appropriate approving official as per the sequence of action outlined below.
- 2 Authorizations will be returned in writing.
- 3 Severity funding request information for all agencies can be found at
- 4 www.nifc.gov/policies/severity.htm

5
6 **Sequence of Action and Responsible Parties for Severity Funding Requests**

Action	Responsible Party
Identify and develop severity funding request.	Unit FMO
Review, modify, and approve (or reject) request. Forward to state/regional office.	Unit agency administrator
Review, modify, and approve (or reject) unit request. Add state/regional needs and consolidate. Forward to state/regional director for approval within 48 hours.	State/Regional FMO
Review, modify, and approve (or reject) request. Forward to the appropriate National Fire Director/approving official within 48 hours. Notify the fire budget staff.	State/Regional Director
Review, modify, and approve (or reject) the request within 48 hours. Issue written authorization with a severity cost code.	Appropriate National Fire Director/Approving Official
Establish severity cost code in the appropriate finance system within 24 hours.	Applicable National Finance System
Notify unit office(s) and state/regional budget lead upon receipt of authorization.	State/Regional FMO
Execute severity cost code. Ensure that project expenditures are only used for authorized purposes.	Unit Office
Maintain severity files, including requests, authorizations, and summary of expenditures and activities.	Unit/State/Regional/ National Offices

- 7
- 8 **Labor Cost Coding For Severity Funded Personnel**
- 9 Fire personnel outside their normal activation period, employees whose regular
 - 10 salary is not fire funded, and Administratively Determined (AD) employees
 - 11 hired under an approved severity request should charge regular time and
 - 12 approved non-fire overtime to the severity suppression operations subactivity
 - 13 and the requesting office’s severity cost code.
 - 14
 - 15 Fire funded personnel should charge their regular planned salary (base-eight) to
 - 16 their budgeted subactivity using their home unit’s location code. Overtime
 - 17 associated with the severity request should be charged to the severity
 - 18 suppression operations subactivity and the requesting office’s severity cost code.
 - 19

1 Regular hours worked in suppression operations will require the use of the
2 appropriate fire subactivity with the appropriate firecode number. Overtime in
3 fire suppression operations will be charged to the suppression operations
4 subactivity with the appropriate firecode number.

5

6 Employees from non-federal agencies should charge their time in accordance
7 with the approved severity request and the appropriate local and statewide
8 agreements. A task order for reimbursement will have to be established and is
9 authorized under the Interagency Agreement for Fire Management.

10

11 **Documentation**

12 The state/regional and national office will document and file accurate records of
13 severity funding activity. This will include complete severity funding requests,
14 written authorizations, and expenditure records.

15

16 **Severity Funding Reviews**

17 State/regional and national offices should ensure appropriate usage of severity
18 funding and expenditures. This may be done as part of their normal agency fire
19 program review cycle.

20

21 **Fire Prevention/Mitigation**

22

23 **Wildland Fire Cause Determination & Fire Trespass**

24 Agency policy requires any wildfire to be investigated to determine cause,
25 origin, and responsibility. For all human-caused fires where responsibility and
26 negligence can be determined, actions must be taken to recover the cost of
27 suppression activities, land rehabilitation, and damages to the resources and
28 improvements. Refer to Chapter 18 for additional guidance.

29

30 **Wildland Fire Mitigation and Prevention**

31 Fire programs are required to fund and implement unit level Fire Prevention
32 Plans by completing a wildland mitigation/prevention assessment. The purpose
33 of this is to reduce undesirable human caused ignitions, to reduce damages and
34 losses caused by unwanted wildland fires, and to reduce the suppression costs of
35 wildland fires. As weather and fuel conditions move from average to above
36 average or severe, and/or human activity increases, mitigation and prevention
37 activities must be strengthened to maintain effectiveness.

38

39 Prevention includes education (sign posting plans, school programs, radio and
40 news releases, recreation contacts, local business contacts, exhibits), industrial
41 program monitoring (timber, mining, power line maintenance operations),
42 reconnaissance patrols, and other activities to prevent and mitigate wildfire
43 damage and loss.

- 44 • *NPS- Only units that experience more than an average of 26 human caused*
45 *fires per ten-year period are required to develop a fire prevention plan.*

- 1 • *FS* –Refer to *FSM 5110 and 5300*.

2

3 **Professional Liability Insurance**

4

5 Public Law 110-161 provides for reimbursement for up to one half of the cost
6 incurred for professional liability insurance (including any administrative
7 processing cost charged by the insurance company) for temporary fire line
8 managers, management officials, and law enforcement officers.

9

10 To qualify for reimbursement, “temporary fire line managers” must meet one of
11 the following three criteria:

- 12 • Provide temporary supervision or management of personnel engaged in
13 wildland fire activities;
- 14 • Provide analysis or information that affects a supervisor’s or manager’s
15 decision about a wildland fire;
- 16 • Direct the deployment of equipment for a wildland fire, such as a base camp
17 manager, an equipment manager, a helicopter coordinator, or an initial
18 attack dispatcher.
- 19 ○ *DOI* – see *Personnel Bulletin No. 08-07, March 20, 2008*
- 20 ○ *FS* – refer to <http://fsweb.asc.fs.fed.us/HRM/benefits/PLI.php>

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Chapter 11 Incident Management & Response

National Response Framework

The National Response Framework presents the guiding principles that enable all response partners to prepare for and provide a unified national response to disasters and emergencies - from the smallest incident to the largest catastrophe. The Framework establishes a comprehensive, national, all-hazards approach to domestic incident response. Information about the National Response Framework can be found at: <http://www.fema.gov/emergency/nrf/index.htm>

National Interagency Incident Management System

The National Interagency Incident Management System (NIIMS) is sponsored by the National Wildfire Coordinating Group (NWCG). NIIMS is compliant with the National Incident Management System (NIMS), which is a component of the National Response Framework. NIIMS provides a universal set of structures, procedures, and standards for agencies to respond to all types of emergencies. NIIMS will be used to complete tasks assigned to the interagency wildland fire community under the National Response Framework.

Incident Management and Coordination Components of NIIMS

Effective incident management requires:

- Command organizations to manage on-site incident operations.
- Coordination and support organizations to provide direction and supply resources to the on-site organization.

Incident Command System (ICS)

The ICS is the on-site management system used in NIIMS/NIMS. The ICS is a standardized emergency management system specifically designed to provide for an integrated organizational structure that reflects the complexity and demands of single or multiple incidents, without being hindered by jurisdictional boundaries. ICS is the combination of facilities, equipment, personnel, communications, and procedures operating within a common organizational structure to manage incidents. ICS will be used by the agencies to manage wildland fire operations and all-hazard incidents.

Wildland Fire Complexity

Wildland fires are typed by complexity, from Type 5 (least complex) to Type 1 (most complex). The ICS organizational structure develops in a modular fashion based on the complexity of the incident. Complexity is determined by completing an Incident Complexity Analysis - (Refer to samples in appendix E

1 & F). Units may develop their own Incident Complexity Analysis format to
2 replace appendix F.

3

4 **Organizational Needs Assessment**

5 The National Wildfire Coordinating Group has adopted the Organizational
6 Needs Assessment (ONA) as a replacement for the Type 3, Type 2, and Type 1
7 Incident Complexity Analysis. The Organizational Needs Assessment assists
8 personnel with evaluating the situation, objectives, risks, and management
9 considerations of a complex incident and determining the appropriate
10 organization necessary to manage the incident. The Organizational Needs
11 Assessment is incorporated into the Wildland Fire Decision Support System
12 (WFDSS), and is available at: <http://www.wfmrda.nwcg.gov/policy.php>

- 13 • **BLM/NPS-** *For all incidents, managers will determine incident complexity*
14 *to establish the appropriate Incident Command System (ICS) management*
15 *structure. Complexity Analysis direction is provided in the Interagency*
16 *Standards for Fire and Fire Aviation Operations (NFES 2724), the Incident*
17 *Response Pocket Guide (PMS 461), and the Fireline Handbook (PMS 410-*
18 *1). For Type 1 and Type 2 incidents, and for incidents managed for*
19 *resource benefit, managers may use the ONA to supplement the complexity*
20 *analysis. The ONA provides a more selective assessment of implementation*
21 *difficulty, decision concerns, and overall risk. As with the Complexity*
22 *Analysis, this assessment can be used to assist in the selection of the*
23 *appropriate management organization for a complex incident.*

24

25 **Command Organizations**

26

27 **Incident Command**

28 All fires, regardless of complexity, will have an incident commander (IC). The
29 IC is a single individual responsible to the agency administrator(s) for all
30 incident activities. Incident Commanders are responsible for:

- 31 • Obtaining a Delegation of Authority and/or expectations to manage the
32 incident from the agency administrator. For Type 3, 4, or 5 incidents,
33 delegations/expectations may be written or oral.
- 34 • Ensuring that safety receives priority consideration in all incident activities,
35 and that the safety and welfare of all incident personnel and the public is
36 maintained.
- 37 • Assessing the incident situation, both immediate and potential.
- 38 • Maintaining command and control of the incident management
39 organization.
- 40 • Ensuring transfer of command is communicated to host unit dispatch and to
41 all incident personnel.
- 42 • Developing incident objectives, strategies, and tactics.
- 43 • Developing the organizational structure necessary to manage the incident.
- 44 • Approving and implementing the Incident Action Plan, as needed.
- 45 • Ordering, deploying, and releasing resources.

- 1 • Ensuring incident financial accountability and expenditures meet agency
2 policy and standards.
3 • Ensuring incident documentation is complete.
4
5 For purposes of initial attack, the first IC on scene qualified at any level will
6 assume the duties of initial attack IC. The initial attack IC will assume the
7 duties and have responsibility for all suppression efforts on the incident up to
8 his/her level of qualification until relieved by an IC qualified at a level
9 commensurate with incident complexity.

10
11 As an incident escalates, a continuing reassessment of the complexity level
12 should be completed to validate the current command organization or identify
13 the need for a higher level of incident management.

14
15 An IC is expected to establish the appropriate organizational structure for each
16 incident and manage the incident based on his/her qualifications, incident
17 complexity, and span of control. If the incident complexity exceeds the
18 qualifications of the current IC, the IC must continue to manage the incident
19 within his/her capability and span of control until replaced.

20

21 **On-site Command Organizations**

22 Command organizations responsible for incident management include:

- 23 • Type 5 Incident Command
24 • Type 4 Incident Command
25 • Type 3 Incident Command
26 • Type 2 Incident Command
27 • Type 1 Incident Command
28 • Wildland Fire Management Teams
29 • National Incident Management Organizations (NIMO)
30 • Area Command
31 • Unified Command

32

33 **Type 5 Incidents**

34

35 **Type 5 Incident Characteristics**

- 36 • Ad hoc organization managed by a Type 5 Incident Commander.
37 • Primarily local resources used.
38 • ICS command and general staff positions are not activated.
39 • Resources vary from two to six firefighters.
40 • Incident is generally contained within the first burning period and often
41 within a few hours after resources arrive on scene.
42 • Additional firefighting resources or logistical support are not usually
43 required.
44 • May require a Published Decision in WFDSS.

45

1 Type 5 Incident Command

2 Type 5 Incident Commanders (ICs) are qualified according to the *NWCG*
3 *Wildland Fire Qualifications Systems Guide PMS 310-1 (NFES # 310-1)*. The
4 type 5 IC may assign personnel to any combination of ICS functional area duties
5 in order to operate safely and effectively. ICS functional area duties should be
6 assigned to the most qualified or competent individuals available.

- 7 • *FS - See FSH 5109.17 for additional standards.*

9 Type 4 Incidents**11 Type 4 Incident Characteristics**

- 12 • Ad hoc organization managed by a Type 4 Incident Commander.
- 13 • Primarily local resources used.
- 14 • ICS command and general staff positions are not activated.
- 15 • Resources vary from a single resource to multiple resource task forces or
16 strike teams.
- 17 • Incident is usually limited to one operational period in the control phase.
18 Mop-up may extend into multiple operational periods.
- 19 • Written incident action plan (IAP) is not required. A documented
20 operational briefing will be completed for all incoming resources. Refer to
21 the *Incident Response Pocket Guide* for a briefing checklist.
- 22 • May require a Published Decision in WFDSS or other decision support
23 document.

24
25 Incidents not meeting these characteristics should have a documented
26 Complexity Analysis (Appendix F) verifying the Type 4 command organization
27 is appropriate.

29 Type 4 Incident Command

30 Type 4 Incident Commanders (ICs) are qualified according to the *NWCG*
31 *Wildland Fire Qualifications Systems Guide PMS 310-1*. The Type 4 IC may
32 assign personnel to any combination of ICS functional area duties in order to
33 operate safely and effectively. ICS functional area duties should be assigned to
34 the most qualified or competent individuals available.

- 35 • *FS - See FSH 5109.17 for additional standards.*

37 Type 3 Incidents**39 Type 3 Incident Characteristics**

- 40 • Ad hoc or pre-established Type 3 organization managed by a Type 3
41 Incident Commander.
- 42 • The IC develops the organizational structure necessary to manage the
43 incident. Some or all of ICS functional areas are activated, usually at the
44 Division/Group Supervisor and/or unit leader level.

- 1 • The Incident Complexity Analysis process is formalized and certified daily
- 2 with the jurisdictional agency. It is the IC's responsibility to continually
- 3 reassess the complexity level of the incident. When the complexity analysis
- 4 indicates a higher complexity level the IC must ensure that suppression
- 5 operations remain within the scope and capability of the existing
- 6 organization and that span of control is consistent with established ICS
- 7 standards.
- 8 • Local and non-local resources used.
- 9 • Resources vary from several resources to several task forces/strike teams.
- 10 • May be divided into divisions.
- 11 • May require staging areas and incident base.
- 12 • May involve low complexity aviation operations.
- 13 • May involve multiple operational periods prior to control, which may
- 14 require a written Incident Action Plan (IAP).
- 15 • Documented operational briefings will occur for all incoming resources and
- 16 before each operational period. Refer to the *Incident Response Pocket*
- 17 *Guide* for a briefing checklist.
- 18 • ICT3's will not serve concurrently as a single resource boss or have any
- 19 non-incident related responsibilities.
- 20 • May require a Published Decision in WFDSS.
- 21 • May require a written Delegation of Authority.

23 **Type 3 Incident Command**

24 Type 3 Incident Commanders (ICT3s) are qualified according to the *310-1*.
 25 When ICT3s are required to manage an incident, they must not have concurrent
 26 responsibilities that are not associated with the incident and they must not
 27 concurrently perform single resource boss duties.

28
 29 Other than the Incident Commander, command and general staff positions have
 30 not been established at the Type 3 complexity level. However, a Type 3
 31 incident may require additional functional positions to assist the Incident
 32 Commander. The following table lists minimum qualification requirements for
 33 these functional responsibilities.

34

Type 3 Functional Responsibility	Specific 310-1 or Equivalent Qualification Standards Required to Perform ICS Functions at Type 3 Level
Incident Command	Incident Commander Type 3 (ICT3)
Safety	Line Safety Officer
Operations	Task Force Leader
Division	Single Resource Boss- Operational qualification must be commensurate with resources assigned (i.e. more than one resource assigned requires a higher level of qualification).

Plans	Local entities can establish level of skill to perform function.
Logistics	Local entities can establish level of skill to perform function.
Information	Local entities can establish level of skill to perform function.
Finance	Local entities can establish level of skill to perform function.

- 1 • **FS** - Refer to FSH 5109.17 for additional standards.

2

3 Type 3 experience that is input into the Incident Qualification and Certification
4 System (IQCS) will not exceed an individual's current Incident Qualification
5 Card.

6

7 **Type 2 Incidents**

8

9 **Type 2 Incident Characteristics**

- 10 • Pre-established incident management team managed by Type 2 Incident
11 Commander.
- 12 • ICS command and general staff positions activated.
- 13 • Many ICS functional units required and staffed.
- 14 • Geographic and/or functional area divisions established.
- 15 • Complex aviation operations.
- 16 • Incident command post, base camps, staging areas established.
- 17 • Incident extends into multiple operational periods.
- 18 • Written Incident Action Plan required for each operational period.
- 19 • Operations personnel often exceed 200 per operational period and total
20 personnel may exceed 500.
- 21 • Requires a Published Decision in WFDSS or other decision support
22 document.
- 23 • Requires a written Delegation of Authority to the Incident Commander.

24

25 **Type 2 Incident Command**

26 Type 2 Incident Commanders are qualified according to the 310-1. These ICs
27 command pre-established Incident Management Teams that are configured with
28 ICS Command Staff, General Staff and other leadership and support positions.
29 Personnel performing specific Type 2 command and general staff duties must be
30 qualified at the Type 1 or Type 2 level according to the 310-1 standards.

- 31 • **FS** - Refer to FSH 5109.17 for additional standards.

32

33

34

35

36

Type 1 Incidents**Type 1 Incident Characteristics**

- Pre-established incident management team managed by Type 1 Incident Commander.
- ICS command and general staff positions activated.
- Most ICS functional units required and staffed.
- Geographic and functional area divisions established.
- May require branching to maintain adequate span of control.
- Complex aviation operations.
- Incident command post, incident camps, staging areas established.
- Incident extends into multiple operational periods.
- Written Incident Action Plan required for each operational period.
- Operations personnel often exceed 500 per operational period and total personnel may exceed 1000.
- Requires a Published Decision in WFDSS or other decision support document.
- Requires a written Delegation of Authority to the incident commander.

Type 1 Incident Command

Type 1 Incident Commanders are qualified according to the *310-1*. These ICs command pre-established Incident Management Teams that are configured with ICS Command Staff, General Staff and other leadership and support positions. Personnel performing specific Type 1 command and general staff duties must be qualified at the Type 1 level according to the *310-1* standards.

- *FS - Refer to FSH 5109.17 for additional standards.*

Incident Management Teams**Wildland Fire Management Teams (WFMT)**

Wildland Fire Management Teams provide land managers with skilled and mobile personnel to assist with the management of wildfires and prescribed fires. WFMT are available as an interagency resource for assignment to all agencies and units.

Type 2 Incident Management Teams

Most Type 2 teams are managed by Geographic Area Multi-Agency Coordinating Groups and are coordinated by the Geographic Area Coordination Centers. Some Type 2 teams are managed by non-federal agencies (e.g. state or local governments) and availability of these teams is determined on a case by case basis.

Type 1 Incident Management Teams

Type 1 teams are managed by Geographic Area Multi-Agency Coordinating Groups and are mobilized by the Geographic Area Coordination Centers. At

1 national preparedness levels 4 and 5, these teams are managed by the National
2 Multi-Agency Coordinating Group (NMAC).

3

4 **National Incident Management Organization Teams**

5 Four National Incident Management Organization (NIMO) teams are configured
6 as short Type I Incident Management Teams. Each team has a full-time Type 1
7 Incident Commander and six full-time Type 1 Command & General Staff.

8 NIMO teams are mobilized from Boise, Atlanta, Portland, and Phoenix. The
9 primary focus of the National Incident Management Organization is
10 management of complex incidents.

11

12 In addition to complex incident management, these teams have year-round "non-
13 incident" duties in support of fire and aviation management, including training,
14 quality assurance activities, fuels management, fuels implementation, fire and
15 resource management support, NWCG projects, cost containment, and
16 leadership development.

17

18 **Area Command**

19 Area Command is an Incident Command System organization established to
20 oversee the management of large or multiple incidents to which several Incident
21 Management Teams have been assigned. Area Command may become Unified
22 Area Command when incidents are multi-jurisdictional. The determining factor
23 for establishing area command is the span of control of the agency
24 administrator.

25

26 National Area Command teams are managed by the National Multi-Agency
27 Coordinating Group (NMAC) and are comprised of the following:

- 28 • Area Commander (ACDR).
- 29 • Assistant Area Commander, Planning (AAPC).
- 30 • Assistant Area Commander, Logistics (AALC).
- 31 • Area Command Aviation Coordinator (ACAC).

32

33 Depending on the complexity of the interface between the incidents, specialists
34 in other areas such as aviation safety or information may also be assigned.

35

36 Area Command Functions include:

- 37 • Establish overall strategy, objectives, and priorities for the incident(s) under
38 its command.
- 39 • Allocate critical resources according to priorities.
- 40 • Ensure that incidents are properly managed.
- 41 • Coordinate demobilization.
- 42 • Supervise, manage, and evaluate Incident Management Teams under its
43 command.
- 44 • Minimize duplication of effort and optimize effectiveness by combining
45 multiple agency efforts under a single Area Action Plan.

1 **Unified Command**

2 Unified Command is an application of the Incident Command System used
3 when there is more than one agency with incident jurisdiction or when incidents
4 cross political jurisdictions. Under Unified Command, agencies work together
5 through their designated incident commanders at a single incident command
6 post to establish common objectives and issue a single Incident Action Plan.
7 Unified Command may be established at any level of incident management or
8 area command. Under Unified Command, all agencies with jurisdictional
9 responsibility at the incident contribute to the process of:

- 10 • Determining overall strategies.
- 11 • Selecting alternatives.
- 12 • Ensuring that joint planning for tactical activities is accomplished.
- 13 • Maximizing use of all assigned resources.

14

15 Advantages of Unified Command are:

- 16 • A single set of objectives is developed for the entire incident.
- 17 • A collective approach is used to develop strategies to achieve incident
18 objectives.
- 19 • Information flow and coordination is improved between all jurisdictions and
20 agencies involved in the incident.
- 21 • All involved agencies have an understanding of joint priorities and
22 restrictions.
- 23 • No agency's legal authorities will be compromised or neglected.

24

25 **Coordination and Support Organizations**

26

27 Organizations that provide coordination and support to on-site command
28 organizations include:

- 29 • Initial Attack Dispatch
- 30 • Expanded Dispatch
- 31 • Buying/Payment Teams
- 32 • National and Geographic Area Coordination Centers (refer to Chapter 8)
- 33 • Local, Geographic Area, and National Multi-Agency Coordinating (MAC)
34 Groups

35

36 **Initial Attack Dispatch**

37 An initial attack dispatch organization is the primary unit responsible for
38 implementing the initial response to incidents upon report. It is integrated
39 within the fire organization and the decision for deployment of response
40 resources is made by an authorized individual.

41

42 Initial attack dispatch is also responsible for coordination of communications
43 and logistical support for incidents and field operations.

44

45

1 Expanded Dispatch

2 Expanded dispatch is the organization needed to support an incident which
3 expands along with the Incident Command System. Expanded dispatch is
4 established when a high volume of activity indicates that increased dispatch and
5 coordination capability is required.

6
7 The Expanded Dispatch Coordinator facilitates accomplishment of goals and
8 direction of the agency administrator and, when activated, the Multi Agency
9 Coordinating Group. The position may be filled by the person normally
10 managing the day-to-day operations of the center or an individual from a higher
11 level of management. The Expanded Dispatch Coordinator is responsible for:

- 12 • Filling and supervising necessary positions in accordance with coordination
13 complexity.
- 14 • Implementing decisions made by the Multi-Agency Coordination (MAC)
15 group.

16
17 Expanded dispatch facilities and equipment should be pre-identified, procured,
18 and available for immediate setup. The following key items should be provided:

- 19 • Work space separate from, but accessible to, the initial attack organization.
- 20 • Adequate office space (lighting, heating, cooling, security).
- 21 • Communications equipment (telephone, fax, computer hardware with
22 adequate data storage space, priority use and support personnel).
- 23 • Area suitable for briefings (agency administrators, media).
- 24 • Timetable/schedule should be implemented and adhered to (operational
25 period changes, briefings, strategy meetings).
- 26 • A completed and authorized Continuation of Operations Plan (COOP).
- 27 • Qualified personnel on site to staff required operations.

28 Buying/Payment Teams

29 Buying/Payment Teams support incidents by procuring services, supplies, and
30 renting land, facilities, and equipment. These teams may be ordered when
31 incident support requirements exceed local unit capacity. These teams report to
32 the agency administrator or the local unit administrative officer. See the
33 *Interagency Incident Business Management Handbook* for more information.

34 Multi-Agency Coordination (MAC)

35
36 Multi-Agency Coordination Groups are part of the National Interagency
37 Incident Management System (NIIMS) and are an expansion of the off-site
38 coordination and support system. MAC groups are activated by the Agency
39 administrator(s) when the character and intensity of the emergency situation
40 significantly impacts or involves other agencies. A MAC group may be
41 activated to provide support when only one agency has incident(s). The MAC
42 group is made up of agency representatives who are delegated authority by their
43 respective agency administrators to make agency decisions and to commit
44 agency resources and funds. The MAC group relieves the incident support
45

1 organization (dispatch, expanded dispatch) of the responsibility for making key
2 decisions regarding prioritization of objectives and allocation of critical
3 resources. The MAC group makes coordinated agency administrator level
4 decisions on issues that affect multiple agencies. The MAC group is supported
5 by situation, resource status and intelligence units who collect and assemble data
6 through normal coordination channels.

7

8 MAC group direction is carried out through dispatch and coordination center
9 organizations. When expanded dispatch is activated, the MAC group direction
10 is carried out through the expanded dispatch organization. The MAC group
11 organization does not operate directly with Incident Management Teams or with
12 Area Command teams, which are responsible for on-site management of the
13 incident.

14

15 MAC groups may be activated at the local, geographic, or national level.
16 National level and Geographic Area level MAC groups should be activated in
17 accordance with the preparedness levels criteria established in the National and
18 Geographic Area Mobilization Guides.

19

20 The MAC Group Coordinator facilitates organizing and accomplishing the
21 mission, goals and direction of the MAC group. The MAC group coordinator:

- 22 ● Provides expertise on the functions of the MAC group and on the proper
23 relationships with dispatch centers and incident managers.
- 24 ● Fills and supervises necessary unit and support positions as needed, in
25 accordance with coordination complexity.
- 26 ● Arranges for and manages facilities and equipment necessary to carry out
27 the MAC group functions.
- 28 ● Facilitates the MAC group decision process. Implements decisions made
29 by the MAC group.

30

31 Activation of a MAC group improves interagency coordination and provides for
32 allocation and timely commitment of multi-agency emergency resources.

33 Participation by multiple agencies in the MAC effort will improve:

- 34 ● Overall situation status information.
- 35 ● Incident priority determination.
- 36 ● Resource acquisition and allocation.
- 37 ● State and Federal disaster coordination.
- 38 ● Political interfaces.
- 39 ● Consistency and quality of information provided to the media and involved
40 agencies.
- 41 ● Anticipation of future conditions and resource needs.

42

43

44

45

1 **Wildland Fire Decision Support System (WFDSS)**

2

3 The Wildland Fire Decision Support System (WFDSS) is a web-based decision
4 support system that provides a single dynamic documentation system for use
5 beginning at the time of discovery and concluding when the fire is declared out.
6 It can be scaled and modified as the incident duration and complexity changes.
7 WFDSS is a linear process of fire documentation and analysis for the agency
8 administrator to describe the basic fire situation, create incident objectives and
9 requirements, develop a course of action, validate key dependencies, and
10 evaluate risks. To support the decision process, spatial data within WFDSS
11 allows users to display the fire situation, quantify values at risk, perform fire
12 behavior analysis and predictions, and develop management strategies. These
13 combined features allow the Agency Administrator to make an informed
14 decision for management of the incident considering safety, complexity, risk,
15 and economics.

16

17 The utility of WFDSS assists Line Officers by providing a system with a host of
18 tools to aid decision making. WFDSS provides situational assessment, unit
19 level strategic objectives and management requirements, fire behavior and
20 growth analysis, and economic assessment. The framework within the system
21 provides space to document risk, organizational need, incident objectives and
22 requirements, courses of action, and decision rationale. WFDSS provides a
23 system for periodic review of decisions and allows creation of new decisions as
24 needed. For detailed information on the tools and capabilities in WFDSS, and
25 how managers may use the tools, refer to Appendix N.

26

27 WFDSS will be used for decision support documentation for all fires that escape
28 initial attack or exceed initial response. These incidents will have a Published
29 Decision within WFDSS. A Published WFDSS Decision establishes objectives,
30 a course of action and rationale for incidents with varying duration, spread
31 potential, costs, or other considerations. The level of documentation to publish a
32 decision should be commensurate to the incident duration, spread potential, cost,
33 or relative risk. Agency-specific direction established in memos or other policy
34 documents may further define WFDSS documentation requirements. Reference
35 the NWCG memorandum # 012-2011, "Wildland Fire Decision Support System
36 (WFDSS) Decision Documentation and GACG Responsibilities" for NWCG
37 guidance on decision publication.

- 38 • *BLM-Refer to Chapter 2 for additional requirements for WFDSS*
39 *implementation.*

40

41 **Initial Decision**

42 An initial decision should be published within 24 hours after the determination
43 that a published decision is needed, or within 24 hours of requesting an incident
44 management team.

45

46

1 Considerations for determining that a decision is needed include:

- 2 ● The fire has not been contained by initial attack resources dispatched to the
3 fire.
- 4 ● The fire will not have been contained within the initial attack management
5 objectives established for that zone or area according to the unit's planning
6 documents.
- 7 ● The incident objectives include both protection and resource benefit
8 elements consistent with land management planning documents.
- 9 ● The fire affects or is likely to affect more than one agency or more than one
10 administrative unit within a single agency (for example more than one
11 National Forest).
- 12 ● The fire is burning into or expected to burn into wildland-urban interface.
- 13 ● Significant safety or other concerns such as air quality are present or
14 anticipated.
- 15 ● The relative risk assessment indicates the need for additional evaluation and
16 development of best management practices for achieving land and resource
17 objectives.
- 18 ● The criteria for Flame Act funding are anticipated to be met and
19 documentation will be needed.

20

21 Initial published decisions may not need a great deal of detail or supporting
22 analyses, assuming that the fire has not exhibited extraordinary burning
23 conditions or emerged quickly as a high complexity incident. Even in those rare
24 cases where a fire almost immediately becomes high complexity, providing
25 clear initial direction quickly to those responsible for managing the fire while
26 more detailed analyses are prepared can be critical.

27

28 **New Decision**

29 Specific variables influence incident complexity and the social and political
30 considerations that come into play, especially on multijurisdictional fires with
31 multiple decision-makers. As incident complexity rises it may become
32 necessary for additional supporting analyses to inform decision making. The
33 more supporting analyses needed, the more time required to complete those
34 analyses. Depending on the complexity of the incident, a new decision should
35 be published within 2-3 days for less complex incidents and within 4-7 days for
36 more complex incidents. The same criteria above plus the following
37 considerations can guide determinations about publishing a new decision:

- 38 ● The periodic assessment indicates the course of action (decision) is no
39 longer valid.
- 40 ● The management needs of the incident exceed existing capability.
- 41 ● The expected costs of incident management exceed agency-established
42 thresholds.
- 43 ● The fire moves or is expected to move beyond the planning area analyzed.

- 1 • Management Action Points have been established since the initial decision
2 was published and additional information is needed to further manage the
3 incident over time.
- 4 • The line officer is considering ordering an IMT.
5
- 6 Additional information about WFDSS can be found in Appendix N. User
7 support information, training materials, and other resources can be found at the
8 WFDSS homepage. <http://wfdss.usgs.gov/>
9

10 **WFDSS Support**

11 A National Fire Decision Support Center (NFDSC) has been established to
12 support analysis used in wildland fire decision making and WFDSS. The
13 NFDSC seeks to develop, improve, and increase production and operation use of
14 decision support products. The NFDSC provides direct decision support,
15 mentoring, and training to develop and strengthen regional/state and unit level
16 decision support capacity. Information for requesting assistance from the
17 NFDSC can be found at <http://www.wfmrda.nwcg.gov/nfdsc.php> or from the
18 WFDSS homepage. <http://wfdss.usgs.gov/>
19

20 **WFDSS Decision Approval and Publication**

21 Decisions in WFDSS are approved and published by the appropriate Line
22 Officer as defined in the tables below. Incident privileges must be assigned
23 within WFDSS to designate the approver. During the approval process, prior to
24 publishing a decision, the periodic assessment timeframe can be set.
25

26 It is imperative that a decision be reviewed carefully as once approved and
27 published, a decision becomes a system of record and all WFDSS users can
28 view the information. Additionally, the action CANNOT be undone. If there is
29 an error in the information, or new information is added for documentation or
30 update (i.e. fire behavior, Management Action Points) a new decision must be
31 made to officially update the record.
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1 **WFDSS Approval Requirements by Agency**

2

3

DOI WFDSS Approval Requirements

Cost Estimate ¹	WFDSS Approval
Less Than \$5 Million	Agency Superintendent, Park Superintendent, Field/District/Refuge Manager
\$5 Million - \$10 Million	State/Regional Director ²
Greater Than \$10 Million	National Director ²

4

5

USFS WFDSS Approval Requirements

Incident Type	USFS Approval
Type III, IV, V	District Ranger level with oversight by the Forest Supervisor
Type II	Forest Supervisor level with oversight by the Regional Forester
Type I	Regional Forester level with National oversight ³

6 ¹**DOI-** Cost estimate should be based on proportionate agency share of the total
 7 estimated cost of the incident. For example, on a \$20 million fire managed by a
 8 Type 1 IMT that is 98% FS, 1% BLM, and 1% NPS, the USFS National
 9 Director and the BLM and NPS local agency administrators would be the
 10 certifying officials in a jointly published WFDSS decision.

11 ²**DOI-** State/Regional Directors and National Director may delegate WFDSS
 12 approval authority as per agency policy.

13 ³**FS-** This authority may be delegated to the next level provided that the line
 14 officer at the next level meets Line Officer wildfire response certification
 15 requirements.

16

17 **Managing the Incident**

18

19 **Agency Administrator Responsibilities**

20 The Agency Administrator (AA) manages the land and resources on their
 21 organizational unit according to the established land management plan. Fire
 22 management is part of that responsibility. The AA establishes specific
 23 performance objectives for the incident commander (IC) and delegates the
 24 authority to the IC to take specific actions to meet those objectives.

25

26 AA responsibilities to a Type 1 or 2 Incident Management Team (IMT) or
 27 Wildland Fire Management Team (WFMT) include:

- 28 ● Conduct an initial briefing to the Incident Management Team (appendix D).
- 29 ● Provide an approved and certified WFDSS.

- 1 ○ *FS* - Ensure that significant decisions related to strategy and costs are
- 2 included in WFDSS.
- 3 ● Complete an Incident Complexity Analysis (Appendix E & F) to
- 4 accompany the WFDSS Published Decision.
- 5 ○ *FS*- Complete an Organizational Needs Assessment (ONA) for Type I,
- 6 II, and III incidents within WFDSS.
- 7 ● Coordinate with neighboring agencies on multi-jurisdiction fires to issue a
- 8 joint delegation of authority and develop a single Published Decision in
- 9 WFDSS for the management of unplanned ignitions.
- 10 ● Issue a written Delegation of Authority (appendix G) to the Type 1 or 2
- 11 Incident Commander and to other appropriate officials, Agency
- 12 Administrator Representative, Resource Advisor, and Incident Business
- 13 Advisor. The delegation should:
 - 14 ○ State specific and measurable objectives, priorities, expectations,
 - 15 Agency Administrator's intent, constraints, and other required
 - 16 direction.
 - 17 ○ Establish the specific time for transfer of command.
 - 18 ○ Assign clear responsibilities for initial attack.
 - 19 ○ Define your role in the management of the incident.
 - 20 ○ Conduct during action reviews with the IC.
 - 21 ○ Assign a resource advisor(s) to the IMT.
 - 22 ○ Define public information responsibilities.
 - 23 ○ If necessary, assign a local government liaison to the IMT.
 - 24 ○ Assign an Incident Business Advisor (IBA) to provide incident
 - 25 business management oversight commensurate with complexity.
 - 26 ○ Direct IMT to address rehabilitation of areas affected by suppression
 - 27 activities.
- 28 ● Coordinate mobilization with the Incident Commander:
 - 29 ○ Negotiate filling of mobilization order with the IC.
 - 30 ○ Establish time and location of agency administrator briefing.
 - 31 ○ Consider approving support staff additional to the IMT as requested by
 - 32 the IC.
 - 33 ○ Consider authorizing transportation needs as requested by the IC.

