

**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, U.S. 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, U.S. 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 Wildland Fire Incident Management Field Guide (PMS 210)* 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.

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- 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)***

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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*  
18 *Policy (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 declared  
35 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*  
10 *Policy (February 13, 2009), page 7.*

### 11 **XXX FOLLOWING SECTION MOVED FROM CHAPTER 9**

#### 12 **XXX Definitions**

##### 13 **XXX Wildland Fire**

14  
15 Any non-structure fire that occurs in vegetation or natural fuels. Wildland fire  
16 includes prescribed fire and wildfire.

##### 17 **XXX Fire Type**

18  
19 Wildland fires are categorized into two distinct types:

- 20 • Wildfires- Unplanned ignitions or prescribed fires that are declared  
21 wildfires.
- 22 • Prescribed fires- Planned ignition.

##### 23 **XXX Wildfire Management Objectives**

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

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

##### 31 **XXX Response to Wildfire**

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33 Response to wildfire will be coordinated with all affected agencies/cooperators  
34 regardless of the jurisdiction at the ignition point.

35  
36 Management response to a wildfire on federal land is based on objectives  
37 established in the applicable L/RMP and FMP. A wildfire may be concurrently  
38 managed for more than one objective. Unplanned natural ignitions may be  
39 managed to achieve L/RMP and FMP objectives when risk is within acceptable  
40 limits.

- 41 • *FS- Human caused fires and trespass fires must be suppressed safely and*  
42 *cost effectively and must not be managed for resource benefits.*
- 43 • *BLM- All known human caused fires, except escaped prescribed fires, will*  
44 *be suppressed in every instance and will not be managed for resource*  
45 *benefits.*

- 1 • **FWS-** All escaped prescribed fires will be suppressed. When reporting in  
2 FMIS, the cause of the wildfire will be “Escaped RX” and the narrative will  
3 document the link between the prescribed fire and the wildfire.  
4 • **NPS-** Refer to RM-18, Chapter 2 for further guidance.  
5

6 Response to wildfire is based on ecological, social, and legal consequences of  
7 the fire. The appropriate response to the fire is dictated by:

- 8 • The circumstances under which a fire occurs;  
9 • The likely consequences to firefighter/public safety and welfare; and  
10 • The natural/cultural resource values to be protected.  
11

### 12 **XXX Initial Response**

13 The initial decisions and actions taken in reaction to a reported incident.  
14

#### 15 • **XXX Initial Attack**

16 This type of initial response is an aggressive action to an unwanted fire  
17 consistent with firefighter and public safety and values to be protected.  
18

19 **XXX Initial Attack (IA) XXX NOTE: definition updated in NWCG Glossary**

20 XXX A Preplanned response to a wildfire given the wildfire’s potential. Initial  
21 Attack may include size up, patrolling, monitoring, holding action or  
22 suppression.  
23

24 **XXX Extended Attack XXX NOTE: Definition updated in NWCG Glossary**

25 Actions taken on a wildfire that has exceeded the initial response.  
26

27 **XXX Extended Attack Incident XXX NOTE: Definition updated in NWCG  
28 Glossary**

29 XXX An incident that exceeds the capability of the initial attack resources  
30 and/or organization to successfully manage the incident to conclusion.  
31

32 **XXX Suppression XXX NOTE: Definition updated in NWCG Glossary**

33 XXX Management action to extinguish a fire or confine fire spread beginning  
34 with its discovery.  
35

36 **XXX Protection XXX NOTE: Definition added to NWCG Glossary**

37 XXX The actions taken to mitigate the adverse effects of fire on environmental,  
38 social, political, economic, and community values at risk.  
39

40 **XXX Prescribed Fire**

41 XXX Any fire intentionally ignited by management actions in accordance with  
42 applicable laws, policies, and regulations to meet specific objectives.  
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**1 Fire Operations Doctrine**

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**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, implementing prevention activities, identifying values to  
39 be protected, hiring, training, equipping, pre-positioning, and deploying  
40 firefighters and equipment, evaluating performance, correcting deficiencies, and  
41 improving operations. All preparedness activities should be focused on  
42 developing fire operations capabilities and on performing successful fire  
43 operations.

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**1 Fire Operations Command Philosophy**

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

18

**19 Fire Leadership**

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

29

**30 Fire Suppression**

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

**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.

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**1 Cost Effective Fire Operations**

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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. These standards are based on Department of Interior (DOI) and Bureau policy. They are intended to ensure safe, consistent, efficient, and effective fire and aviation operations XXX for a fire organization to manage state and/or local unit fire workload or meet approved national program resource allocations. BLM employees engaged in fire management activities (including fire program management, fire suppression, and fire program/incident support) will adhere to the standards in this document. 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](http://web.blm.gov/internal/fire/fire_ops/index.html)

### National Wildfire Coordinating Group (NWCG) Relationship to BLM

NWCG is a national group whose function is to provide leadership and establish, implement, maintain and communicate policy, standards, guidelines, and qualifications for wildland fire program management and support the National Incident Management System. Refer to Chapter 8 of this document for more information.

BLM provides a representative to the NWCG Executive Board and representatives to various NWCG committees and subcommittees. These representatives are responsible for accomplishing tasks as directed by the NWCG Executive Board, ensuring proposed policies, guidelines, or standards are reviewed by pertinent agency personnel prior to implementation by NWCG, and providing a consolidated BLM position during NWCG decision-making processes.

NWCG policies, guidelines or standards, if adopted by BLM, are implemented through the BLM directive system.

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## Fire and Aviation Directorate

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

## Program Manager Responsibilities

### Assistant Director, Fire and Aviation (FA-100)

#### Deputy Assistant Director, Fire and Aviation (FA-100)

- Develops policies and standards for firefighting safety, training, 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.
- Implements the XXX interagency Fire Program Analysis (FPA) process fire planning and funding allocation process, and develops procedures and standards for the distribution of program resources.
- Reviews and evaluates state fire and aviation management programs.
- Represents the BLM in the coordination of overall fire and aviation management activities at National Interagency Fire Center (NIFC), on intra- and interagency fire committees, groups, and working teams.
- In conjunction with federal fire directors, establishes priorities for assignment of critical resources during wildland fire emergencies.
- Initiates or participates on Boards of Review concerning actions taken on selected wildland fires.
- Negotiates cooperative agreements and/or modifications of existing national level agreements to improve fire and aviation management activities on Bureau lands.
- Reviews funding requests for severity, hazardous fuel reduction, and emergency rehabilitation of Bureau lands damaged by wildland fires; makes determinations on funding levels and recommends approval to the BLM Director.
- Serves as the Bureau's focal point for the Large Fire Cost Review (LFCR) process and initiates, facilitates, and provides oversight for the LFCR process. The AD coordinates with the appropriate state director, assembles

- 1 a LFCR team, provides a delegation of authority, initiates the LFCR, and  
2 provides briefings to the Bureau Director, as appropriate.
- 3 ● Serves as designated contact for the United States Department of the  
4 Treasury for the certification and revocation of Certifying Officers and  
5 Assistant Disbursing Officers (CO/ADO) and Designated Officials for  
6 emergency incident payments.
  - 7 ● Supervises the Senior Program Advisor position located at the Washington  
8 Headquarters Office. This position provides connectivity between the  
9 Director's Office, the other BLM Directorates, the BLM State Offices, the  
10 Department's other offices such as the Office of Wildland Fire, and the  
11 Forest Service National Office in D.C. and maintains a day-to-day physical  
12 presence with the rest of the Bureau's national level leadership to fully  
13 integrate programs and leverage capability. This position maintains  
14 frequent, routine contact with those organizations on a variety of topics  
15 ranging from current fire activity to strategic interdisciplinary, interagency,  
16 or intergovernmental policy and processes for the protection of lives,  
17 property, and the resources.
- 18
- 19 **Equal Employment Opportunity Manager (EEO) (FA-102)**
- 20 ● Manages the Equal Employment Opportunity (EEO) program in accordance  
21 with legal, regulatory, and policy requirements.
  - 22 ● Manages and directs the Counseling Program, and Alternative Dispute  
23 Resolution (ADR) programs, in accordance with Equal Employment  
24 Opportunity Commission (EEOC) regulations and BLM policy as well as  
25 for other NIFC agencies.
  - 26 ● Advises managers and aggrieved persons of employee rights and  
27 responsibilities, procedural options and timeframes in conflict situations and  
28 formulates proposed resolutions.
  - 29 ● Negotiates with managers, aggrieved persons and their representatives to  
30 informally resolve EEO matters, and executes final settlement agreements.
  - 31 ● Manages the Affirmative Employment Program (AEP).
  - 32 ● Develops and maintains the accessibility program for the disabled, required  
33 under Section 504 of the Rehabilitation Act of 1973, as amended, and the  
34 Americans with Disability Act (ADA of 1990).
  - 35 ● Conducts analyses to evaluate progress in meeting equal employment  
36 opportunity program goals.
  - 37 ● Administers training activities for the organization.
  - 38 ● Provides managers and supervisors with guidance and advice on issues  
39 related to EEO/civil rights program activities.
  - 40 ● Represents the organization in meetings with public and private groups,  
41 universities, minority and women's organizations, other DOI components,  
42 and other federal agencies.
- 43
- 44 **Support Services Division Chief (FA-200)**

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

24  
25 **Fire Operations Division Chief (FA-300)**

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

- 1 • Supervises the Branch of Radio Operations (FA-350) which is responsible  
2 for **XXX policy, guidance, and governance**, as well as tactical and  
3 operational national radio planning for the Bureau to meet the needs of all  
4 business users (law enforcement (LE), fire, cadastral survey, recreation, and  
5 natural resource programs). FA-350 is responsible for managing the BLM's  
6 nationwide radio frequency (RF) assignments; conducting management  
7 control reviews; user satisfaction surveys; Exhibit 300 Business Case;  
8 operational analysis; equipment test plans; testing resources for the DOI  
9 Technical Service Center (TSC); implementation of facilities standards, and  
10 management of equipment lifecycles.
- 11 • Serves as the BLM representative to the National Multi Agency  
12 Coordinating Group (NMAC).

13

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

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

35

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

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

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

14  
15 **XXX Fire Planning and XXX Resources-Fuels Management Division Chief**  
16 **(FA-600)**

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

42  
43 **External Affairs Division Chief (FA-700)**

- 44 • Responsible for coordination of information between the Department of the  
45 Interior and Office of Wildland Fire to the BLM, BIA, USFWS, NPS,

- 1 USFS, National Association State Foresters (NASF), and Federal  
2 Emergency Management Agency (FEMA) at NIFC.
- 3 ● Responsible for coordination of the responses to: Office of Management  
4 and Budget (OMB), Government Accountability Office (GAO),  
5 congressional, other elected official, and other external inquiries among  
6 agencies and departments, establishing and maintaining cooperative  
7 relationships resulting in quality work products.
  - 8 ● Serves as the primary manager of the External Affairs program for the  
9 NIFC.
  - 10 ● Serves as the primary point of contact to external audiences regarding  
11 BLM, and at times, DOI fire and aviation policy.
  - 12 ● Serves as the primary point of contact with the BLM Washington Office  
13 and DOI external affairs and communication offices.
  - 14 ● Develops recommendations pertaining to External Affairs aspects for BLM  
15 Fire and Aviation policies.
  - 16 ● Initiates External Affairs policies and procedures pertaining to Fire and  
17 Aviation for adoption at the department level in conjunction with other  
18 departments and agencies.
  - 19 ● Serves as personal and direct representative of the Assistant Director, Fire  
20 and Aviation at various meetings and functions with members of congress  
21 and staff, state governors and legislatures, officials of local, state and  
22 federal agencies, major private corporations, public and private interest  
23 groups, and foreign governments.
  - 24 ● Serves as external affairs expert and consultant to the Assistant Director,  
25 (FA) and the Deputy Assistant Director (FA) on a wide variety of issues and  
26 policies of controversial nature, providing analysis and advice on public  
27 reaction to major policy and program issues.
  - 28 ● Responsible for management and contact of all NIFC and BLM FA public  
29 expressions, including printed material, video productions, and social media  
30 products.
  - 31 ● Coordinates with BLM legislative affairs on proposed legislation regarding  
32 FA.

#### 34 **State Director**

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

#### 42 **District/Field Manager**

43 The District/Field Manager is responsible to the State Director for the safe and  
44 efficient implementation of fire management activities within their unit. This  
45 includes cooperative activities with other agencies or landowners in accordance

- 1 with delegations of authorities. The District/Field Manager and their principal  
 2 acting will meet the required elements outlined in the Management  
 3 Performance Requirements for Fire Operations below.

4

5 **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, <b>XXX by establishing a fire organization to meet state/unit workload or national allocations,</b> 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 Local or National Fire Management Leadership Course. Ensures that personnel delegated fire program responsibilities have completed the Local or National Fire Management Leadership Course.		X
6. Publishes decisions in the Wildland Fire Decision Support System (WFDSS) as per chapter 2 and Chapter 11.	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

PERFORMANCE REQUIRED	State Director/ Associate	District/ Field Manager
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
13. Ensures timely follow-up to fire <b>XXX management preparedness and</b> 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, copy of the Wildland Fire Decision Support System (WFDSS) Published Decision, and an Agency Administrator Briefing to Incident Management Teams.		X
17. Provides a written Delegation of Authority and/or expectations to the unit's Type 3, 4, and 5 Incident Commanders annually prior to fire season.		X
18. 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
19. Attends post fire closeout on Type 1 and Type 2 fires (attendance may be delegated.)		X
20. 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
21. Ensures compliance with National and State Office policy for prescribed fire activities. Participates in periodic reviews of the prescribed fire program.	X	X

PERFORMANCE REQUIRED	State Director/ Associate	District/ Field Manager
22. Ensures prescribed fire plans XXX that are approved XXX and meet agency policies.	X	X
23. Ensures the prescribed fire plan has been reviewed and recommended by a qualified technical reviewer who was not involved in the plan preparation.		X
24. XXX Ensures a policy has been established to review and sign the go/no-go checklist. XXX Ensures the Agency Administrator Ignition Authorization (PMS 485) is signed and dated with the time frame identified before the prescribed fire is ignited.		X
25. Ensures Unit Safety Program is in place, has a current plan, has an active safety committee that includes the fire program.	X	X
26. Annually updates and reviews the Agency Administrator's Guide to Critical Incident Management XXX (or equivalent).	X	X
27. Ensures that a current emergency medical response plan is in place and accessible.		X
28. Ensures current fire and weather information is posted (hardcopy, web, etc.), and available for all employees.		X

1

### 2 **Manager's Oversight**

3 Agency Administrators are managers that have wildland fire decision authority  
4 for a defined area, as specified by delegation. Agency Administrators are  
5 required to personally visit an appropriate number of fires each year. Appendix  
6 A contains information to support the Agency Administrators during these  
7 visits.