34
35 In situations where one agency provides fire suppression service under
36 agreement to the jurisdictional agency, both jurisdictional and protecting
37 agencies will be involved in the development of and signatories to the
38 Delegation of Authorities and the Published Decision in WFDSS to the incident
39 management teams.

40 **Agency Administrator Representative Responsibilities**

42 The Agency Administrator Representative (the on-scene agency administrator)
43 is responsible for representing the political, social, and economic issues of the
44 agency administrator to the Incident Commander. This is accomplished by
45 participating in the agency administrator briefing, in the IMT planning and
46 strategy meetings and in the operational briefings.

- 1 Responsibilities include representing the Agency Administrator to the IMT
2 regarding:
- 3 ● Compliance with the Delegation of Authority and the Published Decision in
4 WFDSS.
 - 5 ● Public Concerns (air quality, road or trail closures, smoke management,
6 threats)
 - 7 ● Public safety (evacuations, access/use restrictions, temporary closures)
 - 8 ● Public information (fire size, resources assigned, threats, concerns, appeals
9 for assistance)
 - 10 ● Socioeconomic, political, or tribal concerns
 - 11 ● Land and property ownership concerns
 - 12 ● Interagency and inter-governmental issues
 - 13 ● Wildland urban interface impacts
 - 14 ● Media contacts

15

16 Resource Advisor Responsibilities

17 The Resource Advisor is responsible for anticipating the impacts of fire
18 operations on natural and cultural resources and for communicating protection
19 requirements for those resources to the Incident Commander. The Resource
20 Advisor should ensure IMT compliance with the Land/Resource Management
21 Plan and Fire Management Plan. The Resource Advisor should provide the
22 Incident Commander with information, analysis, and advice on these areas:

- 23 ● Rehabilitation requirements and standards
- 24 ● Land ownership
- 25 ● Hazardous materials
- 26 ● Fuel breaks (locations and specifications)
- 27 ● Water sources and ownership
- 28 ● Critical watersheds
- 29 ● Critical wildlife habitat
- 30 ● Noxious weeds/aquatic invasive species
- 31 ● Special status species (threatened, endangered, proposed, sensitive)
- 32 ● Fisheries
- 33 ● Poisonous plants, insects and snakes
- 34 ● Mineral resources (oil, gas, mining activities)
- 35 ● Archeological site, historic trails, paleontological sites
- 36 ● Riparian areas
- 37 ● Military issues
- 38 ● Utility rights-of-way (power, communication sites)
- 39 ● Native allotments
- 40 ● Grazing allotments
- 41 ● Recreational areas
- 42 ● Special management areas (wilderness areas, wilderness study areas,
43 recommended wilderness, national monuments, national conservation areas,

1 national historic landmarks, areas of critical environmental concern,
2 research natural areas, wild and scenic rivers)

3
4 The Resource Advisor and Agency Administrator Representative positions are
5 generally filled by local unit personnel. These positions may be combined and
6 performed by one individual. Duties are stated in the *Resource Advisor's Guide*
7 *for Wildland Fire (NWCG PMS 313, NFES 1831, Jan 2004)*.

9 **Use of Trainees**

10 Use of trainees is encouraged. On wildland fire incidents, trainees may
11 supervise trainees. However, when assigning trainees to positions where critical
12 life-safety decisions are affected, trainees must be directly supervised by a fully
13 qualified individual. For example:

- 14 • A Division Group Supervisor (DIVS) trainee may not work directly for an
15 Operations Section Chief without additional field supervision. The
16 potential for high hazard work with high risk outcomes calls for a fully
17 qualified DIVS to be assigned supervision of the DIVS trainee.
- 18 • A Supply unit Leader (SPUL) trainee may supervise a
19 Receiving/Distribution Manager (RCDM) trainee. In this case, supervision
20 may be successfully provided in a lower hazard environment with
21 appropriate risk mitigation.

22
23 For more information, refer to *NWCG Memorandum #018-2010 Assignment of*
24 *Trainees to Incident Positions (April 8, 2010)*

26 **Incident Action Plan**

27 When a written Incident Action Plan is required, suggested components may
28 include objectives, organization, weather forecast, fire behavior forecast,
29 division assignments, air operations summary, safety message, medical plan,
30 communications plan, and incident map.

32 **Incident Status Reporting**

33 The Incident Status Summary (ICS-209), submitted to the GACC, is used to
34 report large wildland fires and any other significant events on lands under
35 federal protection or federal ownership. Lands administered by states and other
36 federal cooperators may also report in this manner.

37
38 Large fires are classified as 100 acres or larger in timber fuel types, 300 acres or
39 larger in grass fuel types, or when a Type 1 or 2 Incident Management Team is
40 assigned. A report should be submitted daily until the incident is contained.
41 The Agency Administrator may require additional reporting times. Refer to
42 local, zone and/or GACC guidance for additional reporting requirements.

44 **Incident History and Financial Records**

45 Wildland fire incidents on Federal lands managed by the FS and DOI (except
46 BIA) require creation of an Incident History File (IHF) to document significant

1 events, actions taken, lessons learned and other information with long-term
2 value for managing natural resources. IHF contents and instructions, and tools
3 for creating the IHF are found at
4 <http://www.nwcg.gov/policies/records/index.html>

5
6 The host unit will be responsible for retaining the incident documentation
7 package including the IHF and financial records.

9 **Document and Computer Security**

10 Precautions must be taken to secure incident information in its various formats.
11 All forms of information shall be treated as Controlled Unclassified Information
12 (CUI) and care must be exercised when handling the data to prevent the
13 inadvertent viewing or unauthorized disclosure of information. CUI paper
14 copies that compromise privacy and security shall be shredded before disposal
15 when no longer needed. All computers used at the incident must be patched and
16 have anti-virus software installed with recently updated definition files. All
17 media used to transfer information into the incident (for example, but not limited
18 to: USB flash drives, portable hard drives and CD/DVDs) must be scanned prior
19 to use. Autorun capabilities must be disabled to prevent the spread of malware.
20 All computers and storage devices shall be physically secured at all times.

22 **Transfer of Command**

23 The following guidelines will assist in the transfer of incident command
24 responsibilities from the local unit to incoming Type 1 or 2 Incident
25 Management Team and back to the local unit.

- 26 • The local team or organization already in place remains in charge until the
27 local representative briefs their counterparts on the incoming team, a
28 Delegation of Authority has been signed, and a mutually agreed time for
29 transfer of command has been established.
- 30 • The ordering unit will specify times of arrival and transfer of command, and
31 discuss these timeframes with both the incoming and outgoing command
32 structures.
- 33 • Clear lines of authority must be maintained in order to minimize confusion
34 and maintain operational control.
- 35 • Transfers of command should occur at the beginning of an operational
36 period, whenever possible.
- 37 • All operational personnel will be notified on incident command frequencies
38 when transfer of command occurs.

40 **Release of Incident Management Teams**

41 The release of a Type 1 or 2 IMT should follow an approved transfer of
42 command process. The Agency Administrator must approve the date and time
43 of the transfer of command. The transition plan should include the following
44 elements:

- 45 • Remaining organizational needs and structure.
- 46 • Tasks or work to be accomplished.

Release Date: January 2012

- 1 • Communication systems and radio frequencies.
- 2 • Local safety hazards and considerations.
- 3 • Incident Action Plan, including remaining resources and weather forecast
- 4 • Facilities, equipment, and supply status.
- 5 • Arrangement for feeding remaining personnel.
- 6 • Financial and payment processes needing follow-up.
- 7 • Complexity Analysis/Organizational Needs Assessment.

8

9 **Team Evaluation**

10 At completion of assignment, Incident Commanders will receive a written
11 performance evaluation from the Agency Administrator(s) prior to the teams'
12 release from the incident. Certain elements of this evaluation may not be able to
13 be completed at the closeout review. These include accountability and property
14 control, completeness of claims investigation/documentation, and completeness
15 of financial and payment documentation.

16

17 The final evaluation incorporating all of the above elements should be sent to
18 the incident commander and the respective GACC within 60 days. See
19 appendix I for the IMT evaluation form.

20

21 The Delegation of Authority, the Published Decision in WFDSS, and other
22 documented Agency Administrator's direction will serve as the primary
23 standards against which the IMT is evaluated.

24

25 The Agency Administrator will provide a copy of the evaluation to the IC and
26 the state/regional FMO, and retain a copy for the final fire package.

27

28 The state/regional FMO will review all evaluations and will be responsible for
29 providing a copy of evaluations documenting performance to the Geographic
30 Area Coordinating Group or agency managing the IMT.

31

32 **Unit/Area Closures**

33

34 Threats to public safety may require temporary closure of a unit/area, or a
35 portion of it. When a fire threatens escape from the unit/area, adjacent
36 authorities must be given as much advance notice as possible in order to achieve
37 orderly evacuation.

38

39 **Incident Emergency Management Planning and Services**

40

41 Refer to chapter 7 for further guidance.

42

43 **Operational Guidelines for Aquatic Invasive Species**

44

45 In order to prevent the spread of aquatic invasive species, it is important that fire
46 personnel not only recognize the threat aquatic invasive species pose to

1 ecological integrity, but how our fire operations and resulting actions can
2 influence their spread. Each local land management unit may have specific
3 guidelines related to aquatic invasive species. Therefore, it is recommended that
4 you consult established local jurisdictional guidelines for minimizing the spread
5 of aquatic invasive species and for equipment cleaning guidance specific to
6 those prevalent areas and associated species. To minimize the potential
7 transmission of aquatic invasive species, it is recommended that you:

- 8 • Consult with local biologists, Resource Advisors (READ) and fire
9 personnel for known aquatic invasive species locations in the area and avoid
10 them when possible.
- 11 • Avoid entering (driving through) water bodies or saturated areas whenever
12 possible.
- 13 • Avoid transferring water between drainages or between unconnected waters
14 within the same drainage when possible.
- 15 • Use the smallest screen possible that does not negatively impact operations
16 and avoid sucking organic and bottom substrate material into water intakes
17 when drafting from a natural water body.
- 18 • Avoid obtaining water from multiple sources during a single operational
19 period when possible.
- 20 • Remove all visible plant parts, soil and other materials from external
21 surfaces of gear and equipment after an operational period. If possible,
22 power-wash all accessible surfaces with clean, hot water (ideally > 140° F)
23 in an area designated by a local READ.
- 24 ○ *BLM- For additional information and guidelines please refer to the links*
25 *provided in the document titled BLM Fire Program Aquatic Invasive*
26 *Species Guidance found at:*
27 *<http://web.blm.gov/internal/fire/fpfm/docs/aquatic.pdf>*
28

29 **Noxious Weed Prevention**

30
31 To reduce the transport, introduction, and establishment of noxious weeds or
32 other invasive species on the landscape due to fire suppression activities, all fire
33 suppression and support vehicles, tools, and machinery should be cleaned at a
34 designated area prior to arriving and leaving the incident. Onsite fire equipment
35 should be used to thoroughly clean the undercarriage, fender wells, tires,
36 radiator, and exterior of the vehicle. Firefighter personnel should clean personal
37 equipment, boots, clothing, etc. of weed or other invasive species materials,
38 including visible plant parts, soil, and other materials as identified by the fire
39 resource advisor. The cleaning area should also be clearly marked to identify
40 the area for post fire control treatments, as needed.

41
42 Ensure that seed mixes, mulch, and/or straw wattles contain no federally or state
43 designated noxious weeds by using seed mixes, mulches or straw wattles that
44 have been examined by a laboratory or have current weed free certification from
45 a state seed laboratory or equivalent qualified testing agent.

46

1 Responding to Non-Wildland Fire Incidents

2

3 Managers will avoid giving the appearance that their wildland fire suppression
4 resources are trained and equipped to perform structure, vehicle, and dump fire
5 suppression, to respond to hazardous materials releases, or to perform
6 emergency medical response for the public.

7

8 Wildland Urban Interface

9 The operational roles of the federal agencies as partners in the wildland urban
10 interface are wildland firefighting, hazard reduction, cooperative prevention and
11 education, and technical assistance. Structural fire suppression is the
12 responsibility of tribal, state, or local governments. Federal agencies may assist
13 with exterior structural fire protection activities under formal fire protection
14 agreements that specify the mutual responsibilities of the partners, including
15 funding (Some federal agencies have full structural protection authority for their
16 facilities on lands they administer and may also enter into formal agreements to
17 assist state and local governments with structural protection).

18

19 *Review and Update of the 1995 Federal Wildland Fire Management*
20 *Policy, January 2001, page 23.*

21

22 Funding is not provided to prepare for or respond to emergency non-wildland
23 fire response activities such as structure fires, vehicle fires, dump fires,
24 hazardous materials releases, and emergency medical responses. Managers
25 must ensure that fire management plans, interagency agreements, and annual
26 operating plans clearly state agency and cooperator roles and responsibilities for
27 non-wildland fire response activities that agency personnel are exposed to as a
28 result of working in the interagency fire environment. Managers will also
29 ensure that federal wildland fire resources are not identified on run cards or in
30 dispatch plans for non-wildland fire responses.

31

32 Structure, Vehicle, Dumpster, Trash, and Landfill Fires

33 Firefighters will not take direct suppression action on structure, vehicle,
34 dumpster, trash, or landfill fires. Structure, vehicle, and landfill fire suppression
35 is not a functional responsibility of wildland fire resources. These fires have the
36 potential to emit high levels of toxic gases. This policy will be reflected in
37 suppression response plans.

38

39 Firefighters who encounter structure, vehicle, or landfill fires during normal
40 wildland fire suppression duties, or who are dispatched to such fires due to
41 significant threat to adjacent agency protected lands/resources, will not engage
42 in direct suppression action. Structure protection (not suppression) activities
43 will be limited to exterior efforts, and only when such actions can be
44 accomplished safely and in accordance with established wildland fire operations
45 standards.

- 1 • **NPS-** For structural fire (including vehicle, trash and dumpster fires)
2 response, training, medical examination, and physical fitness requirements,
3 and hazardous material response or control guidance, refer to chapter 3.
- 4 • **FS-** Wildfires other than vegetation (such as dumpster, trash, landfill, or
5 vehicle) as the primary fuel present hazards that are outside of the basic
6 wildland firefighters training and protective equipment. Response actions
7 will be limited to protection of life, property, and resources when they can
8 be safely undertaken with proper risk assessment and mitigation. When
9 agency employees are trained, qualified, and equipped to take action on
10 other than vegetation fires, they may do so with proper risk assessment and
11 mitigation (*Incident Response Pocket Guide, PMS 461*).

12 **Public Emergency Medical Response**

13 Public emergency medical response is not a functional responsibility of wildland
14 fire resources, and should not be part of a preplanned response that requires
15 these duties. When wildland firefighters encounter emergency medical response
16 situations, their efforts should be limited to immediate care (e.g. first aid, first
17 responder) actions that they are trained and qualified to perform.

- 18 • **NPS-** *NPS employees who provide emergency medical services will adhere
19 to the requirements contained in Director's Order and Reference Manual
20 #51, Emergency Medical Services.*

21 **Post Wildfire Activities**

22
23
24
25 Each wildland fire management agency is responsible for taking prompt action
26 to determine the need for, and to prescribe and implement, emergency
27 treatments to minimize threats to life or property or to stabilize and prevent
28 unacceptable degradation to natural and cultural resources resulting from the
29 effects of a fire on the lands they manage.

30 Post wildfire activities references can be found in *Interagency Burned Area
31 Emergency Response Guidebook, Interpretation of Department of the Interior
32 620 DM 3 and USDA Forest Service Manual 2523, For the Emergency
33 Stabilization of Federal and Tribal Trust Lands, Version 4.0 dated Feb. 2006*
34 and *Interagency Burned Area Rehabilitation Guidebook, Interpretation of
35 Department of the Interior 620 DM 3, For the Burned Area Rehabilitation of
36 Federal and Tribal Trust Lands, Version 1.3 dated October 2006.*
37 <http://www.fws.gov/fire/ifcc/Esr/home.htm>.

38
39 Damages resulting from wildland fires are addressed through four activities:

- 40 • **Wildfire Suppression Activity Damage Repair** - Planned actions taken to
41 repair the damages to resources, lands, and facilities resulting from wildfire
42 suppression actions and documented in the Incident Action Plan. These
43 actions are usually implemented immediately after containment of the
44 wildfire by the Incident Management Organization.
- 45 • **Emergency Stabilization** - Planned actions to stabilize and prevent
46 unacceptable degradation to natural and cultural resources, to minimize

Release Date: January 2012

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- 1 threats to life or property resulting from the effects of a wildfire, or to
- 2 repair/replace/construct physical improvements necessary to prevent
- 3 degradation of land or resources. Emergency stabilization actions must be
- 4 taken within one year following containment of a wildland fire and
- 5 documented in a Burned Area Emergency Response Plan.
- 6 ● Rehabilitation - Efforts taken within three years of containment of a
- 7 wildland fire to repair or improve wildfire-damaged lands unlikely to
- 8 recover naturally to management approved conditions, or to repair or
- 9 replace minor facilities damaged by wildfire. These efforts are documented
- 10 in a separate Burned Area Rehabilitation Plan.
- 11 ● Restoration - Continuing the rehabilitation beyond the initial three years or
- 12 the repair or replacement of major facilities damaged by the wildfire.

13

14 **Post-Fire Activities**

	Suppression Repair	Emergency Stabilization	Rehabilitation	Restoration
Objective:	Repair suppression damages	Protect life and property	Repair damages	Long Term Ecosystem Restoration
Damage due to:	Suppression activities	Post-fire events	Fire	Fire
Urgency:	Immediately after containment	1-12 months	1-3 years	3 + years
Responsibility	Agency Administrator	Agency administrator	Agency administrator	Agency administrator
Funding type:	Suppression (fire)	Emergency Stabilization	Rehabilitation	Regular program

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Emergency Stabilization Approval Authorities

	BIA	BLM	FWS	NPS	FS
Local Approval Level	<\$250,000 Agency Supt.	\$0 Field/ District Manager	\$0 Refuge Manager	\$0 Park Supt.	\$0 District Ranger
					\$0 Forest Supervisor
Regional/State Approval Level	\$250,000- \$500,000 Regional Director	<\$100,000 State Director	<\$500,000 Regional Director with Regional Fire Management Coordinator concurrency	<\$500,000 Regional Director	\$500,000 Western Regional Foresters
					\$100,000 Eastern Regional Foresters
National Approval Level	>\$500,000 Director of Fire Management	>\$100,000 Director	>\$500,000 Chief, Branch of Fire Management	>\$500,000 Chief, Division of Fire and Aviation	>\$100,000 or \$500,000 Chief

2

Burned Area Emergency Response (BAER) Teams

3 BAER Teams are a standing or ad hoc group of technical specialists (e.g.,
4 hydrologists, biologists, soil scientists, etc.) that develop and may implement
5 portions of the Burned Area Emergency Response Plans. They will meet the
6 requirements for unescorted personnel found in Chapter 07 under “Visitors to
7 the Fireline” when working within the perimeter of an uncontrolled wildfire.
8 The team’s skills and size should be commensurate with the size and complexity
9 of the wildfire.
10

11

12 It is the Agency Administrator’s responsibility to designate an interdisciplinary
13 BAER team. However, BAER teams must coordinate closely with IC and
14 Incident Management teams to work safely and efficiently. Initial requests for
15 funding for BAER should be submitted to the appropriate Agency Administrator
16 for approval within 7 calendar days after the total containment of the fire. If
17 additional time is needed, extensions may be negotiated with those having
18 approval authority.

- 19 • *DOI - The Department of the Interior maintains two standing National*
20 *BAER Teams with pre-identified positions listed in the National Interagency*
21 *Mobilization Guide and are comprised of personnel from the Bureau of*
22 *Indian Affairs, Bureau of Land Management, National Park Service, Fish*
23 *and Wildlife Service and Forest Service. The DOI-BAER Teams are*
24 *dispatched by the National Interagency BAER Team Dispatch Prioritization*

- 1 *Criteria Evaluation.*
2 [http://www.fws.gov/fire/ifcc/Esr/BAER/BAER_Team_Management/2006%20](http://www.fws.gov/fire/ifcc/Esr/BAER/BAER_Team_Management/2006%20BAERTeam%20call-out%20criteria.pdf)
3 [OBAERTeam%20call-out%20criteria.pdf.](http://www.fws.gov/fire/ifcc/Esr/BAER/BAER_Team_Management/2006%20BAERTeam%20call-out%20criteria.pdf)
- 4 ● **DOI-** *The DOI-BAER Teams should be requested at least 10 days prior to*
5 *expected date of wildfire containment and ordered as per the National*
6 *Mobilization Guide.*
 - 7 ● **FS -** *The Forest Service utilizes BAER Teams through a pool of resources*
8 *with the skills identified by the receiving unit. When needed, BAER*
9 *personnel from other units can either be contacted directly or through*
10 *dispatch. Placing a general fire resource order for BAER team members*
11 *via dispatch is not appropriate for ad hoc Forest Service teams. See FSM*
12 *2523 and FSH 2509.13 for agency specific policy and direction for BAER*
13 *teams.*

14 **Incident Business Management**

15
16 Specific incident business management guidance is contained in the *Interagency*
17 *Incident business Management Handbook* (PMS 902). This handbook assists
18 participating agencies of the NWCG to constructively work together to provide
19 effective execution of each agency's incident management program by
20 establishing procedures for:

- 22 ● Uniform application of regulations on the use of human resources, including
23 classification, payroll, commissary, injury compensation, and travel.
- 24 ● Acquisition of necessary equipment and supplies from appropriate sources
25 in accordance with applicable procurement regulations.
- 26 ● Managing and tracking government property.
- 27 ● Financial coordination with the protection agency and maintenance of
28 finance, property, procurement, and personnel records and forms.
- 29 ● Use and coordination of incident business management functions as they
30 relate to sharing of resources among federal, state, and local agencies,
31 including the military.
- 32 ● Investigation and reporting of accidents.
- 33 ● Investigating, documenting, and reporting claims.
- 34 ● Documenting costs and implementing cost-effective criteria for managing
35 incident resources.
- 36 ● Non-fire incidents administrative processes.

37 **Cost Management**

38 The primary criteria for choosing suppression strategies are to minimize costs
39 without compromising safety. Planned and actual suppression costs must be
40 commensurate with the values to be protected. They must be included and
41 displayed in the Wildland Fire Decision Support System (WFDSS) Published
42 Decision. Indirect containment strategies are appropriate only if they are the
43 safest or least costly option. Selection of these strategies must be carefully
44 scrutinized when fire danger trends are rising. Long duration wildfires need to
45

1 be closely evaluated to ensure that operations are not occurring beyond the point
2 of diminishing returns.

3
4 An Incident Business Advisor (IBA) must be assigned to any fire with costs of
5 \$5 million or more. The complexity of the incident and the potential costs
6 should be considered when assigning either an IBA1 or IBA2. If a qualified
7 IBA is not available, the approving official will appoint a financial advisor to
8 monitor expenditures.

9
10 Incident cost objectives will be included as a performance measure in Incident
11 Management Team evaluations.

12 13 **Large Fire Cost Reviews**

14 An Interagency Large Fire Cost Review will be conducted when an incident
15 (single fire or complex) meets or exceeds Federal combined expenditures of \$10
16 million.

17
18 A review may also be conducted when an incident (single fire or fire complex)
19 meets or is expected to meet one or more of the following criteria:

- 20 • The predicted time to achieve the fire management objective exceeds 21
21 days.
- 22 • There are significant political, social, natural resource, or policy concerns.
- 23 • There are significant and complicated cost-share or multi-jurisdictional
24 issues.
- 25 • The affected agency requests a review.

26
27 It is the responsibility of the agency administrator to monitor large fire costs and
28 advise the appropriate individual(s) within their agency of the need for a Large
29 Fire Cost Review. When a multi-jurisdictional fire requires review, the local
30 agency administrator will determine which agency will be designated as the lead
31 in the review process.

32
33 The Agency Director will provide a delegation of authority to the Cost Review
34 Team authorizing the implementation of a review.

35
36 The *Large Fire Cost Review Guidebook* and draft Delegation of Authority for
37 use by all federal wildland fire management agencies can be found at
38 <http://www.nwccg.gov/general/memos/nwccg-003-2009.html>.

39 40 **FLAME Act Responsibilities**

41 To comply with protocols for the Forest Land Assistance, Management, and
42 Enhancement (FLAME) Act, local units should forward a copy of the completed
43 complexity analysis (Appendix E) through the State/Regional Office to the
44 National Office. FLAME Act information should be forwarded for any fires
45 occurring on their agency's lands (or on lands protected by that agency under

- 1 formal agreement) that are managed by a Type 1 or Type 2 Incident
2 Management Team, and are 300 acres or larger.
- 3 • **BLM-** *The Complexity Analysis should be forwarded by the State to the*
4 *Division of Budget and Evaluation, Fire and Aviation (FA-400). The*
5 *Division of Budget and Evaluation will also extract supporting*
6 *documentation from the Wildland Fire Decision Support System.*
 - 7 • **FS-** *Regions are required to submit the following information to*
8 *FLAME@fs.fed.us for fires that are eligible for FLAME Act funding:*
 - 9 ○ *Incident job code*
 - 10 ○ *Incident number*
 - 11 ○ *Name of fire*
 - 12 ○ *Type of team(s) that was actually mobilized to the fire*
 - 13 ○ *Complexity Analysis/Organizational Needs Assessment*

15 Cache Management

16
17 Agencies often serve as interagency partners in national support caches and
18 local area support caches, and may operate single agency initial attack caches.
19 All caches will maintain established stocking levels, receive and process orders
20 from participating agencies and follow ordering and fire replenishment
21 procedures as outlined by the national and geographic area cache management
22 plans and mobilization guides.

- 23 • **FS -** *Refer to FSM 5160 for specific requirements.*

25 National Interagency Support Caches

26 There are eleven National Interagency Support Caches (NISCs); nine are
27 managed by the Forest Service, and two are managed by the BLM. The eleven
28 national caches are part of the National Fire Equipment System (NFES). Each
29 of these caches provides incident support in the form of equipment and supplies
30 to units within their respective geographic areas. The NFES cache system may
31 support other emergency, disaster, fire-related or land management activities,
32 provided that such support is permitted by agency policies and does not
33 adversely affect the primary mission. These national caches do not provide
34 supplies and equipment to restock local caches for non-incident requests. Non-
35 emergency (routine) orders should be directed to the source of supply, e.g., GSA
36 or private vendors. The Great Basin Cache at NIFC provides publications
37 management support to the National Wildfire Coordinating Group (NWCG).
38 Reference the *NWCG, National Fire Equipment System Catalog (NFES 0362)*
39 for more detailed information.

40
41 Forest Service National Symbols Program distribution is through the Northeast
42 Area National Interagency Support Cache. This material is coordinated by the
43 USDA Forest Service, under advisement of the National Association of State
44 Foresters' (NASF) Cooperative Forest Fire Prevention Committee (CFFP) and
45 the DOI Bureau of Land Management. Materials include Smokey Bear
46 prevention items and Junior Forest Ranger environmental educational materials.

1 Northeast Area National Interagency Support Cache also distributes DOI Fire
2 Education materials and provides resource kits for National Fire Prevention
3 Teams. The website at <http://www.symbols.gov/> contains the catalog of these
4 materials and offers information having to do with these programs.

5

6 **Local Area Interagency Support Caches**

7 These caches directly support more than one agency and generally cover more
8 than one administrative unit. They will maintain stocking levels to meet the
9 identified needs of the multiple agencies for whom service is provided.

10

11 **Initial Response Caches**

12 Numerous caches of this level are maintained by each agency. These caches
13 will establish and maintain stocking levels to meet the initial response needs of
14 the local unit(s).

15

16 **Inventory Management**

17

18 **System Implementation**

19 Each fire cache, regardless of size, should initiate and maintain a cache
20 inventory management system. Agency management systems provide a check
21 out/return concept that incorporates a debit/crediting for all items leaving the
22 cache. This system is strictly followed in the NISC's. Inventory management
23 processes should be implemented for all local interagency support and initial
24 action caches.

25

26 **Reporting Requirements**

27 By April 1st of each year, all local interagency support and initial action caches
28 will submit inventories to their servicing NISC.

29

30 All items reported will conform to refurbishment standards set forth in the *Fire*
31 *Equipment Storage and Refurbishment Standards (PMS 448)* available at
32 www.nwcg.gov. Those items not identified in this document will not be
33 refurbished.

34

35 **Accountability**

36 Fire loss/use rate is defined as all property and supplies lost, damaged, or
37 consumed on an incident. It is reported as a percentage that is calculated in
38 dollars of items issued compared to items returned. The reasonable anticipated
39 fire loss/use rate for all items issued to an incident is 15 percent of trackable and
40 durable items. Consumable items are not included in this total. All items
41 stocked in agency fire caches will be categorized for return (loss tolerance/use
42 rate) and accountability purposes.

43

44 **Trackable Items**

45 Include items that a cache may track due to dollar value, sensitive property
46 classification, limited quantities available, or other criteria set by each NISC.

1 Items that are considered trackable are usually engraved or tagged with a cache
2 trackable identification number. These items must be returned to the issuing
3 cache at the end of the incident use, or documentation must be provided to the
4 issuing cache as to why it was not returned. All trackable items are also
5 considered durable. 100 percent accountability is expected on trackable items.

6

7 **Durable Items**

8 Include cache items considered to have a useful life expectancy greater than one
9 incident. High percentages of return for these items are expected. These items
10 are not specifically cache identified/tagged/engraved. Acceptable loss tolerance/
11 use rates for the following durable goods have been established:

- 12 • 10% for water handling accessories, helicopter accessories, tents and camp
13 items such as heaters, lights, lanterns, tables, and chairs.
- 14 • 20% for hose, tools, backpack pumps, sleeping bags, pads, and cots.
- 15 • 30% for personal protective equipment.

16

17 **Consumable Items**

18 Include items normally expected to be consumed during incident use.
19 Consumable items returned in unused condition are credited to the incident.
20 Examples of consumable items are: batteries, plastic canteens, cubitainers,
21 forms, MREs, fusees, hot food containers, petroleum products, and medical
22 supplies.

23

24 **Incident Management and Environmental Sustainability**

25 Every incident should seek opportunities to reduce unnecessary waste and limit
26 impacts associated with management actions. This may be accomplished, for
27 example, by promoting recycling and encouraging the use of alternative energy
28 sources as long as such efforts do not compromise operational or safety
29 objectives.

30

31 **Incident to Incident Transfer of Supplies and Equipment**

32 Transfer of supplies and equipment between incidents is not encouraged, due to
33 the increased possibility of accountability errors. In instances when it is
34 determined to be economically feasible and operationally advantageous, the
35 following must be accomplished by the Supply Unit Leader from the incident
36 that is releasing the items.

37

38 Documentation will be completed on the *Interagency Incident Waybill (NFES*
39 *#1472)* and must include the following:

- 40 • NFES Number.
- 41 • Quantity.
- 42 • Unit of Issue.
- 43 • Description.
- 44 • Trackable ID number, if item is trackable.
- 45 • Receiving incident name, incident number, and resource request number.

- 1 • The Supply Unit Leader will send the waybill transfer information to the
2 servicing NISC to maintain proper accountability recording.
3
4 Upon request, the servicing NISC can provide the Supply Unit Leader with and
5 Outstanding Items Report to facilitate accurate waybill documentation.
6

7 **Fire Loss Tolerance Reporting for Type 1 and 2 Incidents**

8 In order to help managers keep incident-related equipment and supply loss to a
9 minimum, incident management teams (IMT)'s are required to maintain
10 accountability and tracking of these items. Guidelines and procedures to assist
11 with this accountability are provided in Chapter 30 of the *Interagency Incident*
12 *Business Management Handbook*. To further facilitate these procedures and
13 provide oversight, a fire loss report has been developed that provides detailed
14 information regarding used and trackable item use. This report has been
15 accepted by NWCG for all wildland fire agencies and will be compiled for all
16 type 1 and type 2 incidents. Investigations may be conducted in those cases
17 where loss/use tolerances rates may have been exceeded.
18

19 These reports are compiled by the NISC servicing the particular incident.
20 Reports will then be forwarded to the responsible local office, with a copy to the
21 state/regional FMO, within 60 days of the close of the incident to meet these
22 time limits. The following steps must be followed to insure accurate reports:

- 23 • At the close of each incident, all property must be returned to the servicing
24 NFES cache.
25 • If accountable/trackable property has been destroyed or lost, appropriate
26 documentation must be provided to the cache for replacement and updating
27 property records.
28 • All property purchased with emergency fire funds for an incident must be
29 returned to the NFES cache system.
30 • All unused consumable and/or durable NFES items must be returned to the
31 servicing NFES cache within 30 days of control of the incident.
32 • Agency administrators/fire management officers must review the fire loss
33 report and recommend appropriate follow-up action if losses are excessive.
34 Those actions and recommendations should be documented and filed in the
35 final incident records.
36

37 **Incident Supply and Equipment Return Procedures**

38 Supplies and equipment ordered with suppression funds will be returned to the
39 ordering unit at the close of the incident and dispersed in one of three ways:

- 40 • Items meeting NFES standards will be returned to the local or geographic
41 area cache for reuse within the fire supply system.
42 • Items not meeting the prescribed NFES standards will be purchased with
43 project funds by the local unit if the items are needed for program use.
44 • Items will be delivered to the unit's excess property program for disposal.
45

1 **Cache Returns and Restock Procedures**

2 All returns for credit and restock of caches to specific incident charges should be
3 made within 30 days after the close of the incident. If that timeframe cannot be
4 met, it is required that returns and restock be made during the same calendar
5 year as items were issued. All returns should be tagged with appropriate
6 incident number, accompanied by an interagency waybill identifying the
7 appropriate incident number, or accompanied by issue documents to ensure
8 proper account credit is given. Any items returned after the calendar year of
9 issue will be returned to multiple-fire charges, unless specific incident charge
10 documentation (issues) can be provided with the return.

11

12 **Incident Replacement of Government Property**

13 Refer to the *IIBMH*, Chapter 30 for procedures governing property management
14 relating to incident activities. The Agency Administrator is responsible for
15 providing agency property management guidelines and/or procedures to incident
16 personnel.

17

18 Damage or Loss for assigned property is addressed under *IIBMH* Chapter 30.
19 Specialty or non-cache items originally provided by the home unit through the
20 use of preparedness funds will be replaced by home unit funds if the loss is due
21 to normal wear and tear. If the government property is damaged on the incident
22 due to a specific event, e.g., wind event damages tent, the incident may, upon
23 receipt of required documentation and proof of damage, authorize replacement
24 using the *Incident Replacement Requisition (OF-315)*. Cache items will be
25 replaced at the incident if available. Cache items that are not available at the
26 incident may be authorized for restocking at the home unit via an authorized
27 *Incident Replacement Requisition*.

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Chapter 12 Suppression Chemicals & Delivery Systems

Policy for Use of Fire Chemicals

Use only products qualified and approved for intended use. Follow safe handling procedures, use personal protective equipment recommended on the product label and *Material Safety Data Sheet* (MSDS).

A current list of qualified products and approved uses can be found on the Wildland Fire Chemical Systems (WFCS) website:

- <http://www.fs.fed.us/rm/fire/wfcs/index.htm>
- Link to appropriate Qualified Products List (QPL)

Refer to local jurisdictional policy and guidance related to use of wildland fire chemicals for protection of historic structures.

Products must be blended or mixed at the proper ratio prior to being loaded into the aircraft. Quality control and safety requirements dictate that mixing or blending of wildland fire chemicals be accomplished by approved methods.