8

### 9 **Post Incident Review**

10 Appendix B (*Managers Supplement for Post Incident Review*) emphasizes the  
11 factors that are critical for ensuring safe and efficient wildland fire suppression,  
12 and provides examples for managers to use in their review of incident operations  
13 and Incident Commanders.

14

### 15 **Fire Training for Agency Administrators**

16 Agency Administrators and their acting must complete one of the following  
17 courses within two years of being appointed to a designated management  
18 position. Either class is acceptable.

- 1 • National - Fire Management Leadership
- 2 • Geographic - Local Fire Management Leadership

3

4 Agency Administrator training and qualifications may be entered into IQCS. If  
5 an Agency Administrator will be mobilized through ROSS and/or an Incident  
6 Qualification Card is issued, Agency Administrators are also required to  
7 complete *IS-700A NIMS: An Introduction* and *I-100 Introduction to ICS*. The  
8 IQCS mnemonic for BLM Agency Administrators is AADM.

9

#### 10 **State Fire Management Officer (SFMO)**

11 The State Fire Management Officer (SFMO) provides leadership for their  
12 agency fire and fire aviation management program. The SFMO is responsible  
13 and accountable for providing planning, coordination, training, technical  
14 guidance, and oversight to the state fire management programs. The SFMO also  
15 represents the State Director on interagency geographic area coordination  
16 groups and Multi-Agency Coordination (MAC) groups. The SFMO provides  
17 feedback to Districts/Field Offices on performance requirements.

18

#### 19 **District/XXX Zone/Field Office Fire Management Officer**

20 The District/XXX Zone/Field Office Fire Management Officer (FMO) is  
21 responsible and accountable for providing leadership for fire and fire aviation  
22 management programs at the local level.

23

24 The Fire Management Officer:

- 25 • determines XXX local fire program requirements to implement land use  
26 decisions through the Fire Management Plan (FMP) to meet land  
27 management objectives;
- 28 • negotiates interagency agreements and represents the District/Field Office  
29 Manager on local interagency fire and fire aviation groups;
- 30 • meets Fire Staff Performance Requirements for Fire Operations; and
- 31 • fulfills FMO Safety and Health Responsibilities for the Fire Program.

32

33 Experience requirements for positions in Alaska Fire Service, Oregon and  
34 California (O&C) Districts, NIFC, national office, and other fire management  
35 positions in units and state/regional offices will be established as vacancies  
36 occur, but will be commensurate with the position's scope of responsibilities.  
37 The developmental training to fully achieve competencies should be addressed  
38 in an IDP within a defined time period.

39

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46

## 1 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, <b>XXX by establishing a fire organization to meet state/unit workload or national allocations</b> , while utilizing the full range of fire management activities available for ecosystem sustainability.	X	X
4. Ensures Individual Fire Reports (DI-1202s) are completed, signed/approved, and entered into WFMI.	X	X
5. Ensures only trained and qualified personnel are assigned to fire and fire aviation duties.	X	X
6. Ensures the unit safety program is implemented and provides direction for fire and non-fire safety regulations, training, and concerns.	X	X
7. Ensures completion of a Risk Assessment (RA) for fire and fire aviation activities, and non-fire activities so mitigation measures are taken to reduce risk.		X
8. Ensures compliance with work/rest guidelines during all fire and fire aviation activities.	X	X
9. Ensures fire and fire aviation management employees understand their role, responsibilities, authority, and accountability.	X	X
10. Organizes, trains, equips, and directs a qualified work force.	X	X
11. Establishes and implements a post incident assignment performance review process for each employee.	X	X
12. Develops, implements, evaluates, and documents fire and fire aviation training to meet current and anticipated needs.	X	X

PERFORMANCE REQUIRED	State FMO	District/ Zone/Field Office FMO
13. Ensures fire and fire aviation policies are understood, implemented, and coordinated with other agencies as appropriate.	X	X
14. Monitors fire suppression activities to recognize when complexity levels exceed program capabilities. Increases managerial and operational resources to meet the need.	X	X
15. Monitors fire season severity predictions, fire behavior, and fire activity levels. Ensures national fire severity funding and national preposition funding is requested in a timely manner, used, and documented in accordance with agency standards.	X	X
16. Monitors the expenditure of Short-Term Severity and State Discretionary Preposition funding.	X	X
17. Ensures <b>XXX master</b> agreements with cooperators are valid and in compliance with agency policy, and that attached Annual Operating Plans are current.	X	X
18. Develops, maintains, and implements current operational plans (e.g., dispatch, preparedness, prevention).		X
19. Ensures that initial response plans (e.g. run cards, preplanned response) are in place and provide for initial response commensurate with guidance provided in the Fire Management Plan and Land/Resource Management Plan. Ensures that initial response plans reflect agreements and annual operating plans, and are reviewed annually prior to fire season.		X
20. Develops, maintains, and implements restrictions procedures in coordination with cooperators whenever possible.	X	X
21. Ensures that the use of fire funds complies with department and agency policies.	X	X
22. Reviews and approves appropriate overtime authorization requests for personnel providing fire suppression coverage during holidays, special events, and abnormal fire conditions.		X
23. Ensures a process is established to communicate fire information to public, media, and cooperators.	X	X

<b>PERFORMANCE REQUIRED</b>	<b>State FMO</b>	<b>District/ Zone/Field Office FMO</b>
24. Annually convenes and participates in pre-and post season fire meetings where management controls and critical safety issues are discussed.	X	X
25. Oversees pre-season preparedness review of fire and fire aviation program.	X	X
26. Initiates, conducts, and/or participates in fire program management reviews and investigations.	X	X
27. Personally participates in periodic site visits to individual incidents and projects.	X	X
28. Utilizes the Risk and Complexity Assessment (appendix E & F) to ensure the proper level of management is assigned to all incidents.	X	X
29. Ensures transfer of command on incidents occurs as per Chapter 11.		X
30. Ensures incoming personnel and crews are briefed prior to fire and fire aviation assignments.		X
31. Ensures that an accurate and defensible decision is published in the Wildland Fire Decision Support System (WFDSS) for all fires that escape initial attack.	X	X
32. Ensures that an accurate and defensible decision is published in the Wildland Fire Decision Support System (WFDSS) for all fires managed for multiple objectives.	X	X
33. 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
34. 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
35. Ensures required unit personnel are trained in fire cause determination and fire trespass.	X	X

PERFORMANCE REQUIRED	State FMO	District/Zone/Field Office FMO
36. Ensures compliance with National and State Office policy for prescribed fire activities. Provides periodic reviews of the prescribed fire program.	X	X
37. Annually updates and reviews the <i>Agency Administrator's Guide to Critical Incident Management</i> XXX (or equivalent).	X	X
38. Ensures that all fire employees review and update their emergency contact information annually, either in Employee Express or in hard copy format.	X	X
39. 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
40. Ensures standards in current National and Local Mobilization Guides are followed.	X	X
41. 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.

- 1 • Relocate agency pre-suppression/suppression resources within the
- 2 state/region based on relative fire potential/activity.
- 3 • Correct unsafe fire suppression activities.
- 4 • Direct accelerated, aggressive initial attack when appropriate.
- 5 • Enter into agreements to provide for the management, fiscal, and
- 6 operational functions of combined agency operated facilities.
- 7 • Suspend prescribed fire activities when warranted.
- 8 • Give authorization to hire Emergency Firefighters in accordance with the
- 9 DOI Pay Plan for Emergency Workers.
- 10 • Monitor XXX (and approve if delegated) emergency Short-Term fire
- 11 severity funding and State Discretionary Preposition funding expenditures
- 12 not to exceed the state's annual authority.
- 13 • Ensure national fire severity funding and national preposition funding is
- 14 requested in a timely manner, used, and documented in accordance with
- 15 agency standards.
- 16 • Appendix C provides a sample "Delegation of Authority".

17

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

19 In order to effectively perform their duties, a unit FMO must have certain  
20 authorities delegated from the District Manager. This delegation is normally  
21 issued annually. This Delegation of Authority should include the following  
22 roles and responsibilities:

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

40

### 41 **BLM Operational Duty Officer (ODO)**

42

43 Each BLM unit Fire Management Officer will perform the duties of an ODO or  
44 will provide a delegated ODO for their units during any period of predicted  
45 incident activities. ODO responsibilities may be performed by any individual

- 1 with a signed Delegation of Authority from the local Agency Administrator.  
 2 Qualifications for the ODO will be identified within the Unit Annual Operating  
 3 Plan. The required duties for all BLM ODOs are:
- 4 • Monitor unit incident activities for compliance with BLM safety policies.
  - 5 • Coordinate and set priorities for unit suppression actions and resource  
 6 allocation.
  - 7 • Keep unit Agency Administrators, suppression resources, and information  
 8 officers informed of the current and expected situation.
  - 9 • Plan for and implement actions required for future needs.
  - 10 • Document all decisions and actions.

11

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

18

### 19 **Incident Business**

20

21 A consolidated view of fire business practices, supporting policy, and regulation  
 22 is contained in the *BLM Standards for Fire Business Management*, available at:  
 23 [http://web.blm.gov/internal/fire/budget/Reference\\_docs/Incident%20Business/I](http://web.blm.gov/internal/fire/budget/Reference_docs/Incident%20Business/I)  
 24 [B-new/OrangeBk.html](http://web.blm.gov/internal/fire/budget/Reference_docs/Incident%20Business/I)

25

### 26 **BLM Fire Management Position Titles and Fire Department Cooperator** 27 **Equivalencies**

28

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

31

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	Captain

Helicopter Manager, Fuels Module Leader	
Fire Engine Operator	Engineer
Communications Technician	Comm.
Mechanic	Repair

1 **Safety and Occupational Health Program**

2

3 Safety and occupational health program responsibilities are interwoven  
 4 throughout Bureau program areas, including fire management. Safety of our  
 5 employees lies within every level of the organization and program  
 6 implementation can have a direct impact on firefighting personnel. To ensure  
 7 that program requirements are met to support the fire and aviation management  
 8 program, the following checklist shall be utilized.

9

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

PERFORMANCE REQUIRED	State Safety Manager	District/Zone Safety Manager	Unit FMO	District/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 <del>XXX non-suppression related fire activities. RAs are completed for</del> suppression <del>XXX and non-suppression</del> related activities and crews are briefed on RAs 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	District/ 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</i> , <i>1112-2 Manual</i> , <i>Fireline Handbook 410-1</i> ).			X	
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</i> )			X	
11. Procedures are in place to monitor Work Capacity Test (WCT) results and ensure medical examination policies are followed.			X	

PERFORMANCE REQUIRED	State Safety Manager	District/ Zone Safety Manager	Unit FMO	District/ Field Manager
12. <del>XXX Material</del> Safety Data Sheets (SDS) 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 <del>XXX JHA</del> 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	
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</i> )		X		
17. Procedures are in place for reporting unsafe and unhealthful working conditions.		X		X

PERFORMANCE REQUIRED	State Safety Manager	District/ Zone Safety Manager	Unit FMO	District/ Field Manager
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
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

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**Employee Safety and Health Program Responsibility**

All employees have personal responsibility to ensure safe and healthful work practices and the following elements specifically outline these responsibilities:

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

**1 Emergency Notification and Contact Information**

2

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

7 • **XXX Supervisor of the injured employee will notify the local state Fire**  
8 **Operations Group representative immediately after treatment when the**  
9 **injured employee is not released to duty. This contact will be in addition to**  
10 **contacts made to the home unit chain of command.**

11 • **XXX Injury on a BLM Fire**

12 The responsible unit Fire Management Officer (FMO)/ Operational Duty  
13 Officer will notify their State Duty Officer (or Fire Operations Group  
14 (FOG) representative) immediately. The State Duty Officer (or FOG  
15 representative) will then ensure the appropriate local agency GACC  
16 operational representative is notified.

17 • **XXX BLM Employee Injury**

18 Injured employee's home unit FMO is notified. The FMO will then notify  
19 their State Duty Officer (or FOG representative) immediately. If the  
20 employee injury occurs in another state, the State Duty Officer (or FOG  
21 representative) will ensure that the hosting State Duty Officer (or FOG  
22 representative) is notified of the injury.

23 • **XXX Great Basin Smokejumpers**

24 ○ **From the Scene:**

25 ■ The accident is reported to the smokejumper spotter, Great Basin  
26 Smokejumper Liaison Officer (LO), and local dispatch.

27 ■ When the accident involves a jump injury, the spotter and/or  
28 ground contact will convey the medical needs and nature of the  
29 injury to the local dispatch.

30 ■ If cellular phone or satellite phone coverage is available, a  
31 ground contact will call the Great Basin Smokejumper LO or DO  
32 with details about the accident.

33 ○ **From the Great Basin Smokejumper Duty Officer:**

34 ■ The Great Basin Smokejumper Duty Officer will notify the base  
35 manager.

36 ■ The smokejumper base manager will notify the National  
37 Interagency Fire Center (NIFC) Fire Operations Chief of  
38 Preparedness and Suppression Standards (or acting).

39 ■ BLM Operations Chief of Preparedness and Suppression  
40 Standards will inform necessary parties up the chain of command  
41 and notify the NIFC External Affairs Office.

42 ■ The Great Basin Smokejumper Duty Officer or Base Manager  
43 will notify the BLM State Duty Officer (or FOG Representative).

44 ■ The Great Basin Smokejumper Duty Officer will confirm an  
45 agency representative will accompany the injured party to the  
46 hospital.

- 1
- 2 ○ From the BLM Great Basin Smokejumper Base Manager:
- 3 ■ The smokejumper base manager will contact their base manager
- 4 counterpart if a visiting jumper is injured.
- 5 ■ The smokejumper base manager will notify the emergency
- 6 contact of the injured smokejumper if the injured smokejumper is
- 7 unable to do so.
- 8

9 All fire and aviation employees are required to review and update their

10 emergency contact information annually, either in Employee Express or in hard

11 copy format. This information will only be used for emergency purposes and

12 only by those authorized to make contact with the employee and/or their

13 personal contact(s) and will be maintained in accordance with the provisions of

14 the Privacy Act of 1974. See WO IM # 2012-196 for more instructions for

15 completing entry into Employee Express and/or the *BLM Personal Emergency*

16 *Contact Information form*.

17

### 18 **Employee Advocacy**

19

20 Fire operations doctrine acknowledges the inherent danger of fire operations and

21 the potential for serious injury or death to firefighters. When these occur, it is

22 important that Bureau employees are provided the best and most appropriate

23 care and support possible. Managers should consult their human resources

24 experts to ensure that applicable Departmental and Bureau human resources

25 policies and guidelines are followed. In addition, the *Bureau of Land*

26 *Management Line of Duty Death (LODD) Response Guide* provides information

27 to assist managers in dealing with the many complexities of these occurrences.

28

29 The *LODD Response Guide* is available in the Toolbox section of the BLM Fire

30 Operations Website.

31

### 32 **BLM Fire and Aviation Honor Guard**

33

34 The BLM Fire and Aviation Honor Guard represents the highest ideals of honor,

35 dignity, professionalism and respect in serving the agency, the fire community,

36 and the families, friends and co-workers of those who have lost their lives in the

37 line of duty.

38

39 The Honor Guard was established to appropriately pay tribute to and honor the

40 memory of employees who perish in the line of duty. The Honor Guard also

41 responds to requests for their participation at events of state and national

42 significance.

43

44 The Honor Guard is comprised of a cross-section of the BLM workforce from

45 within the fire and aviation program. A commitment to the program directly

46 impacts fellow members and the ability of the team to function at the highest

1 level possible. Members will be expected to commit for no less than a two-year  
2 period, and may remain an Honor Guard member until they can no longer fulfill  
3 the commitment or wish to retire from the Honor Guard. Members must stay in  
4 good standing in the Bureau.

5  
6 For more information, refer to  
7 [http://www.blm.gov/nifc/st/en/prog/fire/honor\\_guard.html](http://www.blm.gov/nifc/st/en/prog/fire/honor_guard.html).

## 9 **Employee Conduct**

10  
11 All employees, cooperators, contractors, and volunteers who participate in  
12 wildland fire operations have the duty to treat each other with respect and to  
13 maintain a work environment free of misconduct and harassment.

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

17  
18 Harassment is coercive or repeated, unsolicited and unwelcome verbal  
19 comments, gestures, or physical contacts and includes retaliation for confronting  
20 or reporting harassment.

21  
22 Harassment and misconduct will not be tolerated under any circumstances and  
23 will be dealt with in the strictest of terms. We must all take responsibility for  
24 creating and ensuring a healthy and safe work environment. Employees who  
25 experience or witness harassment, misconduct, or any inappropriate activity  
26 should report it to the proper authority immediately.

### 28 **Examples of Harassment and Misconduct**

- 29 ● **Physical conduct** - Unwelcome touching, standing too close, looking up  
30 and down, inappropriate or threatening staring or glaring, obscene,  
31 threatening, or offensive gestures.
- 32 ● **Verbal or written misconduct** - Inappropriate references to body parts;  
33 derogatory or demeaning comments, jokes, or personal questions; sexual  
34 innuendoes; offensive remarks about race, gender, religion, age, ethnicity,  
35 or sexual orientation, obscene letters or telephone calls, catcalls, whistles or  
36 sexually suggestive sounds.
- 37 ● **Visual or symbolic misconduct** - Display of nude pictures, scantily-clad,  
38 or offensively-clad people; display of offensive, threatening, demeaning, or  
39 derogatory symbols, drawings, cartoons, or other graphics; offensive  
40 clothing or beverage containers, bumper stickers, or other articles.
- 41 ● **Hazing** - Hazing is considered a form of harassment. "Hazing" is defined  
42 as "any action taken, or situation created intentionally, to produce mental or  
43 physical discomfort, embarrassment, or ridicule."
- 44 ● **Alcohol** - The use of alcohol during any work period is strictly prohibited.  
45 The performance of job duties while under the influence of alcohol is  
46 prohibited. Underage personnel alcohol use is prohibited at all times.

**1 BLM Mobile Fire Equipment Policy**

2

**3 Introduction**

4 The following section represents a general overview of the BLM Mobile Fire  
5 Equipment Policy. The policy can be found in its entirety on the BLM National  
6 Fire Equipment Program (NFEP) Website, located within the BLM Fire  
7 Operations website.

8

**9 Policy and Guidance**

10 The BLM fire equipment program is responsible for the design, development,  
11 and acquisition of specialized wildland fire equipment to meet the full range of  
12 fire management requirements. The design and development is accomplished  
13 through the analysis of performance needs required by BLM field units and  
14 working with industry to produce prototypes for testing and eventually  
15 production units. Acquisition of equipment is accomplished primarily through  
16 contracting. The BLM fire equipment program balances advanced technology  
17 with overall cost efficiency to provide maximum safety for personnel while  
18 effectively meeting fire management needs.

19

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

27

**28 Fire Equipment Committees**

29 There are three levels of fire equipment committees: National, State, and  
30 Interagency. Fire equipment committees address the broad spectrum of  
31 equipment subjects and make recommendations. State committees will report to  
32 the respective State Fire Management Officer. The BLM Fire Equipment Group  
33 and the BLM Engine Committee report to the Fire Operations Group (FOG).  
34 Equipment committees should invite other agency equipment leads to share  
35 ideas, transfer technology, and coordinate efforts.

36

**37 BLM National Fire Equipment Program (NFEP)**

38 The BLM National Fire Equipment Program (NFEP) is located at NIFC. This  
39 unit is responsible for the development, ordering, inspection, receiving, and  
40 distribution of new fire equipment that will meet or exceed the minimum  
41 performance standards established by the BLM Fire Equipment Group and the  
42 BLM Engine Committee. The NFEP website is located within the BLM Fire  
43 Operations website.

44

45

46

**1 BLM Fire Equipment Status Report (FES)**

2 ~~XXX The FES Report will be completed by each state's designated~~  
3 ~~representative by April 15th every year. Each state will submit an FES report to~~  
4 ~~the NFEP annually by April 15.~~ The FES is required to gather baseline data  
5 including the license number, type, make/model and location on mobile asset  
6 types (i.e., engines, off-highway vehicles and support vehicles). The Division of  
7 Fire Operations will issue an annual reminder notification to the Fire Operations  
8 Group (FOG) requesting this information. The FES is available at the NFEP  
9 section of the BLM Fire Operations website.

10

**11 BLM Engine Use Report (EUR)**

12 ~~XXX EUR data will be submitted monthly for every BLM engine, including~~  
13 ~~those on inactive status. All required fields must be completed; optional fields~~  
14 ~~are discretionary. Information gathered will include fire suppression/hazardous~~  
15 ~~fuels reduction data, personnel training and qualifications, vehicle maintenance,~~  
16 ~~and vehicle utilization specific to the BLM engine program.~~

17

18 ~~The EUR uses the SharePoint platform to gather and display standardized and~~  
19 ~~consistent data from the BLM engine program. The Division of Fire Operations~~  
20 ~~will provide EUR SharePoint owner privileges to one person per state as~~  
21 ~~designated by the respective state's FOG representative. This individual will be~~  
22 ~~responsible for enabling field personnel to enter required data into the EUR~~  
23 ~~SharePoint site.~~

24

25 ~~XXX All BLM engines will utilize the Engine Use Report. The EUR should be~~  
26 ~~printed and completed daily as part of the Fire Equipment Maintenance and~~  
27 ~~Procedure Record (FEMPR) and entered into the BLM EUR Share Point on a~~  
28 ~~monthly basis. Access will be granted by the respective state Fire Operations~~  
29 ~~Group (FOG) representative. The EUR is available at the ~~XXX NFEP~~ Engine~~  
30 ~~section of the BLM Fire Operations website.~~

31

**32 Equipment Development**

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

38

**39 Standardization**

40 Standardization of fire equipment aids in the ability to produce equipment that  
41 effectively meets the Bureau's mission by providing cost effective equipment  
42 with the least impact on fire programs. Standardization also contributes to the  
43 ability to provide effective, consistent, and quality training to the BLM fire  
44 program workforce. The BLM Fire Equipment Group and the BLM Engine  
45 Committee have the responsibility to establish and approve minimum  
46 performance standards for all BLM-specific fire equipment.

1 **Fire Engine and Command Vehicle Identifier Standards**

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

5

6 **Deficiency Reporting**

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

12

13 District/Field Offices are required to submit timely and detailed deficiency  
14 reports for problems encountered with BLM fire equipment. Reports will also  
15 be submitted for suggestions for improvement. Submitted reports will receive  
16 immediate attention. The NFEP will immediately verify receipt of the  
17 deficiency report and will follow-up with the submitting District/Field Office to  
18 correct the deficiency or work to incorporate the improvement suggestion. The  
19 Improvement/Deficiency Reporting System can be found on the BLM National  
20 Fire Equipment Program website, located within the BLM Fire Operations  
21 website.

22

23 **Acquisition of Working Capital Fund Equipment**

24 The National Operations Center (NOC) located in Denver manages the Working  
25 Capital Fund (WCF). Each class of vehicle has an established replacement  
26 cycle based on miles or hours, vehicle replacement costs, and residual value.  
27 The WCF acquires funds through Fixed Ownership and Use Rates determined  
28 by the replacement cycle. At the end of the replacement cycle, adequate funds  
29 to replace the vehicle are available. For new vehicle purchases, funds are  
30 acquired/secured by the receiving unit and the new purchase is added to the  
31 WCF. The NOC monitors vehicle usage and replacement cycles, and notifies  
32 the NFEP when vehicles need to be replaced. The NFEP then coordinates with  
33 the receiving unit to order the replacement vehicle. When the order is placed,  
34 the NFEP works with the BLM Fleet Manager, the receiving unit, contracting,  
35 and the vendor to fill the order.

36

37 **Funding**

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

46

**1 BLM Mobile Fire Equipment Ordering**

2 Ordering of BLM mobile fire equipment is completed through the NFEP at  
3 NIFC. Available equipment is listed in the BLM Fire Equipment Ordering  
4 System (FEOS) web page. Contact the National Fire Equipment Program for  
5 additional information.

6  
7 States have the authority to order their own equipment using WCF funds.  
8 However, the BLM has established required equipment and performance  
9 standards for new equipment. These standards have been established to reduce  
10 excessive procurement costs, maintain common operational functions, and  
11 provide a Bureau wide standard fire fleet.

12  
13 **XXX All WCF 600 class vehicles must be ordered through FEOS.** If states  
14 order their own equipment using WCF funds, they must have approval from the  
15 WCF Fleet Manager, State Fire Management Officer, and the Chief, Division of  
16 Fire Operations (FA-300) prior to ordering.

**18 Equipment Modification/Retrofitting**

19 Modification proposals must be submitted through the Improvement/Deficiency  
20 reporting system or applicable FOG sub-committee for consideration and  
21 approved through the NFEP. Unauthorized modifications and retrofits have the  
22 potential to negatively impact equipment quality and safety and void  
23 manufacturer warranties. In such cases, the financial burden of corrective action  
24 will be borne by the home state/unit preparedness funding.

**26 Property Transfer/Replacement**

27 Surplus and early turn-in fire vehicles may be transferred to another unit for  
28 continued service with the approval of the State Fire Management Officer and  
29 the WCF Manager. In these instances, the vehicle remains in the same class,  
30 and the FOR and use rates will continue to be charged to the unit acquiring the  
31 vehicle. Units may dispose of fire vehicles prior to the normal replacement date.  
32 In these instances, no future replacement is automatically provided and there is  
33 no accrued credit for the FOR collected on that unit prior to disposal. Units  
34 acquiring this type of equipment continue payment of the FOR and use rates.

**36 Conversions**

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

- 39 • Proposed changes meet current and future preparedness requirements  
40 identified in Resource/Land Management Plans and Fire Management  
41 Plans.
- 42 • Proposed changes result in an overall cost savings to the government.

43  
44 If any proposed changes in equipment result in additional overall costs to the  
45 government, documentation must include:

- 46 • Increased production rates which may offset additional costs

- 1 • The requesting states availability of sufficient funds to cover additional  
2 costs.  
3  
4 BLM units will use the standard form available on the BLM Fire Operations  
5 website to provide required documentation for approval for conversions,  
6 transfers, and excess vehicles.

7  
8 **BLM Engine Equipment Inventory**

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

11  
12 **Fire Equipment Maintenance and Care Standards**

13 BLM fire equipment will be maintained to reflect the highest standards in  
14 performance and appearance, and will meet the following standards:

- 15 • Equipment exterior:
- 16 ○ Clean and waxed
  - 17 ○ Free of debris
  - 18 ○ Items secured
  - 19 ○ Windows and mirrors cleaned
  - 20 ○ All mechanical systems in good working order
- 21 • Equipment interior:
- 22 ○ Cab and compartments free of dirt and debris
  - 23 ○ Cab free of loose items
  - 24 ○ Equipment stored in appropriate compartments and organized
  - 25 ○ Windows and mirrors cleaned
  - 26 ○ Mechanical systems in good working order

27  
28 Equipment will be stored in sheltered areas away from environmental elements  
29 whenever possible to prevent damage to critical seals, mechanical components,  
30 and the high-visibility finish.

31  
32 **XXX Fire Equipment Maintenance and Procedure Record (FEMPR)**

33 The Fire Equipment Maintenance Procedure and Record (FEMPR) will be used  
34 to document XXX periodic daily inspections and all maintenance XXX on for  
35 all XXX WCF Class 600 fire equipment and any other vehicles used for fire  
36 suppression operations. The ~~XXX Fire Equipment Maintenance Procedure and~~  
37 ~~Record~~ (FEMPR shall be maintained and archived to record historic XXX  
38 engine maintenance for the duration of the vehicle's service life. This historical  
39 data is beneficial in determining trends, repair frequency, and repair costs. The  
40 FEMPR can be found at the BLM Fire Operations website.