Types of Fire Chemicals

Long-Term Retardant

Long-term retardants contain fertilizer salts that change the way fuels burn. They are effective even after the water has evaporated. Retardants may be applied aerially by large air tanker, single engine airtanker (SEAT) and helicopter bucket. Some retardant products are approved for fixed tank helicopters. Some products are formulated specifically for delivery from ground sources. See the QPL for specific uses for each product.

Recommended coverage levels and guidelines for use can be found in the *10 Principles of Retardant Application*, NFES 2048, PMS 440-2 pocket card.

Retardant mixing, blending, testing, and sampling requirements can be found at the WFCS website Lot Acceptance and Quality Assurance page:
<http://www.fs.fed.us/rm/fire/wfcs/laqa.htm>.

Fire Suppressant Foam

Fire suppressant foams are combinations of wetting and foaming agents added to water to improve the effectiveness of the water. They are no longer effective once the water has evaporated. Foam may be applied by engines, portable pumps, helicopters, and SEATs. Some agencies also allow application of foam from fixed-wing water scoopers. See the QPL for specific uses for each product.

1 Wet Water

2 Using foam concentrates at a mix ratio of 0.1 percent will produce a wet water
3 solution.

5 Water Enhancer (Gel)

6 Water enhancers, such as fire fighting gels, are added to water to improve the
7 viscosity and adhesion of water. They are not effective once the water has
8 evaporated. These products may be used in structure protection within the
9 wildland interface or on wildland fuels. They are fully approved for use in
10 helicopter bucket and engine application. Many are also approved, at specific
11 mix ratios, for use in SEATs, and fixed tank helicopters. See the QPL for
12 specific uses for each product.

14 Safety Information**16 Personnel Safety**

17 All qualified wildland fire chemicals meet minimum requirements (June 2007)
18 in regard to aquatic and mammalian toxicity (acute oral toxicity, acute dermal
19 toxicity, primary skin irritation, and primary eye irritation). Specifications for
20 long-term retardants, fire suppression foams, and water enhancers can be found
21 on the WFCS website.

22
23 Personnel involved in handling, mixing, and applying fire chemicals or solutions
24 shall be trained in proper procedures to protect their health and safety and the
25 environment. Approved fire chemicals can be irritating to the eyes. Personnel
26 must follow the manufacturer's recommendations; including use of PPE, as
27 found on the product label and product MSDS. The MSDSs for all approved
28 fire chemicals can be found on the web site at
29 <http://www.fs.fed.us/rm/fire/wfcs/msds.htm>.

30
31 Human health risk from accidental drench with fire chemicals can be mitigated
32 by washing with water to remove any residue from exposed skin.

33
34 Containers of any fire chemical, including backpack pumps and engine tanks,
35 should be labeled to alert personnel that they do not contain only water and the
36 contents are not potable.

37
38 Slippery footing is a hazard at storage areas, unloading and mixing sites, and
39 wherever applied. Because all fire chemical concentrates and solutions
40 contribute to slippery conditions, all spills must be cleaned up immediately,
41 preferably with a dry absorbent pad or granules. Firefighters should be aware
42 that fire chemicals can conceal ground hazards. Wildland fire chemicals can
43 penetrate and deteriorate leather boots, resulting in wet feet and potentially
44 ruined leather.

45
46

1 **Aerial Application Safety**

2 Personnel and equipment in the flight path of intended aerial drops should move
3 to a location that will decrease the possibility of being hit with a drop.

4
5 Personnel near aerial drops should be alert for objects (tree limbs, rocks, etc.)
6 that the drop could dislodge. The *Incident Response Pocket Guide* (IRPG)
7 provides additional safety information for personnel in drop areas.

8
9 During training or briefings, inform all fire personnel of environmental
10 guidelines and requirements for fire chemicals application and avoid contact
11 with waterways.

12
13 Avoid dipping from rivers or lakes with a helicopter bucket containing residual
14 fire chemicals without first cleaning/washing down the bucket.

15
16 Consider setting up an adjacent reload site and manage the fire chemicals in
17 portable tanks or terminate the use of chemicals for that application.

18
19 **Policy for Delivery of Wildland Fire Chemicals near Waterways**

20
21 Avoid aerial application of wildland fire chemicals within 300 feet of waterways
22 and any ground application of wildland fire chemicals into waterways. The
23 policy has been adopted from the *2000 Guidelines for Aerial delivery of*
24 *Retardant or Foam near Waterways* which were established and approved by
25 the FS, BLM, NPS, and FWS. It has been expanded to include all wildland fire
26 chemicals, including water enhancers.

27
28 This policy was updated in 2009 and can be found at.
29 [http://www.fs.fed.us/rm/fire/wfcs/Application_Policy-MultiAgency_042209-](http://www.fs.fed.us/rm/fire/wfcs/Application_Policy-MultiAgency_042209-UPDATE.pdf)
30 [UPDATE.pdf](http://www.fs.fed.us/rm/fire/wfcs/Application_Policy-MultiAgency_042209-UPDATE.pdf)

31
32 **Exceptions:**

- 33 • When alternative line construction tactics are not available due to terrain
34 constraints, congested area, life and property concerns or lack of ground
35 personnel, it is acceptable to anchor the wildland fire chemical application
36 to the waterway. When anchoring a wildland fire chemical to a waterway,
37 use the most accurate method of delivery in order to minimize placement of
38 wildland fire chemicals in the waterway (e.g., a helicopter rather than a
39 heavy airtanker).

40
41 When potential damage to natural resources outweighs possible loss of aquatic
42 life, the unit administrator may approve a deviation from these guidelines.

- 43
44 • *FS- The Record of Decision for the Nationwide Aerial Application of Fire*
45 *Retardant on National Forest System Land replaces the 2000 Guidelines*
46 *with fire retardant direction (still policy). This direction includes 300' (or*

1 larger) buffers on either side of waterways or avoidance areas for certain
2 threatened, endangered, proposed, candidate, or sensitive (TEPCS) aquatic
3 species. The waterway and buffers have been mapped and should be
4 provided to any firefighting personnel affiliated with the ordering and
5 directing the delivery of aeri ally applied fire retardant.

6 The direction also includes mapped avoidance areas for TEPCS terrestrial
7 species. These avoidance areas do not allow for the aeri ally delivery of fire
8 retardants.

9 **Exception: The one exception allowed for dropping fire retardants in any**
10 **waterway, 300' (or larger) buffer, or mapped avoidance area is when**
11 **human life or safety is threatened and the use of retardant can be**
12 **reasonably expected to alleviate the threat.**

13 This direction applies to any wildland fire chemical that is aeri ally applied,
14 not just fire retardant.

15 **Definition of Waterway- 2000 Guidelines**

16 Any body of water (including lakes, rivers, streams, and ponds) whether or not
17 they contain aquatic life.

18 • **FS- Definitions**

- 19 ○ **Aquatic Avoidance Areas-** All waterways with a 300-foot (or larger)
20 buffer; this includes perennial streams, intermittent streams, lakes,
21 ponds, identified springs, reservoirs, and vernal ponds.
- 22 ○ **Terrestrial Avoidance Area-** Mapped area used to avoid impacts on
23 one or more federally listed threatened, endangered, or proposed plant
24 or animal species or critical habitat where aerial application of fire
25 retardant may affect habitat and/or populations and for any FS
26 terrestrial sensitive or candidate species where aerial application of
27 fire retardant may result in a trend toward federal listing under ESA or
28 a loss of viability on the planning unit.

29 **Guidance for Pilots**

30 To meet the 300-foot buffer zone guideline, implement the following:

- 31 • **Medium/Heavy Airtankers:** When approaching a waterway visible to the
32 pilot, the pilot shall terminate the application of wildland fire chemical
33 approximately 300 feet before reaching the waterway. When flying over a
34 waterway, pilots shall wait one second after crossing the far bank or shore
35 of a waterway before applying wildland fire chemical. Pilots shall make
36 adjustments for airspeed and ambient conditions such as wind to avoid the
37 application of wildland fire chemical within the 300-foot buffer zone.
- 38 • **Single Engine Airtankers:** When approaching a waterway visible to the
39 pilot, the pilot shall terminate application of wildland fire chemical
40 approximately 300 feet before reaching the waterway. When flying over a
41 waterway, the pilot shall not begin application of wildland fire chemical
42 until 300 feet after crossing the far bank or shore. The pilot shall make
43 adjustments for airspeed and ambient conditions such as wind to avoid the
44 application of retardant within the 300-foot buffer zone.

- 1 • **Helicopters:** When approaching a waterway visible to the pilot, the pilot
2 shall terminate the application of wildland fire chemical 300 feet before
3 reaching the waterway. When flying over a waterway, pilots shall wait five
4 seconds after crossing the far bank or shore before applying the wildland
5 fire chemical. Pilots shall make adjustments for airspeed and ambient
6 conditions such as wind to avoid the application of wildland fire chemicals
7 within the 300-foot buffer zone.
8
- 9 This policy does not require the helicopter or airtanker pilot-in-command to fly
10 in such a way as to endanger his or her aircraft, other aircraft, structures, or
11 compromise ground personnel safety.
12
- 13 • **FS-** *The following is in addition to guidance to pilots for any aircraft*
14 *supporting a fire on National Forest lands:*
- 15 ○ *National Forest lands may have mapped avoidance areas for*
16 *Threatened, Endangered, Proposed, Candidate, or Sensitive (TEPCS)*
17 *species, and waterways that are excluded from aerially applied*
18 *wildland fire chemicals. Any aerial supervision resource should*
19 *inquire if these avoidance areas exist on any Forest Service fire they*
20 *are providing support to. Include the reporting requirements in the*
21 *briefing if a misapplication of fire chemical occurs.*
 - 22 ○ *Prior to fire retardant application, all pilots shall be briefed on the*
23 *locations of all TEPCS avoidance areas on the unit.*
 - 24 ○ *Prior to aerial application of fire retardant, the pilot will make a “dry*
25 *run” over the intended application area to identify avoidance areas*
26 *and waterways in the vicinity of the wildland fire if it is operationally*
27 *feasible (urgency to drop).*
 - 28 ○ *When approaching an avoidance area mapped for TEPCS species,*
29 *waterway, or riparian vegetation visible to the pilot, the pilot will*
30 *terminate the application of retardant approximately 300 feet before*
31 *reaching the mapped avoidance area or waterway.*
 - 32 ○ *When flying over a mapped avoidance area, waterway, or riparian*
33 *vegetation, the pilot will wait 1 (one) second before applying*
34 *retardant.*
 - 35 ○ *Pilots will make adjustments for airspeed and ambient conditions such*
36 *as wind to avoid the application of retardant within the 300-foot or*
37 *larger buffer or avoidance area in order to avoid drift into protected*
38 *areas.*
 - 39 ○ *Pilots are provided avoidance area maps at all briefings (if not*
40 *dispatched from one geographic area/unit and delivering to another*
41 *geographic area).*
- 42

43 **Reporting Requirements of Wildland Fire Chemicals into Waterways:**

44 Any fire chemicals aerially applied into a waterway or within 300 feet of a
45 waterway require prompt upward reporting to incident management and agency
46 administrators. Notifications will also be made for any spills or ground

1 applications of fire chemicals into waterways or with potential to enter the
2 waterway.

3
4 If it is believed that fire chemicals have been introduced into a waterway or
5 buffer zone, personnel should immediately inform their supervisor. The incident
6 or host authorities must immediately contact appropriate regulatory agencies and
7 specialists within the local jurisdiction.

8
9 Initial notifications of wildland fire chemical mishaps will be reported as soon as
10 possible to the WFCS Fire Chemical Project Leader in Missoula, Montana at
11 phone 406-329-4859 (if no answer please leave message) or to individuals listed
12 on website referenced below. Include the date, location, and extent of the
13 mishap.

14
15 All information, including reporting form and instructions, are posted on the
16 web site at: <http://www.fs.fed.us/fire>.

17 • *FS - Additional Reporting Requirements for TEPCS: Reporting is also*
18 *required for all introductions of wildland fire chemicals into habitat for*
19 *those TEPCS species identified by the U.S Fish and Wildlife Service (FWS)*
20 *and Forest Service offices. The list and other information can be found at*
21 *http://www.fs.fed.us/fire/retardant/eis_info.html. This requirement is part*
22 *of the Record of Decision for the Nationwide Aerial Application of Fire*
23 *Retardant and the completion of ESA Section 7 Consultation with the*
24 *National Marine Fisheries Service (NMFS) and the FWS. When wildland*
25 *fire chemicals adversely affect any threatened, endangered, proposed, or*
26 *candidate species, or designated or proposed critical habitat as identified in*
27 *the ROD and consultation with the Services, the Forest Service Line Officer*
28 *must reinitiate consultation with the FWS and/or NMFS. The FS unit will*
29 *coordinate and work with the local FWS or NMFS office to develop the*
30 *appropriate monitoring plan or to implement the applicable terms and*
31 *conditions, reasonable and prudent measures, or conservation measures*
32 *issued as part of the consultation. The procedures, reporting form and*
33 *instructions can be found at the same website as listed above.*

34 35 **Endangered Species Act (ESA) Emergency Consultation for Agencies Other** 36 **Than Forest Service**

37
38 The following provisions are guidance for complying with the emergency
39 section 7 consultation procedures of the ESA with respect to aquatic species.
40 These provisions do not alter or diminish an action agency's responsibilities
41 under the ESA.

42
43 Where threatened & endangered (T&E) species or their habitats are potentially
44 affected by aerial application of wildland fire chemical, the following additional
45 procedures apply:

- 1 • As soon as practicable after the aerial application of wildland fire chemical
2 near waterways or within listed species habitats, determine whether the
3 aerial application has caused any adverse effects to a T&E species or their
4 habitat. This can be accomplished by the following:
- 5 ○ Aerial application of wildland fire chemical outside 300 ft of a
6 waterway or listed species habitat is presumed to avoid adverse effects
7 to species and no further consultation for species is necessary.
 - 8 ○ Aerial application of wildland fire chemical within 300 ft of a
9 waterway or listed species habitat requires that the unit administrator
10 determine whether there have been any adverse effects to T&E species.
- 11 • These procedures shall be documented in the initial or subsequent fire
12 reports:
- 13 ○ If there were no adverse effects to aquatic T&E species or their
14 habitats, there is no additional requirement to consult on aquatic species
15 with Fish and Wildlife Service (FWS) or National Marine Fisheries
16 Service (NMFS).
 - 17 ○ If the action agency determines that there were adverse effects on T&E
18 species or their habitats then the action agency must consult with FWS
19 and/or NMFS, as required by 50 CFR 402.05 (Emergencies).
20 Procedures for emergency consultation are described in the *Interagency
21 Consultation Handbook*, Chapter 8 (March, 1998). In the case of a
22 long duration incident, emergency consultation should be initiated as
23 soon as practical during the event. Otherwise, post-event consultation
24 is appropriate. The initiation of the consultation is the responsibility of
25 the unit administrator.

26
27 Ground application of a wildland fire chemical into a waterway or listed species
28 terrestrial avoidance area (FS specific avoidance area) also requires determining
29 whether the application has caused any adverse effects to a T&E species or their
30 habitat. The procedures identified above also apply.

31
32 Each agency is responsible for ensuring that their appropriate agency specific
33 guides and training manuals reflect these standards.

34 **Operational Guidelines for Invasive Species**

35
36
37 Refer to Chapter 11 for guidance on minimizing potential transmission of
38 invasive species.

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Chapter 13 Firefighter Training and Qualifications

Introduction

National Wildfire Coordinating Group (NWCG) sanctioned firefighters are trained and qualified according to the NWCG and other standards, as outlined below.

Policy

Firefighters must meet standards identified in the NWCG publication *PMS 310-1 National Interagency Incident Management System Wildland Fire Qualifications System Guide*. The 310-1 may be found at <http://www.nwcg.gov/pms/docs/docs.htm>

- **FS** - See *FSH 5109.17* for additional requirements.

Certain firefighters must meet standards identified in the *Interagency Fire Program Management Qualifications Standards and Guide*. The *Interagency Fire Program Management Qualification Standards and Guide* may be found at <http://www.ifpm.nifc.gov>

Agency standards for training and qualifications may exceed the minimum standards established by National Wildfire Coordinating Group (NWCG). Such additional standards will be approved by the Fire Directors, and implemented through the Incident Qualifications and Certification System (IQCS). Standards which may exceed the minimum standards established by NWCG are identified in:

- **BLM** - *BLM Fire and Aviation Training Information Job Aid* which can be found at :
http://www.blm.gov/nifc/st/en/prog/fire/training/fire_training/publications/job_aid.html
- **FWS** - *The Fire Management Handbook*.
- **FS** - *The FSH 5109.17*. AD hires sponsored by the Forest Service will meet *FSH 5109.17* position qualification standards.
- **NPS** - *L380 Fireline Leadership* is recommended training for single resource bosses; *L-381 Incident Leadership* is recommended training for RXBI.

Qualification and Certification Process

Each unit with fire management responsibilities will establish an Incident Qualification Card qualification and certification process. In areas cooperating with other federal, state, or local agencies, an interagency qualification and certification committee should include representatives from each unit. These qualification and certification committees provide management oversight and

- 1 review of the wildland and prescribed fire positions under their jurisdiction. The
2 committee also:
- 3 • Ensures that qualifications generated by IQCS or other agency systems for
4 employees are valid by reviewing the training and experience of each
5 employee.
 - 6 • Determines whether each employee possesses the personal characteristics
7 necessary to perform the wildland and prescribed fire positions in a safe and
8 efficient manner.
 - 9 • Makes recommendations to the appropriate agency administrator or
10 designee who is responsible for final certification signature.
 - 11 • Develops interagency training needs and sponsors courses that can be
12 offered locally.
 - 13 • Ensures training nominees meet minimum requirements for attending
14 courses.

15 **Non-NWCG Agency Personnel Qualifications**

16 Personnel from non-NWCG agencies meeting *NWCG 310-1* prerequisites can
17 participate in and receive certificates for successful completion of NWCG
18 courses. Agency employees can complete the Task Blocks, Evaluation Record
19 and Verification/Certification sections of a cooperating organizations employee
20 Position Task Book. Agency employees will not initiate or complete the
21 Agency Certification sections of Position Task Book for non-agency employees.
22

23
24 Personnel from agencies that do not subscribe to the NWCG qualification
25 standards may be used on agency managed fires. Agency fire managers must
26 ensure these individuals are only assigned to duties commensurate with their
27 competencies, agency qualifications, and equipment capabilities.
28

29 **Non-NWCG Agency Personnel Use on Prescribed Fire**

30 The NWCG 310-1 *Wildland Fire System Qualifications Guide* establishes the
31 minimum qualifications for personnel involved in prescribed fires on which
32 resources of more than one agency are utilized - unless local agreements specify
33 otherwise. This guide may be found at:
34 <http://www.nwcg.gov/pms/docs/docs.htm>
35

36 **Incident Qualifications and Certification System (IQCS)**

37
38 The Incident Qualifications and Certification System (IQCS) is the fire
39 qualifications and certification record keeping system. The Responder Master
40 Record report provided by the IQCS meets the agency requirement for
41 maintaining fire qualification records. The system is designed to provide
42 managers at the local, state/regional, and national levels with detailed
43 qualification, experience, and training information needed to certify employees
44 in wildland fire positions. The IQCS is a tool to assist managers in certification
45 decisions. However, it does not replace the manager's responsibility to validate

1 that employees meet all requirements for position performance based on their
2 agency standards.

3

4 A hard copy file folder will be kept for each employee. The contents will
5 include, but are not limited to: training records for all agency required courses,
6 evaluations from assignments, position task book verification, yearly updated
7 IQCS forms, and the Responder Master Record (RPTC028) from IQCS. All
8 records will be stored and/or destroyed in accordance with agency policies.

- 9 • **BLM** - *These policies can be found at*
10 *[http://www.blm.gov/wo/st/en/info/regulations/combined_record_schedules.](http://www.blm.gov/wo/st/en/info/regulations/combined_record_schedules.html)*
11 *html*
- 12 • **NPS** - *IQCS Account Managers should have an IQCS Delegation of*
13 *Authority if they are serving as the Certifying Official. Delegation of*
14 *Authority can be found at: <http://iqcs.nwcg.gov/main/requestAccount.html>*

15

16 **Certification of Non-Agency Personnel**

17 Non-agency firefighters will be certified by state or local fire departments, or
18 private training providers approved by a Memorandum of Understanding
19 (MOU) through their local GACC. Agencies will not assist in the
20 administration, or sponsor the Work Capacity Test (WCT), as the certifying
21 agency.

22

23 **Incident Qualification Card**

24 The agency administrator (or delegate) is responsible for annual certification of
25 all agency and Administratively Determined (AD) personnel serving on wildfire,
26 prescribed fire, and all hazard incidents. This responsibility includes monitoring
27 medical status, fitness, training, performance, and ensuring the responder meets
28 all position performance requirements.

29

30 Training, medical screening, and successful completion of the appropriate WCT
31 must be properly accomplished. All Incident Qualification Cards issued to
32 agency employees, with the exception of Emergency Firefighter (EFF-paid or
33 temporary employees at the FFT2 level), will be printed using the IQCS.

34 Incident Qualification Cards issued to EFF or temporary employees at the FFT2
35 level may be printed at the local level without use of the IQCS.

36

37 Each agency will designate employees at the national, regional/state, and local
38 levels as Fire Qualifications Administrators, who ensure all incident experience,
39 incident training, and position Task Books for employees within the agency are
40 accurately recorded in the IQCS. All records must be updated annually or
41 modified as changes occur.

- 42 • **NPS** - *Certification for Area Command and Type 1 Command and General*
43 *Staff (C&GS) position task books will be done at the national office level;*
44 *Type 2 C&GS, and any position task books issued to park fire management*
45 *officers will be certified at the regional office level. All other position task*
46 *books may be certified at the local unit level.*

- 1 • **NPS** - It is NPS policy that two or more assignments be accomplished after
2 completing a Position Task Book, and receiving certification, before an
3 individual begins movement to the next higher level. It is also NPS policy to
4 require two or more qualified assignments be accomplished in a position
5 before an individual may become a position performance evaluator. The
6 only exceptions to this policy are unit leader positions leading to Planning
7 Section Chief, Logistics Section Chief, or Finance Section Chief.
8 Subordinate unit leader positions require a minimum of one assignment
9 after the PTB completion and position certification.
- 10 • **BLM- BLM Recertification Policy:** If an employee (including an agency-
11 sponsored AD) has lost currency in a position, the employee is converted to
12 trainee status for that position. In order to regain full qualification for the
13 position, the employee must demonstrate the ability to perform in the
14 position as determined by the Certifying Official. Prior to recertification,
15 the employee must:
- 16 ○ Complete the BLM Recertification Evaluation found at
17 http://www.blm.gov/nifc/st/en/prog/fire/training/fire_training.html
 - 18 ○ Complete one or more evaluation assignments.
 - 19 ○ Complete any additional requirements as determined by the Certifying
20 Official (e.g. additional assignments and/or courses).
- 21 **NOTE:** This policy only applies to positions for which a task book is
22 required.

23 24 **Incident Qualification Card Expiration Dates**

25 Incident Qualification Card positions requiring Work Capacity Tests (WCT) and
26 the Annual Fireline Safety Refresher Training course (RT-130) are valid through
27 the earliest expiration date (either fitness or refresher) listed on the card.

28 Incident Qualification Card positions that do not require WCT or RT-130 for
29 issuance are valid for 12 months from the date the card is signed by a certifying
30 official.

- 31 • **FS-** the WCT is considered effective for 13 months from the date passed. If
32 an employee is on an emergency assignment on the date their WCT expires,
33 they will complete their assignment including any extensions. Upon return
34 to their duty station, they must complete the WCT and acquire a new
35 Incident Qualification Card prior to accepting any new assignments.

36 37 **Universal Training Requirements**

38
39 All personnel filling NWCG recognized positions on the fireline must have
40 completed:

- 41 • S-130 Firefighter Training (including the required field exercises)
- 42 • S-190 Introduction to Wildland Fire Behavior
- 43 • L-180 Human Factors on the Fireline
- 44 • I-100 Introduction to ICS

- 1 All Responders filling ICS positions must have completed:
- 2 IS-700A NIMS: An Introduction¹
- 3 • Single Resource Personnel:
- 4 ICS-200 or equivalent
- 5 • Strike Team/Taskforce Leaders, Supervisors, and Branch Directors
- 6 IS-800B National Response Framework, An Introduction²
- 7 ICS-300 or equivalent
- 8 • Command and General Staff, Area Command and Emergency Managers:
- 9 IS-800B National Response Framework, An Introduction²
- 10 ICS-400 or equivalent

11

12 ¹IS-700A replaces IS-700. Either course meets the requirement.

13 ²IS-800B replaces IS-800A. Either course meets the requirement.

- 14 • *FS - Forest Service direction is found in FSH 5109.17.*

15

16 Annual Fireline Safety Refresher Training

17

18 Annual Fireline Safety Refresher Training is required for all positions as

19 identified in the *Wildland Fire Qualifications System Guide* (NWCG 310-1)

20 Annual Fireline Safety Refresher Training must include the following core

21 topics:

- 22 • **Avoiding Entrapments** - Use training and reference materials to study the
- 23 risk management process as identified in the Incident Response Pocket
- 24 Guide as appropriate to the participants, e.g., LCEs, Standard Firefighting
- 25 Orders, Eighteen Watch Out Situations, Wildfire Decision Support System
- 26 (WFSS) direction, Fire Management Plan priorities, etc.
- 27 • **Current Issues** - Review and discuss identified “hot topics” as found on the
- 28 current Wildland Fire Safety Training Annual Refresher (WFSTAR)
- 29 website. Review forecasts and assessments for the upcoming fire season
- 30 and discuss implications for firefighter safety.
- 31 • **Fire Shelter** - Review and discuss last resort survival including escape and
- 32 shelter deployment site selection. Conduct “hands-on” fire shelter
- 33 inspections. Practice shelter deployments in applicable crew/module
- 34 configurations.
- 35 • **Other Hazards and Safety Issues** - Choose additional hazard and safety
- 36 subjects, which may include SAFENET, current safety alerts, site/unit
- 37 specific safety issues and hazards.

38

39 These core topics must be sufficiently covered to ensure that personnel are

40 aware of safety concerns and procedures and can demonstrate proficiency in fire

41 shelter deployment. The minimum refresher training hour requirements for each

42 agency is identified below. Training time may be extended in order to

43 effectively complete this curriculum or to meet local training requirements.

44

45

- 1 • **BLM** - 4 hours
- 2 • **FWS/FS** - No minimum hourly requirement; core topics as shown above
- 3 will be covered.
- 4 • **NPS** - 8 hours

5
6 The Annual Fireline Safety Refresher Training course (RT-130) is not a self-
7 study course. Minimum requirements have been established for instructors for
8 Annual Fireline Safety Refresher Training. These requirements will ensure that
9 an appropriate level of expertise and knowledge is available to facilitate
10 refresher training exercises and discussions.

- 11 • Lead instructors must be a qualified single resource boss.
- 12 • Unit instructors must be qualified firefighter type one (FFT1).
- 13 • Adjunct instructors may be utilized to provide limited instruction in
14 specialized knowledge and skills at the discretion of the lead instructor.
15 They must be experienced, proficient and knowledgeable of current issues
16 in their field of expertise.

17
18 For additional information please refer to the current *NWCG Field Manager's*
19 *Course Guide* (PMS 901-1) at:
20 <http://www.nwcg.gov/pms/training/fmcg.pdf>.

21
22 Annual Fireline Safety Refresher Training will have a 12-month currency.
23 Firefighters who receive initial fire training are not required to take Annual
24 Fireline Safety Refresher Training in the same calendar year. A web site,
25 <http://www.nifc.gov/wfstar/index.htm>, titled *Wildland Fire Safety Training*
26 *Annual Refresher (WFSTAR)* is available to assist in this training.

27
28 Entrapment avoidance and deployment protocols are identified in the *Incident*
29 *Response Pocket Guide (IRPG)* (PMS No. 461/NFES No.1077). The guide
30 contains a specific "Risk Management Process" and "Last Resort Survival
31 Checklist".

- 32
33 • **BLM** - The "Do What's Right" training is required annual training but is
34 not a prerequisite for issuance of an *Incident Qualification Card*.

35 36 **Physical Fitness**

37 38 **Physical Fitness and Conditioning**

39 Agency administrators are responsible for ensuring the overall physical fitness
40 of firefighters. Employees serving in wildland fire positions that require a
41 fitness rating of arduous as a condition of employment are authorized one hour
42 of duty time each work day for physical fitness conditioning. Employees
43 serving in positions that require a fitness rating of moderate or light may be
44 authorized up to three hours per week.

45

1 Fitness conditioning periods may be identified and structured to include aerobic
2 and muscular exercises. Team sports are not authorized for fitness conditioning.
3 Chapters 5, 6, 7, 8, and 9 and appendices F, G, and H of *Fitness and Work*
4 *Capacity 2009 ed.* (PMS 304-2, NFES 1596) and the FireFit Program
5 (<http://www.nifc.gov/FireFit/index.htm>) provide excellent guidance concerning
6 training specifically for the pack test, aerobic fitness programs, and muscular
7 fitness training.

- 8 • *FS - Forest Service direction is found in FSH 5109.17. NFFE Partnership*
9 *bargaining unit employees may only be required to successfully complete*
10 *the WCT once per year.*
- 11 • *NPS – A fitness plan is required for all NPS personnel participating in a*
12 *fitness program (DO-57). For health and fitness purposes, those who are*
13 *fire-qualified at less than the Arduous fitness level are not required to meet*
14 *the mandatory fitness program requirements of DO-57 for wildland fire*
15 *management. They are strongly encouraged to participate in the voluntary*
16 *fitness program, and must still meet physical fitness/work capacity*
17 *requirements as outlined in the Wildland Fire Qualifications System Guide*
18 *(310-1) for positions with Moderate and Light fitness requirements.*

19 **Medical Examinations**

21 Agency administrators and supervisors are responsible for the occupational
22 health and safety of their employees performing wildland fire activities, and may
23 require employees to take a medical examination at any time.

24 Established medical qualification programs, as stated in 5 CFR 339, provide
25 consistent medical standards in order to safeguard the health of employees
26 whose work may subject them or others to significant health and safety risks due
27 to occupational or environmental exposure or demand.

28

29 Information on any medical records is considered confidential and must be kept
30 in the employee's medical file.

31

32 **Department of Interior Wildland Firefighter Medical Standards Program** 33 **(DOI/MSP) - Arduous Fitness Level**

34 All permanent, career-seasonal, temporary, Student Career Experience Program
35 (SCEP) employees, and AD/EFF who participate in wildland fire activities
36 requiring a fitness level of *arduous* must participate in the DOI-MSP at the
37 appropriate level (see Examination Matrix on the MSP website) and must be
38 cleared prior to attempting the WCT. Additional information regarding the
39 DOI-MSP can be obtained at http://www.nifc.gov/medical_standards/.

- 40 • *FS - Refer to current agency direction:*
41 *http://www.fs.fed.us/fire/safety/wct/wct_index.html*

42

43 If the HSQ or Annual Exam results in a status of "cleared", but the Servicing
44 Human Resource Officer (SHRO) or FMO has a direct concern about an
45 employee's/applicant's capacity to meet the physical or medical requirements of
46 a position, the agency may require the employee/applicant to report for a

1 specific medical evaluation. For more information, contact your SHRO or
2 agency Wildland Fire Safety Program Manager.

3
4 If any “yes” answer is indicated on the HSQ, an annual exam is required prior to
5 the employee taking the Arduous WCT. Cost of the exam will be covered at the
6 National level.

7
8 If the agency or examining clinician requests further medical testing, the agency
9 will be responsible for payment. Additional testing should be approved by the
10 agency prior to the procedure when possible. Additional testing or treatment
11 requested by the employee/applicant shall be at their own expense.

12
13 Employees or applicants who fail to meet the Federal Interagency Wildland
14 Firefighter Medical Qualification Standards as a permanent, seasonal/temporary,
15 or term employee may not perform as an AD/EFF for arduous duty positions.

16
17 If a Department of the Interior arduous duty wildland firefighter (WLFF)
18 develops a change in medical status (injury or illness) between yearly medical
19 exams or HSQs that prevents them from performing arduous duty lasting longer
20 than three consecutive weeks, the WLFF is required to report this change to
21 his/her supervisor who can request additional medical information and
22 reevaluate the WLFF clearance status.

- 23 • *NPS - The law enforcement medical exam for NPS rangers, who are*
24 *collateral duty wildland firefighters, will suffice for MSP clearance.*
- 25 • *NPS - Medical clearance must be entered into IQCS.*
- 26 • *FWS- Periodicity requirements for Refuge law enforcement examinations*
27 *will be applied to arduous duty wildland fire positions. Law enforcement*
28 *officers wishing to perform in NWCG PMS 310-1 or USFWS agency*
29 *specific wildland fire positions with an arduous fitness requirement must*
30 *pass the arduous work capacity test on an annual basis. The HSQ will be*
31 *used for off exam years prior to arduous work capacity testing.*

33 **Medical Exam Process for Light and Moderate Fitness Levels**

34 This section applies to employees who are only required to complete the WCT
35 at the light or moderate fitness level.

36
37 If any “Yes” answer is indicated on the HSQ, a medical examination is required
38 prior to the employee taking the WCT.

39
40 Medical examinations will be performed utilizing the *Certificate of Medical*
41 *Exam, U.S. Office of Personnel Management OF-178*. Stress EKGs are not
42 required as part of the medical examination and will only be approved if
43 recommended and administered by the medical examining physician. Cost for
44 exams will be borne by the home unit. If medical findings during exam require
45 further evaluation, then the cost of any further evaluation or treatment is borne

1 by the employee/applicant. Costs for additional tests specifically requested by
2 the agency will be borne by the home unit.

- 3 • *FS- Medical exams will be paid from a Washington Office fund code.*

4
5 If the SHRO or FMO has a direct concern about an employee's/applicant's
6 capacity to meet the physical or medical requirements of a position, the agency
7 may require the employee/applicant to report for a specific medical evaluation.
8 For more information, contact your SHRO or agency Wildland Fire Safety
9 Program Manager.

10
11 Standards for medical examinations using the OF-178 for light and moderate
12 positions are available at:
13 http://www.blm.gov/nifc/st/en/prog/fire/more/human_resources/forms.html

14
15 The examining physician will submit the completed OF-178 (and applicable
16 supplements) to the employee's servicing human resources office, where it will
17 be reviewed and retained in the employee's medical file.

- 18 • *NPS- The law enforcement medical exam for NPS rangers, who are*
19 *collateral duty wildland firefighters, will suffice for arduous, moderate, and*
20 *light fitness level clearance.*
- 21 • *FWS- Periodicity requirements for Refuge law enforcement examinations*
22 *will be applied to light or moderate. Law enforcement officers wishing to*
23 *perform in NWCG PMS 310-1 or USFWS agency-specific wildland fire*
24 *positions with a light or moderate fitness requirement must pass the*
25 *appropriate level work capacity test on an annual basis. The HSQ will be*
26 *used for off exam years prior to light or moderate work capacity testing.*

27
28 **Health Screen Questionnaire (HSQ)**
29 Title 5 CFR Part 339 - Medical Qualification Determinations, which provides a
30 determination of an individual's fitness-for-duty, authorizes solicitation of this
31 information.

32
33 The approved OMB Health Screen Questionnaire (HSQ) may be found at:
34 [http://www.nifc.gov/medical_standards/documents/NewExamProcess/5100-](http://www.nifc.gov/medical_standards/documents/NewExamProcess/5100-31.pdf)
35 [31.pdf](http://www.nifc.gov/medical_standards/documents/NewExamProcess/5100-31.pdf)

36
37 The information on the HSQ is considered confidential and once reviewed by
38 the test administrator to determine if the WCT can be administered, it must be
39 kept in the employee's medical file (EMF). This file may only be viewed by
40 Human Resource Management (HRM) or Safety personnel.