41  
42 Apparatus safety and operational inspections will be performed at the intervals  
43 recommended by the manufacturer and on a daily and post-fire basis as required.  
44 XXX For engines and water tenders, all annual inspections will include a pump  
45 gpm test to ensure the pump/plumbing system is operating at or above the  
46 manufacturer's minimum rating for the pump.

1 **BLM Implementation of the Department of the Interior (DOI)**  
2 **Authorization for Use of Government Passenger Carrier(s) for Home-to-**  
3 **Work Transportation**

4 The BLM recognizes the need for domiciling fire vehicles for specific positions  
5 during fire season in order to provide for more immediate response to wildfires  
6 during off-duty hours, and has been granted this authority by DOI.

- 7 • Only those positions authorized and pre-identified within the DOI  
8 memorandum will have the authority to domicile designated government  
9 vehicles.
- 10 • This authority is intended only for individuals in first response fire  
11 leadership roles who may be responding to initial attack fires directly from  
12 their home after hours.
- 13 • Government vehicles are used solely for official business and domiciled  
14 only during core fire season months when there is a heightened level of  
15 current or expected fire activity.
- 16 • Authorized positions will be recertified every two years and may be revised  
17 at that time.
- 18 • Units are responsible for maintaining documentation of home-to-work use  
19 of government vehicles. This documentation will be reviewed during  
20 annual fire and aviation preparedness reviews. A BLM standard tracking  
21 form has been developed and may be used for this purpose. It can be found  
22 on the BLM Fire Operations website:  
23 [http://web.blm.gov/internal/fire/fire\\_ops/toolbox.htm](http://web.blm.gov/internal/fire/fire_ops/toolbox.htm)
- 24 • Refer to Instruction Memorandum No. FA IM-2013-023 for more  
25 information.

26  
27 **Lights and Siren Response**

28  
29 Responding to BLM wildland fire incidents normally does not warrant the use of  
30 emergency lights and siren to safely and effectively perform the BLM mission.  
31 However, there may be rare or extenuating circumstances when limited use of  
32 lights and sirens are appropriate and necessary due to an immediate threat to life.

33  
34 Those BLM state organizations that determine a lights and sirens response is  
35 necessary to meet mission requirements must develop an operating plan that is  
36 signed and approved by the State Director and forwarded to the Chief, Division  
37 of Fire Operations, BLM FA. The operating plan must ensure the following:

- 38 1. All vehicles (command, engines, etc.) will be properly marked, equipped,  
39 and operated in accordance with state statutes, codes, permits, and BLM  
40 unit requirements.
- 41 2. Drivers will complete training in the proper use of lights and sirens  
42 response in accordance with National Fire Protection Association (NFPA)  
43 1451 and 1002 standards, as well as any state requirements.
- 44 3. Drivers responding with lights and sirens will be minimally qualified as  
45 engine operator.
- 46 4. Lights and sirens will meet NFPA and state code requirements.

- 1 5. Posted speed limits will be followed at all times, regardless of response  
2 type.
- 3 6. Operators will stop or reduce speed as circumstances dictate prior to  
4 proceeding through all intersections.
- 5 7. Traffic light changing mechanisms (e.g., Opticons) will only be used under  
6 formal written agreement with state and local governments. They will be  
7 used only when they are necessary to create safe right-of-way through urban  
8 high-traffic areas. All pertinent state and local statutes and procedures will  
9 be adhered to.
- 10 8. Authorization to respond with lights and sirens does not cross state lines.  
11 No driver will be authorized by one state to operate with lights and sirens in  
12 another state.

## 14 **BLM Firefighters**

### 16 **Introduction**

17 Firefighters operate within the Incident Command System (ICS), which is a  
18 component of the National Incident Management System (NIMS).

19  
20 In the ICS, firefighters are either assigned as single resource overhead  
21 (individuals assigned to specific supervisory or functional positions) or as  
22 members of an organized unit. The individuals within these units are trained to  
23 provide different levels and types of tactical, logistical, and managerial  
24 capability.

25  
26 These units include:

- 27 • **Hand Crews** - Vehicle mobile firefighters that specialize in the use of hand  
28 tools, chainsaws, portable pumps, and ignition devices for tactical  
29 operations. Hand crew types include Interagency Hotshot Crews (IHC)s,  
30 Type 2 Initial Attack Crews, Type 2 Crews, and Fire Suppression Modules.
- 31 • **Engine Crews** - Engine mobile firefighters that specialize in the use of  
32 engines for tactical operations.
- 33 • **Helitack** - Helicopter mobile firefighters that specialize in the use of  
34 helicopters for tactical and logistical operations.
- 35 • **Smokejumpers** - Fixed wing aircraft and parachute mobile firefighters that  
36 specialize in the use hand tools, chainsaws, and ignition devices for tactical  
37 operations.

### 38 **BLM Firefighter Priority for Use**

- 39 • Initial attack on lands for which the BLM has suppression responsibility.
- 40 • Other fire suppression/management assignments on BLM lands.
- 41 • Other fire suppression/management assignments on other agency lands.
- 42 • All Hazard - ESF#4 reference:  
43 [http://web.blm.gov/internal/fire/budget/Reference\\_docs/esf4/ESF4\\_page.ht](http://web.blm.gov/internal/fire/budget/Reference_docs/esf4/ESF4_page.htm)  
44 [m](http://web.blm.gov/internal/fire/budget/Reference_docs/esf4/ESF4_page.htm)

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**Mobilization of BLM Firefighters**

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79

1 Each state director and the Fire and Aviation division chiefs for Operations and  
2 Aviation have been delegated the authority to expend up to \$300,000 for “short  
3 term” severity needs per fiscal year. This discretionary severity authorization  
4 can be expended for appropriate severity activities without approval from Fire  
5 and Aviation. States will establish a process for requesting, approving, and  
6 tracking short term severity funds.

7

### 8 **National Level Severity Funding**

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

- 10 • Preparedness plans indicate the need for additional  
11 preparedness/suppression resources;
- 12 • Anticipated fire activity will exceed the capabilities of local resources;
- 13 • Fire season has either started earlier or lasted longer than identified in the  
14 fire management plan; and/or
- 15 • An abnormal increase in fire potential or fire danger **XXX (i.e. high fuel**  
16 **loading, fuel dryness)** not planned for in existing preparedness plans exists.

17

18 Guidance for requesting and utilizing national level severity funding is found in  
19 Chapter 10 and on the BLM Fire Operations website. Requests should be  
20 consolidated by state, coordinated with Fire and Aviation, and then submitted to  
21 Fire and Aviation by the State Director. The official memo requesting funds  
22 should be mailed to the Assistant Director, Fire and Aviation. An electronic  
23 copy should also be e-mailed to “BLM\_FA\_Severity@blm.gov”.

24

25 Severity funding requests will be accepted and approved for a maximum of 30  
26 days, regardless of the length of the authorization. Use of severity funding must  
27 be terminated when abnormal conditions no longer exist. If the fire severity  
28 situation extends beyond the 30-day authorization, the state must prepare a new  
29 severity request.

30

31 An approval memo from Fire and Aviation will list authorized resources along  
32 with a cost string code for each state and field office to use for all resources. All  
33 resources authorized through this process will be counted in the state’s severity  
34 authorization limit, including extension of exclusive use aircraft contracts.

35

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

41

### 42 **National Preposition Funding**

43 National preposition funding is used to mobilize resources to areas with  
44 anticipated fire activity when other funding is not available. Units may request  
45 national preposition funding from FA to acquire supplemental fire operations

1 assets to increase initial attack capability. National preposition funding may be  
2 used to mobilize resources when BLM units:

- 3 • Do not have available preparedness funding;
- 4 • Do not have available short-term severity funding; or
- 5 • Do not meet the criteria for use of national severity funding.

6  
7 Approved national preposition funding may be used only for travel and per diem  
8 costs for the duration of the assignment, and overtime labor costs associated  
9 with the original preposition move.

10  
11 Each State Director has been delegated the authority to expend national  
12 preposition funding within an allocation limit established annually through  
13 issuance of an Instruction Memorandum. The criteria stated above apply to this  
14 allocation.

- 15  
16 • National Preposition Request Process
  - 17 ○ Unit FMO identifies need and notifies State FOG representative. FOG  
18 representative informs SFMO.
  - 19 ○ FOG representative coordinates with unit FMO to verify need and  
20 determine asset types, numbers, and projected preposition location.
  - 21 ○ Requesting FOG representative queries FOG group and identifies  
22 available assets.
  - 23 ○ Requesting and sending FOG representatives jointly complete the BLM  
24 Preposition Request Form found on the BLM Fire Operations website.
  - 25 ○ Requesting FOG representative will submit the request electronically  
26 via e-mail to “BLM\_FA\_Prepositioning@blm.gov” to acquire Division  
27 of Fire Operations (FA-300) approval. If aviation assets are requested,  
28 FA-300 will coordinate with the National Aviation Office (FA-500)  
29 and secure FA-500 approval.
  - 30 ○ FA-300 will notify the requesting and sending FOG representatives via  
31 e-mail when the request is approved.
  - 32 ○ After securing FA-300/500 approval, the requesting FOG  
33 representative places name request order(s) for specified assets through  
34 normal coordination system channels.
  - 35 ○ Responding BLM assets will be assigned to a temporary host unit by  
36 the receiving FOG representative.
  - 37 ○ Responding assets, sending/receiving FOG representatives, and the  
38 temporary host unit will negotiate length of assignment and crew  
39 rotation, and ensure that prepositioned personnel meet work/rest  
40 requirements.

41  
42 BLM preposition funding request information can be found at the BLM Fire  
43 Operations website.

44  
45  
46

1 **State Discretionary Preposition Funding**  
 2 Each State Director has been delegated the authority to expend preposition  
 3 funding for prepositioning activities in amounts determined by the BLM Fire  
 4 Leadership Team. This discretionary preposition funding authorization can be  
 5 expended for appropriate preposition activities (according to the criteria  
 6 established for National Preposition Funding) without approval from the AD,  
 7 FA.

8  
 9 Each state will establish a process to document requests and approvals, and  
 10 maintain information in a file.

11 **BLM Fire Training and Workforce Development**

12  
 13  
 14 **BLM Fire Training and Workforce Development Program**  
 15 The BLM National Fire Training and Workforce Development Program is  
 16 located at NIFC and works for the BLM Chief, Preparedness/Suppression  
 17 Standards. The program develops the wildland firefighting workforce through  
 18 qualification standards, training standards, and workforce development  
 19 programs in support of BLM fire management.

20  
 21 ***BLM Standards for Fire Training and Workforce Development***  
 22 The BLM Fire Training and Workforce Development Program, in coordination  
 23 with the BLM Fire Operations Group and the BLM Fire Training Committee, is  
 24 responsible for publishing the *BLM Standards for Fire Training and Workforce*  
 25 *Development*. The *BLM Standards for Fire Training and Workforce*  
 26 *Development* provides fire and aviation training, qualifications, and workforce  
 27 development program management direction. This document is available at  
 28 [http://www.blm.gov/nifc/st/en/prog/fire/training/fire\\_training.html](http://www.blm.gov/nifc/st/en/prog/fire/training/fire_training.html).

29  
 30 **BLM Firefighters General Non-Fire Training Requirements**

Employment Category	Training Required	Initial Requirement/ Frequency	Delivery Method/ Responsible Party
<b>Administratively Determined (AD) and Emergency Firefighters (EFF)</b>	Defensive Driving (If operating GOV, including rental or leased, vehicle for official purposes.	-Prior to operating motor vehicle for official purposes. -Once every three years.	-Instructor-led (initial) -DOI Learn or Instructor-led (recurrency) -Unit Safety Manager
	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.	-Instructor-led  -Unit Safety Manager

Employment Category	Training Required	Initial Requirement/ Frequency	Delivery Method/ Responsible Party
<b>Agency Permanent, Career Seasonal, &amp; Temporary Firefighters</b>	Safety Orientation	-Once	Instructor-led Supervisor
	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)	Instructor-led Unit Safety Manager
	Defensive Driving	-Prior to operating motor vehicle for official purposes. -Once every three years.	-Instructor-led (initial) -DOI Learn or Instructor-led (recurrency) -Unit Safety Manager
	First Aid/ Cardiopulmonary Resuscitation (CPR)	-Upon initial employment. -Every 3 years or per certifying authority.	-Instructor-led -Unit Safety Manager
	HAZMAT - First Responder Awareness Level	-Upon initial employment. -Annually.	-Instructor-led -Unit Safety Manager
	<i>USGS Hazard Communications-GHS</i>	Upon initial employment.	-Instructor-led, DOI Learn -Unit Safety Manager, Unit Hazardous Materials Coordinator (Refer to WO IM No. 2013-100)
	Do What's Right/EEO/ Diversity	-Annually.	-Instructor-led, DOI Learn, or as determined by EEO Manager -FMO (Do What's Right) -EEO Manager

1 For a complete listing of safety & health training - refer to *BLM Manual*

2 *Handbook 1112-2, Safety and Health for Field Operations.*

3

4 **Driver Training for Regular Drivers of Fire Equipment**

5 All regular drivers of engines, water tenders, helicopter support vehicles, crew

6 carriers, fuel tenders, and fire command and support vehicles must complete

1 BL-300 *Fire Vehicle Driver Orientation* (initially) and RT-301 *Fire Vehicle*  
 2 *Driver Refresher Training* (annually). Course materials are available at the  
 3 BLM Fire Training website at:  
 4 [http://www.blm.gov/nifc/st/en/prog/fire/training/fire\\_training.html](http://www.blm.gov/nifc/st/en/prog/fire/training/fire_training.html)

5  
 6 For the purposes of this policy, a regular driver is defined as an employee whose  
 7 duties include driving fire equipment on a regular basis. This may include  
 8 highway, off-road, city, mobile attack, and extreme terrain driving.

9  
 10 **BLM Firefighter Mandatory Physical Fitness Standards**

11 The *Wildland Fire Qualifications System Guide* (PMS 310-1) establishes  
 12 physical fitness standards for NWCG sanctioned firefighters. These standards  
 13 are assessed using the Work Capacity Tests (WCT). Prior to attempting the  
 14 WCT, all permanent, career-seasonal, temporary, Student Career Experience  
 15 Program (SCEP), and AD/EFF employees who participate in wildland fire  
 16 activities requiring a fitness level of arduous must participate in the DOI  
 17 Medical Qualification Standards Program (DOI-MSP).