- 41 • *FS - See Work Capacity Tests for Wildland Fire Qualifications*
42 *Implementation Guide, see website:*
43 *http://www.fs.fed.us/fire/safety/wct/wct_index.html*

44
45
46

1 **Work Capacity Test (WCT) Categories**

2 The *NWCG Wildland Fire Qualification System Guide, PMS 310-1* identifies
 3 fitness levels for specific positions. There are three fitness levels - Arduous,
 4 Moderate, and Light - which require an individual to demonstrate their ability to
 5 perform the fitness requirements of the position. Positions in the “no fitness
 6 level required” category are normally performed in a controlled environment,
 7 such as an incident base.

8
 9 Law Enforcement physical fitness standard is accepted as equivalent to a “light”
 10 WCT work category.

11 **Work Capacity Test Categories**

WCT Category	Distance	Weight	Time
Arduous Pack Test	3 miles	45 lb	45 min.
Moderate Field Test	2 miles	25 lb	30 min
Light Walk Test	1 mile	None	16 min

13

- 14 • **Arduous** - Duties involve field work requiring physical performance with
 15 above average endurance and superior conditioning. These duties may
 16 include an occasional demand for extraordinarily strenuous activities in
 17 emergencies under adverse environmental conditions and over extended
 18 periods of time. Requirements include running, walking, climbing,
 19 jumping, twisting, bending, and lifting more than 50 pounds; the pace of the
 20 work typically is set by the emergency conditions.
- 21 • **Moderate** - Duties involve field work requiring complete control of all
 22 physical faculties and may include considerable walking over irregular
 23 ground, standing for long periods of time, lifting 25 to 50 pounds, climbing,
 24 bending, stooping, twisting, and reaching. Occasional demands may be
 25 required for moderately strenuous activities in emergencies over long
 26 periods of time. Individuals usually set their own work pace.
- 27 • **Light** - Duties mainly involve office type work with occasional field
 28 activity characterized by light physical exertion requiring basic good health.
 29 Activities may include climbing stairs, standing, operating a vehicle, and
 30 long hours of work, as well as some bending, stooping, or light lifting.
 31 Individuals can usually govern the extent and pace of their physical activity.

32

33 **Work Capacity Test (WCT) Administration**

34 The Work Capacity Test (WCT) is the official method of assessing wildland
 35 firefighter fitness levels. General guidelines can be found in the “*Work*
 36 *Capacity Tests for Wildland Firefighters, Test Administrator’s Guide*” PMS
 37 307, NFES 1109.

- 38 • **FS-** for FS direction on WCT administration, refer to “FS Work Capacity
 39 *Tests for Wildland Fire Qualifications Implementation Guide*” at
 40 http://www.fs.fed.us/fire/safety/wct/wct_index.html

- 1 WCT Administrators must ensure that WCT participants have been medically
2 cleared, either through Wildland Firefighter Medical Qualification Standards or
3 agency specific medical examination.
4
- 5 WCTs are administered annually to all employees, including AD/EFF who will
6 be serving in wildland fire positions that require a fitness level. The currency
7 for the WCT is 12 months.
- 8 • *FS- Currency for WCT is 13 months.*
9
- 10 The WCT Record (available online as Appendix O of this publication at
11 http://www.nifc.gov/policies/policies_main.html) captures information that is
12 covered under the Privacy Act and should be maintained in accordance with
13 agency Freedom of Information Act (FOIA) guidelines.
14
- 15 Administration of the WCT of non-federal firefighters is prohibited for liability
16 reasons. Potential emergency firefighters who would be hired under Emergency
17 Hire authority by the agency must be in AD pay status or sign an agency
18 specific volunteer services agreement prior to taking the WCT.
19
- 20 A Job Hazard Analysis (JHA) shall be developed and approved for each field
21 unit prior to administrating the WCT. Administer the test using the JHA/RA as
22 a briefing guide.
- 23 • *BLM - A risk assessment shall be developed and approved for each field
24 unit prior to administering the WCT. A RA for the WCT can be found at:
25 [http://web.blm.gov/portal/employeeresources/allemployees/safety/riskmana
26 gment.php](http://web.blm.gov/portal/employeeresources/allemployees/safety/riskmanagement.php)*
27
- 28 The local unit shall prepare a medical response plan (such as an ICS-206 form),
29 evaluate options for immediate medical care and patient transport, and identify
30 closest emergency medical services. A minimum of a qualified Medical First
31 Responder/Emergency Medical Responder (EMR) must be on site during WCT
32 administration. Based upon a thorough evaluation of potential medical
33 treatment and evacuation scenarios, a higher level of on-site emergency medical
34 qualifications and equipment may be warranted (e.g. Emergency Medical
35 Technician (EMT) or paramedic).
36
- 37 It is recommended that an Automatic External Defibrillator (AED) is on-site
38 during all WCTs.
- 39 • *FS- an AED is required on-site during all WCTs.*
40
- 41 Document the results using the WCT Record. This document must be retained
42 until the next testing. Units may also be requested to provide data from these
43 records to assist in the evaluation of the WCT process.
44
- 45 Personnel taking the WCT will only complete the level of testing (Pack, Field,
46 Walk) required by the highest fitness level identified for a position on their

1 Incident Qualification Card. Employees shall not take the WCT unless they
2 have an Incident Qualification Card qualification that requires it, and only at the
3 fitness level required by that position as identified in the NWCG 310-1 or
4 agency specific guidance or policy.

5
6 Treadmills are not approved for Work Capacity Testing.

7
8 Test results must also be entered in the IQCS annually to update the fitness level
9 and date that will appear on the Incident Qualification Card. Physical fitness
10 dates entered in IQCS will reflect the date the employee passed the fitness test.

- 11 • *FWS/NPS- Law Enforcement Officers are required to provide a copy of the*
12 *medical clearance for verification and tracking purposes to the appropriate*
13 *incident qualifications and certifications system (IQCS) account manager.*
14 *Account managers will reflect the appropriate examination type and*
15 *currency for the Law Enforcement Officer examinations in the physical*
16 *examinations portion of the IQCS system.*

17 18 **WCT Retesting**

19 Those who do not pass the WCT will be provided another opportunity to retest.
20 Employees will have to wait at least 48 hours before retaking the WCT. If an
21 employee sustains an injury (verified by a licensed medical provider) during a
22 test, the test will not count as an attempt. Once an injured employee has been
23 released for full duty, the employee will be given time to prepare for the test (not
24 to exceed 4 weeks). The numbers of retesting opportunities that will be allowed
25 include:

- 26 • Three opportunities for permanent employees required to pass a test for
27 duties in the fire program.
- 28 • One opportunity for temporary employees required to pass a test (a second
29 chance maybe provided at the discretion of fire management).

30 31 **Minimum Age Requirements for Hazardous Duty Assignments on Federal** 32 **Incidents**

33
34 Persons under 18 years old will not perform hazardous duties during wildland
35 fire management operations on federal jurisdictions.

36 37 **Engine Modules**

38
39 Staffing levels and specific requirements for engine personnel may be found in
40 Chapter 14, Fire Fighting Equipment.

41 42 **Helicopter Modules**

43
44 Staffing levels and specific requirements for helicopter personnel may be found
45 in Chapter 16, Aviation.

46

1 **Smokejumpers (SMKJ)**

2
 3 Smokejumpers provide professional and effective fire suppression, fuels
 4 reduction, and fire management services to help land managers meet objectives.

5
 6 **SMKJ Policy**

7 Smokejumper operations are guided by direction in the interagency section of
 8 the *Interagency Smokejumper Operations Guide (ISOG)*.

9
 10 Each base will comply with smokejumper operations standards. The arduous
 11 duties, specialized assignments, and operations in a variety of geographic areas
 12 require smokejumpers to have uniform training, agency approved equipment,
 13 communications, organization, and operating procedures.

14
 15 **SMKJ Communications**

16 All smokejumpers carry programmable radios and are proficient in their use and
 17 programming procedures.

18
 19 **SMKJ Training**

20 To ensure proficiency and safety, smokejumpers complete annual training that
 21 covers aspects of aviation, parachuting, fire suppression tactics, administrative
 22 procedures, and safety related to the smokejumper mission and fire operations.
 23 The training program for first-year smokejumpers is four weeks long.
 24 Candidates are evaluated to determine:

- 25 • Level of physical fitness
- 26 • Ability to learn and perform smokejumper skills
- 27 • Ability to work as a team member
- 28 • Attitude
- 29 • Ability to think clearly and remain productive in a stressful environment

30
 31 **SMKJ Qualifications**

Position	IQCS Target	SMKJ Training Target
Dept Managers	T1 and T2 C&G	
Spotter	ICT3, DIVS, ATGS RXB2, SOFR	
Lead Smokejumper	STLD, TFLD	Senior Rigger, FOBS
Smokejumper	ICT4, CRWB, FIRB	FEMO
Rookie Smokejumper	ICT5, FFT1	

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1 SMKJ Physical Fitness Standards

2 The national minimum standards for smokejumpers are:

- 3 • 1.5 mile run in 11:00 minutes or less
- 4 • 45 sit-ups
- 5 • 25 pushups
- 6 • 7 pull-ups
- 7 • 110 lb. packout over 3 miles/level terrain/90 minutes
- 8 • Successful completion of the WCT at the arduous level.

10 Interagency Hotshot Crews (IHC)

11
12 Interagency Hotshot Crews provide an organized, mobile, and skilled hand crew
13 for all phases of wildfire suppression. IHCs are comprised of 18-25 firefighters
14 and are used primarily for wildfire suppression, fuels reduction, and other fire
15 management duties. IHC's are capable of performing self-contained initial
16 attack suppression operations, and commonly provide incident management
17 capability at the Type 3 or 4 levels.

19 IHC Policy

20 IHC standards provide consistent planning, funding, organization, and
21 management of the agency IHCs. The sponsoring unit will ensure compliance
22 with the established standards. The arduous duties, specialized assignments, and
23 operations in a variety of geographic areas required of IHCs dictate that training,
24 equipment, communications, transportation, organization, and operating
25 procedures are consistent for all agency IHCs.

26
27 As per agency policy, all IHCs will be managed under the *Standards for*
28 *Interagency Hotshot Crew Operations (SIHCO)*.

- 29 • **BLM/NPS - BLM Preparedness Review Checklist #12 (Hotshot Crew)**
30 *supersedes the checklist found in the SIHCO.*

32 IHC Certification

33 The process for IHC certification is found in the *Standards for Interagency*
34 *Hotshot Crews (SIHCO)*, Chapter 5, page 14.

36 Annual Crew Pre-Mobilization Process

37 The superintendent of crews holding IHC status the previous season are required
38 to complete the Annual IHC Mobilization Checklist (SIHCO Appendix C) and
39 send the completed document to the local GACC prior to making the crew
40 available for assignment each season.

42 Annual IHC Readiness Review

43 On an annual basis the superintendent of crews holding IHC status the previous
44 season are required to complete the Annual IHC Preparedness Review (SIHCO
45 Appendix B). This process is designed to evaluate crew preparedness and
46 compliance with SIHCO. The annual review will be conducted while the crew

1 is fully staffed and operational. The review is not required prior to a crew being
2 made available for incident assignment at the beginning of their availability
3 period. When a review document is completed, the document is kept on file at
4 the local (host) unit fire management office.

5

6 **IHC Organization**

7 Individual crew structure will be based on local needs using the following
8 standard positions: Superintendent, Assistant Superintendent, Squad Leader,
9 Skilled Firefighter, and Crewmember.

- 10 • *BLM/NPS- IHCs have the option of traveling with 25 personnel when on*
11 *incident assignments as authorized by the local unit. IHC superintendents*
12 *will obtain prior approval from the dispatching GACC when the assignment*
13 *requires fixed wing transport and the crew size is greater than 20.*

14

15 **IHC Availability Periods**

16 IHCs will have minimum availability periods as defined in the *SIHCO*.
17 Availability periods may exceed the required minimum availability period. The
18 Crew Superintendent will inform the local supervisor and the GACC of any
19 changes in the crew's availability.

20

21 **IHC Communications**

22 IHCs will provide a minimum of five programmable multi-channel radios per
23 crew as stated in the *SIHCO*.

24

25 **IHC Transportation**

26 Crews will be provided adequate transportation. The number of vehicles used to
27 transport a crew should not exceed five. All vehicles must adhere to the
28 certified maximum Gross Vehicle Weight (GVW) limitations.

29

30 **Other Hand Crews**

31

32 **Policy**

33 All crews must meet minimum crew standards as defined below as well as any
34 additional agency, state, or contractual requirements. Typing will be identified
35 at the local level with notification made to the local GACC.

36

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1 MINIMUM CREW STANDARDS FOR NATIONAL MOBILIZATION			
Minimum Standards	Type 1	Type 2 with IA Capability	Type 2
Fireline Capability	Initial attack/can be broken up into squads, fire line construction, complex firing operations(backfire)	Initial attack/can be broken up into squads, fireline construction, firing to include burnout	Initial attack, fireline construction, firing as directed
Crew Size	18-20		
Leadership Qualifications	Permanent Supervision Supt: TFLD, ICT4, FIRB Asst Supt: STCR, ICT4 3 Squad Bosses: ICT5 2 Senior Firefighters: FFT1	Crew Boss: CRWB 3 Squad Bosses: ICT5	Crew Boss: CRWB 3 Squad Bosses: FFT1
Language Requirement	All senior leadership including Squad Bosses and higher must be able to read and interpret the language of the crew as well as English.		
Experience	80% 1 season	60% 1 season	20% 1 season
Full Time Organized Crew	Yes (work and train as a unit 40 hrs per week)	No	No
Communications	5 programmable radios	4 programmable radios	
Sawyers	3 agency qualified	3 agency qualified	None
Training	As required by the Interagency Hotshot Crew Guide or agency policy prior to assignment	Basic firefighter training and/or annual firefighter safety refresher prior to assignment	Basic firefighter training and/or annual firefighter safety refresher prior to assignment
Logistics	Crew level agency purchasing authority	No purchasing authority	No purchasing authority
Maximum Weight	5300 lbs		
Dispatch Availability	Available nationally	Available nationally	Variable
Production Factor	1.0	.8	.8
Transportation	Own transportation	Transportation needed	Transportation needed
Tools & Equipment	Fully equipped	Not equipped	Not equipped
Personal Gear	Arrives with: Crew First Aid kit, personal first aid kit, headlamp, 1 qt canteen, web gear, sleeping bag		
PPE	All standard designated fireline PPE		
Certification	Must be annually certified by the local host unit agency administrator or designee prior to being made available for assignment.	N/A	N/A

2

3 **Crew Types**4 • **Agency Crews**

5 Agency hand crews consist of qualified agency personnel and are organized
6 on a local basis. These crews are designated as Type 2 or Type 2 IA.

- 1 • **State Crews**
2 State crews are organized under the auspices of individual states. These
3 crews may be designated as Type 1, Type 2, or Type 2 IA. These crews
4 include organized state inmate crews.
- 5 • **Emergency Firefighter Crews (EFF)**
6 These crews are usually Type 2 crews consisting of agency sponsored on
7 call personnel who meet the requirements for Type 2 IA or Type 2 as
8 defined in above.
- 9 • **Contract Crews**
10 These organized crews consist of personnel trained, equipped, and certified
11 by a private contractor and must meet the contractual specifications as
12 stated in their state or national crew contracts.

13 14 **Wildland Fire Modules**

- 15
16 Information on wildland fire modules can be found at:
17 <http://www.nwccg.gov/pms/pubs/pubs317/PMS-317.pdf>.
- 18 • *NPS - The primary mission and priority of the modules is to provide skilled
19 and mobile personnel to assist with Wildland Fire Managed for Multiple
20 Objectives in the areas of planning, fire behavior monitoring, ignition, and
21 holding. Secondary priorities follow in the order below:*
- 22 ○ *Support burn unit preparation.*
 - 23 ○ *Assist with fire effect plot work.*
 - 24 ○ *Support mechanical hazardous fuel reduction projects.*
- 25 • *NPS - As an interagency resource, the modules are available nationally
26 throughout the fire season. Each module is comprised of a module leader,
27 assistant leader and three to eight module members. Modules are
28 mobilized and demobilized through established ordering channels through
29 the GACCs.*

30 31 **Agency Certified Positions**

- 32
33 As a supplement to the qualifications system, certain agencies have identified
34 the additional positions of Prescribed Fire Burn Boss 3 (RXB3) - see Chapter
35 17; Engine Operator (ENOP) - see Chapter 2; and Chainsaw Operators and
36 Fallers listed below.
- 37 • *FWS - See the Fire Management Handbook for agency specific position
38 information.*

39 40 **Chainsaw Operators and Fallers**

- 41 The agencies have established the following minimum qualification and
42 certification process for Chainsaw Operators (Incident Qualification Card
43 certified as Faller A):
- 44 • Agency employees who are chainsaw operators and fallers must be
45 minimally qualified as a FFT2 and meet the arduous fitness standards.

- 1 • Successful completion of S-212, including the field exercise, or those
2 portions of S-212 appropriate for Faller A duties.
- 3 • Agency Administrator (or delegate) certification of qualifications after
4 verification that training is successfully completed.
- 5 • Documentation must be maintained for individuals.
- 6 • The individual tasks required for completion of the “A” Task Book and the
7 final evaluation for the “A” level saw operators must be verified or signed
8 by a qualified “B” or “C” level saw operator.
- 9 • The individual tasks required for completion of the “B” Task Book must be
10 evaluated by a qualified “B” or “C” level operator. The Final Evaluator
11 Verification for “B” level operators must be signed by a “C” level saw
12 operator.
- 13 • The individual tasks required for completion of the “C” Task Book must be
14 evaluated by a qualified “C” level operator. The Final Evaluator
15 Verification for “C” level operators must be signed by a state approved “C”
16 level evaluator.
- 17 • Each of the states/regions will certify and maintain a list of their current “C”
18 class saw operators who they approve to be “C” class evaluators.
- 19 • The certification of “C” class evaluators will remain the responsibility of
20 the agency administrator or delegate.
- 21 • All fire related (Incident Qualification Carded) saw operation qualifications
22 are maintained through the IQCS system and will have a currency of five
23 years.
- 24 • **BLM/NPS/FWS - Position task book found at:**
25 *<http://www.nwcg.gov/pms/taskbook-agency/index.htm>*
- 26 • **FWS - See the Fire Management Handbook for additional direction.**
27 *Information regarding FWS required annual chainsaw refresher can be*
28 *found at: <http://sharepoint.fws.net/Programs/nifc/operations/default.aspx>.*
- 29 • **FS - FS direction can be found in FSH 5109.17 and FSH 6709.11.**
- 30 • **NPS - Exceptions to the above policy are:**
 - 31 ○ *Size classes used in the Faller A, Faller B, and Faller C Position Task*
32 *Book are guidelines and are not the determining factor in the*
33 *complexity of a tree felling operation. The size classes are to be used as*
34 *an evaluation tool during trainee evaluation. Chainsaw operators are*
35 *expected to conduct a thorough size up of each individual tree and*
36 *determine the extent of qualification required to safely perform a*
37 *felling operation.*
 - 38 ○ *The individual tasks required for completion of the “B” Task Book and*
39 *the final evaluation for the Class “B” saw operations must be verified*
40 *by a qualified Class “B” or “C” saw operator.*
 - 41 ○ *The individual tasks required for completion of the “C” Task Book*
42 *must be verified by a qualified “C” level operator.*
 - 43 ○ *Final evaluation of “C” level operators must be completed by a*
44 *regionally-approved “C” level evaluator.*

1 **Chapter 14**
2 **Firefighting Equipment**

3
4 **Introduction**

5
6 The agency wildland fire program equipment resources include engines, dozers,
7 water tenders, and other motorized equipment for fire operations.

8
9 **Policy**

10
11 Each state/region will comply with established standards for training,
12 equipment, communications, organization, and operating procedures required to
13 effectively perform arduous duties in multi-agency environments and various
14 geographic areas.

15
16 Approved foam concentrate may be used to improve the efficiency of water,
17 except near waterways where accidental spillage or over spray of the chemical
18 could be harmful to the aquatic ecosystem, or other identified resource concerns.

19
20 **Firefighting Engine/Water Tender Common Standards**

21
22 **Driving Standard**

23 Refer to driving standards in Chapter 07.

24
25 **Engine/Tactical Water Tender Water Reserve**

26 Engine/Tactical Water Tender Operators will maintain at least 10 percent of the
27 pumpable capacity of the water tank for emergency engine protection and
28 drafting.

29
30 **Chocks**

31 At least one set of wheel chocks will be carried on each engine/water tender and
32 will be properly utilized whenever the engine is parked or left unattended. This
33 includes engine/water tender operation in a stationary mode without a driver “in
34 place”.

35
36 **Fire Extinguisher**

37 All engines/water tenders will have at least one 5 lb. ABC rated (minimum) fire
38 extinguisher, either in full view or in a clearly marked compartment.

39
40 **Nonskid Surfaces**

41 All surfaces will comply with National Fire Protection Association (NFPA)
42 1906 Standard for Wildland Fire Apparatus requirements.

43

44

45

1 First Aid Kit

2 Each engine/water tender shall carry, in a clearly marked compartment, a fully
3 equipped 10-person first aid kit.

4

5 Gross Vehicle Weight (GVW)

6 Each engine and water tender will have an annually certified weight slip in the
7 vehicle at all times. Weight slip will show individual axle weights and total
8 GVW. Operators of engines and water tenders must ensure that the maximum
9 certified gross vehicle and axle weight ratings are never exceeded, including
10 gear, personnel, and fuel. The NFPA 1906 standard of 250 pounds per seat
11 position for each person and their personal gear will be used to calculate the
12 loaded weight.

- 13 • *FS - Refer to FSH 7109.19, Chapter 30 for calculation of Rough Road*
14 *Factor reduction for driving on rough or unsurfaced roads.*
- 15 • *NPS - A copy of the annual certified weight slip must be sent to the Fire*
16 *Equipment and Facilities Specialist at the FMPC in Boise prior to the*
17 *vehicle being put into service each season.*

18

19 Speed Limits

20 Posted speed limits will not be exceeded.

21

22 Lighting

23 Headlights and taillights shall remain illuminated at all times while the vehicle is
24 in motion. All new orders for fire engine apparatus will include an overhead
25 lighting package in accordance with agency standards. Lighting packages will
26 meet NFPA 1906 standards (6.8, 2006 edition). Engines currently in service
27 may be equipped with overhead lighting packages. A red, white, and amber
28 combination is the accepted color scheme for fire. Lighting packages containing
29 blue lights are reserved for law enforcement and are not allowed on fire
30 vehicles.

31

32 Emergency Light Use

33 Emergency lighting will be used only during on site wildland fire operations or
34 to mitigate serious safety hazards. Overhead lighting and other emergency
35 lighting must meet state code requirements, and will be illuminated whenever
36 the visibility is reduced to less than 300 feet.

- 37 • *DOI- See agency chapters or policy for specific guidance.*
- 38 • *FS- See FSM 5120 and 5130 for red lights and siren policy.*

39

40 Fire Engine Maintenance Procedure and Record

41 Apparatus safety and operational inspections will be accomplished either on a
42 post-fire or daily basis. Offices are required to document these inspections.
43 Periodic maintenance (as required by the manufacturer) shall be performed at
44 the intervals recommended and properly documented. All annual inspections

1 will include a pump gallons per minute (GPM) test to ensure the pump/plumbing
 2 system is operating at desired specifications.

3

4 **Firefighting Engines**

5

6 **Operational Procedures**

7 All engines will be equipped, operated, and maintained within guidelines
 8 established by the Department of Transportation (DOT), regional/state/local
 9 operating plans, and procedures outlined in *BLM Manual H-9216, Fire*
 10 *Equipment and Supply Management*, or agency equivalent. All personnel
 11 assigned to agency fire engines will meet all gear weight, cube, and manifest
 12 requirements specified in the *National Mobilization Guide*.

13

14 **Engine Typing**

15 Engine typing and respective standards have been established by NWCG.

16

Engine Type							
Components	Structure Engines		Wildland Engines				
	1	2	3	4	5	6	7
Tank Minimum Capacity (gal)	300	300	500	750	400	150	50
Pump Minimum Flow (gpm)	1000	500	150	50	50	50	10
@ Rated Pressure (psi)	150	150	250	100	100	100	100
Hose 2 1/2"	1200	1000	-	-	-	-	-
1 1/2"	500	500	1000	300	300	300	-
1"	-	-	500	300	300	300	200
Ladders per NFPA 1901	Yes	Yes	-	-	-	-	-
Master Stream 500 gpm Min.	Yes	-	-	-	-	-	-
Pump and Roll	-	-	Yes	Yes	Yes	Yes	Yes
Maximum GVWR (lbs)	-	-	-	-	26,000	19,500	14,000
Personnel (NWCG min.)	4	3	3	2	2	2	2

17 • *FS - See <http://www.fs.fed.us/fire/equipment/engine-models/models.html> for*
 18 *description of Forest Service national engine standards.*

19

20

1 **Fire Engine Staffing**

2 An ENGB will be with every engine, and the minimum staffing is two
 3 individuals for Type 4, 5, 6, 7, engines.

4

5 For Type 3 engines, minimum staffing is three individuals, including an Engine
 6 Boss.

- 7 • **BLM** - For BLM engine staffing requirements, see Chapter 2.
- 8 • **FWS** - Minimum staffing for Type, 6 and 7 engines (on Refuge lands) is one
 9 ENOP and one FFT2. A minimum of one ICT5 must be available on the
 10 engine crew.
- 11 • **NPS** - For NPS engine staffing requirements see Chapter 3.
- 12 • **FS** - A Single Resource Boss may supervise a type 6 or 7 engine.

13

14 **Engine Inventories**

15 An inventory of supplies and equipment carried on each vehicle is required to
 16 maintain accountability and to obtain replacement items lost or damaged on
 17 incidents. The standard inventory for engines is found in Appendix M.

18

19 **Water Tenders**

20

21 **Water Tender Typing**

22 Water tender typing and respective standards have been established by NWCG.

23

Requirements	Water Tender Type				
	Support			Tactical	
	S1	S2	S3	T1	T2
Tank Capacity (gal)	4000	2500	1000	2000	1000
Pump Minimum Flow (gpm)	300	200	200	250	250
@Rated Pressure (psi)	50	50	50	150	150
Max. Refill Time (mins)	30	20	15	-	-
Pump and Roll	-	-	-	Yes	Yes
Personnel (min)	1	1	1	2	2

24

25

26

27

28

1 **Water Tender Staffing Standards**

2 • **Water Tender (Non-Tactical)**

- 3 ○ **Qualifications:** CDL (tank endorsement).
- 4 ○ **Staffing:** A water tender (non-tactical) may be staffed with a crew of
- 5 one driver/operator when it is used in a support role as a fire engine
- 6 refill unit or for dust abatement. These operators do not have to pass
- 7 the Work Capacity Test (WCT) but are required to take annual
- 8 refresher training.

9 • **Water Tender (Tactical)**

10 Tactical use is defined as “direct fire suppression missions such as pumping
11 hoselays, live reel use, running attack, and use of spray bars and monitors to
12 suppress fires”.

13 ○ **Qualifications:**

- 14 ▪ **BLM- ENOP, CDL** (tank endorsement)
- 15 ▪ **FS- FFT1, CDL**

16 ○ **Staffing:** Tactical water tenders will carry a minimum crew of two:

- 17 ▪ **BLM- One ENOP and One Engine Module Member**
- 18 ▪ **FS- One FFT1 and One FFT1/FFT2 firefighter**

19

20 **Dozers/Tractor Plows**

21

22 **Dozer/Tractor Plow Training and Qualifications**

23 Agency personnel assigned as dozer/tractor plow operators will meet the
24 training standards for a Firefighter 2 (FFT2). This includes all safety and annual
25 refresher training. While on fire assignments, all operators and support crew
26 will meet PPE requirements including the use of aramid fiber clothing, hard
27 hats, fire shelters, boots, etc.

28

29 **Dozer/Tractor Plow Physical Fitness Standards**

- 30 • **BLM/NPS** - All employee dozer/tractor plow operators will meet the WCT
31 requirements at the Moderate level before accepting fire assignments.
- 32 • **FWS** - See the Fire Management Handbook
- 33 • **FS** - FS dozer operators refer to FSM 5134.32.

34

35 **Dozer/Tractor Plow Operational Procedures**

- 36 • Agency owned and operated dozer/tractor plows will be equipped with
37 programmable two-way radios, configured to allow the operator to monitor
38 radio traffic.
- 39 • Agency dozer/tractor plows with non-red carded operators and all contract
40 dozer/tractor plows will have agency supplied supervision when assigned to
41 any suppression operations.
- 42 • Contract or offer-for-hire dozers must also be provided with radio
43 communications, either through a qualified dozer/tractor plow boss or an

- 1 agency-supplied radio. Contract dozer/tractor plows will meet the
2 specifications identified in their agreement/contract.
- 3 ● Operators of dozer/tractor plows and transport equipment will meet DOT
4 certifications and requirements regarding the use and movement of heavy
5 equipment, including driving limitations, CDL requirements, and pilot car
6 use.

8 **All Terrain Vehicles (ATV)/Utility-Terrain Vehicles (UTV)**

9
10 The operation of ATV/UTV can be high risk. The use of ATV/UTVs should be
11 evaluated to ensure that use is essential to accomplish the mission, rather than
12 for convenience.

13
14 Because of the high risk nature, agencies have developed specific operational
15 policy (refer to current agency policy). Common policy requirements for
16 wildland fire operations are highlighted below:

- 17 ● A JHA/RA must be completed and approved by the supervisor prior to
18 vehicle operation.
- 19 ● All personnel authorized to operate an ATV/UTV must first complete
20 agency specific or manufacturer-provided training in safe operating
21 procedures and appropriate PPE.
- 22 ● Re-evaluation/Re-certification - Operators shall be re-evaluated every three
23 years. Infrequent users (less than 16 hours of riding a year) shall have a
24 check ride prior to scheduled use of an ATV/UTV.
- 25 ● Specific authorization for ATV/UTV use is required -- all ATV/UTV
26 operations must hold a valid Motor Vehicle Operator's Identification Card,
27 OF-346 or agency equivalent.
 - 28 ○ *DOI- Upon completion of agency-specific ATV/UTV training and*
29 *operator certification requirements, All-Terrain Vehicle Operator*
30 *(ATVO) will be placed on the employee's Incident Qualification and*
31 *Certification (IQCS) Card (Red Card). IQCS Certifying Officials are*
32 *responsible for verifying that ATV/UTV operator qualifications are*
33 *current, and that the ATVO qualification is removed from the Red Card*
34 *if agency-specific training, certification, or currency requirements*
35 *lapse.*
 - 36 ○ *NPS- All Off-Highway Vehicle (OHV) operators (including ATV/UTV)*
37 *must hold a valid state Motor Vehicle Operator's Permit. Operating*
38 *restrictions identified on the operator's permit must be adhered to*
39 *while operating an OHV (e.g., use of corrective lenses, etc). NPS ATV*
40 *operators must be qualified at either the Basic or Advanced Level as*
41 *described in RM-50B depending on the hazard potential of the*
42 *operation. All ATV operators shall be provided refresher training each*
43 *year in accordance with a JHA and reevaluated by an ASI Certified*
44 *Trainer every 3 years. The reevaluation shall be documented. RM-*

- 1 50B, Appendix B (ATV Operator Accountability/Certification Tracking
2 Record) may be used to document the reevaluation. Further
3 information on ATV/UTV use is found in RM-50B.
- 4 ● ATVs can only have a single rider – passengers are prohibited even if ATV
5 is designed for two riders.
 - 6 ● UTVs passengers are limited to the number of seats installed by
7 manufacturer. The operator and passenger(s) must use seatbelts while the
8 vehicle is in motion.
 - 9 ● Operators must use required PPE while loading/unloading ATV/UTV.
 - 10 ● Cargo loads shall be loaded and secured as to not affect the vehicle’s center
11 of gravity, and shall not exceed manufacturer’s recommendations for
12 maximum carrying capacity.
 - 13 ● When transporting external fuel containers with a UTV, a 5 lb class BC fire
14 extinguisher must be secured to the UTV.

15
16 **Required PPE includes:**

17 **ATV Head Protection for Wildland Fire Operations:**

- 18 ● ATV Helmets must meet Snell SA2005 or SA2010 certification.
 - 19 ○ A ¾ face model meeting Snell SA2005 or SA2010 certification is
20 acceptable for use.
 - 21 ○ Use of half “shorty” helmets requires a JHA/RA for fireline use and
22 must include justification for its use. Refer to MTDC Tech Tip
23 publication, *A Helmet for ATV Operators with Fireline Duties* (0651-
24 2350-MTDC).

25
26 **UTV Head Protection for Wildland Fire Operations:**

- 27 ● Helmets must meet DOT, ANSI Z90.1; or Snell SA2005 or SA2010 unless:
 - 28 ○ UTV is used for low speeds and smooth travel surfaces, administrative
29 use (e.g., campgrounds, incident base camps) UTV operators are not
30 required to wear hardhats or helmets.
 - 31 ■ *FWS- Refer to 243 FW 6.*
 - 32 ○ UTV is equipped with approved Rollover Protection System (ROPS),
33 and:
 - 34 ■ *BLM – A comprehensive and properly prepared RA of the specific*
35 *conditions demonstrates no more than a medium residual risk*
36 *level, then a hard hat meeting NFPA 1977 or ANSI Z 89.1*
37 *standards may be worn with chin straps secured in place under*
38 *chin.*
 - 39 ■ *NPS - Approved helmets are required for UTV operations that are*
40 *rated moderate (amber) or high (red) using the “ORV Risk*
41 *Assessment Tool” included in the NPS Off-Highway Vehicle*
42 *Policy.*
 - 43 ■ *FWS- A hardhat meeting NFPA 1977 or ANSI Z 89.1 standards may*
44 *be worn with chin straps secured in place.*

- 1 ▪ **FS- UTV Helmet (for fire use) – Helmets must have Snell SA**
2 *certification. Wearing hardhats while driving or riding on a UTV*
3 *is not allowed. Forest Service policy provides no exception to the*
4 *helmet requirement for low speeds, smooth travel surfaces, or*
5 *administrative use (FSH 6709.11, Chapter 10).*
6

7 Eye protection (goggles, face shield, or safety glasses) based upon JHA/RA.

- 8 ○ Eye protection is not required for a UTV equipped with an original
9 manufacturer windshield that protects the face from branches, flying
10 debris, etc., unless otherwise required by an associated industrial use
11 activity or JHA/RA.

12
13 If operating ATV/UTV on the fireline, the following are required:

- 14 ○ Leather or leather/flame resistant combination gloves. Flight gloves
15 are not approved for fireline use.
16 ○ Yellow aramid shirt
17 ○ Aramid trousers
18 ○ Wildland fire boots
19 ○ Appropriate head protection as described above
20 ▪ **FS- Shirt, trousers, and gloves used by USFS personnel must meet**
21 *Forest Service specification 5100-91(shirt), 5100-92 (trousers),*
22 *and 6170-5 (gloves) or be certified to the National Fire Protection*
23 *Association (NFPA) 1977, Standard on Protective Clothing and*
24 *Equipment for Wildland Fire Fighting.*
25

26 ATV/UTV operator shall carry a personal communication device (e.g. two-way
27 radio, cellular phone, or satellite phone).