18  
 19 Employees serving in wildland fire positions that require a fitness rating of  
 20 arduous as a condition of employment are authorized one hour of duty time each  
 21 work day for physical fitness conditioning. Employees serving in positions that  
 22 require a fitness rating of moderate or light may be authorized up to three hours  
 23 per week.

24  
 25 Units will maintain a fitness program that ensures BLM firefighters will possess  
 26 the physical ability to perform the duties of their positions safely and effectively  
 27 while ensuring compliance with the requirements of the Work Capacity Test  
 28 (WCT).

29  
 30 Information on the WCT and the DOI-MSP is located in Chapter 13 of this  
 31 publication. Fitness and conditioning information may be found at  
 32 [www.nifc.gov/FireFit/index.htm](http://www.nifc.gov/FireFit/index.htm).

33  
 34 **XXX BLM Firefighter Target Physical Fitness Standards**

35 These are voluntary targets. They are not mandatory. These targets are  
 36 established to provide BLM firefighters a common standard against which to  
 37 gauge their physical fitness level. BLM firefighters are encouraged to meet or  
 38 exceed these standards.

39

	Age 18-29	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
Pull Ups (1 minute)	6	6	5	5

1 The guide below may be used to adjust the 1.5 mile run times to compensate for  
2 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

3

#### 4 **BLM National Fire Operations Fitness Challenge**

5 The BLM national fire operations fitness challenge encourages and recognizes  
6 achievement in physical fitness by BLM firefighters. The fitness challenge  
7 provides a common system by which BLM firefighters can measure current  
8 fitness, establish fitness goals, and track fitness improvement. The fitness  
9 challenge is voluntary, but BLM firefighters are encouraged to participate **XXX**  
10 **and, at a minimum, meet the level 1 achievement.** The fitness challenge tests  
11 participants in four basic exercises - push-ups, pull-ups, sit-ups and a timed run  
12 of either 1.5 or 3.0 miles. Test results are compiled into a final overall score.  
13 Unit and state offices are encouraged to support and recognize achievement in  
14 firefighter fitness. The BLM FA Division of Fire Operations will recognize  
15 high achievers annually. Specific information on the fitness challenge, **XXX**  
16 **the points chart, and the score sheet-is are** located in the Toolbox **XXX on**  
17 **section of** the BLM Fire Operations Website.

18

19 **XXX Achievement levels:**

- 20 ● Level 1: 100 points, minimum 20 points per event
- 21 ● Level 2: 100 points, minimum 25 points per event
- 22 ● Level 3: 200 points, minimum 25 points per event
- 23 ● Level 4: 300 points, minimum 25 points per event
- 24 ● Level 5: 400 points (maximum score)

25

Scoring					
Points	3-mile Run	1.5 Mile Run	Pull-ups (3 Mins)	Push-ups (3 mins)	Sit-ups (3 mins)
20	26:43	11:40	6	23	36
25	25:20	11:00	7	25	40
50	22:30	9:30	10	35	60

26

#### 27 **Interagency Fire Program Management Standards**

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

- 31 ● Establishes minimum qualifications standards for 13 key fire management  
32 positions. These standards include 1) basic requirements, 2) specialized

- 1 experience requirements, 3) NWCG incident management qualifications, 4)  
 2 additional required training.
- 3 • Provides a “complexity rating for program management” table, which is  
 4 used to determine overall complexity of the unit level fire program. This is  
 5 used because qualification standards for some of the 13 identified positions  
 6 are tied to fire program complexity.
- 7
- 8 State and unit level fire managers should consult human resources officials and  
 9 apply the IFPM Standard as appropriate. IFPM information is located at:  
 10 <http://www.ifpm.nifc.gov>

## 11 BLM Hand Crews

### 12 BLM Hand Crew Standards (all crew types)

- 13 • **Language** - CRWB and FFT1: must be able to read and interpret the  
 14 language of the crew as well as English.
- 15 • **Flight Weight** – 5300 pounds.
- 16 • **Personal gear** - Sufficient for 14 day assignments.
- 17 • **Physical fitness** - Arduous, all positions.
- 18 • **Required Equipment & PPE** - Fully equipped as specified in the  
 19 *Interagency Standards for Fire and Fire Aviation Operations*.

### 20 BLM Hand Crew Standards by Type

21 Crew Type	Type 1	Type 2IA	Type 2	Fire Suppression Module
22 Crew Size	Minimum 18 Maximum 25	Minimum 18 Maximum 20	Minimum 18 <sup>1</sup> Maximum 20	Minimum 5 Maximum 10
23 Leadership Qualifications	1-Supt 1-Assist Supt 3-Squad Leaders XXX or 1-Supt 2-Assist Supt 2-Squad Leaders	1 CRWB 3 ICT5	1 CRWB 3 FFT1	1 SRB/ICT5 2 FFT1 2 FALA
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	Operates as a single module w/T5 command capability
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.			
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	Agency only

<b>Full Time Organized Crew</b>	Yes (work and train as a unit 40 hrs per week)	No	No	No
<b>Crew Utilization</b>	National Shared Resource	Local unit control	Local unit control	Local unit control
<b>Communication</b>	7 programmable handheld radios. 1 programmable mobile radio in each truck	4 programmable handheld radios	4 programmable handheld radios	2 programmable handheld radios
<b>Sawyers</b>	3 XXX Agency Qualified FAL2	3 XXX Agency Qualified-FAL3	None	None
<b>Training</b>	40 hours annual training prior to assignment.	40 hours Basic firefighter training or once red carded; 4 hours annual fireline refresher training prior to assignment.	40 hours Basic firefighter training or once red carded; 4 hours annual fireline refresher training prior to assignment.	40 hours Basic firefighter training or once red carded; 4 hours annual fireline refresher training prior to assignment.
<b>Crew Type</b>	<b>Type 1</b>	<b>Type 2IA</b>	<b>Type 2</b>	<b>Fire Suppression Module</b>
<b>Logistics</b>	Squad level agency purchasing authority	Crew level agency purchasing authority recommended	No purchasing authority	Self-sufficient for 48 hours; purchasing authority recommended
<b>Maximum Weight</b>	5300 lbs			N/A
<b>Dispatch Availability</b>	Available Nationally	Available Nationally	Variable	Variable
<b>Production Factor</b>	1.0	.8	.8	Variable
<b>Transportation</b>	Own transportation	Need transportation	Need transportation	Own transportation
<b>Tools &amp; Equipment</b>	Fully equipped, Crew First Aid Kit	Not equipped	Not equipped	Variable
<b>Personal Gear</b>	Arrives with: personal first aid kit, headlamp, 1 qt canteen, web gear, sleeping bag, personal gear for 14 days			
<b>PPE</b>	All standard designated fireline PPE			
<b>Certification</b>	Must be annually certified by the local host unit Agency Administrator or designee prior to being made available for assignment	N/A	N/A	N/A
<b>Works together</b>	Yes	No	No	No

40 hours/week				
---------------	--	--	--	--

1 <sup>1</sup> As per the *Alaska Interagency Mobilization Guide*, for mobilization within  
 2 Alaska, Type 2 EFF crews will consist of 16 personnel: one crew boss, a  
 3 minimum of two squad bosses and the remainder to be crew members and/or  
 4 trainees.

5  
 6 **BLM Interagency Hotshot Crews XXX (IHCs)**

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

13  
 14 XXX BLM IHCs will meet all requirements found in the *Standards for*  
 15 *Interagency Hotshot Crew Operations (SIHCO)* and the *Interagency Standards*  
 16 *for Fire and Fire Aviation Operations* while providing a safe, professional,  
 17 mobile, and highly skilled hand crew for all phases of fire management and  
 18 incident operations.

19  
 20 **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

21  
 22 **BLM IHC Annual Crew Mobilization**

23 XXX BLM IHCs will comply with the Annual Crew Pre Mobilization Process  
 24 outlined in the *Standards for Interagency Hotshot Crew Operations* before  
 25 becoming available for assignment each spring. BLM specific direction is  
 26 outlined below:

- 1 • The Superintendent will complete an appendix C from the *Standards for*  
2 *Interagency Hotshot Crew Operations* with their local FMO and Agency  
3 Administrator.
- 4 • A copy of Appendix C will be sent to the BLM State Fire Management  
5 Officer for approval. XXX A copy will also be sent to the BLM Division  
6 Chief, Fire Operations, BLM FA, NIFC.
- 7 ○ The extent of the preparedness review required every 12 months by the  
8 Appendix C is at the discretion of the State Fire Management Officer,  
9 local Fire Management Officer, and Superintendent.
- 10
- 11 The State Fire Management Officer will notify the appropriate Geographic Area  
12 Coordination Center (GACC) of crew availability.
- 13
- 14 XXX Prior to becoming available for mobilization, each BLM IHC will  
15 complete the BLM Hotshot Crew Preparedness Review Checklist (#18) and the  
16 Annual IHC Mobilization Checklist (SIHCO, Appendix C). The IHC  
17 Superintendent, supervising fire management officer, and supervising agency  
18 administrator will complete both checklists. Completed and signed checklists  
19 will be sent to the State Fire Management Officer for concurrence. Upon  
20 concurrence, the State Fire Management Officer will notify the appropriate  
21 Geographic Area Coordination Center and the Branch Chief, Preparedness and  
22 Suppression Standards (FA-320) of crew status, and provide copies of the BLM  
23 Hotshot Crew Preparedness Review Checklist (#18) and the Annual IHC  
24 Mobilization Checklist (SIHCO, Appendix C) to each.
- 25
- 26 XXX For BLM IHCs based in the Eastern and Southern Geographic Areas, the  
27 process outlined above will be followed, with the Branch Chief, Preparedness  
28 and Suppression Standards will serving as the State Fire Management Officer.
- 29
- 30 **BLM IHC XXX Crew Status Decertification and Recertification**
- 31 XXX If a change in crew capabilities results in the inability to meet the  
32 standards specified in the *National Interagency Hotshot Crew Operations Guide*  
33 *or Standards for Fire and Fire Aviation Operations*, the Superintendent is  
34 required to contact their local GACG and have the crew typing amended to the  
35 appropriate level as listed in the BLM crew typing chart.
- 36
- 37 Re-statusing the crew back to the IHC level will use either the Annual Crew Pre-  
38 Mobilization Process or the Crew Certification Process outlined in the *Standards*  
39 *for Interagency Hotshot Crew Operations*. The choice of which process will be  
40 at the discretion of the State Fire Management Officer, local Fire Management  
41 Officer, and Superintendent.
- 42
- 43 XXX Changes to crew qualifications and capabilities should be closely  
44 examined by the superintendent to ensure that all requirements contained in the  
45 SIHCO are met. Any BLM IHC that is unable to meet the minimum  
46 requirements will be placed in Type 2IA status until the requirements can be

1 met. Exceptions to the requirements must be requested by the State Fire  
 2 Management Officer (for IHCs based in the Eastern and Southern Geographic  
 3 Areas, the request must be made by the State Director, Eastern States), and may  
 4 be granted on a case-by-case basis by the Chief, Division of Fire Operations  
 5 (FA-300).

7 XXX Short term inability to meet the requirements may not necessarily require  
 8 recertification, but will require completion of the Annual IHC Mobilization  
 9 Checklist (SIHCO, Appendix C) and concurrence from the Branch Chief,  
 10 Preparedness and Suppression Standards before regaining IHC status. Longer  
 11 term or more significant failures to meet the requirements may require the full  
 12 recertification process as stated in the SIHCO, with oversight from the Division  
 13 of Fire Operations.

14  
 15 **BLM IHC Crew Size**

16 BLM IHCs XXX have the option of traveling with 25 personnel when on  
 17 incident assignments as authorized by the local unit will have a minimum of 18  
 18 personnel, and a maximum of 25 personnel. BLM IHC superintendents will  
 19 obtain prior approval from the XXX dispatching respective GACC when the  
 20 assignment requires fixed wing transport XXX and the crew size is greater than  
 21 20 of an IHC with more than 20 personnel.

22  
 23 **BLM IHC Status Reporting System**

24 XXX BLM IHCs will utilize the National IHC Status Reporting System to  
 25 report availability, assignment status, and unavailability periods. Refer to  
 26 Chapter 13 for XXX BLM IHC status reporting requirements instructions on  
 27 how to report.

28  
 29 **BLM IHC Training and Qualification Requirements**

Role	NWCG Qualification	Fire Training
<b>Firefighter</b>	FFT2	IS-700 <i>NIMS: An Introduction</i> I-100 <i>Intro to ICS</i> S-130 <i>Firefighter Training</i> S-190 <i>Intro to Wildland Fire Behavior</i> L-180 <i>Human Factors on the Fireline</i>
<b>Senior Firefighter</b>	FFT1	All the above plus: S-211 <i>Portable Pumps and Water Use</i> S-212 <i>Chain Saws</i> S-131 <i>Firefighter Type 1</i> S-133 <i>Look Up, Look Down, Look Around</i> S-270 <i>Basic Air Operations</i> S-290 <i>Intermediate Fire Behavior</i>

<b>Squad Boss</b>	ICT5 XXX CRWB <sup>1</sup>	All the above plus: I-200 <i>Basic ICS</i> S-215 <i>Fire Ops in the WUI</i> S-230 <i>Crew Boss Single Resource</i> <del>XXX S-234 <i>Ignition Operations</i></del> S-219 <i>Firing Operations</i> S-260 <i>Incident Business Management</i> L-280 <i>Followership to Leadership</i>
<b>Assistant Superintendent</b>	STCR ICT4	All the above plus: IS-800B <i>NRF: An Introduction</i> I-300 <i>Intermediate ICS</i> S-200 <i>Initial Attack IC</i> S-330 <i>Task Force/Strike Team Leader</i> S-390 <i>Intro to Fire Behavior Calculations</i> L-380 <i>Fireline Leadership</i> M-410 <i>Facilitative Instructor or equivalent</i>
<b>Superintendent</b>	TFLD ICT4 FIRB	All the above.

1 XXX<sup>1</sup> CRWB will be required for BLM IHC Squad Bosses on October 1, 2017.

2

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#### BLM Fire Suppression Modules

BLM Fire Suppression Modules are comprised of 5-10 firefighters and are used primarily for wildfire suppression, fuels reduction, and other fire management duties. They are capable of performing self-contained initial attack suppression operations, and can generally provide incident management capability at the Type 5 level.

#### BLM Fire Suppression Module Mobilization

BLM Fire Suppression Modules will be statused, tracked, and mobilized in the ROSS system, using the resource identifier "Module, Suppression".

#### BLM Wildland Fire Modules

Refer to Chapter 13.

#### BLM Engines

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

#### BLM Engine Ordering

- BLM engines will status themselves with their local dispatch center in accordance with local policy and procedure.

- 1 • Availability of BLM engines for off unit assignments rests with local unit  
2 fire management.
- 3 • BLM units needing engines from another state for support will contact their  
4 state operations lead with a request.
- 5 • The state operations lead will contact the FA Division of Operations or  
6 other BLM state office operations leads with the request.

### 8 **BLM Engine Typing**

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

### 12 **BLM Engine Minimum Staffing Requirements**

13 All BLM engines will meet these staffing standards on every fire response:

- 14 • BLM engines operating with five or more personnel will always have a  
15 fully qualified ENOP (other than the Engine Boss). The Engine Boss must  
16 be qualified as ICT4;
- 17 • BLM engines operating with four personnel will always have an FFT1  
18 (other than the Engine Boss). The Engine Boss must be qualified as ICT5;
- 19 • BLM Engines operating with three or fewer personnel must have an Engine  
20 Boss qualified as ICT5 or higher; and
- 21 • Chase vehicles are considered part of the engine staffing.

22

23 BLM utilizes the term “Engine Captain” to describe an individual whose  
24 position description reflects primary responsibility as a supervisory wildland  
25 firefighter of a wildland fire engine in a BLM fire management organization.  
26 “Engine Captain” is not a fireline qualification.

27

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

<b>669 Tactical Water Tender</b>	1, 2 (Tender)		1	1
<b>669 Non-Tactical Water Tender<sup>2</sup></b>	1, 2, 3 (Tender)	See footnote 2 below		

<sup>1</sup> All WCF class 668 super-heavy engines will be minimally staffed as type 3 or 4 engines with an engine boss, engine operator, and engine crewmember. All WCF class 668 super-heavy tactical water tenders (2 seats, Tatra chassis, volume pump rated at 250 GPM and 150 PSI or better) will be minimally staffed with an engine boss and an engine crewmember.

<sup>2</sup> A WCF class 669 non-tactical water tender may be staffed with a crew of one driver/operator when it is used in a support role as a fire engine refill unit or for dust abatement. These operators do not have to pass the Work Capacity Test (WCT) but are required to take annual refresher training, and possess a CDL with tank endorsement, and air brake endorsement (if applicable).

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

#### **BLM Engine Training and Qualification Requirements**

BLM has established additional training and qualification requirements for Engine Operator (ENOP) and Engine Boss (ENGB). These additional requirements are listed below, ~~XXX and were enforced in IQCS under the BLM Set ID on February 15, 2013. Historical recognition has been applied to BLM responders that were fully qualified as ENOP and/or ENGB prior to February 15, 2013; these responders will remain qualified. BLM responders who were in trainee status for ENOP and/or ENGB on or after February 15, 2013 will meet the requirements below.~~

<b>Fireline Position</b>	<b>Required Training and Qualifications</b>
<b>Engine Crewmember</b>	IS-700 <i>NIMS: An Introduction</i> I-100 <i>Intro to ICS</i> L-180 <i>Human Factors on the Fireline</i> S-130 <i>Firefighter Training</i> S-190 <i>Introduction to Wildland Fire Behavior</i>
<b>Engine Operator</b>	Qualified as FFT1 PMS- 419 <i>BLM Engine Operator Course</i> L-280 <i>Followership to Leadership</i> S-131 <i>Firefighter Type 1</i> S-133 <i>Look Up/Down/Around</i> S-211 <i>Pumps and Water Use</i>

	S-212	<i>Wildfire Power Saws</i>
	S-260	<i>Incident Business Management</i>
	S-290	<i>Intermediate Fire Behavior</i>
<b>Engine Boss</b>		Qualified as ENOP and ICT5
	I-200	<i>Basic ICS</i>
	S-215	<i>Fire Operations in the Wildland/Urban Interface</i>
	S-230	<i>Crew Boss (Single Resource)</i>
	S-290	<i>Intermediate Fire Behavior</i>

1

2 **BLM Engine Driver Requirements**

3 For engines greater than 26,000 GVWR, the driver of the engine is required to  
4 possess a commercial driver's license. Refer to Chapter 7 for more information.

5

6 WCF class 650 and 668 vehicle drivers are required to complete *WCF class 650*  
7 *and 668 driver and maintenance training* (once). *WCF class 650 and 668 driver*  
8 *and maintenance training* may be conducted at the unit/zone/state level utilizing  
9 qualified and experienced 650 and 668 operators, with prior approval and  
10 oversight by the NFEP. The NFEP maintains a list of qualified cadre members  
11 to assist as needed. NFEP staff are available as unit instructors; the hosting unit  
12 is responsible for course coordination.

13

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

16

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

21

22 BLM engine driver training satisfies the Bureau requirement for 4X4 driver  
23 training stated in H-1112-1, Chapter 15.

24

25 **BLM Smokejumpers**

26

27 BLM Smokejumpers operate in teams of 2-8 firefighters and are used primarily  
28 for wildfire suppression, fuels reduction, and other fire management duties.

29 They are capable of performing self-contained initial attack suppression  
30 operations, and commonly provide incident management capability at the Type  
31 3 level. BLM Smokejumpers provide personnel to Type 1 and Type 2 incidents  
32 as command and general staff or other miscellaneous single resource. The  
33 primary locations of the BLM smokejumper bases are Boise, Idaho and  
34 Fairbanks, Alaska.

35

36

37

**1 BLM SMKJ Operations**

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

**8 BLM Smokejumper Mission**

9 BLM smokejumper aircraft are dispatched with a standard load of 8  
10 smokejumpers and equipment to be self-sufficient for 48 hours. A typical  
11 smokejumper mission takes 30 minutes over a fire. A spotter (senior  
12 smokejumper in charge of smokejumper missions) serves as the mission  
13 coordinator on smokejumper missions. This may include coordinating airspace  
14 over a fire until a qualified ATGS arrives.

**16 BLM SMKJ Coordination & Dispatch**

17 Smokejumpers are a national shared resource and are ordered according to  
18 geographic area or national mobilization guides. The operational unit for  
19 smokejumpers is “one load” (8-20 smokejumpers). Specific information on the  
20 coordination, dispatch, ordering, and use of BLM smokejumpers can be found in  
21 the *BLM Great Basin Smokejumpers User Guide*, and in the *Alaska Geographic*  
22 *Area Coordination Center Mob Guide*. Contact BLM smokejumpers in Boise at  
23 (208) 387-5426 or in Alaska at (907) 356-5540 for these publications.

**25 BLM Ram-Air Parachute System Management**

26 The BLM has exclusive authority for all aspects of BLM Ram-Air parachute  
27 system management and operations. This includes:

- 28 • System Changes and Modifications- All BLM Ram-Air parachute system  
29 modifications, research, and development will be documented and approved  
30 using the BLM Smokejumper Modification Document (MODOC) System.
- 31 • Ram-Air Training- All smokejumpers utilizing the BLM Ram-Air  
32 Parachute system will adhere to the training processes and procedures in the  
33 BLM Ram-Air Training Manual.
- 34 • Malfunction Abnormality and Reporting System (MARS)- The MARS is a  
35 BLM smokejumper system used to report and document malfunctions and  
36 abnormalities associated with BLM smokejumper parachute jumping,  
37 parachute equipment, and parachute related aircraft operations. The MARS  
38 database is used by BLM smokejumper management to analyze  
39 malfunctions and abnormalities, identify trends, and initiate corrective  
40 actions. BLM retains exclusive authority to apply corrective actions to all  
41 MARS.
- 42 • BLM Approved Smokejumper Equipment List- All smokejumpers using the  
43 BLM Ram-Air parachute system will only utilize equipment listed in the  
44 BLM Approved Smokejumper Equipment List unless specific approval is  
45 authorized through a BLM Smokejumper Modification Document  
46 (MODOC).

- 1 • Incidents, Reviews, and Accident Investigations- BLM smokejumpers will  
 2 follow all procedures for accident review and investigation as outlined in  
 3 the Interagency Standards for Fire and Fire Aviation Operations Chapters 2  
 4 and 18. The BLM smokejumpers will report incidents/accidents as  
 5 appropriate, on the MTDC Injury Reporting Form, and the Interagency  
 6 Smokejumper Mission Incident Worksheet. A BLM Smokejumper subject  
 7 matter expert will participate in any investigation or review involving the  
 8 BLM Ram-Air Parachute System.
- 9 • Adherence to Agency Policies and Manuals- BLM will adhere to its own  
 10 policies, guidelines, manuals, handbooks and other operational documents  
 11 as they pertain to smokejumper parachuting operations. The Smokejumper  
 12 Base Managers will work through established command channels to change  
 13 BLM Ram-Air Parachute System policies, guidelines, manuals, handbooks  
 14 and other operational documents, and/or to request research and  
 15 development of new products.

#### 17 **BLM Smokejumper Aircraft**

18 BLM Smokejumpers use aircraft approved by the Interagency Smokejumper  
 19 Aircraft Screening and Evaluation Board (SASEB). All aviation operations will  
 20 be performed according to agency policies and procedures. BLM Smokejumper  
 21 specific aviation standards are identified in the BLM Smokejumper Air  
 22 Operations Manual.

#### 24 **BLM SMKJ Training**

25 To ensure proficiency and safety, smokejumpers complete annual training in  
 26 aviation, parachuting, fire suppression, administration, and safety. Experienced  
 27 jumpers receive annual refresher training in these areas. First year  
 28 smokejumpers undergo a rigorous 4-5 weeks long smokejumper training  
 29 program.

31 Candidates are evaluated to determine:

- 32 • Level of physical fitness  
 33 • Ability to learn and perform smokejumper skills  
 34 • Ability to work as a team member  
 35 • Attitude  
 36 • Ability to think clearly and remain productive in a stressful environment

#### 38 **BLM Smokejumper Training and Qualification Targets**

Position	IQCS Target	SMKJ Training Target
Dept Managers	T1 and T2 C&G	
Spotter	ICT3, DIVS, ATGS RXB2, SOFR	
<b>XXX Lead Senior Smokejumper</b>	STLD, TFLD	Senior Rigger, FOBS

<b>Smokejumper</b>	ICT4, CRWB, FIRB	FEMO
<b>Rookie Smokejumper</b>	ICT5, <del>XXX FFT1</del>	

1

2 **BLM SMKJ Jump Proficiency Guideline**

3 To ensure proficiency and safety, it is the goal of BLM smokejumpers to  
4 perform a training or operational jump every 14 days. A longer duration time  
5 period between jumps can occur due to fire assignments or other duties.

6 Guidelines for managing gaps between jumps beyond 14 days are included in  
7 the BLM Ram-Air Training Manual. Funding for currency and/or training  
8 jumps are included in the home unit's normal preparedness budgets. Units  
9 hosting contingents or spike bases will not be charged for any proficiency jump  
10 or related activities.

11

12 **BLM Smokejumper Physical Fitness Standards**

13 The national smokejumper physical fitness standards are mandatory. All BLM  
14 smokejumpers must pass the national smokejumper physical fitness standards in  
15 order to participate in smokejumper parachute training.

16

17 The BLM smokejumper physical fitness target standards are voluntary. The  
18 target standards are established to provide BLM smokejumpers a common  
19 standard against which to gauge their physical fitness level. BLM  
20 smokejumpers are encouraged to meet or exceed these standards.

21

<b>National SMKJ Standard</b>	<b>BLM SMKJ Target Standard</b>
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

22 \*This element is tested during Smokejumper Rookie Training.

23

24

25

1 Retesting

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

4  
5 Retesting criteria include:

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

16  
17 **BLM Exclusive Use Helitack Crews**

18  
19 The BLM contracts for the exclusive use of vendor supplied and supported  
20 helicopters. These aviation resources are Type 2 (Medium) or Type 3 (light)  
21 helicopters and are located at BLM Districts throughout the western United  
22 States. Helitack Crews are assigned to manage each contracted helicopter and  
23 perform suppression and support operations to accomplish fire and resource  
24 management objectives.

25  
26 Each contract specifies a Mandatory Availability Period (MAP) that the aircraft  
27 will be assigned for the exclusive use of the BLM. The National Aviation  
28 Office provides the funding to pay for the aircraft's availability costs.

29  
30 The BLM host unit is responsible for providing a Helitack Crew that meets the  
31 minimum experience and qualification requirements specified in the Exclusive  
32 Use Fire Helicopter Position Prerequisites in Chapter 16 of this document. Each  
33 functional or supervisory level must have met the experience and qualification  
34 requirements of the next lower functional level. The minimum daily staffing  
35 level (7 day staffing) must meet the level indicated in the *Interagency Helicopter*  
36 *Operations Guide (IHOG)* Chapter 2, ~~XXX-Chart 2-4~~ (BLM helicopters  
37 operated in Alaska need only be staffed with a qualified Helicopter Manager).

38  
39 The host unit is also responsible for providing administrative support, and  
40 *Interagency Helicopter Operations Guide (IHOG)* specified equipment,  
41 vehicles, and facilities for their Helitack Crews and any other associated  
42 specialized equipment.

43  
44  
45  
46

1 **XXX BLM Exclusive Use Helicopter Locations**

State	Location	NWCG Type
AK	Fairbanks	2 (4 ea.), 3 (2 ea.)
AZ	Wickenburg	3 (shared with MT)
CA	Apple Valley	2
	Ravendale	3
CO	Rifle	3
ID	Boise	3
	Twin Falls	3
MT	Lewistown	3 (shared with AZ)
	Miles City	3
NV	Elko	3
	Ely	3
	Las Vegas	3
OR	Burns	3
	Lakeview	2
	Vale	3
UT	Moab	3
	Salt Lake City	3
	St. George	3
WY	Rawlins	3

2

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

4  
5 The following chart indicates **target** IQCS qualifications for BLM exclusive use  
6 helitack crews. These targets are NOT required, but provide direction for  
7 increased program capabilities. This chart does not replace the minimum  
8 requirements specified in chapter 16.