28 All other ATV/UTV specific guidance is found in the respective agency's
29 policy:

- 30 ○ **BLM** - Refer to *BLM Manual 1112-1, Chapter 27 Off-Highway*
31 *Vehicles.*[http://web.blm.gov/portal/employeeresources/allemployees/saf](http://web.blm.gov/portal/employeeresources/allemployees/safety/policy.php)
32 *ety/policy.php*
33 ○ **FWS** - Refer to 243 FW 6.
34 ○ **NPS** - Refer to *Reference Manual 50B Occupational Health and Safety,*
35 *Section 6.1 Off-Highway Vehicle Safety*
36 [http://inside.nps.gov/waso/custommenu.cfm?lv=2&prg=46&id=5898.](http://inside.nps.gov/waso/custommenu.cfm?lv=2&prg=46&id=5898)
37

38 **Vehicle Cleaning/Noxious Weed Prevention**

39
40 Refer to Chapter 11 for guidance on minimizing potential transmission of
41 invasive species.
42
43
44
45

1 Incident Remote Automated Weather Stations

2
3 Incident Remote Automated Weather Stations (IRAWS – NFES 5869) are
4 readily deployable, portable weather stations that may be utilized in unprepared
5 locations to monitor local weather conditions. IRAWS are intended for use on or
6 near the fireline or at other all-risk incidents, and are installed and operated as
7 desired by Fire Behavior Analysts (FBAN) and/or Incident Meteorologists
8 (IMET) to record and distribute real time weather data.

9
10 National resource IRAWS systems are cached at the National Interagency Fire
11 Center (NIFC) and may be ordered through standard equipment resource
12 ordering systems. Following release from an incident, these stations must be
13 returned to the Remote Sensing/Fire Weather Support Unit (RSFWSU) at NIFC
14 for maintenance, recalibration, and redeployment.

16 Aerial Ignition Devices

17
18 Information on types of aerial ignition devices, operational guidelines, and
19 personnel qualifications may be found in the *Interagency Aerial Ignition Guide*.

21 Ground Ignition Devices and Transporting/Dispensing Fuel

22
23 For ground ignition devices: Follow the *Interagency Ground Ignition Guide*
24 (PMS 443) for operational guidelines, personnel qualifications, and equipment
25 selection.

26
27 For transporting and dispensing fuel: Follow the *Interagency Transportation*
28 *Guide for Gasoline, Mixed Gas, Drip-Torch Fuel, and Diesel* (PMS 442). These
29 guides are posted at <http://www.nwcg.gov/pms/pubs/pubs.htm>.

- 30 • *FS - direction is found in FSH 5109.32a and 6709.11.*

Chapter 15 Communications

Policy

Agency specific policies for radio communications may be found in:

- *Department of Interior, Department Manual, Radio Communications Handbook (377 DM).*
- *USDA Forest Service Handbook (FSH 6609.14 chapters 10-40 and Forest Service Manual (FSM) 6600 Systems Management Chapter 6640 - Telecommunications.*

Dispatch Recording Devices

Recording of phone calls without all party's prior knowledge and consent is not permitted. Recording of radio traffic is appropriate.

- **BLM** – *Radio recording devices will be used by BLM dispatch offices or any interagency office dispatching BLM resources.*

Cellular/Satellite Phone Communications

Cellular/satellite telephones will not be used to communicate tactical or operational traffic unless no other means are available. Cellular/satellite telephones will not be used for flight following in lieu of normal flight following procedures. Telephone communications may be used for logistical purposes.

- **BLM/FWS/NPS-** *Employees, volunteers, and contractors (for BLM, this includes co-operators) are prohibited from using any mobile voice/data communication or electronic data retrieval device while operating a government owned, leased, or rented vehicle or while operating a personally-owned vehicle for official government business, and are further prohibited from using any government-owned mobile communication or data retrieval device while operating a personally-owned vehicle. Government purchased two-way radios are exempt from this requirement. The use of any of these devices during an emergency situation (immediate threat to life) is limited to the extent necessary to convey vital information. When there is a passenger in the vehicle and the vehicle is in motion, the passenger shall manage communications to prevent driver distraction.*
- **FS-** *Drivers shall not engage in cellular phone or mobile radio communications while the vehicle is in motion unless actively engaged in an emergency such as wildland firefighting. During non-emergency situations, the driver shall identify a safe location to stop the vehicle and then engage in cellular phone or mobile radio communications. These restrictions apply whether or not hands-free technology is available.*

1 Radio Communications

2

3 Radio communications provide for the flow of tactical information needed for
4 the command/control of personnel and resources.

- 5 • **BLM/FWS-** *To ensure safe and efficient suppression operations, all*
6 *BLM/FWS fire resources will use a standard GPS datum and*
7 *latitude/longitude (coordinate) format when communicating GPS*
8 *references. The standard datum is WGS84, and the standard coordinate*
9 *format is Degrees Decimal Minutes (DDM). For other activities (e.g.*
10 *mapping, fire reporting, planning), agency standards will apply.*

11

12 Radio Contracts

13

14 For information on contracts, software, hardware requirements and approved
15 radios, contact your agency Telecommunications Department or the National
16 Interagency Fire Center Communications Duty Officer (NIFC CDO) at (208)
17 387-5644.

- 18 • **BLM -** *For information on BLM contracts, software, and hardware*
19 *requirements and approved radios, contact the Branch of Radio Operations*
20 *(FA-350) at (208) 387-5830.*

21

22 Radio Frequency Management

23

24 FM frequencies are authorized and assigned by the designated Washington
25 Office frequency manager and managed by the state and local Communications
26 Officers. Frequencies shall not be used without express permission from the
27 local, state, regional, or national level designated frequency management
28 personnel.

29

30 Daily Operational Frequency Management

31 Frequency assignments for normal day to day and initial attack operations are
32 made on a permanent basis and are requested through the normal Radio
33 Frequency Authorization process from the local, state, regional or national level
34 designated frequency management personnel.

35

36 Air operations initial attack frequencies, both AM and FM, will be assigned by
37 the NIFC CDO. These assignments will be on an interagency basis and
38 coordinated with the Geographic Area Coordination Centers (GACCs).

39

40 Mutual Aid Frequency Management

41 Mutual-aid frequency sharing agreements can be made at the local level.
42 However, mutual-aid frequency sharing agreements are only valid in the specific
43 location where they originated. These agreements do not authorize the use of a
44 shared frequency other than in the specified local area.

45

1 NIFC national fire frequencies are not to be used for these agreements. The
2 only exception may occur when an agency holds a National
3 Telecommunications Information Agency (NTIA) Radio Frequency
4 Authorization (RFA) for a frequency that is included in the NIFC Channeling
5 Plan. If this occurs, notification and coordination with the NIFC CDO is
6 requested.

7

8 **Incident Frequency Management**

9 National level coordination and assignments of incident frequencies is the
10 responsibility of the National Interagency Incident Communications Division
11 (NIICD) and is managed by the NIFC CDO.

12

13 When communications requirements exceed normal operations, the NIFC CDO
14 may request that GACCs assign a Communication Coordinator (COMC) to
15 facilitate geographic area frequency management. Additional information may
16 be found in the *National Interagency Mobilization Guide*.

- 17 • Type 1 and 2 incident frequencies are assigned by the NIFC CDO and are
18 managed by a qualified Communications Unit Leader (COML). The
19 COML will request, assign, and report all frequencies used on the incident
20 to the NIFC CDO/COMC. This will include the request and assignment of
21 all aircraft frequencies. Frequency use will be documented on the ICS-205
22 Incident Radio Communications Plan and on ICS-220 Air Operation
23 Summary forms. These completed forms will be made available to incident
24 personnel.
- 25 • Type 3 incidents, or other incidents that do not have an assigned COML,
26 will coordinate and request all frequency and communication equipment
27 needs through the COMC and/or the NIFC CDO.

28

29 If additional frequencies are required, the COML will order them through the
30 established ordering process.

31

32 Additional frequencies for any operation may be available on a temporary basis,
33 and may be requested by the NIFC CDO from the Washington Office Spectrum
34 managers when:

- 35 • The NIICD national frequencies are all committed within a specific
36 geographic area.
- 37 • New incidents within a specific complex create a need for additional
38 frequencies.
- 39 • The fire danger rating is extreme and the potential for additional new
40 incidents is high.
- 41 • When there is frequency congestion due to significant numbers of incidents
42 in close proximity.

43

44

45

46

1 Aviation Operations Frequency Management

- 2 • Air to Air initial attack –AM frequencies are assigned yearly to the GACC’s
3 by the NIFC CDO in coordination with the Federal Aviation Administration
4 (FAA). Once assigned, management of those frequencies is the
5 responsibility of the GACC and may be allocated to zones. Frequencies
6 allocated to zones for initial attack are not to be dedicated for project fire
7 use. If additional frequencies are required, they must be requested from and
8 assigned by the NIFC CDO.
- 9 • Air to Ground –FM frequencies will be assigned and coordinated by the
10 NIFC CDO and agency frequency managers.

11
12 Both AM and FM aviation frequency assignments will be used on an
13 interagency basis and a master record of these assignments is maintained by the
14 NIFC CDO. Updated frequency information is coordinated annually with the
15 GACC’s.

17 Pre-assigned National Frequencies**19 National Air Guard Frequency (168.6250 MHz)**

20 A National Interagency Air Guard frequency for aircraft will be used for
21 emergency aviation communications. Continuous monitoring of this frequency
22 in narrowband mode is mandatory by agency dispatch centers. Transmission on
23 this frequency must include the Continuous Tone Coded Squelch System
24 (CTCSS) tone of 110.9 Hz.

25
26 This frequency, 168.6250 MHz is restricted to the following use:

- 27 • Air-to-air emergency contact and coordination.
28 • Ground-to-air emergency contact.
29 • Initial call, recall, and re-direction of aircraft when no other contact
30 frequency is available.

32 National Flight Following Frequency (168.6500 MHz)

33 The National Flight Following Frequency is used to monitor interagency and
34 contract aircraft. This frequency is used for flight following and official aircraft
35 flying point to point; it is not to be used during mission flights or incident
36 operations.

37
38 All dispatch centers/offices will monitor the national flight following frequency
39 at all times. A CTCSS tone of 110.9 must be placed on the transmitter and
40 receiver of the National Flight Following frequency.

41
42 This frequency 168.6500 MHz is restricted to the following use:

- 43 • Flight following, dispatch, and/or re-direction of aircraft.
44 • Air-to-ground and ground-to-air administrative traffic.

- 1 • Not authorized for ground-to-ground traffic.

2

3 **National Interagency Air Tactics Frequencies (166.6750 MHz, 167.9500**
4 **MHz, 169.1500 MHz, 169.2000 MHz, 170.0000 MHz)**

5 These frequencies are used to support air-to-air or ground-to-air
6 communications on incidents west of the 95th meridian. These frequencies shall
7 be used for air-to-air and ground-to-air communications only. They are not for
8 use as ground tactical operational frequencies.

9

10 Transmitter power output of radios installed in aircraft utilizing these
11 frequencies shall be limited to 10 watts. Use of these frequencies in base stations
12 and repeaters is prohibited.

13

14 These frequencies will be assigned by the NIFC CDO or in coordination with
15 the local unit if a NTIA-RFA is in effect.

16

17 **National Interagency Airtanker Base Frequency (123.9750 MHz)**

18 This frequency is assigned by the FAA to all airtanker bases (unless otherwise
19 notified) for exclusive use. Use of this frequency is restricted to a radius of 40
20 nautical miles and 10,000 feet MSL from the coordinates of the airtanker base.
21 No other use is authorized.

22

23 **Government-wide Area Common User Frequencies (163.1000 MHz,**
24 **168.3500 MHz)**

25 These frequencies are used on a non-interference basis and are not exclusive to
26 any user. These frequencies are not to be used for air-to-ground operations and
27 are prohibited by DOI and USDA from use as a frequency during operations
28 involving the protection of life and property.

- 29 • **NOTE:** When traveling between incidents, be sure to monitor for incident
30 radio traffic in the area before using these frequencies.

31

32 **National Interagency Fire Tactical Frequencies(168.0500 MHz, 168.200**
33 **MHz, 168.6000 MHz, 168.2500 MHz, 166.7250 MHz, 166.7750 MHz)**

34 These frequencies are used to support ground tactical operations (line of sight)
35 on incidents.

36

37 They are not authorized for:

- 38 • Air to air communications
39 • Air to ground communications
40 • Mobile radios with more than 5 watts output power
41 • Base stations
42 • Repeater frequencies

43

44 Use of these frequencies will be coordinated between the COML and the NIFC
45 CDO/COMC. Power output is limited to 5 watts or less.

46

1 Incident Radio Support

2

3 All National Incident Radio Support Cache (NIRSC) communications
4 equipment will be returned to NIRSC at NIFC immediately after the incident is
5 turned over to the jurisdictional agency.

6

7 No cache communications equipment shall be moved from one incident to
8 another without being first returned to NIRSC for refurbishment. Unused and
9 red-sealed equipment may be moved, but only upon approval of the NIFC CDO
10 or COMC.

11

12 Military Communications on an Incident

13

14 Military units assigned to an incident have been assigned radios. Each battalion
15 has 80 handheld radios. Sixteen of these radios are used by military crew
16 liaisons. Intercrew communications within a military unit is provided by the
17 military on their radios using their frequencies. All frequency assignments at
18 the incident will be made by the COML in accordance with the ICS-205.
19 Some units have aviation VHF-FM radios compatible with civilian systems.
20 Other units are adapting their aircraft for the civilian radios and can be easily
21 outfitted prior to dispatch to an incident. A limited number of wiring harnesses
22 are available at NIICD for those military aircraft not having civilian VHF-FM
23 capability. Wiring harnesses and radios will be resource ordered by the incident.
24 The resource order will include a request for qualified personnel from NIICD to
25 perform the installation of the equipment. Equipment will not be sent without
26 qualified personnel to install it.

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Chapter 16 Aviation Operations and Resources

Purpose and Scope

Aviation resources are one of a number of tools available to accomplish fire related land management objectives.

Aviation use must be prioritized based on management objectives and probability of success.

The effect of aviation resources on a fire is directly proportional to the speed at which the resource(s) can initially engage the fire, the effective capacity of the aircraft, and the deployment of ground resources.

These factors are magnified by flexibility in prioritization, mobility, positioning, and utilization of the versatility of many types of aircraft.

Risk management is a necessary requirement for the use of any aviation resource. The risk management process must include risk to ground resources, and the risk of not performing the mission, as well as the risk to the aircrew.

Organizational Responsibilities

National Office

Department of Interior (DOI)

Aviation Management Directorate (AMD)

The Aviation Management Directorate of the National Business Center is responsible for the coordination of aviation policy development, aircraft acquisition, financial services, and maintenance management within the agencies of the Department of the Interior (DOI). AMD has no operational responsibility. AMD provides aviation safety program oversight, accident investigation, and inspection/approval of aircraft and pilots for DOI agencies.

Bureau of Land Management (BLM)

National Aviation Office (NAO) - NAO develops BLM policy, procedures, and standards. It also maintains functional oversight, and facilitates interagency coordination for all aviation activities. The principal goals are safety and cost-effectiveness. The NAO supports BLM aviation activities and missions. This includes fire suppression, through strategic program guidance, managing aviation programs of national scope, coordination with AMD, and interagency partners. The Fire and Aviation Directorate has the responsibility and authority, after consultation with State Fire Management Officers, for funding and acquisition of all fire aircraft, prioritizing the allocation of BLM aircraft on a Bureau wide basis, and approving State Office requests to acquire supplemental

1 aircraft resources. Refer to *BLM National Aviation Plan and Manual 9400* for
2 aviation policy and guides. (Refer to 112 DM 12 for a list of responsibilities.)

3

4 **Forest Service (FS)**

5 The FS has responsibility for all aspects of its aviation program, including
6 aviation policy development, aircraft acquisition, and maintenance management.
7 In addition, the FS has operational responsibility including development of
8 aviation procedures and standards, as well as functional oversight of aviation
9 assets and facilities, accident investigation, and aircraft and pilot inspection.

10

11 The Assistant Director (AD), Aviation, is responsible to the Director of Fire and
12 Aviation Management for the management and supervision of the National
13 Headquarters Office in Washington DC, and the detached Aviation Unit in
14 Boise. The AD, Aviation provides leadership, support and coordination for
15 national and regional aviation programs and operations. (Refer to FSM 5704.22
16 for list of responsibilities.)

17 The Branch Chief, Aviation Operations reports to the AD, Aviation, and is
18 responsible for national aviation operational management and oversight.

19

20 The Branch Chief, Airworthiness reports to the AD, Aviation, and is responsible
21 for national aircraft worthiness and maintenance program management and
22 oversight.

23

24 The Branch Chief, Aviation Risk Management reports to the AD, Risk
25 Management and Training and is responsible for the national aviation safety and
26 risk management program and oversight.

27

28 **State/Regional Office**

- 29 • *BLM - State FMOs are responsible for providing oversight for aircraft*
30 *hosted in their state. State FMOs have the authority and responsibility to*
31 *approve, with National Office concurrence, acquisition of supplemental*
32 *aircraft resources within their state. State FMOs have the authority to*
33 *prioritize the allocation, pre-positioning and movement of all aircraft*
34 *assigned to the BLM within their state. State Offices will coordinate with*
35 *the National Office on movement of their aircraft outside of their State. A*
36 *State Aviation Manager (SAM) is located in each state office. SAMs are*
37 *delegated as the Contracting Officers Representative (COR) for all*
38 *exclusive use aircraft hosted by their state. SAMs implement aviation*
39 *program objectives and directives to support the agency mission and state*
40 *objectives. A state aviation plan is required to outline the state aviation*
41 *program objectives and to identify state specific policy and procedures.*
- 42 • *NPS/FWS - A Regional Aviation Manager (RAM) is located in each*
43 *regional office. RAMs implement aviation program objectives and*
44 *directives to support the agency mission and Region objectives. Several*
45 *Regions have additional support staff, and/or pilots assigned to support*
46 *aircraft operations and to provide technical expertise. A Regional aviation*

- 1 operations and management plan is required to outline the Region's
2 aviation program objectives and to identify Region-specific policy and
3 procedures.
- 4 • **FS - Regional Aviation Officers (RAOs)** are responsible for directing and
5 managing Regional aviation programs in accordance with the National and
6 Regional Aviation Management Plans, and applicable agency policy
7 direction. (Refer to FSM 5700 and FSH 5709.16 for list of responsibilities).
8 RAOs report to Director of Fire and Aviation for their specific Region.
9 Regional Aviation Safety Managers (RASMs) are responsible for aviation
10 safety in their respective Regions, and work closely with the RAO to ensure
11 aviation safety is an organizational priority (refer to FSM 5700 and FSH
12 5709.16 for list of responsibilities). Most Regions have additional aviation
13 technical specialists and pilots who help manage and oversee the Regional
14 aviation programs. Most Regions also have Aviation Maintenance
15 Inspectors, Fixed-wing Program Managers, Helicopter Program Managers,
16 Helicopter Operations Specialists, Inspector Pilots, etc.

18 Local Office

- 19 Some areas have interagency aviation programs that utilize an Aviation Manager
20 for multiple units. Duties are similar as other local level managers.
- 21 • **BLM - Unit Aviation Managers (UAMs)** serve as the focal point for the
22 Unit Aviation Program by providing technical expertise and management of
23 aviation resources to support Field Office/District programs. Field/District
24 Offices are responsible for hosting, supporting, providing daily
25 management, and dispatching all aircraft assigned to their unit.
26 Field/District Offices have the authority to request additional resources; to
27 establish priorities, and make assignments for all aircraft assigned to the
28 BLM within their unit or zone.
 - 29 • **NPS - Organizational responsibility** refer to DO-60, RM-60.
 - 30 • **FS - Unit Aviation Officers (UAOs)/Forest Aviation Officers (FAOs)** have
31 the responsibility for aviation activities at the local level, including aviation
32 mission planning, risk management and safety, supervision, and evaluation.
33 UAOs/FAOs assist Line Officers with risk assessment/management and cost
34 analysis. (Refer to FSH 5709.16_10.42)

36 Aviation Information Resources

- 37
38 Aviation reference guides and aids for agency aviation management are listed
39 for policy, guidance, and specific procedural requirements.
- 40 • **BLM - 9400 Manual Appendix I, National Aviation Plan (NAP)** and
41 applicable aviation guides as referenced in the NAP.
 - 42 • **FWS - Service Manual 330-339, Aviation Management and IHOG.**
 - 43 • **NPS - RM-60 Aviation Management Reference Manual and IHOG & IASG.**
 - 44 • **FS - FSM 5700, FSH 5709.16 and applicable aviation guides as referenced**
45 **in policy.**

1 Safety alerts, operational alerts, instruction memoranda, information bulletins,
2 incident reports, and other guidance or information are issued as needed.
3
4 An up-to-date library with aviation policy and procedural references will be
5 maintained at all permanent aviation bases, dispatch, and aviation management
6 offices.

7

8 **Aviation Safety**

9

10 The FS and the BLM have adopted Safety Management Systems (SMS) as the
11 foundation to our aviation safety program. The four pillars of SMS are Safety
12 Policy, Safety Risk Management, Safety Assurance, and Safety Promotion.
13 SMS is the standard for aviation safety set by the International Civil Aviation
14 Organization (ICAO) and the Federal Aviation Administration (FAA).

15

16 SMS focuses on:

- 17 ● Emphasis on proactive risk management
- 18 ● Promotes a “Just” culture
- 19 ● Addresses systemic safety concerns
- 20 ● Holds the organization accountable
- 21 ● Identifies “What” so we can manage the manageable
- 22 ● Communicates the “Why” so the culture can learn from mistakes

23

24 The intent of SMS is to improve the aviation culture by increasing hazard
25 identification, reduce risk-taking behavior, learn from mistakes, and correct
26 procedures before a mishap occurs rather than after the accident. More
27 information on SMS is available at the Wildland Fire Lessons Learned Center
28 under the Lessons Learned link at www.wildfirelessons.net. Additionally, the
29 current approved US Forest Service Aviation SMS Guide is available at
30 www.fs.fed.us/fire/av_safety/

31

32 **Risk Assessment and Risk Management**

33 The use of risk management will help to ensure a safe and successful operation.
34 Risk is the probability that an event will occur. Assessing risk identifies the
35 hazard, the associated risk, and places the hazard in relationship to the mission.
36 A decision to conduct a mission requires weighing the risk against the benefit of
37 the mission and deciding whether the risks are acceptable.

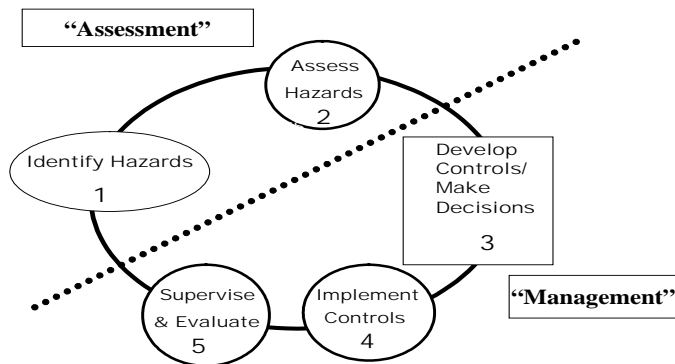
38

39 Aviation missions always have some degree of risk. The four sources of hazards
40 are methods, medium, man, and machine. Managing risk is a 5-step process:

- 41 ● Identify hazards associated with all specified and implied tasks for the
42 mission.
- 43 ● Assess hazards to determine potential of occurrence and severity of
44 consequences.

- 1 • Develop controls to mitigate or remove risk, and make decisions based on
- 2 accepting the least risk for the best benefit.
- 3 • Implement controls - (1) education controls, (2) physical controls, and (3)
- 4 avoidance controls.
- 5 • Supervise and Evaluate - enforce standards and continuously re-evaluate
- 6 their effectiveness in reducing or removing risk. Ensure that controls are
- 7 communicated, implemented, and enforced.

THE RISK MANAGEMENT PROCESS



8

9 **How to Properly Refuse Risk (Aviation)**

10 Every individual (government and contracted employees) has the right and
 11 obligation to report safety problems affecting his or her safety and has the right
 12 to contribute ideas to correct the hazard. In return, supervisors are expected to
 13 give these concerns and ideas serious consideration. When an individual feels
 14 an assignment is unsafe, he or she also has the obligation to identify, to the
 15 degree possible, safe alternatives for completing that assignment. Turning down
 16 an assignment is one possible outcome of managing risk.

17

18 A “turn down” is a situation where an individual has determined he or she
 19 cannot undertake an assignment as given and is unable to negotiate an
 20 alternative solution. The turn down of an assignment must be based on
 21 assessment of risks and the ability of the individual or organization to control or
 22 mitigate those risks. Individuals may turn down an assignment because of
 23 safety reasons when:

- 24 • There is a violation of regulated safe aviation practices.
- 25 • Environmental conditions make the work unsafe.
- 26 • They lack the necessary qualifications or experience.

27

28 Individuals will directly inform their supervisor that they are turning down the
 29 assignment as given. The most appropriate means of documented turn down
 30 criteria is using the Aviation Watch Out Situations (page 52, *IRPG*).

Release Date: January 2012

1 Supervisors will notify the Air Operations Branch Director (AOBD) or unit
2 aviation leadership immediately upon being informed of a turn down. If there is
3 no AOBD, notification shall go to the appropriate Section Chief, the Incident
4 Commander or local fire and aviation staff. Proper handling of turn downs
5 provides accountability for decisions and initiates communication of safety
6 concerns within the incident organization.

7
8 If the assignment has been turned down previously and the supervisor asks
9 another resource to perform the assignment, he or she is responsible to inform
10 the new resource that the assignment had been turned down and the reasons
11 why. Furthermore, personnel need to realize that a “turn down” does not stop
12 the completion of the assigned operation. The “turn down” protocol is an
13 integral element that improves the effective management of risk, for it provides
14 timely identification of hazards within the chain of command, raises risk
15 awareness for both leaders and subordinates, and promotes accountability.

16
17 If an unresolved safety hazard exists the individual needs to communicate the
18 issue/event/concern immediately to his or her supervisor and document as
19 appropriate.

20

21 **Aviation Safety Support**

22

23 During high levels of aviation activity it is advisable to request an Aviation
24 Safety and Technical Assistance Team (ASTAT). An ASTAT’s purpose is to
25 enhance risk management, and assist and review aviation operations on wildland
26 fires. An ASTAT should be requested through the agency chain of command
27 and operate under a Delegation of Authority from the appropriate State/Regional
28 Aviation Manager(s) or Multi Agency Coordinating Group. Formal written
29 reports shall be provided to the appropriate manager(s) as outlined at the in-
30 brief. A team should consist of the following:

- 31 • Aviation Safety Manager
- 32 • Operations Specialist (helicopter and/or fixed wing)
- 33 • Pilot Inspector
- 34 • Maintenance Inspector (optional)
- 35 • Avionics Inspector (optional)

36

37 **Aviation Safety Briefing**

38 Every passenger must receive a briefing prior to each flight. The briefing is the
39 responsibility of the Pilot in Command (PIC) but may be conducted by the pilot,
40 flight manager, helicopter manager, fixed-wing base manager, or an individual
41 with the required training to conduct an aviation safety briefing. The pilot
42 should also receive a mission briefing from the government aircraft manager
43 Refer to the *IRPG* and *IHOG* Chapter 10.

44

45

46

1 Aviation Hazard

2 An aviation hazard is any condition, act, or circumstance that compromises the
3 safety of personnel engaged in aviation operations. Pilots, flight crew personnel,
4 aviation managers, incident air operations personnel, and passengers are
5 responsible for hazard identification and mitigation. Aviation hazards may
6 include but are not limited to the following:

- 7 • Deviations from policy, procedures, regulations, and instructions.
- 8 • Improper hazardous materials handling and/or transport.
- 9 • Airspace conflicts/flight following deviation.
- 10 • Deviation from planned operations.
- 11 • Failure to utilize PPE or Aviation Life Support Equipment (ALSE).
- 12 • Failure to meet qualification standards or training requirements
- 13 • Extreme environmental conditions.
- 14 • Improper ground operations.
- 15 • Improper pilot procedures.
- 16 • Fuel contamination.
- 17 • Unsafe actions by pilot, air crew, passengers, or support personnel.

18
19 Aviation hazards also exist in the form of wires, low-flying aircraft, and
20 obstacles protruding beyond normal surface features. Each office will post,
21 maintain, and annually update a "Known Aerial Hazard Map" for the local
22 geographic area where aircraft are operated, regardless of agency jurisdiction.
23 This map will be posted and used to brief flight crews. Unit Aviation Managers
24 are responsible for ensuring the development and updating of Known Aerial;
25 Hazard Maps (IHOG Ch 3.V.J.1.c page 3-20)

27 Aerial Applications of Wildland Fire Chemical Safety

28 Chapter 12 contains information concerning the aerial application of wildland
29 fire chemicals.

31 SAFECOM

32
33 The DOI and the FS have an incident/hazard reporting form called The Aviation
34 Safety Communiqué (SAFECOM). The database, available at
35 <https://www.safecom.gov/> fulfills the Aviation Mishap Information System
36 (AMIS) requirements for aviation mishap reporting for the DOI agencies and the
37 FS. Categories of reports include: Accidents, Airspace, Hazards, Incidents,
38 Maintenance, Mishap Prevention, and Kudos. The system uses the SAFECOM
39 Form AMD-34 or FS-5700-14 to report any condition, observation, act,
40 maintenance problem, or circumstance with personnel or aircraft that has the
41 potential to cause an aviation-related mishap. The SAFECOM system is not
42 intended for initiating punitive actions. Submitting a SAFECOM is not a
43 substitute for "on-the-spot" correction(s) to a safety concern. It is a tool used to
44 identify, document, track and correct safety related issues. A SAFECOM does
45 not replace the requirement for initiating an accident or incident report.

1 Any individual (including vendors/cooperators) with knowledge of an
2 incident/hazard should complete a SAFECOM. The SAFECOM form,
3 including attachments and pictures, should be entered directly on the internet at
4 <https://www.safecom.gov/> or faxed to the Department of the Interior's Aviation
5 Management Directorate, Aviation Safety (208)433-5069 or to the FS at (208)
6 387-5735 ATTN: SAFETY. Electronic cc copies are automatically forwarded
7 to the National, Regional, State, and Unit Aviation Managers.

8
9 The agency with operational control of the aircraft at the time of the
10 hazard/incident/accident is responsible for completing the SAFECOM and
11 submitting it through agency channels.

12 **Aircraft Incidents/Accidents**

13
14
15 Notification to the FS or AMD and DOI agency Aviation Safety Managers is
16 required for any aircraft mishap involving damage or injury. Use the hotline
17 (888) 464-7427 or the most expeditious means possible. Initiate the appropriate
18 unit Aviation Mishap Response Plan.

19 **Low-level Flight Operations**

20
21
22 The only fixed-wing aircraft missions authorized for low-level fire operations
23 are:

- 24 • Para-cargo.
- 25 • Aerial Supervision Module (ASM) and Lead/Air Tanker Coordinator
26 (ATCO) operations.
- 27 • Retardant, water and foam application.

28 **Operational Procedures:**

- 29 • A high-level recon will be made prior to low-level flight operations.
- 30 • All flights below 500 feet will be contained to the area of operation.
- 31 • PPE is required for all fixed-wing, low-level flights. Helmets are not
32 required for multi-engine airtanker crews, smokejumper pilots and ASM
33 flight/aircrew members.

34 **Congested Area Flight Operations**

35
36
37
38 Airtankers can drop retardant in congested areas under DOI authority given in
39 *FAR Part 137*. FS authority is granted under exemption 392, from *FAR 91.119*
40 *as referenced in FSM 5714*. When such operations are necessary, they may be
41 authorized subject to these limitations:

- 42 • Airtanker operations in congested areas may be conducted at the request of
43 the city, rural fire department, county, state, or federal fire suppression
44 agency.
- 45 • An ASM/Lead/ATCO is ordered to coordinate aerial operations.

- 1 • The air traffic control facility responsible for the airspace is notified prior to
2 or as soon as possible after the beginning of the operation.
- 3 • A positive communication link must be established between the ASM or
4 Lead/ATCO, airtanker pilot(s), and the responsible fire suppression agency
5 official.
- 6 • The IC for the responsible fire agency or designee will advise the
7 ASM/leadplane/airtanker that all non-essential people and movable property
8 have been cleared prior to commencing retardant drops.

10 **Airspace Coordination**

11
12 The Interagency Airspace Program is an aviation safety program designed to
13 enhance aviation safety and reduce the risk of a mid-air collision. Guidance for
14 this program is found in the *Interagency Airspace Coordination Guide (IACG)*,
15 which has been adopted as policy by the DOI and FS. It is located at
16 www.airspacecoordination.net. Additional guidance may be found in the
17 *National Interagency Mobilization Guide* and supplemented by local
18 Mobilization Guides.

19
20 Some state and FS units have Memorandums of Understanding (MOUs) with
21 local military airspace authorities for airspace coordination. Briefings from Unit
22 Aviation Managers/Officers (UAM/UAO) are crucial to ensure that any local
23 airspace information is coordinated before flight.

24
25 All firefighting aircraft are required to have operative transponders and will use
26 a national firefighting transponder code of 1255 when engaged in, or traveling
27 to, firefighting operations (excluding ferry flights), unless given a discrete code
28 by Air Traffic Control (ATC).

29
30 Additional coordination information can be found by contacting:

- 31 • **BLM** - *State Aviation Managers, National Airspace Program Manager*
- 32 • **NPS** - *Regional Aviation Managers*
- 33 • **FS** - *Regional Aviation Officers, National Airspace Program Manager*
- 34 • **FWS** - *National Aviation Safety and Operations*

36 **Flight Request and Approval**

- 37 • **BLM** –*Reference the BLM National Aviation Plan, Chapter 3, available at:*
38 *<http://www.blm.gov/mifc/st/en/prog/fre/Aviation/Administration.html>*
- 39 • **NPS** - *Reference RM 60, Appendix 3 & 4.*
- 40 • **FS** - *Refer to FSM 5711.3 for administrative use, FSM 5705 for point-to-*
41 *point and mission use for types of FS flights.*

43 **Point-to-Point Flights**

44 A “Point-to-point” flight is one that originates at one developed airport or
45 permanent helibase and flies directly to another developed airport or permanent

1 helibase with the sole purpose of transporting personnel or cargo (this term does
2 not apply to flights with a scheduled air carrier on a seat fare basis). These types
3 of flights are often referred to as “administrative” flights and only require the
4 aircraft and pilot to be carded and approved for point-to-point flight. A point-to-
5 point flight is conducted higher than 500 feet above ground level (AGL).

6
7 Agency policy requires designating a Flight Manager for point-to-point flights
8 transporting personnel. The Flight Manager is a government employee that is
9 responsible for coordinating, managing, and supervising flight operations. The
10 Flight Manager is not required to be on board for most flights. For those flights
11 that have multiple legs or are complex in nature a Flight Manager should attend
12 the entire flight. The Flight Manager will meet the qualification standard for the
13 level of mission assigned as set forth in the *Interagency Aviation Training Guide*
14 (IAT).

- 15 • **BLM** –Reference the *BLM National Aviation Plan, Chapter*, available at:
16 <http://www.blm.gov/mifc/st/en/prog/fre/Aviation/Administration.html>
- 17 • **NPS** - Reference *RM-60, Appendix 3* for agency specific policy.
- 18 • **FS** - Refer to *FSM 5711.3* for administrative use, *FSM 5705* for point-to-
19 point and mission use for types of FS flights.

20 21 **Mission Flights**

22 Mission flights are defined as flights not meeting the definition of point-to-point
23 flight. A mission flight requires work to be performed in the air (retardant or
24 water delivery, fire reconnaissance, smokejumper delivery), or through a
25 combination of ground and aerial work (delivery of personnel and/or cargo from
26 helibases to helispots or unimproved landing sites, rappelling or cargo let-down,
27 horse herding).

- 28 • PPE is required for any fixed wing mission flight conducted below
29 500’ AGL. Flight helmets are not required for multi-engine airtanker crews,
30 smokejumper pilots and ASM flight/aircrew members.
- 31 • Required attire for ATGS and fire reconnaissance are:
 - 32 ○ Leather shoes or boots
 - 33 ○ Natural fiber shirt, full length cotton or nomex pants, or flight suit
- 34 • The use of full PPE is required for all helicopter flights (point to point and
35 mission) and associated ground operations. The specific items to be worn
36 are dependent on the type of flight, the function an individual is performing,
37 or the ground operation being conducted. Refer to the tables in Chapter 9 of
38 the IHOG for specific requirements.
- 39 • All personnel will meet training and qualification standards required for the
40 mission.
- 41 • Agency FM radio capability is required for all mission flights.
- 42 • All passengers must be authorized and all personnel onboard must be
43 essential to the mission.