9

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	ICT5, HMGB(T)	S-372, L-280

Member		
Helicopter Crew Member	FFT1, HECM	S-131, S-133

1

## 2 **Management Actions for Noncompliant Remote Automatic Weather** 3 **Stations (RAWS)**

4

5 Fire managers must be cognizant that all RAWS will not be 100% compliant  
6 with standards established in the *Interagency Wildland Fire Weather Station*  
7 *Standards & Guidelines* (NWCG PMS 426-3) at all times. Furthermore, even  
8 when RAWS are fully compliant and operational, RAWS data should be used  
9 only in conjunction with other predictive services and fireline data sources in  
10 fire management decision making, particularly at the tactical level.

11

12 Fire managers must monitor RAWS status and recognize when a station is  
13 noncompliant. Noncompliant stations are broadly categorized as follows:

- 14 • Inoperative station. This station is noncompliant but poses no danger of  
15 providing inaccurate weather data because it is not transmitting data.
- 16 • Operating station that has exceeded the required maintenance cycle. These  
17 stations are identified in the weekly “Wildland Fire Management  
18 Information (WFMI) weather Noncompliance Report”, which is widely  
19 distributed by email and available at <http://raws.fam.nwcg.gov/nfdrs.html>.  
20 Although transmitted data may be accurate, noncompliance means the data  
21 should not be trusted.
- 22 • Operating station that transmits data outside of NWCG PMS 426-3  
23 standards due to faulty sensors or components. These stations are most  
24 easily identified by local users who are familiar with environmental trends  
25 and conditions and can recognize data that seems abnormal or clearly  
26 unrepresentative of current conditions. This usually indicates faulty sensors  
27 or components.

28

29 When noncompliant RAWS are identified or suspected, fire managers should  
30 implement the following hazard mitigation actions to expedite RAWS repair and  
31 to reduce risk to fire personnel:

- 32 • Contact the RAWS Help Desk (208-387-5475 or [rawshelp@blm.gov](mailto:rawshelp@blm.gov)).  
33 Identify the station and discuss troubleshooting steps or schedule the  
34 necessary repairs. If there are trained personnel in the local area, the Help  
35 Desk may be able to ship the required parts and coordinate the repairs via  
36 phone. If a professional technician needs to make a site visit, provide a  
37 local individual to assist, and use this opportunity to provide training for  
38 local personnel.
- 39 • Ensure that appropriate personnel and organizations know which stations  
40 are out of compliance, and which sensors are affected, if possible. Direct  
41 them to alternative weather data sources if possible.
- 42 • Use nearby compliant RAWS if available.

- 1 • Based on local knowledge of specific RAWS problems (e.g. which sensor is  
2 out of compliance), separate reliable data from unreliable data.
- 3 • Consider using data from belt weather kit readings, other portable device  
4 observations, Predictive Services or National Weather Service offices, or  
5 non-fire weather sources such as airports.
- 6
- 7 Fire managers should ensure that locally held portable RAWS are compliant  
8 prior to use; noncompliant portable RAWS will not be activated for data  
9 processing via WFMI-weather.

10

## 11 **Sage Grouse Conservation Related to Wildland Fire and Fuels** 12 **Management**

13

14 XXX BLM is currently taking unprecedented steps to ensure conservation of the  
15 Gunnison Sage Grouse and Greater Sage Grouse on public lands. Fire and fuels  
16 management functions will contribute to these conservation efforts through  
17 planning, utilization of sage grouse maps and data, and applying best  
18 management practices. While protecting sage grouse habitats and populations is  
19 critical, firefighter and public safety remain our highest priorities.

20

### 21 **Wildland Fire Operations**

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

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

33

### 34 **Fuels Management**

35 The fuels treatment planning process will use objectives from land use and fire  
36 management plans as a framework for project design, treatment location, and  
37 documentation. Fire program managers will emphasize sage grouse  
38 conservation by utilizing local toolboxes, annual national Instruction  
39 Memoranda and applying state and national level best management practices  
40 which identify, enhance, and conserve sage grouse habitats. States may elect to  
41 issue detailed criteria regarding patch sizes, cover requirements, or other habitat  
42 parameters in fuels project design.

43

1 Fire and fuels management best management practices for sage grouse  
2 conservation can be located at the BLM Fire Planning and Fuels Management  
3 website at: <http://web.blm.gov/internal/fire/fpfm/sg/index.html>  
4

5 XXX Firefighter and public safety has been, and continues to be, the BLM's  
6 highest fire management priority. Protecting, conserving, and restoring sage-  
7 grouse habitat is BLM fire management's highest natural resource objective.  
8

9 The BLM's management responsibilities include taking actions on public lands  
10 to control and manage wildfire and invasive plants in order to protect, conserve,  
11 and restore sage-grouse habitat. The BLM's goal is to limit acres burned and  
12 damaged within and adjacent to sage-grouse habitat. The BLM will meet this  
13 goal through the certain management actions, including those involving  
14 renewable resource authorizations, fuels management, fire operations, and  
15 emergency stabilization prioritization. The BLM will place a high priority on  
16 treatments that will aid fire suppression and reduce fire threats within and  
17 adjacent to sage-grouse habitat. The following provides guidance to convey  
18 leader's intent while recognizing that not all of these actions and activities apply  
19 to all affected offices and successful implementation may look different  
20 throughout the BLM.  
21

22 Prior to, during, and following wildland fires, BLM field offices will:

- 23 ● Protect, conserve, and restore sage-grouse habitat.
- 24 ● Strive to maintain and enhance resilience of sage-grouse habitat.
- 25 ● Foster existing relationships with partners and develop new cooperative  
26 relationships that will help bolster BLM capacity to protect sage grouse  
27 habitat.  
28

29 With regard to fire operations in sage grouse habitat, BLM field offices will:

- 30 ● Prioritize firefighter and public safety including following our "Standard  
31 Firefighting Orders", mitigate any "Watch-Out Situations", and apply the  
32 principles of Lookouts, Communications, Escape Routes, and Safety Zones  
33 on all fire assignments.
- 34 ● Maintain a strong and proactive preparedness capability when conditions  
35 indicate potential for multiple ignitions and large fire growth.
- 36 ● Maintain situational awareness during suppression resource drawdown  
37 levels under multiple ignition and large fire growth conditions.
- 38 ● Boost suppression capability in critical sage grouse habitat when severe fire  
39 weather conditions are predicted.
- 40 ● Generate interest in local residents and public land users becoming a trained  
41 and equipped fire response force to work in concert with existing partners.
- 42 ● Expand the use of Rangeland Fire Protection Association (RFPA) or  
43 Volunteer Fire Department (VFD) suppression resources.
- 44 ● Continue and expand efforts to train and use local, non-federal agency  
45 individuals as liaisons in wildland fire detection and suppression operations.

- 1 XXX With regard to Renewable Resources Programs, Fuels, Healthy Lands  
2 Initiative (HLI), and Emergency Stabilization & Rehabilitation (ES&R), BLM  
3 field offices will:
- 4 ● Consider establishing fuel breaks, such as mowing, tilling, green-stripping,  
5 and planting of fire resistant plant species in strategic locations to help  
6 protect areas with sagebrush cover.
  - 7 ● Coordinate with State/County/Municipal highway and road departments on  
8 road right-of-way maintenance programs to reduce fuel loads and the size  
9 and spread of wildfire.
  - 10 ● Coordinate with partners including state, federal and private landowners to  
11 design and implement fuels treatments that will minimize fire growth and  
12 size.
  - 13 ● Consider reducing the cover of pinyon pine and juniper where it is  
14 encroaching on sage-grouse habitat.
  - 15 ● Apply Integrated Vegetation Management (IVM) practices in addressing  
16 invasive and non-native species, including cheatgrass treatments and  
17 sagebrush management.
  - 18 ● Increase sagebrush, perennial grass and forb cover.
  - 19 ● Protect soil from erosion following disturbance through planting and  
20 seeding efforts.
    - 21 ○ Strive to retain residual and functional post-fire plant species including  
22 early seral native perennial grasses.
    - 23 ○ Favor fire-resistant native or non-native plant species when necessary  
24 as a first step toward habitat recovery.
    - 25 ○ Use locally adapted native seed where available and probability of  
26 success and funding allow.
    - 27 ○ Consider using minimum till drills and multiple seed boxes, where  
28 practical and available, to increase seeding success.
  - 29 ● Coordinate funding and planning within fuels, ESR, and renewable  
30 resources programs to plan and implement treatments that meet landscape  
31 objectives. This may include side-by-side treatments, and utilizing partner  
32 funds to cover additions to ESR seed mixes that will conserve and restore  
33 sage-grouse habitat.
- 34
- 35 XXX The Fire Planning and Fuels Management Division (FA-600) hosts the  
36 webpage containing updated maps, instruction memoranda, conservation  
37 measures, best management practices, and spatial data pertaining to sage-grouse  
38 for the fire and fuels management functions. These resources can be accessed  
39 at: <http://web.blm.gov/internal/fire/fpfm/sg/index.html>. Using locally-developed  
40 data to supplement these resources is encouraged.

#### 42 **BLM Use of WFDSS**

43  
44 In addition to WFDSS guidance in Chapter 11, the BLM has established the  
45 following additional policy requirements for the WFDSS:

- 1 • XXX Input of Publishing decisions for initial attack fires XXX into the in  
2 WFDSS is optional. All fires which escape initial attack or are being  
3 managed for multiple objectives will XXX be input into the WFDSS and  
4 require a published decision XXX will be published.
- 5 • Use of the web-based WFDSS application is required. If internet  
6 connections or servers are unavailable, WFDSS documentation will be  
7 completed using the “temporary WFDSS paper form” and entered into the  
8 web-based application as soon as it becomes available.
- 9 • Minimum WFDSS documentation requirements are available at the BLM  
10 Fire Operations Website.
- 11 • State and field units will ensure that WFDSS Strategic Objectives and  
12 Management Requirements reflect guidance contained in current Fire  
13 Management Plans and Land/Resource Management Plans.
- 14 • XXX The spatial planning process in WFDSS will not be utilized by the  
15 BLM. Offices may experiment with Spatial Fire Planning (SFP) in the  
16 training environment, but will not utilize SFP in the production environment  
17 of WFDSS. BLM units may use the Spatial Fire Planning process in  
18 WFDSS if criteria in Instruction Memorandum No. FA IM-2014-010 are  
19 met.
- 20 • BLM Agency Administrators must meet fire training requirements for  
21 Agency Administrators, as specified in in this chapter.
- 22 • BLM Agency Administrators will maintain WFDSS user profiles, allowing  
23 them to approve wildfire decisions documented in WFDSS.
- 24 • BLM approvers of wildfire decisions documented in WFDSS are displayed  
25 in the Department of the Interior (DOI) WFDSS Approval Requirements  
26 Table in Chapter 11 of this document.
- 27 • Wildfire decisions, documented in WFDSS and approved by BLM Agency  
28 Administrators, constitute awareness of XXX estimated fire costs to date  
29 estimated costs of all the courses of actions (i.e. estimated final fire costs).  
30 This cost, shown in the WFDSS Course of Action, will be developed from  
31 sources such as I-Suite, ICS-209 summaries, finance units within incident  
32 management teams, estimation spreadsheets, or other sources.
- 33 • To facilitate effective wildfire management, *MS-1203* has been amended to  
34 delegate authority to local managers to approve all wildfire decisions  
35 regardless of cost thresholds. BLM District/Field Managers will approve  
36 wildfire decisions for fires which:
  - 37 ○ Escape initial attack;
  - 38 ○ Are managed for multiple objectives; or
  - 39 ○ Exhibit high complexity due to one or more of the following: values at  
40 risk, potential for growth, potential duration, or other factors requiring  
41 Agency Administrator awareness.
- 42 • The BLM DM/FM is responsible for approval of wildfire decisions on  
43 BLM-managed lands in Alaska.

- 1 • To ensure awareness of suppression expenditures at all levels, local agency  
2 administrators will provide written notification to state directors or the  
3 bureau director as cost thresholds (Chapter 11) are approached or reached.
- 4 • As approvers of WFDSS decisions, Agency Administrators will ensure that  
5 periodic assessments are completed until the fire is declared out.  
6
- 7 **Wildfire Decision Approval Process in Alaska for Non-BLM Lands:**
- 8 • In Department Manual 620 Chapter 2, BLM is delegated the responsibility  
9 to provide cost-effective wildland fire suppression services on DOI-  
10 managed and Alaska Native lands. In this direction, BLM-Alaska Fire  
11 Service (AFS) participates in the wildfire decision approval process for fires  
12 on those lands.
- 13 • **XXX For fiscal purposes,** The AFS Manager and AFS Fire Management  
14 Officers serve as agency administrators for approving wildfire decisions  
15 documented in WFDSS. **XXX Jurisdictional agencies are still responsible**  
16 **for identifying strategic objectives, management requirements, and**  
17 **management constraints.**
- 18 ○ In addition to the Jurisdictional Agency Administrator, AFS Fire  
19 Management Officers serve as agency administrators for fires less than  
20 \$5 million.
- 21 ○ In addition to the Jurisdictional Agency Administrator, the AFS  
22 Manager serves as an agency administrator for fires \$5 million and  
23 greater.
- 24 ○ To ensure awareness of suppression expenditures at all levels, the AFS  
25 Manager will provide written notification to the state director or the  
26 bureau director as cost thresholds (Chapter 11) are approached or  
27 reached.

1 **Chapter 03**  
2 **National Park Service Program Organization & Responsibilities**

3  
4 **Introduction**

5  
6 This chapter summarizes specific requirements for NPS fire management  
7 programs. Fire managers should consult DO-18 Wildland Fire and RM-18  
8 Wildland Fire for full guidance and descriptions of requirements summarized in  
9 this chapter. If there is a discrepancy between guidance found in this document  
10 and DO or RM-18, information contained herein will be considered authoritative  
11 as updates occur on a more frequent cycle than either the DO or RM.

12  
13 **NPS Wildland Fire Operations Website**

14  
15 NPS Wildland Fire Operations maintains a website that hosts operational and  
16 informational documents. The website also contains information about the  
17 following programs: Wildland Fire Fleet and Facilities; Fuels; Safety and  
18 Prevention; and Training, Qualifications and Workforce Development. The  
19 address of the NPS Wildland Fire Operations website is:  
20 <http://npsfamshare/wildlandfire/operations/default.aspx>

21  
22 **Agency Administrator Roles**

23  
24 **Director**

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

29  
30 The Chief, Division of Fire and Aviation Management will meet the required  
31 elements outlined in the *Management Performance Requirements for Fire*  
32 *Operations*.