44

- 1 Mission flights for fixed-wing aircraft include but are not limited to the
2 following:
- 3 ● Water or retardant application
 - 4 ● Parachute delivery of personnel or cargo
 - 5 ● Airtanker coordinator operations
 - 6 ● Takeoff or landing requiring special techniques due to hazardous terrain,
7 obstacles, or surface conditions

- 8
- 9 Mission helicopter flights include but are not limited to the following:
- 10 ● Flights conducted within 500 feet AGL
 - 11 ● Water or retardant application
 - 12 ● Helicopter coordinator and ATGS operations
 - 13 ● Aerial ignition activities
 - 14 ● External load operations
 - 15 ● Rappelling
 - 16 ● Takeoff or landing requiring special techniques due to hazardous terrain,
17 obstacles, pinnacles, or surface conditions
 - 18 ● Free-fall cargo
 - 19 ● Fire reconnaissance

21 **Flight-Following All Aircraft**

22

23 Flight-Following is mandatory for all flights. Refer to the *National Interagency*
24 *Mobilization Guide* for specific direction.

- 25 ● Agency FM radio capability is required for all mission flights.
- 26 ● For mission flights, there are two types of Agency Flight Following:
27 Automated Flight Following (AFF) and radio check-in. AFF is the preferred
28 method of agency flight following. If the aircraft and flight following office
29 have AFF capability, it shall be utilized. Periodic radio transmissions are
30 acceptable when utilizing AFF. Reference the AFF procedures section of
31 the *National Interagency Mobilization Guide* for more information.
- 32 ● All dispatch centers designated for fire support shall have the ability to
33 monitor AFF as well as the capability to transmit and receive “National
34 Flight Following” and “Air Guard”
- 35 ● If AFF becomes inoperable the aircraft will normally remain available for
36 service, utilizing radio/voice system for flight following. Each occurrence
37 must be evaluated individually and decided by the COR/CO.
- 38 ● Helicopters conducting Mission Flights shall check-in prior to and
39 immediately after each takeoff/landing per IHOG 4.II.E.2

41 **Sterile Cockpit All Aircraft**

42

43 Sterile cockpit rules apply within a 5-mile radius of the airport. The flight crew
44 will perform no radio or cockpit communication during that time that is not
45 directly related to safe flight of the aircraft from taxi to 5 miles out and from 5

1 miles out until clearing the active runway. This would consist of reading
2 checklists, communication with Air Traffic Control (ATC), Flight Service
3 Stations, Unicom, or other aircraft with the intent of ensuring separation or
4 complying with ATC requirements. Communications by passengers or air crew
5 members can be accomplished when the audio panels can be isolated and do not
6 interfere with flight operations of the flight crew.

7
8 **Exception:** When conducting firefighting missions within 5 miles of an
9 uncontrolled airport, maintain sterile cockpit until departing the traffic pattern
10 and reaching final altitude. Monitor CTAF frequency if feasible while engaged
11 in firefighting activities. Monitor CTAF as soon as practical upon leaving the
12 fire and returning to the uncontrolled airport. When conducting firefighting
13 missions within Class B, C, or D airspace, notify dispatch that ATC
14 communications will have priority over dispatch communications.

15 **Interagency Interim Flight and Duty Limitations**

16 **Phase 1 - Standard Flight and Duty Limitations (Abbreviated Summary)**

- 17 ● Fourteen (14) hour maximum duty day
- 18 ● Eight (8) hours maximum daily flight time for mission flights
- 19 ● Ten (10) hours for point-to-point, with a two (2) pilot crew
- 20 ● Maximum cumulative flight hours of thirty-six (36) hours, up to forty-two
21 (42) hours in six (6) days
- 22 ● Minimum of ten (10) hours uninterrupted time off (rest) between duty
23 periods
- 24
- 25

26
27 This does not diminish the authority or obligation of any individual COR
28 (Contracting Officer Representative) or Aviation Manager to impose shorter
29 duty days or additional days off at any time for any flight crew members for
30 fatigue. This is currently provided for in agency direction and contract
31 specifications.

32 **Interim Flight and Duty Limitations Implementation**

33 During extended periods of a high level of flight activity or maximum 14-hour
34 days, fatigue factors must be taken into consideration by Fire and Aviation
35 Managers. Phase 2 and/or Phase 3 Duty Limitations will be implemented for
36 specific Geographic Area's Aviation resources. The minimum scope of
37 operation should be by Geographic Area, i.e., Northwest, Great Basin, etc.

38
39
40 Decisions and procedures for implementation will be made on a coordinated,
41 interagency basis, involving the GACC, NICC, NMAC and National Aviation
42 Representatives at NIFC and Aviation Contracting Officers.

43
44 Official notification of implementation should be made by the FS Regional
45 Aviation Officer (RAO) and DOI Aviation Managers through the GACC and,

1 for broader scope implementations, by National Aviation Management through
2 NIFC.

3

4 **Phase 2 - Interim Duty Limitations**

5 When Phase 2 is activated, pilots shall adhere to the flight and day-off
6 limitations prescribed in Phase 1 and the duty limitations defined under Phase 2.

7

8 Each flight crew member shall be given an additional day off each fourteen (14)
9 day period. Crews on a twelve (12) and two (2) schedule shall have three (3)
10 consecutive days off (11 and 3). Flight crews on six (6) and one (1) schedules
11 shall work an alternating weekly schedule of five (5) days on, two (2) days off,
12 then six (6) days on and one (1) day off.

13

14 Aircraft fixed daily rates and special rates, when applicable, shall continue to
15 accrue during the extra day off. Contractors may provide additional approved
16 crews to maximize utilization of their aircraft. All costs associated with
17 providing the additional crew will be at the contractor's expense, unless the
18 additional crew is requested by the Government.

19

20 **Phase 3 - Interim Duty Limitations**

21 When Phase 3 is activated, pilots shall adhere to the flight limitations of Phase 1
22 (standard), the additional day off of Phase 2, and the limitations defined under
23 Phase 3.

24

25 Flight crew members shall have a minimum of twelve (12) consecutive hours of
26 uninterrupted rest (off duty) during each duty day cycle. The standard duty day
27 shall be no longer than twelve (12) hours, except a crew duty day extension shall
28 not exceed a cumulative fourteen (14) hour duty day. The next flight crew rest
29 period shall then be adjusted to equal the extended duty day, i.e., thirteen (13)
30 hour duty day, thirteen (13) hours rest; fourteen (14) hour duty day, fourteen
31 (14) hours rest. Extended duty day applies only to completion of a mission. In
32 no case may standby be extended beyond the twelve (12) hour duty day.

33

34 Double crews (two (2) complete flight crews assigned to an aircraft), augmented
35 flight crews (an additional pilot-in-command assigned to an aircraft), and
36 aircraft crews that work a rotating schedule, i.e., two (2) days on, one (1) day
37 off, seven (7) days on, seven (7) days off, or twelve (12) days on, twelve (12)
38 days off, may be exempted from Phase 2 Limitations upon verification that their
39 scheduling and duty cycles meet or exceed the provisions of Paragraph a. of
40 Phase 2 and Phase 1 Limitations.

41 Exemptions of Phase 3 provisions may be requested through the local Aviation
42 Manager or COR, but must be approved by the FS RAO or DOI Area Aviation
43 Manager.

44

45

46

1 Aviation Assets

2

3 Typical agency aviation assets include: Helitack or Rappel, Aerial Supervision
4 (ATGS, Lead, and ASM), Large (multi-engine) Airtankers, Single Engine
5 Airtankers, and Smokejumpers.

- 6 • **BLM** - All BLM acquired aircraft (exclusive use, On-Call, and CWN) are
7 available to move to areas of greatest Bureau need, thereby maximizing
8 efficiency and effectiveness. Specific authorities and responsibilities for
9 Field/State and National Offices are outlined earlier in this chapter.
10 Offices are expected to adhere to procedures established in the National
11 Aviation Plan for both acquisition and use reporting.

12

13 Helitack

14

15 Helitack crews perform suppression and support operations to accomplish fire
16 and resource management objectives.

17

18 Organization - Crew Size

- 19 • **BLM**- The standard BLM exclusive-use helitack crew size for a type 3
20 helicopter is a minimum of seven personnel (supervisor, assistant, squad
21 boss, and four crew members). The standard BLM exclusive-use helitack
22 crew size for a type 2 helicopter is a minimum of ten personnel (supervisor,
23 assistant, squad boss, and seven crewmembers). BLM helicopters operated
24 in Alaska need only be staffed with a qualified Helicopter Manager
25 (HMGB).
- 26 • **NPS** - Helicopter Exclusive Use modules will consist of a minimum of 8 fire
27 funded personnel. The NPS regions may establish larger crew size and
28 standards for their exclusive use helicopter crews based on the need for an
29 all hazard component (Fire, SAR, Law Enforcement, and EMT). Exception
30 to minimum helicopter crew staffing standards must be approved by the
31 National Aviation Office. NPS Helicopters operated in Alaska need only be
32 staffed with a qualified Helicopter Manager (HMGB).
- 33 • **FS** - Regions may establish minimum crew size and standards for their
34 exclusive use helitack crews. Experience requirements for exclusive-use
35 helicopter positions are listed in FSH 5109.17, Chapter 40.

36

37 Operational Procedures

38 The Interagency Helicopter Operations Guide (IHOG) NFES 1885 is policy for
39 helicopter operations.

40

41 Communication

42 The helitack crew standard is one handheld programmable multi-channel FM
43 radio per every 2 crew persons, and one multi-channel VHF-AM programmable
44 radio in the primary helitack crew (chase) truck. Each helitack crew (chase)
45 vehicle will have a programmable VHF-FM mobile radio. Each permanent

1 helibase will have a permanent programmable FM radio base station and should
 2 be provided a VHF-AM base station radio.

3

4 **Transportation**

5 Dedicated vehicles with adequate storage and security will be provided for
 6 helitack crews. The required Gross Vehicle Weight (GVW) of the vehicle will
 7 be dependent upon the volume of equipment carried on the truck and the number
 8 of helitack crewmembers assigned to the crew.

- 9 • **BLM** - Minimum vehicle configuration for a seven person crew will consist
 10 of one Class 661 Helitack Support Vehicle and one Class 156, 6-Pack
 11 pickup or Class 166 carryall.

12

13 **Training and Experience Requirements**

14 All helitack members will meet fire qualifications as prescribed by the *National*
 15 *Wildfire Coordinating Group (NWCG) 310-1* and their agency manual
 16 requirements. The following chart establishes experience and training
 17 requirements for FS, BLM, NPS, and FWS Exclusive Use, Fire Helicopter Crew
 18 Positions.

19

20 Non-Exclusive Use HECM’s and HMGB’s should also meet the following
 21 currency requirements.

22

Exclusive Use Fire Helicopter Position Prerequisites			
POSITION ¹	MINIMUM PREREQUISITE EXPERIENCE ²	MINIMUM REQUIRED TRAINING ³	CURRENCY REQUIREMENTS
Fire Helicopter Crew Supervisor	One season ⁴ as an Assistant Fire Helicopter Crew Supervisor, ICT4, HMGB, HEB2		RT-372 ⁵ RT-130
Assistant Fire Helicopter Crew Supervisor	One season as a Fire Helicopter Squad Boss, ICT4, HMGB, HEB2 (T)	I-200, S-215, S-234, S-260, S-270	RT-372 ⁵ RT-130
Fire Helicopter Squad Boss	One season as a Fire Helicopter Crewmember, FFT1, ICT5	S-211, S-212	RT-130
Fire Helicopter Crewmember	One season as a FFT2, HECM Taskbook	S-271	RT-130

23 ¹ All Exclusive use Fire Helicopter positions require an arduous fitness
 24 rating.

25 ² Minimum experience and qualifications required prior to performing in
 26 the Exclusive use position. Each level must have met the experience and
 27 qualification requirements of the previous level(s).

- 1 ³ Minimum training required to perform in the position. Each level must
2 have met the training requirements of the previous level(s).
3 ⁴ A “season” is continuous employment in a primary wildland fire position
4 for a period of 90 days or more.
5 ⁵ After completing S-372, must attend Interagency Helicopter Manager
6 Workshop (RT-372) within three years and every three years thereafter.
7 • *FS- 5109.17_27.1 requires biennial attendance after certification*
8 *for the position occurs.*
9 **Note:** Exceptions to the above position standards and staffing levels may be
10 granted on a case-by-case basis by the BLM National Aviation Office, NPS
11 Regional Office, FWS Regional Office, or FS Regional Office as appropriate.
12 • Some positions may be designated as COR/Alternate-COR. If so, see
13 individual Agency COR training & currency requirements.
14 • Fire Helicopter Managers (HMGB) are fully qualified to perform all the
15 duties associated with Resource Helicopter Manager.

17 Helicopter Rappel & Cargo Let-Down

- 18 Any rappel or cargo let-down programs must be approved by the appropriate
19 agency national headquarters.
20 • *BLM - BLM personnel involved in an Interagency Rappel Program must*
21 *have SAM approval.*
22 • *NPS - Approval is required by the National Office.*
23 • *FS - Approval is required by the National Office.*
24
25 All rappel and cargo let-down operations will follow the *Interagency Helicopter*
26 *Rappel Guide (IHRG)*, as policy. Any exemption to the guide must be requested
27 by the program through the state/region for approval by the National Aviation
28 Office (BLM), or Director of Fire and Aviation (FS).

30 Aerial Ignition

31
32 *The Interagency Aerial Ignition Guide (IAIG)* is policy for all aerial ignition
33 activities.

35 Fire Chemical Avoidance Areas

36
37 National Forest lands may have mapped avoidance areas for Threatened,
38 Endangered, Proposed, Candidate, or Sensitive species and waterways that are
39 excluded from aerially applied wildland fire chemicals. Pilots, aerial
40 supervision personnel, and others affiliated with ordering and delivering aerially
41 applied wildland fire chemicals should inquire prior to initial dispatch for any
42 Forest Service fire to determine if mapped avoidance areas are located on
43 National Forest lands within or near the fire area to ensure wildland fire
44 chemicals will not enter an avoidance area.
45

1 Misapplication into these areas shall be reported. See Chapter 12 (Suppression
2 Chemicals and Delivery Systems) for more details.

3

4 **Aerial Supervision**

5

6 Aerial supervision resources will be dispatched when available to
7 initial/extended attack incidents in order to enhance safety, effectiveness, and
8 efficiency of aerial/ground operations.

9

10 When aerial supervision resources (ATGS, Lead, or ASM) are collocated with
11 airtankers, they should be launched together to maximize the safety of the flight
12 crews, the efficiency of chemical delivery, and the effectiveness of the fire
13 chemical.

14

15 Incidents with three or more aircraft over/assigned to them should also have
16 aerial supervision in the form of ATGS or ASM.

17

18 Policy dictates additional aerial supervision requirements which are referenced
19 in the *Interagency Aerial Supervision Guide* (NFES 2544).

20

21 **Air Tactical Group Supervisor (ATGS)**

22

23 The ATGS manages incident airspace and controls incident air traffic. Specific
24 duties and responsibilities are outlined in the *Fireline Handbook (PMS 410-1)*
25 and the *Interagency Aerial Supervision Guide*. The ATGS reports to the Air
26 Operations Branch Director (AOBD), or in the absence of the AOBD, to the
27 Operations Section Chief (OSC), or in the absence of the OSC, to the IC.

28

29 The following attire is required for all interagency ATGS operations:

30

- Leather shoes or boots

31

- Natural fiber shirt, full length cotton or nomex pants, or flight suit.

32

33 **Operational Considerations**

34

- Relief aerial supervision should be ordered for sustained operations to ensure continuous coverage over an incident.
- Personnel who are performing aerial reconnaissance and detection will not perform aerial supervision duties unless they are fully qualified as an ATGS.
- Air tactical aircraft must meet the avionics typing requirements listed in the *Interagency Aerial Supervision Guide* and the pilot must be carded to perform the air tactical mission. Rotor-wing pilots are not required to be carded for air tactical missions.
- Ground resources will maintain consistent communication with aerial supervision in order to maximize the safety, effectiveness, and efficiency of aerial operations.

44

45

46

1 Leadplane

2

3 A leadplane is a national resource. The *Interagency Aerial Supervision Guide* is
4 agency policy and is available online at
5 http://www.blm.gov/nifc/st/en/prog/fire/Aviation/aerial_supervision.html.

6

7 Agency policy requires an ASM/or Lead/ATCO to be on order prior to aerial
8 applications over a congested area. Operations may proceed before the ASM/or
9 Lead/ATCO arrives, if communications are established with on-site resources,
10 authorization is granted from the IC, and the line is cleared prior to commencing
11 water/chemical application operations.

12

13 Aerial Supervision Module (ASM)

14

15 The Aerial Supervision Module is crewed with both a Lead/ATCO qualified Air
16 Tactical Pilot (ATP) and an Air Tactical Supervisor (ATS). These individuals
17 are specifically trained to operate together as a team. The resource is primarily
18 designed for providing both functions (Lead/ATCO and Air Attack)
19 simultaneously from the same aircraft, but can also provide single role service,
20 as well.

21

22 The Air Tactical Pilot is primarily responsible for aircraft coordination over the
23 incident. The ATS develops strategy in conjunction with the Operations Section
24 Chief.

- 25 • *BLM - The Interagency Aerial Supervision Guide is policy for BLM. The*
26 *Interagency Aerial Supervision Guide is available online at*
27 *http://www.blm.gov/nifc/st/en/prog/fire/Aviation/aerial_supervision.html*

28

29 Operational Considerations

30 The ASM is a shared national resource. Any operation that limits the national
31 resource status must be approved by the agency program manager. Aerial or
32 incident complexity and environmental considerations will dictate when the
33 ASM ceases low level operations. The ASM flight crew has the responsibility
34 to determine when the complexity level of the incident exceeds the capability to
35 perform both ATGS and leadplane functions from one aircraft. The crew will
36 request additional supervision resources, or modify the operation to maintain
37 mission safety and efficiency.

38

39 Policy

40 Only those individuals certified and authorized by the BLM - National Aviation
41 Office, or the FS - National Aviation Operations Officer will function as an Air
42 Tactical Supervisor (ATS) in an ASM mission profile.

43

44 Aerial Supervision Module Program Training and Qualifications

45 Training and qualification requirements for ASM crewmembers are defined in
46 the *Interagency Aerial Supervision Guide* (NFES 2544).

1 Reconnaissance or Patrol flights

2

3 The purpose of aerial reconnaissance or detection flights is to locate and relay
4 fire information to fire management. In addition to detecting, mapping, and
5 sizing up new fires, this resource may be utilized to provide ground resources
6 with intelligence on fire behavior, provide recommendations to the IC when
7 appropriate, and describe access routes into and out of fire areas for responding
8 units. Only qualified Aerial Supervisors (ATGS, ASM, HLCO and
9 Lead/ATCO) are authorized to coordinate incident airspace operations and give
10 direction to aviation assets. Flights with a "Recon, Detection, or Patrol"
11 designation should communicate with tactical aircraft only to announce location,
12 altitude and to relay their departure direction and altitude from the incident.

13

14 Airtankers

15

16 Airtankers are a national resource. Geographic areas administering these
17 aircraft will make them available for initial attack and extended attack fires on a
18 priority basis. The GACC will ensure that all support functions (e.g. dispatch
19 centers and tanker bases) are adequately staffed and maintained to support the
20 mobilization of aircraft during normal and extended hours.

21

22 For aviation safety and policy concerning wildland fire chemicals see chapter 12
23 (Suppression Chemicals and Delivery Systems).

24

25 Airtankers are operated by commercial vendors in accordance with FAR Part
26 137. The management of Large Airtankers is governed by:

27

28

29

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Categories

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1 Airtanker Base Personnel

2 There is identified training for the positions at airtanker bases; the *Interagency*
3 *Airtanker Base Operations Guide (IATBOG)* contains a chart of required
4 training for each position. It is critical that reload bases are prepared and staffed
5 during periods of moderate or high fire activity at the base. All personnel
6 conducting airtanker base operations should review the *IATBOG* and have it
7 available.

8

9 Startup/Cutoff Time for Multi Engine Airtankers

10 Refer to the *Interagency Aerial Supervision Guide* (NFES 2544).

11

12 Single Engine Airtankers

13

14 Single Engine Airtanker (SEAT) Operations, Procedures, and Safety

15 The *Interagency SEAT Operating Guide (ISOG)* (NFES #1844) defines
16 operating standards and is policy for both the DOI and FS.

17

18 SEAT Manager Position

19 In order to ensure adherence to contract regulations, safety requirements, and
20 fiscal accountability, a qualified SEAT Manager (SEMG) will be assigned to
21 each operating location. The SEMG's duties and responsibilities are outlined in
22 the *ISOG*. To maintain incident qualifications currency a SEAT Manager is
23 required to attend RT-273 every three years. Elements and criteria of RT-273
24 can be found in the *Field Managers Course Guide*, PMS 901-1.

25

26 Operational Procedures

27 Using SEATs in conjunction with other aircraft over an incident is standard
28 practice. Agency or geographical area mobilization guides may specify
29 additional procedures and limitations.

30

31 Depending on location, operator, and availability, SEATs are capable of
32 dropping suppressants, water, or approved chemical retardants. Because of the
33 load capacities of the SEATs (500 to 800 gallons), quick turn-around times
34 should be a prime consideration. SEATs are capable of taking off and landing
35 on dirt, gravel, or grass strips (pilot must be involved in selection of the site); a
36 support vehicle reduces turn-around times.

37

38 Reloading at established airtanker bases or reload bases is authorized. (SEAT
39 operators carry the required couplings). All BLM and FS Airtanker base
40 operating plans will permit SEAT loading in conjunction with large airtankers.

41

42 Smokejumper Pilots

43

44 The *Interagency Smokejumper Pilot Operations Guide (ISPOG)* serves as policy
45 for smokejumper pilot qualifications, training, and operations.

46

1 Military or National Guard Aircraft and Pilots

2

3 The *Military Use Handbook (NFES 2175)* will be used when planning or
4 conducting aviation operations involving regular military aircraft. Ordering
5 military resources is done through the National Interagency Coordination Center
6 (NICC); National Guard resources are utilized through local or state
7 Memorandum of Understanding (MOU).

8

Chapter 17 Fuels Management

Introduction

The purpose of the Hazardous Fuels Reduction (HFR) programs within the Department of the Interior (DOI) and the Forest Service (FS) is to reduce hazardous fuels (HF) and risks to human communities and improve the health of the land.

The DOI and FS, along with other federal, state, tribal, and local partners, will work to ensure effective HFR treatment efforts are collectively planned and implemented. These efforts will be consistent with the direction provided in:

- *Review and Update of the 1995 Federal Wildland Fire Management Policy (January 2001)*
- *Guidance for Implementation of Federal Wildland Fire Management Policy (February 13, 2009)*

Policy

The federal fire agencies use the *Interagency Prescribed Fire Planning and Implementation Procedures Guide* (2008) to guide prescribed fire activities. This guide provides standardized procedures specifically associated with the planning and implementation of prescribed fire.

Policy, project planning and implementation priorities, and standards common to all agencies:

- The safety of firefighters and the public is the number one priority when planning and implementing HFR treatment projects.
- All HFR treatment projects will support resource management objectives as identified in their agency specific Land/Resource Management Plans.
- All HFR treatment projects will have plans that contain measurable objectives.
- All HFR treatment projects will comply with National Environmental Policy Act (NEPA) and all other regulatory requirements.
- All HFR management projects will be tracked and progress will be reported within required timeframes.
- All HFR projects will be monitored to determine if treatment objectives were met and to document weather, fire behavior, fuels information, and smoke dispersion. Evaluation reports are to be completed and maintained in the project file.

Some programmatic differences are identified in the following agency specific documentation and serve as agency specific direction.

- **BLM** - Refer to (*IM No. OF&A 2012-005*)

- 1 • *FWS - Refer to Fire Management Handbook, Chapter 17*
- 2 • *NPS - Refer to RM 18*
- 3 • *FS - Refer to FSM 5140*

4

5 **Reporting HFR Accomplishment**

6

7 The HF module of the National Fire Plan Operations and Reporting System
8 (NFPORS) is the national system for submitting proposed projects for approval,
9 tracking accomplishments of the program, reporting performance, measuring
10 accomplishments, and accountability.

11

12 **Policy Regarding Planned HF Treatments Burned in a Wildfire**

13

14 For DOI agencies, acres burned in a wildfire may only be reported in the
15 NFPORS HFR Module as “Fire Use” if all the following conditions are met:

- 16 • The area burned was in a pre-existing NFPORS treatment unit
 - 17 • NEPA is complete
 - 18 • The planned objectives were met
 - 19 • The accomplishment is approved by a Regional Fuels Specialist
- 20
- 21 • *FS- the USFS provides direction for reporting accomplishment from*
22 *unplanned ignitions in the annual budget advice and by Washington Office*
23 *interim direction letters.*

24

25 **Prescribed Fire during Preparedness Levels 4 and 5**

26

27 Approval is required for implementation of prescribed fires at national
28 preparedness Levels 4 and 5 (Refer to the *National Mobilization Guide*).

29

30 **Federal Agencies Assistance**

31

32 Reference Section VI of the *Interagency Agreement For Wildland Fire*
33 *Management among the Bureau of Land Management, Bureau of Indian Affairs,*
34 *National Park Service, Fish and Wildlife Service, of the United States*
35 *Department Of The Interior and the Forest Service of the United States*
36 *Department Of Agriculture, effective May, 2010.*

37

38 Agencies will enter into separate agreements for personnel and other resources
39 provided for planning and implementation of (hazardous fuels management
40 program) treatments and activities. This may or may not result in an exchange
41 of funds subject to the applicable statutory authority used.

42

43

44

1 **Hazard Pay/Environmental Differential for Prescribed Fire**
2 **Implementation**

3
4 Current policy is that hazard pay will not be paid for any prescribed fire. Under
5 certain circumstances, hazard pay or environmental differential may be
6 warranted. Offices should contact their servicing personnel office with specific
7 questions.

8
9 **Non-NWCG Agency Personnel Use on Prescribed Fire**

10
11 For information regarding use of non-NWCG agency personnel on prescribed
12 fires, see Chapter 13.

13
14 **Use of Contractors for Prescribed Fire Implementation**

15
16 Agencies can contract to conduct all or part of the planning and implementation
17 of prescribed fire operations and/or all or part of mechanical treatments for HFR
18 projects.

19
20 If a contractor is actively involved in igniting, holding, or mopping up an agency
21 prescribed fire, a Contracting Officer's Authorized Representative (COR) or
22 Project Inspector (PI) will be on site (exceptions can be made for late stage mop
23 up and patrol) to ensure that the burn objectives are being met and that the terms
24 of the contract are adhered to. The Agency Administrator and/or FMO will
25 determine the qualifications required for the agency representative (COR or PI).

26
27 **Use of AD Pay Plan for the Hazardous Fuels Program**

28
29 Refer to the DOI Administratively Determined (AD) Pay Plan for Emergency
30 Workers (Casuals) for information regarding the use of emergency workers for
31 HFR projects.

32
33 Forest Service does not have this authority.

34
35 **Activation of Contingency Resources**

36
37 In the event an agency activates the contingency resources in their prescribed
38 fire plan, sending units should respond and support the requesting agency
39 immediately to ensure that the public and firefighter safety are not
40 compromised.

41
42 **Non-Prescribed Fire HFR Activities**

43
44 For policy, guidance, and standards for implementation of non-prescribed fire
45 hazard fuel reduction treatments (e.g. mechanical, biological, chemical), refer to
46 agency specific policy and direction.

Chapter 18 Reviews and Investigations

Introduction

Reviews and investigations are used by wildland fire and aviation managers to assess and improve the effectiveness and safety of organizational operations. Information (other than factual) derived from safety reviews and accident investigations should only be used by agencies for accident prevention and safety purposes.

Multiagency Cooperation

Many reviews and investigations involve cooperation between Federal, State, County, and Municipal Agencies. To comply with each agencies authorities, policies, and responsibilities, a multi-agency review or investigation may be necessary. A multiagency Delegation of Authority should be provided to outline roles, responsibilities, and expected deliverables.

The Team Leader or delegating official(s) should establish cooperative relationships with the other agencies involved in the review or investigation to ensure policies and responsibilities are met. This may involve negotiations, cooperative agreements, and coordination with the agency Designated Agency Safety and Health Official (DASHO) or the agency official who signs the Delegation of Authority.

Federal Interagency Investigations

Close calls or accidents that involve interagency (USFS or DOI) personnel and/or jurisdiction (e.g. USFS firefighter injured on FWS jurisdictional wildland fire & vice versa) shall be reviewed or investigated cooperatively and conducted at the appropriate level as outlined in this chapter.

Agency Administrators will ensure that affected agencies are involved throughout the review/investigation process.

When an incident does not meet the serious accident criteria, the affected Agency Administrators should jointly decide what type and level of investigation will be conducted based on agency processes outlined in this chapter. Questions should be addressed to your agency wildland fire safety program manager.

Reviews

Reviews are methodical examinations of system elements such as program management, safety, leadership, operations, preparedness, training, staffing, business practices, budget, cost containment, planning, and interagency or intra-

1 agency cooperation and coordination. Reviews do not have to be associated
 2 with a specific incident. The purpose of a review is to ensure the effectiveness
 3 of the system element being reviewed, and to identify deficiencies and
 4 recommend specific corrective actions. Established review types are described
 5 below and include:

- 6 • Preparedness Review
- 7 • After Action Review
- 8 • Fire and Aviation Safety Team Review
- 9 • Aviation Safety and Technical Assistance Team Review
- 10 • Large Fire Cost Reviews
- 11 • Individual Fire Review
- 12 • Lessons Learned Review
- 13 • Escaped Prescribed Fire Review

14

15 **Review Types and Requirements**

Type	When Conducted	Delegating or Authorizing Official
Preparedness Review	Annually, or management discretion	Local/State/Region/National
After Action Review	Management discretion	N/A
Fire and Aviation Safety Team Review	As fire activity dictates	Geographic Area Coordinating Group
Aviation Safety and Technical Assistance Team Review	As aviation activity dictates	State/Regional Aviation Manager or MACG
Large Fire Cost Review	Refer to NWCG Memorandum #003-2009	Agency Director
Individual Fire Review	Management discretion	Local/State/Region/National
Lessons Learned Review	Management discretion	Local/State/Region/National
Escaped Prescribed Fire Review	See <i>Interagency Prescribed Fire Planning and Implementation Procedures Guide</i> (2008)	

16

17 **Preparedness Reviews**

18 Preparedness Reviews assess fire programs for compliance with established fire
 19 policies and procedures outlined in the current *Interagency Standards for Fire
 20 and Fire Aviation Operations* and other pertinent policy documents.

21

22 Preparedness Reviews identify organizational, operational, procedural,
 23 personnel, or equipment deficiencies, and recommend specific corrective
 24 actions. Interagency Preparedness Review Checklists can be found at:
 25 http://www.nifc.gov/policies/pol_ref_intgncy_prepcheck.html

26

1 **After Action Reviews (AAR)**

2 An AAR is a learning tool intended for the evaluation of an incident or project
3 in order to improve performance by sustaining strengths and correcting
4 weaknesses. An AAR is performed as soon after the event as possible by the
5 personnel involved. An AAR should encourage input from participants that is
6 focused on:

- 7 • What was planned?
- 8 • What actually happened?
- 9 • Why it happened?
- 10 • What can be done the next time?

11

12 An AAR is a tool that leaders and units can use to get maximum benefit from
13 the experience gained on any incident or project. When possible, the leader of
14 the incident or project should facilitate the AAR process. However, the leader
15 may choose to have another person facilitate the AAR as needed and
16 appropriate. AARs may be conducted at any organizational level. However, all
17 AARs follow the same format, involve the exchange of ideas and observations,
18 and focus on improving proficiency. The AAR should not be utilized as an
19 investigational review. The format can be found in the *Interagency Response*
20 *Pocket Guide (IRPG)*, PMS #461, NFES #1077.

21

22 **Fire and Aviation Safety Team (FAST) Reviews**

23 Fire and Aviation Safety Teams assist agency administrators during periods of
24 high fire activity by assessing policy, rules, regulations, and management
25 oversight relating to operational issues. They can also do the following:

- 26 • Provide guidance to ensure fire and aviation programs are conducted safely.
- 27 • Assist with providing immediate corrective actions.
- 28 • Review compliance with OSHA abatement plan(s), reports, reviews, and
29 evaluations.
- 30 • Review compliance with *Interagency Standards for Fire and Fire Aviation*
31 *Operations*.

32

33 FAST reviews can be requested through geographic area coordination centers to
34 conduct reviews at the state/regional and local level. If a more comprehensive
35 review is required, a national FAST can be ordered through the National
36 Interagency Coordination Center.

37

38 FASTs include a team leader, who is either an agency administrator or fire
39 program lead with previous experience as a FAST member, a safety and health
40 manager, and other individuals with a mix of skills from fire and aviation
41 management.

42

43 FASTs will be chartered by their respective Geographic Area Coordinating
44 Group (GACG) with a delegation of authority, and report back to the GACG.

45

1 FAST reports will include an executive summary, purpose, objectives,
2 methods/procedures, findings, recommendations, follow-up actions (immediate,
3 long-term, national issues), and a letter delegating authority for the review.
4 FAST reports should be submitted to the Geographic Area Coordinating Group
5 with a copy to the Federal Fire and Aviation Safety Team (FFAST) chair within
6 30 days. See Appendix L for sample FAST Delegation of Authority.

7

8 **Aviation Safety and Technical Assistance Team (ASTAT) Reviews**

9 Refer to Chapter 16 for ASTAT information.

10

11 **Large Fire Cost Reviews**

12 Information on large fire cost reviews can be found in Chapter 11 (Incident
13 Management), and at [http://www.nwccg.gov/general/memos/nwccg-003-](http://www.nwccg.gov/general/memos/nwccg-003-2009.html)
14 [2009.html](http://www.nwccg.gov/general/memos/nwccg-003-2009.html)

15

16 **Individual Fire Reviews**

17 Individual fire reviews examine all or part of the operations on an individual
18 fire. The fire may be ongoing or controlled. These reviews may be local,
19 state/regional, or national. These reviews evaluate decisions and strategies,
20 correct deficiencies, identify new or improved procedures, techniques or tactics,
21 determine cost-effectiveness, and compile and develop information to improve
22 local, state/regional, or national fire management programs.

23

24 **Lessons Learned Reviews (LLRs)**

25 The purpose of a LLR is to focus on the near miss events or conditions in order
26 to prevent potential serious incident in the future. In order to continue to learn
27 from our near misses and our successes it is imperative to conduct a LLR in an
28 open, non-punitive manner. LLRs are intended to provide educational
29 opportunities that foster open and honest dialog and assist the wildland fire
30 community in sharing lessons learned information. LLRs provide an outside
31 perspective with appropriate technical experts assisting involved personnel in
32 identifying conditions that led to the unexpected outcome and sharing findings
33 and recommendations.

34

35 A LLR should be tailored to the event being reviewed and the extent of the
36 review should be commensurate with the severity of the incident. A LLR should
37 not be used in lieu of a Serious Accident Investigation (SAI) or Accident
38 Investigation (AI) if the SAI/AI criteria have been met.

- 39 • *FS- Facilitated Learning Analysis (FLA) may be used for incidents meeting
40 the AI criteria.*

41

42 A LLR will be led by a facilitator not involved in the event. A facilitator should
43 be an appropriate fire management expert who possesses skills in interpersonal
44 communications, organization, and be unbiased to the event. Personnel
45 involved in the event will be participants in the review process. Depending

- 1 upon the complexity of the event, the facilitator may request assistance from
2 technical experts (e.g., fire behavior, fire operations, etc.).
3 The LLR facilitator will convene the participants and:
- 4 • Obtain a Delegation of Authority from appropriate agency level. See
5 appendix J for a sample LLR Delegation of Authority.
 - 6 • Identify facts of the event (sand tables maybe helpful in the process) and
7 develop a chronological narrative of the event.
 - 8 • Identify underlying reasons for success or unintended outcomes.
 - 9 • Identify what individuals learned and what they would do differently in the
10 future.
 - 11 • Identify any recommendations that would prevent future similar
12 occurrences.
 - 13 • Provide a final written report including the above items to the pertinent
14 agency administrator(s) within two weeks of event occurrence unless
15 otherwise negotiated. Names of involved personnel should not be included
16 in this report (reference them by position).

17
18 A copy of the final report will be submitted to the respective agency's national
19 fire safety lead who will provide a copy to the Wildland Fire Lessons Learned
20 Center (LLC). E-mail: llcdocsubmit@gmail.com

- 21 • *FS - The Forest Service has combined the Accident Prevention Analysis*
22 *(APA) with the Facilitated Learning Analysis (FLA). A guide for the FLA*
23 *process is available at*
24 *http://wildfirelessons.net/documents/APA_FLA_Guides_2011.pdf*

25 **Escaped Prescribed Fire Reviews**

26 An escaped prescribed fire is a prescribed fire which has exceeded, or is
27 expected to exceed, its prescription. Escaped prescribed fire review direction is
28 found in these agency documents:

29 *Interagency Prescribed Fire Planning and Implementation Procedures*
30 *Reference Guide (August 2008)*

- 31 • *BLM - IM No. OF&A 2012-005*
- 32 • *FWS - Fire Management Handbook, Chapter 17*
- 33 • *NPS - RM-18, Chapter 7 & 17*
- 34 • *FS - FSM 5140*

35 **Investigations**

36
37
38
39 Investigations are detailed and methodical efforts to collect and interpret facts
40 related to an incident or accident, identify causes (organizational factors, local
41 workplace factors, unsafe acts), and develop control measures to prevent
42 recurrence.

43
44 Distinct types of wildland fire incidents and accidents have specific
45 investigation requirements.

- 1 **Wildland Fire Incident and Accident Types and Definitions**
- 2 • **Serious Wildland Fire Accident**
- 3 An unplanned event or series of events that resulted in death; injury,
- 4 occupational illness, or damage to or loss of equipment or property. For
- 5 wildland fire operations, a serious accident involves any of the following:
- 6 ○ One or more fatalities.
- 7 ○ Three or more personnel who are inpatient hospitalized as a direct
- 8 result of or in support of wildland fire operations.
- 9 ○ Property or equipment damage of \$250,000 or more.
- 10 ○ Consequences that the Designated Agency Safety and Health Official
- 11 (DASHO) judges to warrant Serious Accident Investigation.
- 12 • **Wildland Fire Accident**
- 13 An unplanned event or series of events that resulted in injury, occupational
- 14 illness, or damage to or loss of equipment or property to a lesser degree than
- 15 defined in “Serious Wildland Fire Accident”.
- 16 • **Near-miss**
- 17 An unplanned event or series of events that could have resulted in death;
- 18 injury; occupational illness; or damage to or loss of equipment or property
- 19 but did not.
- 20 • **Entrapment**
- 21 A situation where personnel are unexpectedly caught in a fire behavior-
- 22 related, life-threatening position where planned escape routes or safety
- 23 zones are absent, inadequate, or compromised. Entrapment may or may not
- 24 include deployment of a fire shelter for its intended purpose. Entrapment
- 25 may result in a serious wildland fire accident, a wildland fire accident, or a
- 26 near-miss.
- 27 • **Fire Shelter Deployment**
- 28 The removing of a fire shelter from its case and using it as protection
- 29 against fire. Fire shelter deployment may or may not be associated with
- 30 entrapment. Fire shelter deployment may result in a serious wildland fire
- 31 accident, a wildland fire accident, or a near-miss.
- 32 • **Fire Trespass**
- 33 The occurrence of unauthorized fire on agency-protected lands where the
- 34 source of ignition is tied to some type of human activity.
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- 46

1 **Investigation Types and Requirements**

Wildland Fire Event	Investigation Type	Notification Requirement	Management level that determines review type and authorizes review*
Serious Wildland Fire Accident	Serious Accident Investigation (SAI)	National	National
Wildland Fire Accident	Accident Investigation (AI) <i>FS only- FLA may be used</i>	<i>BLM/NPS-National</i> <i>FS/FWS-Management Discretion</i>	Region/State/Local
Entrapment	SAI, AI, LLR, depending on severity	National	National
Fire Shelter Deployment	SAI, AI, LLR, depending on severity	National	National
Near-miss	LLR, AAR	Management Discretion	Region/State/Local
Fire Trespass	Fire Cause Determination & Trespass Investigation	Local	Local

2 * Higher level management may exercise their authority to determine the type of
3 review or investigation.

- 4 • **BLM-** *The Facilitated Learning Analysis (FLA) process may be used as a*
5 *supplemental element to required BLM accident investigation processes.*
- 6 • **FS-** *Forest Service Line Officers are the deciding officials regarding what*
7 *type of accident investigation or analysis method is to be used for accidents*
8 *or near misses occurring under Forest Service jurisdiction. FLAs are a*
9 *type of Lessons Learned Review.*

10
11 **Investigation Processes**

12
13 **Processes Common to All Wildland Fire Accident Investigations**

- 14 • **Site Protection** - The site of the incident should be secured immediately
15 and nothing moved or disturbed until the area is photographed and visually
16 reviewed. Exact locations of injured personnel, entrapments, injuries,
17 fatalities, and the condition and location of personal protective equipment,
18 property, and other equipment must be documented.

- 1 • **Management of Involved Personnel** - Treatment, transport, and follow-up
2 care must be immediately arranged for injured and involved personnel. The
3 agency administrator or delegate should develop a roster of involved
4 personnel and supervisors and ensure they are available for interviews by
5 the investigation team. The agency administrator should consider relieving
6 involved supervisors from fireline duty until the preliminary investigation
7 has been completed. Attempt to collect initial statements from the involved
8 individuals prior to a Critical Incident Stress Management (CISM) session.
- 9 • **Delegation of Authority** - A delegation of authority shall be issued to the
10 investigation team leader. The delegation of authority will outline roles,
11 responsibilities, and expected deliverables.
- 12 • **Critical Incident Stress Management (CISM)** - CISM is the
13 responsibility of local agency administrators, who should have individuals
14 pre-identified for critical incident stress debriefings. Also refer to The
15 Agency Administrator's Guide to Critical Incident Management (PMS 926),
16 available at: <http://www.nwcg.gov/pms/pubs/pms926.doc>. Individuals or
17 teams may be available through Employee Assistance Programs (EAPs) or
18 Geographic Area Coordination Centers (GACCs).
- 19 • **24-Hour-Preliminary Report** - This report contains known basic facts
20 about the accident. It will be completed and forwarded by the agency
21 administrator or designee responsible for the jurisdiction where the accident
22 occurred. Names of injured personnel are not to be included in this report
23 (reference them by position).
- 24 • **72-Hour Expanded Report** - This report provides more detail about the
25 accident and may contain the number of victims, severity of injuries, and
26 information focused on accident prevention. It will be completed and
27 forwarded by the AI/SAI Team. Names of injured personnel are not to be
28 included in this report (reference them by position).
- 29 • **24 and 72 Hour Reports** shall be sent to the respective agency's fire
30 safety/risk management lead for national distribution and potential posting
31 through NWCG Safety Alert System.

32 **Wildland Fire Serious Accident Investigation Process**

34 **Fire Director Responsibilities**

35 The Fire Director(s) or designee(s) of the lead agency, or agency responsible for
36 the land upon which the accident occurred, will:

- 37 • Notify the agency safety manager and Designated Agency Safety and
38 Health Official (DASHO).
- 39 • Immediately appoint, authorize (through Delegation of Authority), and
40 deploy an accident investigation team.
- 41 • Provide resources and procedures adequate to meet the team's needs.
- 42 • Receive the factual and management evaluation reports and take action to
43 accept or reject recommendations.
- 44

- 1 ● Forward investigation findings, recommendations, and corrective action
2 plan to the DASHO (the agency safety office is the “office of record” for
3 reports).
- 4 ● Convene an accident review board/ board of review (if deemed necessary)
5 to evaluate the adequacy of the factual and management reports and suggest
6 corrective actions.
- 7 ● Ensure a corrective action plan is developed, incorporating management
8 initiatives established to address accident causal factors.
- 9 ● Ensure Serious Accident Investigations remain independent of other
10 investigations.

11

12 **Agency Administrator Responsibilities**

- 13 ● Develop local preparedness plans to guide emergency response.
- 14 ● Identify agencies with jurisdictional responsibilities for the accident.
- 15 ● Provide for and emphasize treatment and care of survivors.
- 16 ● Ensure the Incident Commander secures the accident site.
- 17 ● Conduct an in-briefing to the investigation team.
- 18 ● Facilitate and support the investigation as requested.
- 19 ● Determine need and implement Critical Incident Stress Management
20 (CISM).
- 21 ● Notify home tribe leadership in the case of a Native American fatality.
- 22 ● Prepare and issue the required 24 Hour Preliminary Report unless formally
23 delegated to another individual.

24

25 **Notification**

26 Agency reporting requirements will be followed. As soon as a serious accident
27 is verified, the following groups or individuals should be notified:

- 28 ● Agency administrator
- 29 ● Public affairs
- 30 ● Agency Law Enforcement
- 31 ● Safety personnel
- 32 ● County sheriff or local law enforcement as appropriate to jurisdiction
- 33 ● National Interagency Coordination Center (NICC)
- 34 ● Agency headquarters
- 35 ● OSHA (within 8 hours if the accident resulted in one or more fatalities or if
36 three or more personnel are inpatient hospitalized)

37

38 Notification to the respective agency’s fire national safety/risk management lead
39 is required.

40

41 **Designating the Investigation Team Lead**

42 The 1995 Memorandum of Understanding between the U.S. Department of the
43 Interior and the U.S. Department of Agriculture states that serious wildland fire-
44 related accidents will be investigated by interagency investigation teams.
45 Following initial notification of a serious accident, the National Fire Director(s)

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1 or their designee(s) will designate a Serious Accident Investigation Team
2 Lead(s) and provide that person(s) with a written Delegation of Authority to
3 conduct the investigation and the means to form and deploy an investigation
4 team.

- 5 • *BLM- The Fire and Aviation Directorate Safety Program Manager*
6 *mobilizes SAI teams in coordination with the SAI Team Leader.*

7
8 Accidents involving more than one agency will require a collaboratively
9 developed delegation of authority that is signed by each of the respective
10 agencies.

11

12 **Serious Accident Investigation Team (SAIT) Composition**

13 SAI Team members should not be affiliated with the unit that sustained the
14 accident.

- 15 • **Team Leader (Core Team Member)**

16 A senior agency management official, at the equivalent associate/assistant
17 regional/state/area/division director level. The team leader will direct the
18 investigation and serve as the point of contact to the Designated Agency
19 Safety and Health Official (DASHO).

- 20 • **Chief Investigator (Core Team Member)**

21 A qualified accident investigation specialist is responsible for the direct
22 management of all investigation activities. The chief investigator reports to
23 the team leader.

- 24 • **Accident Investigation Advisor/Safety Manager (Core Team Member)**

25 An experienced safety and occupational health specialist or manager who
26 acts as an advisor to the team leader to ensure that the investigation focus
27 remains on safety and health issues. The accident investigation
28 advisor/safety manager also works to ensure strategic management issues
29 are examined. Delegating Officials or their designee may, at their
30 discretion, fill this position with a trained and qualified NWCG Safety
31 Officer, Line (SOFR), Safety Officer, Type 2 (SOF2), or Safety Officer,
32 Type 1 (SOF1).

- 33 • **Interagency Representative**

34 An interagency representative will be assigned to every fire-related Serious
35 Accident Investigation Team. They will assist as designated by the team
36 leader and will provide outside agency perspective. They will assist as
37 assigned by the Team Leader and will provide a perspective from outside
38 the agency.

- 39 • **Technical Specialists**

40 Personnel who are qualified and experienced in specialized occupations,
41 activities, skills, and equipment, addressing specific technical issues such as
42 specialized fire equipment, weather, and fire behavior.

- 43 • **Public Affairs Officer**

44 For investigations with high public visibility and significant news media
45 interest, a public affairs officer (PAO) should be considered a part of the
46 team. The PAO should develop a communications plan for the team, be a

- 1 designated point of contact for news media, and oversee all aspects of
2 internal and external communications. Ideally, the PAO should be qualified
3 as a Type 1 or Type 2 public information officer and be familiar with SAI
4 team organization and function.
- 5 ○ **BLM** - All media related documents (news releases, talking points,
6 etc.) should be cleared through NIFC Public Affairs prior to external
7 release.
- 8
- 9 Core SAI Team members are required to take the Interagency Serious Accident
10 Investigation Course 1112-05 prior to serious accident investigation assignment.
11 This training is also required every 5 years for recurrency.
- 12 ● **FS/BLM/FWS**- This training is required every 5 years to retain currency.
- 13

14 **SAIT Final Report**

15 Within 45 days of the incident, a final report consisting of a Factual Report (FR)
16 and a Management Evaluation Report (MER) will be produced by the
17 investigation team to document facts, findings, and recommendations and
18 forwarded to the Designated Agency Safety and Health Official (DASHO)
19 through the agency Fire Director(s).

20

21 Factual and Management Evaluation Report formatting can be found on the
22 NIFC website at: http://www.nifc.gov/safety/accident_resources.htm

24 **Factual Report**

25 This report contains a brief summary or background of the event, and facts
26 based only on examination of technical and procedural issues related to
27 equipment and tactical fire operations. It does not contain opinions,
28 conclusions, or recommendations. Names of injured personnel are not to be
29 included in this report (reference them by position). Post-accident actions
30 should be included in this report (emergency response attribute to survival of a
31 victim, etc).

32

33 Factual Reports will be submitted to Wildland Fire Lessons Learned Center
34 (LLC) by the respective agency's fire safety/risk management leads. E-mail:
35 llcdocsubmit@gmail.com

37 **Management Evaluation Report (MER)**

38 The MER is intended for internal use only and explores management policies,
39 practices, procedures, and personal performance related to the accident. The
40 MER categorizes findings identified in the factual report and provides
41 recommendations to prevent or reduce the risk of similar accidents.

43 **Accident Review Board/Board of Review**

44 An Accident Review Board/Board of Review is used by some agencies to
45 evaluate recommendations, and develop a corrective action plan. Refer to the
46 respective agency's Safety and Health policy.

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18-11

1 Wildland Fire Accident Investigation Process

2

3 Notification

4 When an accident occurs, Agency specific notification requirements shall be
5 followed. In most instances, supervisors will notify the unit fire management
6 officer, who will then make notification through chain of command.

7

8 Investigation Team Membership

9 Investigation team membership should be commensurate with the complexity
10 and/or severity of the accident. For complex investigations, the team should
11 consist of a chief investigator, a safety advisor/manager, and one technical
12 specialist. Team members may have dual roles (e.g., chief investigator/safety
13 advisor). More complex accidents may require the need for a Team Leader and
14 multiple technical specialists.

15

16 Investigation Methodology

17 Accident Investigations (AI) are detailed and methodical efforts to collect and
18 interpret facts related to an accident and to provide specific recommendations to
19 prevent recurrence. The AI should include the following actions:

- 20 • Visual inspection of involved site, equipment, or material.
- 21 • Detailed analysis of equipment or material, as necessary.
- 22 • Interviews with involved personnel, witnesses, managers, and other
23 pertinent persons.
- 24 • Collection and review of written statements.
- 25 • Review of records, archives, plans, policies, procedures, and other pertinent
26 documents.
- 27 • Consideration of environmental, equipment, material, procedural, and
28 human factors as they related to the incident.
- 29 • Development of specific findings and related recommendations for the AI
30 report.

31

32 Final Report

33 Within 45 days of the accident, a final report including facts, findings, and
34 recommendations shall be submitted to the senior manager dependent upon the
35 level of investigation (e.g., Local agency administrator, State/Regional Director,
36 and Agency Fire Director or their designee). If a lower level investigation is
37 conducted, a courtesy copy of the final report shall be sent to the respective
38 agency's national fire safety/risk management lead.

39 The Final Report (minus names of employees- they should be referenced by
40 position) will be submitted to Wildland Fire Lessons Learned Center (LLC) by
41 the respective agency's National Fire Safety Leads. E-mail:

42 llcdocsubmit@gmail.com

43

44

45

46

1 **Accident Investigation Report Standard Contents**

- 2 • **Executive Summary** - A brief narrative of the facts involving the accident
3 including dates, locations, times, name of incident, jurisdiction(s), number
4 of individuals involved, etc. Names of injured personnel or personnel
5 involved in the accident are not to be included in this report (reference them
6 by position).
- 7 • **Narrative** - A detailed chronological narrative of events leading up to and
8 including the accident, as well as rescue and medical actions taken after the
9 accident. This section will contain who, what, and where.
- 10 • **Investigation Process**- A brief narrative of actions taken by the
11 investigation team. This narrative should include investigation team
12 membership, Delegation of Authority information (from who and contents),
13 investigative actions and timeline (when the team conducted interviews,
14 inspections, site visits, etc.), and if other sources were consulted (i.e.
15 professional accident reconstruction experts, equipment manufacturers,
16 etc.). This section should also address if environmental, equipment,
17 material, procedural, and human factors were present, and state how
18 findings/recommendations were developed.
- 19 • **Findings/Recommendations**
- 20 ○ **Findings** are developed from the factual information. Each finding is a
21 single event or condition. Each finding is an essential step in the
22 accident sequence, but each finding is not necessarily causal or
23 contributing. Do not include any more information in each finding than
24 is necessary to explain the event occurrence. Findings must be
25 substantiated by the factual data and listed in chronological order
26 within the report. Do not include opinion or speculation.
- 27 ○ **Discussion** - Provide a brief explanation of factual and other pertinent
28 information that lead to the finding(s).
- 29 ○ **Recommendations** - Recommendations are the prevention measures
30 that should be taken to prevent similar accidents. Provide
31 recommendations that are consistent with the findings, do not contain
32 opinion or speculation, and identify who is responsible for completing
33 the recommended action. If no action is required, state as such.
- 34 • **Conclusions and Observations** - Investigation team's opinions and
35 inferences, and "lessons learned" may be captured in the section.
- 36 • **Maps/Photographs/Illustrations** - Graphic information used to document
37 and visually portray facts.
- 38 • **Appendices** - Reference materials (e.g., fire behavior analysis, equipment
39 maintenance reports, agreements).
- 40 • **Records** - Factual data and documents used to substantiate facts involving
41 the accident.

42
43 An AI report template and examples of AI reports can be found at the NIFC
44 Safety website: http://www.nifc.gov/safety/safety_reprtsInvest.html

45

1 Fire Cause Determination and Trespass Investigation

2

3 Introduction

4 Agency policy requires any wildfire to be investigated to determine cause,
5 origin, and responsibility. Accurate fire cause determination is a necessary first
6 step in a successful fire investigation. Proper investigative procedures, which
7 occur concurrent with initial attack, more accurately pinpoint fire causes and can
8 preserve valuable evidence that would otherwise be destroyed by suppression
9 activities. Fire trespass refers to the occurrence of unauthorized fire on agency-
10 protected lands where the source of ignition is tied to some type of human
11 activity.

12

13 Policy

14 The agency must pursue cost recovery, or document why cost recovery is not
15 required, for all human-caused fires on public lands. The agency will also
16 pursue cost recovery for other lands under fire protection agreement where the
17 agency is not reimbursed for suppression actions, if so stipulated in the
18 agreement.

19

20 For all human-caused fires where negligence can be determined, trespass actions
21 are to be taken to recover cost of suppression activities, land rehabilitation, and
22 damages to the resource and improvements. Only fires started by natural causes
23 will not be considered for trespass and related cost recovery.

24

25 The determination whether to proceed with trespass action must be made on
26 “incident facts,” not on “cost or ability to pay.” Trespass collection is both a
27 cost recovery and a deterrent to prevent future damage to public land. It is
28 prudent to pursue collection of costs, no matter how small. This determination
29 must be documented and filed in the unit office’s official fire report file.

30

31 The Agency Administrator has the responsibility to bill for the total cost of the
32 fire and authority to accept only full payment. On the recommendation of the
33 State/Regional Director, the Solicitor/Office of General Counsel may
34 compromise claims of the United States, up to the monetary limits (\$100,000)
35 established by law 31 U.S.C. 3711[a], 4 CFR 103-104, and 205 DM 7.1 and 7.2.
36 The Solicitor/Office of General Counsel will refer suspension or termination of
37 the amount, in excess of \$100,000, exclusive of interest, penalties, or
38 administrative charges, to the Department of Justice.

39

40 Unless specified otherwise in an approved protection agreement, the agency that
41 has the land management jurisdiction/administration role is accountable for
42 determining the cause of ignition, responsible party, and for obtaining all
43 billable costs, performing the billing, collection, and distribution of the collected
44 funds. The agency with the fire protection responsibility role must provide the
45 initial determination of cause to the agency with the land management
46 jurisdiction/administration role. The agency providing fire protection shall

- 1 provide a detailed report of suppression costs that will allow the jurisdictional
 2 agency to proceed with trespass procedures in a timely manner.
 3
 4 Each agency’s role in fire trespass billing and collection must be specifically
 5 defined in the relevant Cooperative Fire Protection Agreement. The billing and
 6 collection process for federal agencies is:
- 7 • For example, a federal agency fire occurs on another federal agency’s land
 8 and is determined to be a trespass fire. BLM provides assistance, and
 9 supplies costs of that assistance to the federal agency with jurisdictional
 10 responsibility for trespass billing. The responsible federal agency bills and
 11 collects trespass, and BLM then bills the federal agency and is reimbursed
 12 for its share of the collection.
 - 13 • For example, where BLM administered land is protected by a state agency,
 14 the billing and collection process is:
 - 15 ○ The state bills BLM for their suppression costs. The BLM will pursue
 16 trespass action for all costs, suppression, rehabilitation, and damages,
 17 and deposits the collection per BLM’s trespass guidance.
- 18
 19 All fires must be thoroughly investigated to determine cause. Initiation of cause
 20 determination must be started with notification of an incident. The initial attack
 21 Incident Commander and the initial attack forces are responsible for initiating
 22 fire cause determination and documenting observations starting with their travel
 23 to the fire. If probable cause indicates human involvement, an individual trained
 24 in fire cause determination should be dispatched to the fire.
- 25 Agency references:
- 26 • **BLM** - 9238-1
 - 27 • **FWS** - *Fire Management Handbook*
 - 28 • **NPS** - *RM-18, Chapter 8 and RM-9*
 - 29 • **FS** - *FSM 5130 and FSM 5300*

30
 31 **Related Policy Documents**

32 These documents provide specific direction related to incident and accident
 33 investigations.

	Safety	Prescribed Fire
DOI	485 DM Chapter 7	
BLM	Manual 1112-2, 1112-1	
FWS	Service Manual 095	
NPS	DO/RM-50B, RM-18 Chapter 3	RM-18, Chapter 7
FS	FSH-6709.11	FSM-5140
	FSM-5100 and FSH-6709.11, FSM 5720 (Aviation), FSM 5130 (Ground Operations), FSM 6730 (Specific policy), FSH 6709.12 Chapter 30 (General guidance), and most recent <i>Accident Investigation Guide</i> , for specific guidance.	
Interagency	Information on accident investigations may be found at: http://www.nifc.gov/safety/accident_resources.htm . For reporting use <i>PMS 405-1</i> , <i>Wildland Fire Fatality and Entrapment Initial Report</i> , on the NWCG website.	

**Sample Questions
For Fire Site Visits
By Agency Administrators**

Management Direction

- ___ Who is the incident commander? If the fire is being managed under Unified Command, are all commanders present? Is the incident operating smoothly?
- ___ What is the incident organization?
- ___ What is the current situation? What has been damaged or is at risk?
- ___ Have you received adequate direction for the management of the incident? Is a Wildfire Decision Support System required/still valid?
- ___ What are the incident management objectives? Constraints? Probability of success?
- ___ Are the tactics in the Incident Action Plan realistic and achievable with current resources?
- ___ Is a resource advisor needed?
- ___ What are your estimates of suppression costs?
- ___ What are the incident commander's concerns?
- ___ What are the local, social, economic, and political issues?
- ___ Are there rehabilitation needs?
- ___ What can I, as the agency administrator, do to help?

Safety

- ___ What are your safety concerns?
- ___ Are these concerns resolved? If not, what needs to be done?
- ___ What is the general safety attitude and emphasis?
- ___ Have you assessed the potential hazardous situations and determined if the fire can be fought safely?
- ___ Have you applied the Fire Orders, Watchout Situations, Lookout, Communication, Escape Routes, Safety Zones (LCES) process in selecting safe and effective strategies and tactics?
- ___ Have you effectively briefed firefighters on hazards, safety zones, escape routes, and current and expected weather and fire behavior?
- ___ Is the safety officer position filled? If not, how is this function being addressed?
- ___ Are you monitoring work schedules to ensure adequate rest? Are you meeting the standard work/rest guidelines?
- ___ Have you provided for adequate rest, food, water, and health services for all personnel?
- ___ Are all the fire personnel qualified for the positions they hold, and are they physically able to perform?
- ___ Have you had any injuries or accidents?

Fire Suppression Operations

- ___ What is the fire weather forecast (present and extended)?
- ___ What is the fire behavior potential?
- ___ Are fire personnel briefed on incident objectives, strategies, tactics, organization, communications, hazards, and safety principles?
- ___ Are the strategy and tactics based on current and forecasted weather?
- ___ Are the strategy and tactics safe, effective, and consistent with management's objectives and accepted fire policies and procedures?
- ___ Do you have effective communication on the incident and with dispatch?
- ___ Are you monitoring weather and fire behavior to make needed adjustments to strategy and tactics?
- ___ Are you using tactical aircraft? Do you have an assigned air tactical group supervisor?
- ___ Is aircraft use safe, effective, and efficient? Do you have a TFR?
- ___ If the fire escapes initial attack, what will your role be in developing the Wildfire Decision Support System?

Administration

- ___ Do you have any administrative concerns?
- ___ What arrangements have you made to complete time reports, accident forms, fire report, etc.?
- ___ Did all orders and procurement go through dispatch?
- ___ Do you have any outstanding obligations?
- ___ Are all rental agreements and use records properly completed?
- ___ How did the fire start? If human-caused, has an investigation been initiated to determine the cause and develop a trespass case?
- ___ Do you know of any current or potential claims?

Dispatch Office

- ___ Is the incident receiving fire weather and fire behavior information?
- ___ Is the incident getting the resources ordered in a timely manner?
- ___ Is dispatch adequately staffed?
- ___ What are the local, area, and National Preparedness Levels? How do they affect this fire?
- ___ Are the elements identified at the various Preparedness Levels being considered?
- ___ What are the current local, area and national fire situations?
- ___ What is the priority of existing fires and how are the priorities being determined.

Manager's Supplement for Post Incident Review

Incident Commander _____
 Incident Name and No. _____
 Start Date and Duration of Incident _____
 Date of Incident Debriefing _____
 List of Debriefing Attendees:

Brief synopsis of fire behavior and narrative of the incident:

Fire Size-up:

- Gave an accurate sizeup of the fire to dispatch upon arrival?
- Managed fire suppression resources in accordance with the management objectives for the area and availability of resources?
- Did the unit support organization provide timely response and feedback to your needs? (Appendix A)
- Were there any radio communication issues?

Provide for the Safety and Welfare of Assigned Personnel:

- Gave operation briefing prior to firefighters being assigned to incident operations.
- How were incoming resources debriefed; via radio, personal contact?
- Were agency work/rest guidelines followed? Was adequate food and water provided to firefighters?

Fire Suppression Operations:

- Explain how the strategies and tactics used met management objectives, without compromising adherence to the Fire Orders, Watch Out Situations, and LCES?
- How were weather conditions monitored: daily weather briefings, spot weather forecasts or other?
- Were there adjustments needed to strategy and tactics?
- What were the potentially hazardous situations, and their mitigations?
- How were projected changes in the weather, tactics, hazards and fire behavior communicated to fire personnel?
- Were communications effective with dispatch and supervisor?
- Were all interested parties kept informed of progress, problems, and needs. Was aviation support used? If so, was it effective?
- Were there any injuries, close calls, or safety issues that should be discussed? Were these documented?

Administrative Responsibilities:

- Submitted complete documentation to supervisor for time, accidents, incident status, unit logs, evaluations, and other required or pertinent reports?
- Provided timely and effective notification of the fire status and unusual events or occurrences to dispatch and management.
- As requested, provided effective input into the Wildfire Decision Support System.
- If necessary, provided team transition briefing as assigned.
- Form ICS 201 was completed in accordance with local policy.

Release Date: January 2011

APPENDIX B-1

Delegation for Unit Fire Management Officers

_____, Fire Management Officer for the _____ (Unit) is delegated authority to act on my behalf for the following duties and actions:

- 1. Represent the _____ (Agency) in the _____ Multi-Agency Coordinating Group in setting priorities and allocating resources for fire emergencies.
2. Coordinate all prescribed fire activities in the _____ (Unit) and suspending all prescribed fire and issuance of burning permits when conditions warrant.
3. Ensure that only fully qualified personnel are used in wildland fire operations.
4. Coordinate, preposition, send, and order fire and aviation resources in response to current and anticipated zone fire conditions.
5. Oversee and coordinate the _____ Interagency Dispatch Center on behalf of the _____ (Agency).
6. Request and oversee distribution of severity funding for Unit Fire and Aviation.
7. Approve Fire Program requests of overtime, hazard pay, and other premium pay.
8. Ensure all incidents are managed in a safe and cost-effective manner.
9. Coordinate and provide all fire and prevention information needs to inform internal and external costumers with necessary information.
10. Coordinate all fire funding accounts with the Budget Officer to assure unit fiscal guidelines are adhered to and targets are met.
11. Approve and sign aviation request forms.
12. Approve Red Cards in accordance with agency policy.
13. Authorized to hire Emergency Firefighters in accordance with the Emergency Worker Pay Plan.

Fire Management Officer

Date

Agency Administrator

Date

Air Operations
Effectiveness
Hazards
Air Space Restrictions
Airports, Heliports, Helispots
Suppression Policies
Other
Environmental, Social, Political, Economic, and Cultural Resource Considerations
Environmental
Social
Political
Economic
Cultural Resource
Communications
Radio
Telephone
Electronic (Computers)
Expanded Dispatch
Procurement Arrangements
Agreements
Tribal Government
Infrared Status

Security Considerations
Incident Management Direction and Considerations
Wildfire Decision Support System
Delegation of Authority
Agency Administrator's Representative
Incident Business Advisor
Resource Advisor
Suppression Priorities
Forest Supervisor/Incident Commander Contact
Time
Process
News Media and Incident Information Management
Training Considerations
Interagency/Private Property Considerations (costs, etc.)
Mop Up Standards
Rehabilitation Considerations
Initial Attack Responsibility
Support to Other Incidents
Disposition of Unit Resources on the Incident
Close Out and Debriefing

Human Welfare
Safety
Health
Civil Rights
Distribute Support Documents
Wildfire Decision Support System (Common WFDSS if Unified Command)
Delegation of Authority Letter
Map & Photos
Fire Management, Pre-Attack, Land Management Plans
Weather Forecast
Special Management Area Documents
Phone Directory, Fax Number
Agreements
Incident Status Summary (ICS - 209)
Business Management Documents
Payments (Vendors and Casuals)
Claims
Injury Compensation
Incident Business Guidelines (ISOPS)

**Guide to Completing the Incident Complexity Analysis
(Type 1, 2)**

- If positive responses exceed, or are equal to, negative responses within any primary factor (A through G), the primary factor should be considered as a positive response.
- If any three of the primary factors (A through G) are positive responses, this indicates the fire situation is or is predicted to be of Type 1 complexity.
- Factor H should be considered after numbers 1–3 are completed. If more than two of the items in factor H are answered yes, and three or more of the other primary factors are positive responses, a Type 1 team should be considered. If the composites of H are negative, and there are fewer than three positive responses in the primary factors (A-G), a Type 2 team should be considered. If the answers to all questions in H are negative, it may be advisable to allow the existing overhead to continue action on the fire.

Incident Complexity Analysis Type 1 & 2	YES	NO
A. Fire Behavior (Observed or Predicted)		
1. Burning index (from on-site measurement of weather conditions) predicted to be above the 90% level using the major fuel model in which the fire is burning.		
2. Potential exists for extreme fire behavior (fuel moisture, winds, etc.).		
3. Crowning, profuse or long-range spotting.		
4. Weather forecast indicating no significant relief or worsening conditions.		
Total		
B. Resources Committed		
1. 200 or more personnel assigned.		
2. Three or more divisions.		
3. Wide variety of special support personnel.		
4. Substantial air operation which is not properly staffed.		
5. Majority of initial attack resources committed.		
Total		

C. Resources Threatened		
1. Urban interface.		
2. Developments and facilities.		
3. Restricted, threatened, or endangered species habitat.		
4. Cultural sites.		
5. Unique natural resources, special-designation areas, wilderness.		
6. Other special resources.		
Total		
D. Safety		
1. Unusually hazardous fireline construction.		
2. Serious accidents or fatalities.		
3. Threat to safety of visitors from fire and related operations.		
4. Restrictions and/or closures in effect or being considered.		
5. No night operations in place for safety reasons.		
Total		
E. Ownership		
1. Fire burning or threatening more than one jurisdiction.		
2. Potential for claims (damages).		
3. Different or conflicting management objectives.		
4. Disputes over suppression responsibility.		
5. Potential for unified command.		
Total		
F. External Influences		
1. Controversial fire policy.		
2. Pre-existing controversies/relationships.		
3. Sensitive media relationships.		
4. Smoke management problems.		
5. Sensitive political interests.		
6. Other external influences.		
Total		

G. Change in Strategy		
1. Change in strategy to control from confine or contain		
2. Large amounts of unburned fuel within planned perimeter.		
3. Wildfire Decision Support System invalid or requires updating.		
Total		
H. Existing Overhead		
1. Worked two operational periods without achieving initial objectives.		
2. Existing management organization ineffective.		
3. Overhead overextended mentally and/or physically.		
4. Incident action plans, briefings, etc. missing or poorly prepared.		
Total		

Signature

Date

Title

Time

NOTE:

The National Wildfire Coordinating Group has adopted the Organizational Needs Assessment to assist managers and firefighters with determining the type of organization necessary to manage an incident. Personnel should utilize the Organizational Needs Assessment in addition to this complexity analysis.

The Organizational Needs Assessment can be found at:
<http://www.wfmrda.org/policy.php>

Incident Complexity Analysis (Type 3, 4, 5)		
Fire Behavior	Yes	No
Fuels extremely dry and susceptible to long-range spotting or you are currently experiencing extreme fire behavior.		
Weather forecast indicating no significant relief or worsening conditions.		
Current or predicted fire behavior dictates indirect control strategy with large amounts of fuel within planned perimeter.		
Firefighter Safety		
Performance of firefighting resources affected by cumulative fatigue.		
Overhead overextended mentally and/or physically.		
Communication ineffective with tactical resources or dispatch.		
Organization		
Operations are at the limit of span of control.		
Incident action plans, briefings, etc. missing or poorly prepared.		
Variety of specialized operations, support personnel or equipment.		
Unable to properly staff air operations.		
Limited local resources available for initial attack.		
Heavy commitment of local resources to logistical support.		
Existing forces worked 24 hours without success.		
Resources unfamiliar with local conditions and tactics.		
Values to be protected		
Urban interface; structures, developments, recreational facilities, or potential for evacuation.		
Fire burning or threatening more than one jurisdiction and potential for unified command with different or conflicting management objectives.		
Unique natural resources, special-designation areas, critical municipal watershed, T&E species habitat, cultural value sites.		
Sensitive political concerns, media involvement, or controversial fire policy.		

If you have checked "Yes" on 3 to 5 of the analysis boxes, consider requesting the next level of incident management support. **SEE NEXT PAGE**

Release Date: January 2012

APPENDIX F-1

NOTE:

The National Wildfire Coordinating Group has adopted the Organizational Needs Assessment to assist managers and firefighters with determining the type of organization necessary to manage an incident. Personnel should utilize the Organizational Needs Assessment in addition to this complexity analysis for Type 1, 2, and 3 incidents.

The Organizational Needs Assessment can be found at:
<http://www.wfmrda.org/policy.php>

**Sample Delegation of Authority:
Delegation of Authority
Colorado State Office
Montrose Field Office**

As of 1800, May 20, 2005, I have delegated authority to manage the Crystal River Fire, Number E353, San Juan Resource Area, to Incident Commander Bill Jones and his Incident Management Team.

The fire, which originated as four separate lightning strikes occurring on May 17, 2005, is burning in the Crystal River Drainage. My considerations for management of this fire are:

1. Provide for firefighter and public safety.
2. Manage the fire with as little environmental damage as possible.
3. Key cultural features requiring priority protection are:
4. Key resources considerations are:
5. Restrictions for suppression actions include:
6. Minimum tools for use are:
7. My agency Resource Advisor will be:
8. The fire borders are:
9. Manage the fire cost-effectively for the values at risk.
10. Provide training opportunities for the resources area personnel to strengthen our organizational capabilities.
11. Minimum disruption of residential access to private property, and visitor use consistent with public safety.
12. Efforts should be made to minimize some impacts to communities and ensure that communication is maintained with the state Air Quality Bureau.

(Signature and Title of Agency Administrator)

(Date)

Amendment to Delegation of Authority

The Delegation of Authority dated May 20, 2005, issued to Incident Commander Bill Jones for the management of the Crystal River Fire, number E353, is hereby amended as follows. This will be effective at 1800, May 22, 2005.

13. Key cultural features requiring priority protection are:
14. Use of tracked vehicles authorized to protect Escalante Cabin.

(Signature and Title of Agency Administrator)

(Date)

Local Incident Commander Briefing

The Incident Briefing, ICS-201 form provides the basis for the local incident commander to brief the incoming team.

Briefing Information

Forms Available or Attached:		Other Attachments:
<input type="checkbox"/> ICS 201	<input type="checkbox"/> ICS 215	<input type="checkbox"/> Map of Fire
<input type="checkbox"/> ICS 207	<input type="checkbox"/> ICS 220	<input type="checkbox"/> Aerial Photos
<input type="checkbox"/> ICS 209		<input type="checkbox"/> Weather Forecast
Fire Start Date:		
Time:		
Fire Cause:		
Fuels Ahead of Fire:		
Fuels at Fire:		
Fire Behavior:		
Fire Spread:		
Natural Barriers:		
Anchor Points:		
Perimeter Secured, Control/Mitigation Efforts Taken, and Containment Status:		
Life, Improvements, Resources and Environmental Issues:		

Weather Forecast:			
	Established	Possible	
ICP:	<input type="checkbox"/>	<input type="checkbox"/>	
Base:	<input type="checkbox"/>	<input type="checkbox"/>	
Camp(s):	<input type="checkbox"/>	<input type="checkbox"/>	
Staging Area(s):	<input type="checkbox"/>	<input type="checkbox"/>	
Copy Machine Available		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Safety Issues:		EMS in Place: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Air Operations Effectiveness to Date:			
Air Related Issues and Restrictions:			
Hazards (Aircraft and People):			
Access from Base to Line:			
Personnel and Equipment on Incident (Status and Condition):			
Personnel and Equipment Ordered:			
Cooperating and Assisting Agencies on Scene:			
Helibase/Helispot Location:			

Crash Fire Protection at Helibase:
Medivac Arrangement:
Communication System in Use: <input type="checkbox"/> Radio <input type="checkbox"/> Telephone <input type="checkbox"/> Cell Phone
Water Availability:
Review of Incident Action Plan; Copy of Approved Wildfire Decision Support System Published Decision:
Smoke Conditions:
Local Political Issues:
Damage Assessment Needs:
Security Problems:

Incident Management Team Performance Evaluation						
Team IC		Incident Type				
Incident Name		Incident Number				
Assignment Dates		Total Acres				
Host Agency		Evaluation Date				
Administrative Unit		Sub-Unit				
<p>At the conclusion of each incident management team (IMT) assignment, the agency administrator or representative should complete this initial performance evaluation (sections 1 - 5). This evaluation should be discussed directly with the incident commander. The initial performance evaluation should be delivered by the agency administrator without delay to the incident commander, the state/regional fire management officer, and the chair of the IMT's home geographic area multi-agency coordination group to ensure prompt follow-up to any issues of concern.</p>						
<p>Complete the follow evaluation narratives and rating for each question 0 - did not achieve expectations, 3 - met expectations, 5 - excelled</p>						
<p>1. How well did the Team accomplish the objectives described in the Wildland Fire Decision Support System (WFDSS) the Delegation of Authority, and the Agency Administrator Briefing?</p>						
Circle one	0	1	2	3	4	5
<p>(Explain)</p>						
<p>2. How well did the Team manage the cost of the incident? Did the team follow agency incident operating guidelines? Were follow-up issues identified and documented for the Agency Administrator ie; invoices, OWCP and vendor issues?</p>						
Circle one	0	1	2	3	4	5
<p>(Explain)</p>						

3. How did the Team demonstrate sensitivity to resource limits/constraints and environmental concerns?						
Circle one	0	1	2	3	4	5
(Explain)						
4. How well did the Team deal with sensitive political and social concerns?						
Circle one	0	1	2	3	4	5
(Explain)						
5. Was the Team professional in the manner in which they assumed management of the incident and how they managed the total incident? How did the Team handle transition either to another IMT or in returning the incident the hosting agency?						
Circle one	0	1	2	3	4	5
(Explain)						
6. How well did the Team anticipate and respond to changing conditions, was the response timely and effective?						
Circle one	0	1	2	3	4	5
(Explain)						
7. How well did the Team place the proper emphasis on safety?						
Circle one	0	1	2	3	4	5
(Explain)						

8. Did the Team activate and manage the mobilization/demobilization in a timely and cost effective manner?						
Circle one	0	1	2	3	4	5
(Explain)						
9. How well did the Team use local resources, trainees, and closest available forces?						
Circle one	0	1	2	3	4	5
(Explain)						
10. How did the Team notify the incident agency regarding triggers for initiating a cost share agreement or large fire cost review? How were those recommendations implemented?						
Circle one	0	1	2	3	4	5
(Explain)						
11. Was the IC engaged and in charge of the Team and the Incident? How well did the IC function and operate as a leader?						
Circle one	0	1	2	3	4	5
(Explain)						

12. How timely was the IC in assuming responsibility for the incident and initiating action?						
Circle one	0	1	2	3	4	5
(Explain)						
13. How did the IC show sincere concern and empathy for the hosting unit and local conditions?						
Circle one	0	1	2	3	4	5
(Explain)						
14. Did the Incident Management Team provide an organized financial package (comps/claims documentation completed, payment documents forwarded, I-suite updated, etc.) to the host unit or next IMT prior to demobilization?						
Circle one	0	1	2	3	4	5
(Explain)						
15. Other comments:						
Agency Administrator or Representative:					Date:	
Incident Commander:					Date:	

1 Memorandum

2

3 To: LLR Facilitator; Title of Person/Office This is Meant For

4

5 From: Delegating Official

6

7 Subject: Delegation of Authority - (Incident Name) LLR

8

9

10 Situation Summary:

11

12 You are hereby designated the authority to lead and conduct an LLR for
13 (Incident Name). The review process will begin at (Identify LLR start time,
14 date, and location). The Fire Staff and Fire Management Office have identified
15 the group of employees who will also be participating. That information will be
16 provided to you upon your arrival.

17

18 You have the authority to tailor your team and the LLR process to fit the
19 situation and your style of facilitation. However, I would like you to utilize the
20 guidance outlined in the *Interagency Standards for Fire and Fire Aviation*
21 *Operations Chapter 18*, while conducting the LLR. This includes:

- 22 • convening the participants;
- 23 • identifying facts of the event and developing a chronological narrative of
24 the event;
- 25 • identifying underlying reasons for success or failure;
- 26 • identifying what was learned and what should/could be done differently in
27 the future;
- 28 • identify any recommendations that would prevent future similar
29 occurrences; and
- 30 • providing a final, written report covering the above items, which is due to
31 me within two weeks of the event occurrence.

32

33 If you need any assistance, your primary contact will be:

34

35 Thank you for your time and assistance.

1 **Interim NWCG Minimum Standards of Incident Emergency Medical Services**

Incident Size	Initial Attack	<250	250 to 500	> 500
Medical Unit Leader (MEDL)	No	TBD by IC and jurisdictional agency	YES (1)	YES (1)
First Responder or Basic FA	Yes	Yes	N/A	N/A
MEDL EMTs	No	No	1	2
EMTs	No	To be determined by the IC or jurisdictional agency.	1	2
MEDL Quals	N/A	N/A	310-1 Basic EMT	310-1 Basic EMT
Med Unit EMT Quals	N/A	Basic EMT	310-1 Basic EMT	310-1 Basic EMT
EMTs per Division	N/A	To be determined in consultation with Operations and/or Medical Unit		
Establish Local Medical Direction	N/A	To be determined by the IC or jurisdictional agency.	Yes	Yes
First Aid Kits	Pocket & Vehicle First Aid Kits	Pocket, Vehicle & Crew First Aid Kits	Pocket, Vehicle & Crew First Aid Kits	Pocket, Vehicle & Crew First Aid Kits
100 person First Aid Kit	No	To be determined by the IC or jurisdictional agency.	Yes	No
500 person First Aid Kit	No	No	No	Yes
AED	No	To be determined by the IC or jurisdictional agency.	Yes	Yes
Oxygen	No	No	TBD	Yes
OTC Meds	No	To be determined in consultation with Safety Officer, Medical Unit Leader, and Finance Section Chief		
Emergency Transport	N/A	Method to provide transport to the nearest medical facility is to be identified in the Incident Action Plan		

2 **NOTE:** Regional differences/protocols exist: e.g., Northern Rockies (Incident
 3 Medical Specialist Program), Pacific Northwest (Incident Medical Specialist Program)
 4 and Alaska (Firemedic Program) that are different from these guidelines and may require
 5 a higher level of EMS service.

Delegation of Authority
_____ Geographic Area
Fire & Aviation Safety Team (FAST)

Situation Summary (Issues and Concerns/ Reason for ordering the FAST)

Objectives (Measurable)

Team Skills Required (Per Objectives listed above.)

The final team composition will be determined at time of dispatch and members named on the resource order.

Mission

The FAST is to conduct an independent assessment and evaluation of operational and managerial activities (related to the specific objectives stated above) at the following locations (mission segments):

The team may determine visits to other incidents/organizations/operations as appropriate, and may do so after coordination with the GMAC. The FAST will contact the GMAC Coordinator (describe frequency of contact):

The FAST is to provide technical or managerial assistance when requested and where necessary to immediately correct an identified, critical problem. The FAST may also provide short-term assistance in managing situations or incidents when requested by the incident, organization, or operation.

Protocols

The FAST will organize and conduct an entry briefing with the appropriate managers of the locations/incidents identified previously. The entry briefing will provide the objectives and operational parameters of the mission.

Once the mission segment is completed, the FAST will organize and conduct an exit briefing with the same officials or their designees, during which a draft of the mission-segment report will be presented and discussed. Components of this report will include:

- Purpose and Objectives
- Findings, Commendations, and Recommendations
- Follow-up Actions Needed

Release Date: January 2012

APPENDIX L-1

- Immediate
- Long-term
- Scope [local, area, national]
- Copy of the DoA

The FAST will contact the GMAC Coordinator_____.

FAST will provide a final written report to the GMAC Coordinator upon completion of all mission segments. This report will include:

- FAST Final Report Outline
- Executive Summary
- Purpose and Objectives
- Summary (Findings, Recommendations, Commendations, Assistance Provided)
- Critical and Immediate Follow-up Actions Required
- Introduction
- Methods and Procedures
- Mission Segments (Summary of Incidents, Organizations, Operations Reviewed. Include copies of Mission Segment Reports).
- Analysis
- Findings and Trends, Commendations, and Recommendations
- Follow-up Actions Needed
- Immediate
- Long-term
- Scope [local, area, national]
- A copy of the DoA

The _____ Multi-Agency Coordination Group hereby charters and delegates the preceding authority to _____, FAST Leader, effective on _____.

/s/

Chair, _____ Coordinating Group

Date: _____

The following chart shows the NUS minimum stocking levels required for agency engines.
BLM units see the agency specific NUS on the NFEP website.

Category	Item Description	NFES #	Type	
			3, 4, & 5	6
Fire Tools & Equip	McLeod	0296	1	
	Combination Tool	1180	1	1
	Shovel	0171	3	2
	Pulaski	0146	3	2
	Backpack Pump	1149	3	2
	Fusees (case)	0105	1	½
	Foam, concentrate, Class A (5-gallon)	1145	1	1
	Chainsaw (and chaps)		1	1
	Chainsaw Tool Kit	0342	1	1
	Drip Torch	0241	2	1
	Portable Pump		*	*
	Medical	First Aid Kit, 10-person	1143	1
Burn Kit			1	1
Body Fluids Barrier Kit		0640	1	1
General Supplies	Flashlight, general service	0069	1	1
	Chock Blocks		1	1
	Tow Chain or Cable	1856	1	1
	Jack, hydraulic (comply w/GVW)		1	1
	Lug Wrench		1	1
	Pliers, fence		1	1
	Food (48-hour supply)	1842	1	1
	Rags	3309	*	*
	Rope/Cord (feet)		50	50
	Sheeting, plastic, 10' x 20'	1287	1	1
	Tape, duct	0071	1	1
	Tape, filament (roll)	0222	2	2
	Water (gallon/person) minimum		2	2
	Bolt Cutters		1	1
	Toilet Paper (roll)	0142	*	*
	Cooler or Ice Chest	0557	*	*
	Hand Primer, Mark III	0145	*	*
	Hose Clamp	0046	2	1
	Gaskets (set)		1	1
	Pail, collapsible	0141	1	1
Hose Reel Crank		*	*	

Safety	Fire Extinguisher (5 lb)	2143	1	1
	Flagging, Pink (roll)	0566	*	*
	Flagging, Yellow w/Black Stripes (roll)	0267	*	*
	Fuel Safety Can (Type 2 OSHA, metal, 5-gallon)	1291	*	*
	Reflector Set		*	*
Vehicle & Pump Support	General Tool Kit (5180-00-177-7033/GSA)		1	1
	Oil, automotive, quart		4	2
	Oil, penetrating, can		1	1
	Oil, automatic transmission, quart		1	1
	Brake Fluid, pint		1	1
	Filter, gas		1	1
	Fan Belts		1	1
	Spark Plugs		1	1
	Hose, air compressor w/adapters		1	0
	Fuses (set)		1	1
	Tire Pressure Gauge		1	1
	Jumper Cables		1	1
	Battery Terminal Cleaner		*	*
	Tape, electrical, plastic	0619	1	1
Tape, Teflon		1	1	
Personal Gear (Extra Supply)	File, mill, bastard	0060	*	*
	Head Lamp	0713	1	1
	Hard Hat	0109	1	1
	Goggles	1024	2	2
	Gloves		*	*
	First Aid Kit, individual	0067	1	1
	Fire Shirt		*	*
	Fire Shelter w/case & liner	0169	2	1
	Packsack	0744	2	1
	Batteries, headlamp (pkg)	0030	6	4
	Ear Plugs (pair)	1027	3	3
Radio	Portable		1	1
	Mobile		1	1
	Batteries (for portable radio)		2	2
Hose	Booster (feet/reel)	1220	100	100
	Suction (length, 8' or 10')		2	2
	1" NPSH (feet)	0966	300	300
	1 1/2" NH (feet)	0967	300	300
	3/4" NH, garden (feet)	1016	300	300
	1 1/2" NH, engine protection (feet)		20	20
	1 1/2" NH, refill (feet)		15	15

Nozzle	Forester, 1" NPSH	0024	3	2
	Adjustable, 1" NPSH	0138	4	2
	Adjustable, 1 1/2" NH	0137	5	3
	Adjustable, 3/4" NH	0136	4	2
	Foam, 3/4" NH	0627	1	1
	Foam 1 1/2" NH	0628	1	1
	Mopup Wand	0720	2	1
	Tip, Mopup Wand	0735	4	2
	Tip, Forester, Nozzle, fog	0903	*	*
	Tip, Forester Nozzle, straight stream	0638	*	*
	Wye	1" NPSH, Two-Way, Gated	0259	2
1 1/2" NH, Two-Way, Gated		0231	4	2
3/4" NH w/Ball Valve, Gated		0739	6	4
Adapter	1" NPSH-F to 1" HN-M	0003	*	*
	1" NH-F to 1" NPSH-M	0004	1	1
	1 1/2" NPSH-F to 1 1/2" NH-M	0007	1	1
	1 1/2" NH-F to 1 1/2" NPSH-M	0006	*	*
Increaser	3/4" NH-F to 1" NPSH-M	2235	1	1
	1" NPSH-F to 1 1/2" NH-M	0416	2	1
Coupling	1" NPSH, Double Female	0710	1	1
	1" NPSH, Double Male	0916	1	1
	1 1/2" NH, Double Female	0857	2	2
	1 1/2" NH, Double Male	0856	1	1
Reducer/ Adapter	1" NPSH-F to 3/4" NH-M	0733	3	3
	1 1/2" NH-F to 1 NPSH-M	0010	6	4
	2" NPSH-F to 1 1/2" NH-M	0417	*	*
	2 1/2" NPSH-F to 1 1/2" NH-M	2229	*	*
Reducer	1 1/2" NH-F to 1" NH-M	0009	1	1
	2 1/2" NH-F to 1 1/2" NH-M	2230	1	1
Tee	1" NPSH-F x 1" NPSH-M x 1" NPSH-M, w/cap	2240	2	2
	1 1/2" NH-F x 1 1/2" NH-M x 1" NPSH-M w/cap	0731	2	2
	1 1/2" NH-F x 1 1/2" NH-M x 1" NPSH-M w/valve	0230	2	2
Valve	1 1/2" NH-F, Automatic Check and Bleeder	0228	1	1
	3/4" NH, Shut Off	0738	5	5
	1" Shut Off	1201	1	1
	1 1/2" Shut Off	1207	1	1
	Foot, w/strainer		1	1

Injector	1" NPSH x 1/12" NH, Jet Refill	7429	*	*
Wrench	Hydrant, adjustable, 8"	0688	1	1
	Spanner, 5", 1" to 1 1/2" hose size	0234	4	1
	Spanner, 11", 1 1/2" to 2 1/2" hose size	0235	2	2
	Pipe, 14"	0934	1	1
	Pipe, 20"		1	1
Engine	Fireline Handbook	0065	1	1
	GPS Unit		1	1
	Belt Weather Kit	1050	1	1
	Binoculars		1	1
	Map Case w/ maps		1	1
	Inventory List		1	1
	Current <i>Interagency Standards for Fire and Fire Aviation Operations</i>		1	1
* No minimums – carried by engines as an option, within weight limitations				
NPS – Additional or differing items recommended by NPS				
Fire Tools & Equip ¹	Flapper (NPS)		*	*
	Council Rake (NPS)	1807	*	*
	Leaf blower		*	*
	Shovel	0171	2	1
	Extra Quart, 2 cycle mix		2	1
	Portable Pump		1	*
General Supplies	Chock Blocks		1	1
	Tape, filament (roll)	0222	2	1
	Bolt Cutters		*	*
	Hose Clamp	0046	2	2
Safety	Reflector Set		1	1
Vehicle & Pump Support	Oil, automotive, quart		2	1
	Power steering Fluid		1	1
	Antifreeze (seasonal)		*	*
	Filter, air for engine and pump		*	*
	Filter, oil w/ wrench		*	*
Personal Gear (Extra Supply)	File, mill, bastard	0060	*	*
	Fire Shelter w/case & liner	0925/0975	1	1
	Packsack	0744	2	1
Radio	Batteries (for portable radio)		2	2
Hose	2 1/2" Refill Hose, Water tender		*	*
Nozzle	Adjustable, 1 1/2" NH	0137	3	3
Wyes	3/4" NH w/Ball Valve, Gated	0739	6	2
Coupling	1" NPSH, Double Male	0916	2	1
	1" NH, Double Male	0856	2	2

Reducer / Adapter	1" NPSH-F to ¾" NH-M	0733	3	2
	1 ½" NH-F to 1 NPSH-M	0010	6	3
Tee	1" NPSH-F x 1" NPSH-M x 1" NPSH-M, w/cap	2240	2	*
Valve	1 ½" NH-F, Automatic Check and Bleeder	0228	1	*
	¾" NH, Shut Off	0738	4	2
Wrench	Pipe, 20"		1	*
Engine	Accident Forms (Vehicle & Personnel)		1	1
	Compass		1	1
<p>¹ A minimum of eight tools for type 3, 4, 5 engines and a minimum of five tools for type 6 engines is required. The listed numbers of tools in each box are required to be on the engine. Beyond that, the tools listed as optional or additional required tools can make up the rest of the minimum number required for engines.</p> <p>* No minimums – carried by engines as an option, within weight limitations</p>				

Wildland Fire Decision Support System Information

WFDSS Subsections

The Wildland Fire Decision Support System is divided into 8 subsections represented by tabs within the program. These sections are: Information, Situation, Objectives, Courses of Action, Validation, Decisions, Periodic Assessment, and Reports.

Information

Basic information for an incident is found in this section, which includes: Incident Name, Point of Origin, Unique Fire Identifier, Fire Code, XXX Final Fire Perimeter / Incident Size, Discovery Date, Containment Date, Controlled Date, Out Date, Geographic Area, Responsible Unit at Point of Origin, Incident Cause and Jurisdictional Agency at Point of Origin. Updating this information is essential for ongoing incidents (especially acreages and dates) as this information is automatically populated into the WFDSS Decision content. It is also important that the incident owner(s) are available when the incident is updated or transferred. Incident ownership may be associated with an individual or group, depending on fire complexity, jurisdictions involved, and other considerations.

Situation

The Situation section provides a map interface displaying a variety of incident and reference information. It reduces the need for paper maps by giving users a dynamic and intuitive interface in which information needed for decision support is timely and easily accessible from anywhere with an internet connection. This section allows users to create new shape files, view values and boundaries, and conduct basic and short-term fire analysis.

Map (sub tab) – has several spatial layers available:

- Base Layers- WFDSS Topos, Google Maps, Google Physical
- Incident - Planning Areas, Fire Perimeters, Management Action Points, Points of Interest, Objective shapes;
- Analysis - Ignitions, Barriers, Landscape Masks, Basic Fire Behavior, Short Term Fire Behavior, Near Term Fire Behavior, FSPro (Values at Risk);
- Boundaries- FMUs, Jurisdictional Agencies, Responsible Agencies, Federal Admin Areas, TNC Lands, Geographic Areas, Counties;
- Designated Areas- Wilderness, Potential Wilderness, Special, Other, BLM;
- Infrastructure- Facilities, Communication, Energy, Roads and Trails;
- Natural and Cultural Resources- Air Quality, Critical Habitat (T&E), Other Species;
- Unit Shapes – Data managers can upload shape files that contain information about local values.

- 1 • Map Capture – using the camera button at the top of the map users can
2 create (save) a screen capture of the map that can be later incorporated into
3 a Decision.
4
- 5 Info (sub tab) – the user can access: Feature Information, Fire Danger (ERC
6 charts), Smoke Dispersion, Strategic Objectives, Fire Weather Forecasts.
7 Additionally users can access basic information about the underlying landscape
8 file: Source, Elevation, Aspect, Slope, Fuel Model, Canopy Cover, Bulk
9 Density, Stand Height, Base Height.
10
- 11 Relative Risk (left menu) – As part of the situation assessment, users can
12 calculate the relative risk. It is a series of four graphs: Hazards, Values,
13 Probability, and the summary graph – Relative Risk. As the graphs are
14 completed, there is a text box to document the thoughts/reasons for the inputs.
15 The information from the text box automatically populates in the WFDSS
16 Decision content but the graphs themselves do not. Relative Risk can be visited
17 pre-season to define some local inputs.
18
- 19 **Objectives**
20 Strategic Objectives and Management Requirements as entered from the
21 approved plans (Land & Resource management Plans, Fire Management Plans)
22 can be viewed and incident requirements and objectives can be developed.
23 Based on the planning area strategic objectives and management requirements
24 are automatically loaded.
25
- 26 Incident requirements and incident objectives are created which are tiered from
27 these overarching Strategic Objectives and Management Requirements. Users
28 can control the activation or deactivated status of incident objectives and
29 incident requirements based on fire location and activity.
30
- 31 **Courses of Action**
32 Documentation for action items and associated cost is completed in this section.
33 Users can edit, include, or exclude action items each time a decision is made.
34 Several methods for determining cost can be found here; follow your agency
35 direction and include a summary of how the cost was constructed.
36
- 37 Cost can be developed using the Stratified Cost Index (SCI) located in the left
38 hand menu. The SCI is available for USFS and DOI. The correct model is
39 automatically chosen by the Unit ID in the Unique Fire Identifier. The model
40 requires input of the estimated final acreage of the incident. Users can input up
41 to four different acreages.
42
- 43 Management Action Points (MAPs) (left menu) may be developed to define a
44 condition which when met, prompts implementation of a pre-determined action.
45 The Condition, Action, and optional Cost can be defined and linked to
46 geospatial MAPs drawn in the Situation tab.

1 **Validation**

2 The default Course of Action (pre-planned response) and decisions are validated
3 in this section at different times during the decision process. Initially validating
4 the need for a decision and later validating the course of action prior to
5 publishing a decision. It is important to document your justification in the
6 comment section as completely as possible for answering the question - "Will
7 the Incident and Strategic Objectives be satisfied with the proposed Course of
8 Action?" WFDSS users should consider the following when writing this
9 justification:

- 10 • Are there adequate resources to achieve your COA?
- 11 • Has the cost been developed to achieve the COA?
- 12 • Does the current fire behavior and weather assessment support the COA?
- 13 • Have you completed the Relative Risk Assessment and assessed the value
14 inventory?
- 15 • Have you checked your Relative Risk Advice considerations?

16
17 This information will be viewable throughout the decision process and will be
18 automatically populated in the WFDSS Decision content.

19

20 **Decisions**

21 In this section, users create, view, edit, and download published decisions. It is
22 important in this area that owners, editors, and reviewers become familiar with
23 their role and understand how to manipulate the incident content into the
24 Decision Content. Additionally, knowing and understanding how and where to
25 save information as agreed upon by the incident owner(s) are essential. From
26 this tab, an owner(s) starts the review and approval process. Incident decisions
27 can be edited by incident owners or by those users who have been granted
28 access through incident privileges: Edit, Review, Approve. Users will access
29 the decision editor by checking the radio button next to the pending decision,
30 then clicking EDIT. Once editing is completed, users will click the Check-In
31 button to allow access by others.

32

33 The WFDSS Decision content is outlined into several sections: Assessment
34 (Information, Weather, and Other content), Objectives (includes all FMUs,
35 Strategic Objectives and Management Requirements included in the planning
36 area as well as all included Incident Objectives and Incident Requirements),
37 Course of Action (includes MAPs), Validation (Includes the Relative Risk text)
38 and Rationale. Multiple editors can be working on different sections of the
39 WFDSS Decision content with a little coordination and using the edit / check-in
40 process. Additional information that supports the decision should be added to
41 each of these sections.

42

43 The users who are editing the decision content should include Maps captured or
44 uploaded images that support the decision or help tell the story of the incident
45 and the decision. These images can be added to any section of the content as
46 needed. Additionally, the editors should also include all support information:

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1 cost development summary, relative risk, social/political concerns, fire behavior
2 models, values at risk, long term assessment information.

3
4 Information from the planning documents of the past, that supports the decision,
5 now must be included in the decision content in WFDSS. It is typically added in
6 the Assessment portion of the decision content. This information should also be
7 summarized and referenced in the Rationale portion of the decision.

8
9 Prior to submitting a decision for the review and approval process, the Rationale
10 portion of the decision must be completed. The Rationale content should
11 describe why the decision was made to implement the course(s) of action.
12 Consider explaining: what caused you to make this decisions, what caused you
13 to choose the course(s) of action, what are the causes and influences on the
14 incident, what are the social and political concerns/pressures, what does the
15 relative risk tell you, are their smoke concerns, what fire behavior models
16 informed the decision.

17
18 Once a decision has all the sections completed, it can be submitted for the
19 Review and Approval process. If a decision has not been published, it can be
20 edited or deleted. However, once a decision has been published, it is part of that
21 incident record and cannot be changed or removed.

22
23 The Incident Objectives, Incident Requirements, Course of Action and Planning
24 Area cannot be viewed by users who do not have incident ownership or
25 privileges until a decision is published. A new decision must be made if
26 updated information or findings are to be documented.

27 28 **Periodic Assessment**

29 This is the section where the approver(s) will complete the periodic assessment
30 and view the previous actions and comments. The periodic assessment must be
31 completed based on the timeframe specified by the approver. Depending upon
32 the complexity and activity on the incident, the timeframe can be set to 1-14
33 days while publishing the decision or during the periodic assessment process. It
34 is beneficial to document clear, concise information about the incident when
35 completing the periodic assessment. This periodic assessment information will
36 be part of the project record and a way for someone to gather situational
37 awareness of the incident. It should be useful information, not only during the
38 incident, but also for years to come when reviewing incidents. This comment
39 section is especially pertinent because it outlines the thought process and
40 reasons for either continuing a current decision or requiring a new one.

41 42 **Reports**

43 This section allows users to create custom reports consisting of portions of
44 decision content, (e.g. the MAP content or Fire Behavior content). A report can
45 be viewed, edited, published, and downloaded. The Report section does not
46 provide a report on a Published Decision. Reports on published decisions can be

1 found in the Decisions tab by using the PDF or HTML button, depending on
2 desired format. When creating a report the user can decide on a custom or a
3 Management Action Point report. Both reports give the user the ability to select
4 pertinent information from the incident for the report they are constructing.
5

6 **WFDSS Tools and Functions**

8 **WFDSS User Roles and Incident Privileges**

9 User Roles within WFDSS correspond to permissions which allow users to
10 perform certain tasks within the application, such as creating an incident or
11 conducting fire behavior analysis. Typical User Roles are Viewer, Dispatcher,
12 Author, Data Manager, and Fire Behavior Specialist.
13

14 Incident privileges are assigned at the time of (and are specific to) an incident.
15 These privileges allow you to Own, Edit, Review, or Approve decision content.
16

17 **Fire Modeling**

18 Fire modeling has been incorporated into WFDSS, in the form of the Fire
19 Spread Probability model (FSPro), Basic Fire Behavior (Basic), Short Term Fire
20 Behavior (STFB) and Near Term Fire Behavior (NTFB). Comparison of
21 WFDSS short term and basic models to stand alone FlamMap and other fire
22 behavior information can be found on the WFDSS homepage under the Related
23 Resources link, fire behavior section. Information for requesting assistance in
24 running these models for your incident can be found at the WFDSS homepage
25 through the National Fire Decision Support Center (NFDSC) or by visiting
26 <http://www.wfmrda.nwcg.gov/nfdsc.php> .
27

28 **Relative Risk Assessment (left menu)**

29 The Relative Risk assessment is required before publishing a decision for an
30 incident. Its purpose is to assist in planning for, assessing, and managing the
31 incident. It provides the Agency Administrator with a quick but comprehensive
32 assessment of the risk of the fire. An incident owner, editor, reviewer, or
33 approver can perform the assessment.
34

35 This is a qualitative process that can be completed in less time than a
36 quantitative long-term risk assessment. The relative risk assessment chart uses
37 three risk components:

- 38 • values
- 39 • hazard
- 40 • probability

41
42 Each of these components is assessed independently. The three outputs are then
43 evaluated in a final step that provides the relative risk rating for the fire. From
44 the relative risk rating, guidance is provided within the system to assist the
45 owner/author in determining the level of analysis needed, considerations for the
46 incident and documentation of the decision.

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- 1 **Organizational Needs Assessment (left menu)**
- 2 The Organizational Needs Assessment (ONA) guides Agency Administrators in
- 3 their management organization selection, both in escalating and moderating
- 4 situations (.i.e., this process can be used to expand or contract organizations).
- 5 The ONA is based on relative risk, implementation difficulty, and decision
- 6 concerns. The final part of the ONA combines these variables to determine the
- 7 level of incident management needed.
- 8
- 9 **Incident KMZ (left menu)**
- 10 Incident KMZ files can be downloaded that include all the incident spatial data
- 11 and completed analysis from the Published Decision(s). The spatial data is
- 12 composed of the incident shapes found under the Incident and Analysis layers
- 13 folder on the Situation Tab. If a decision is pending, only spatial information
- 14 available to all users will be provided in the KMZ.

Risk Management Process

Step 1 Situation Awareness

Gather Information

- | | |
|--|---|
| <input type="checkbox"/> Objective(s) | <input type="checkbox"/> Previous Fire Behavior |
| <input type="checkbox"/> Communication | <input type="checkbox"/> Weather Forecast |
| <input type="checkbox"/> Who's in Charge | <input type="checkbox"/> Local Factors |

Scout the Fire

Step 2 Hazard Assessment

Estimate Potential Fire Behavior Hazards

- Look up/Down/Around Indicators

Identify Tactical Hazards

- Watch Outs

What other safety hazards exist?

Consider severity vs. probability?

Step 3 Hazard Control

Fire Orders → LCES Checklist – MANDATORY

- Anchor Point
 Downhill Checklist (if applicable)

What other controls are necessary?

Step 4 Decision Point

Are controls in place for identified hazards?

NO - Reassess situation YES - Next question

Are selected tactics based on expected fire behavior?

NO - Reassess situation YES - Next question

Have instructions been given and understood?

NO - Reassess situation YES - Initiate action

Step 5 Evaluate

Personnel: Low experience level with local factors?

Distracted from primary tasks?

Fatigue or stress reaction?

Hazardous attitude?

The Situation: What is changing?

Are strategy and tactics working?

Standard Firefighting Orders

- Keep informed on fire weather conditions and forecasts.
- Know what your fire is doing at all times.
- Base all actions on current and expected behavior of the fire.
- Identify escape routes and safety zones and make them known.
- Post lookouts when there is possible danger.
- Be alert. Keep calm. Think clearly. Act decisively.
- Maintain prompt communications with your forces, your supervisor and adjoining forces.
- Give clear instructions and insure they are understood.
- Maintain control of your forces at all times.
- Fight fire aggressively, having provided for safety first.

Watch out Situations

- Fire not scouted and sized up.
- In country not seen in daylight.
- Safety zones and escape routes not identified.
- Unfamiliar with weather and local factors influencing fire behavior.
- Uninformed on strategy, tactics, and hazards.
- Instructions and assignments not clear.
- No communication link with crew members/supervisor.
- Constructing fireline without safe anchor point.
- Building fireline downhill with fire below.
- Attempting frontal assault on fire.
- Unburned fuel between you and fire.
- Cannot see main fire, not in contact with anyone who can.
- On a hillside where rolling material can ignite fuel below.
- Weather is getting hotter and drier.
- Wind increases and/or changes direction.
- Getting frequent spot fires across line.
- Terrain and fuels make escape to safety zones difficult.
- Taking nap near fireline.