33  
34 **Regional Director**

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

37  
38 The Regional Director will meet the required elements outlined in the  
39 *Management Performance Requirements for Fire Operations* and ensure  
40 training is completed to support delegations to line managers and principal  
41 acting.

42  
43 **Park Superintendent**

44 The Park Superintendent is responsible to the Regional Director for the safe and  
45 efficient implementation of fire management activities within their unit,  
46 including cooperative activities with other agencies or landowners in accordance

- 1 with delegations of authorities. The Park Superintendent or principal acting will  
 2 meet the required elements outlined in the *Management Performance*  
 3 *Requirements for Fire Operations*.

4

5 **Agency Administrator Management Performance Requirements for Fire**  
 6 **Operations**

7

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
1. Take necessary and prudent actions to ensure firefighter and public safety.	X	X	X
2. Ensures sufficient qualified fire and non-fire personnel are available each year to support fire operations at a level commensurate with the local and national fire situation. Ensures that all training and certification of fire and non-fire personnel is completed as required to support fire operations at the local and national level.	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	X	X	X

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
personnel changes necessitate a revision and update. As appropriate, the DOA will specify multi-agency coordination (MAC) group authorities.			
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. Fire Management Plans do not automatically expire. They are considered valid until superseded by a new or revised approved plan. A comprehensive review of the FMP should be completed every 7 years (RM 18, Chapter 4). Copies of the parks 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. (Note the change to a seven year review instead of five year review.)			<b>X</b>
6. Reviews and approves wildfire preparedness and fuels management funding based on an accurate and defensible readiness analysis. Ensure use of fire funds is in compliance with Department and Agency policies.	<b>X</b>	<b>X</b>	<b>X</b>
7. Develop fire management standards and constraints that are in compliance with agency fire policies.		<b>X</b>	<b>X</b>
8. Ensure compliance with the collection, storing, and aggregation of Wildland Fire Program Core geospatial data ( <a href="http://share.nps.gov/firegis">http://share.nps.gov/firegis</a> ).			<b>X</b>
9. 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.	<b>X</b>	<b>X</b>	<b>X</b>

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
10. 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
11. 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
12. 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
13. Ensure an approved burn plan is followed for each prescribed fire project; <del>XXX including</del> technical review, <del>XXX and Go/No-Go</del> checklists Prescribed Fire Go/No-Go Checklist (PMS486), and Agency Administrator Ignition Authorization (PMS 485) are completed; follow-up monitoring and documentation to ensure management objectives are met.		X	X
14. Meet annually with major cooperators and review interagency agreements to ensure their continued effectiveness and efficiency (may be delegated).		X	X
15. 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
16. Provide management oversight by personally visiting wildland and prescribed fires each year.			X

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
17. Provide incident management objectives, written delegations of authority and Agency Administrator briefings to Incident Management Teams. See Chapter 11, Agency Administrator Responsibilities.			X
18. Monitor wildfire potential and provide oversight during periods of critical fire activity/situations.	X	X	X
19. Ensures that resource advisors are identified, trained, available, and appropriately assigned to wildland fire incidents. Refer to <i>Resource Advisors Guide for Wildland Fire</i> PMS 313, NFES 1831, Jan 2004.			X
20. Convene and participate in annual pre- and post-season fire meetings.	X	X	X
21. Attends the Fire Management Leadership Course (geographic or national) within two years of appointment to Superintendent. Ensures that personnel assigned oversight responsibilities for the fire program have completed the Fire Management Leadership course.		X	X
22. Ensure appropriate investigations are conducted for accidents (as defined in Chapter 18), entrapments, shelter deployments, and related events.	X	X	X
23. 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
24. Ensure the development of Published Decisions within WFDSS with local unit staff specialists for all fires that <b>XXX escape exceed initial attack or are being managed for multiple objectives, within the objectives and requirements contained in the Park's Fire Management Plan.</b>	X	X	X
25. 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
26. 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
27. 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
28. 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 **Park**

22 The Fire Management Officer (FMO) is responsible and accountable for  
23 providing leadership for fire and fire aviation management programs at the local

1 level. The FMO determines program requirements to implement land use  
 2 decisions through the Fire Management Plan (FMP) to meet land management  
 3 objectives. The FMO negotiates interagency agreements  
 4 (contracting/agreements officer must review and process agreement) and  
 5 represents the Agency Administrator on local interagency fire and fire aviation  
 6 groups.

7  
 8 The Superintendent annually shall provide and update the expectations of  
 9 wildland fire program leaders by means of two instruments. One is a limited  
 10 Delegation of Authority (DOA) that encompasses the scope of duties outlined  
 11 above. The other is an Inter-park Agreement for those cases where a Park  
 12 Group FMO (or designee) handles defined duties on behalf of another NPS unit  
 13 within the defined Park Group.

14  
 15 **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
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

PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
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 XXX prescribed fires declared wildfires converted prescribed fires.	X	X	X
13. Provide for and personally participate in periodic site visits to individual incidents and projects.	X	X	X
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

PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
17. Ensure the development of Published Decisions within WFDSS with local unit staff specialists for all fires that <del>XXX</del> <del>escape</del> exceed initial attack or are being managed for multiple objectives, within the objectives and requirements contained in the Park's Fire Management Plan <del>and within limitations contained within the Park's FMP.</del>		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
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

PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
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 ( <a href="http://share.nps.gov/firegis">http://share.nps.gov/firegis</a> ).		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
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

1

2 **Requirements for Fire Management Positions**

3

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

03-10

Release Date: January 2015

1  
 2 All NPS employees assigned to wildland fire management incidents will meet  
 3 the training and qualification standards set by the National Wildfire  
 4 Coordinating Group.  
 5  
 6 Refer to Chapter 13 of the *Interagency Standards for Fire and Fire Aviation*  
 7 *Operations* for specific requirements.  
 8  
 9 All wildland fires will be managed by an individual qualified and certified at the  
 10 command level appropriate to the complexity level of the incident.  
 11  
 12 The qualification standards identified in the *Interagency Fire Program*  
 13 *Management Qualifications Standards* will be required, in conjunction with  
 14 specific agency requirements, when filling vacant fire program positions and as  
 15 an aid in developing Individual Development Plans (IDPs) for employees.

16  
 17 **Training**

18  
 19 **Training for Park Superintendents**

20 The following training is required for park superintendents.  
 21 • Fire Management Leadership (geographic or national)  
 22 The training should be completed within two years of appointment to a  
 23 designated management position to ensure that personnel who have oversight  
 24 responsibilities for the fire program have completed the Fire Management  
 25 Leadership course.

26  
 27 **Training for Fire Management Officers**

28 The following training is required for fire management officers.  
 29 • Fire Program Management (M-581).  
 30 • ~~XXX-M-3 Aviation Management for Supervisors (every 3 years).~~

31  
 32 **XXX NPS Firefighters General Training Requirements**

33

	One-Time Training	Recurring Training	Annual Training
All Firefighters	Hazardous Materials First Responder Operations Awareness Level XXX (24 hr course) Aviation B3: Helicopter/Air	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)* XXX Hazardous Materials First Responder Operations

	plane Safety classroom		Level refresher (8 hrs total)** HazWOPER Refresher (on-line)  Blood borne Pathogen (on-line)
--	------------------------	--	--

1 \*Training is not required for AD positions.  
 2 \*\*For more information on refresher see  
 3 <http://inside.nps.gov/waso/custommenu.cfm?lv=2&prg=62&id=6954>  
 4

5 **XXX Training for Fire Management Officers**

6 The following training is required for fire management officers.

- 7 • Fire Program Management (M-581).

8  
 9 **NPS Firefighters General Training Requirements**

Employment Category	Required Training	Initial Requirement/ Frequency	Completion Tracking Method	Reference
Agency Permanent, Career Seasonal and Temporary Firefighters	First Aid/ Cardiopulmonary Resuscitation (CPR)	<ul style="list-style-type: none"> <li>• Upon initial employment.</li> <li>• Every 3 years or per certifying authority</li> </ul>	<ul style="list-style-type: none"> <li>• Instructor-led</li> <li>• Unit Safety Manager</li> </ul>	RM-50B, Section 4
	HAZMAT - First Responder Awareness Level	<ul style="list-style-type: none"> <li>• Upon initial employment</li> <li>• Annually</li> <li>• Minimum of one hour online course initially and annually</li> </ul>	<ul style="list-style-type: none"> <li>• Instructor-led</li> <li>• Unit Safety Manager</li> <li>• DOI Learn</li> </ul>	<a href="https://www.osha.gov/Publications/OSHA-2254.pdf">https://www.osha.gov/Publications/OSHA-2254.pdf</a> Pg. 27
	Annual Fireline Safety Refresher (RT-130)	<ul style="list-style-type: none"> <li>• 8 hrs. minimum</li> <li>• Annually</li> </ul>	<ul style="list-style-type: none"> <li>• IQCS</li> </ul>	RM-18 Ch. 10
	Blood borne Pathogens	<ul style="list-style-type: none"> <li>• Annual for employees at increased risk due to assigned duties (i.e. IHC, helitack, WFM, engine crews)</li> <li>• Locally taught or DOI Learn</li> </ul>	<ul style="list-style-type: none"> <li>• Instructor</li> <li>• DOI Learn</li> </ul>	RM-51 Ch. 5

10  
 11

12 **Structural Fire and Hazardous Materials Response**

13  
 14 **Structural Fire Response Requirements (Including Vehicle, Trash, and Dumpster Fires)**

15  
 16 In order to protect the health and safety of National Park Service personnel, no  
 17 employee shall be directed, or dispatched (including self-dispatching) to the

1 suppression of structural fires, including vehicle fires, unless they are provided  
2 with the required personnel protective equipment, firefighting equipment and  
3 training. All employees must meet or exceed the standards and regulations  
4 identified in Director's Order and Reference Manual #58, Structural Fire.

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

### 16 ~~XXX Hazardous Materials Response Moved to Chapter 7~~

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

## 30 **Delegation of Authority**

### 31 **Delegation for Regional Fire Management Officers**

32 In order to effectively perform their duties, the RFMO must have certain  
33 authorities delegated from the Regional Director. The Delegation of Authority  
34 should include the following roles and responsibilities:

- 35 • Serves as the Regional Director's authorized representative on Geographic  
36 Area Coordination Groups, including MAC groups.
- 37 • Coordinate and establish priorities on uncommitted fire suppression  
38 resources during periods of shortages.
- 39 • Coordinate wildland fire planning, response, and evaluation region-wide.
- 40 • Relocate agency pre-suppression/suppression resources within the region  
41 based on fire potential/activity.
- 42 • Correct unsafe fire suppression activities.
- 43 • Direct accelerated, aggressive initial attack when appropriate.

44 **Release Date: January 2015**

03-13

- 1 • Develop and maintain agreements to provide for the management, fiscal and
- 2 operational functions of combined agency operated facilities.
- 3 • Suspend prescribed fire activities when warranted.
- 4 • Give authorization to hire Emergency Firefighters in accordance with the
- 5 DOI Pay Plan for Emergency Workers.
- 6 • Approve emergency fire severity funding expenditures not to exceed the
- 7 Regional annual authority.

8

### 9 **NPS Duty Officer (DO)**

10

11 All Fire Management Officers are responsible to provide DO coverage during  
12 any period of predicted incident activities. DO's responsibilities may be  
13 performed by any individual with a signed Delegation of Authority from the  
14 local Agency Administrator. XXX The Duty Officer may be in a location  
15 remote from the park, but will be familiar with local incident response  
16 procedures, agreements and resources. The required duties for all DOs are:

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

24

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

31

### 32 **Engine Operating Standards**

33

34 Current direction on the NPS Fire and Aviation vehicle program is at the NPS  
35 Fire Operations Sharepoint site:  
36 <http://npsfamshare/wildlandfire/operations/fleetandfacilities/default.aspx>

37

### 38 **Vehicle Color and Marking**

39 Vehicles dedicated to wildland fire activities shall be white in color and have a  
40 single four-inch wide red reflective stripe placed according to NFPA 1906  
41 (NFPA 1906 8.8.3, 2006 edition). The word "FIRE" red with white background  
42 color will be clearly visible on all four sides of the vehicle. The NPS  
43 Arrowhead will be placed on the front doors. The size and placement of the  
44 Arrowhead will be as specified in RM-9. An identifier will be placed on the

1 vehicle according to local zone or GACC directions. Roof numbers will be  
 2 placed according to local zone procedures.

3

4 **XXX Engine Staffing Standards**

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

7

Engine Type	Recommended Daily Staffing†	WCF Mandatory Staffing During Defined Season	Minimum 210 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 ***

8 † Recommended when status is available, but must at least meet minimum 410-  
 9 1 standards for off park assignments.

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

12 \*\* ENOP must also be qualified as ICT5

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

14

15 ENOP is an agency specific qualification. To add this position to an employee  
 16 in IQCS, use the NPS00-SetID.

17 NPS ENOP Prerequisites: FFT1, L 280, RT130, FITCAT, ENOP PTB

18 ENOP PTB can be found at: <http://www.nwec.gov/pms/taskbook/taskbook.htm>

19

20 **XXX Engine Module Standards**

21

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

24

Type	Minimum Personnel	ENGB	FFT2 (Minimum Qualification)
3	3	1	2
4	3	1	2

5	2	1	1
6	2	1	1
7	2*	**	1

- 1 • Engines with four or more personnel assigned will always have a qualified  
 2 engine operator (ENOP) in addition to an ENGB  
 3 • Additional personnel may be requested by the ordering unit and/or added by  
 4 the filling unit for mobilization  
 5 \* At least one of which if FFT1 and ICT5 qualified  
 6 \*\* An ENGB is required for mobilization

### 8 **Lights and Siren Response**

9  
 10 Responding to wildland fire incidents normally does not warrant the use of  
 11 emergency lights and siren on public roads by calling for or blocking the right-  
 12 of-way from other traffic in order to safely and effectively perform the NPS  
 13 mission. However, there may be rare and extenuating circumstances when  
 14 limited use of emergency lights and siren is appropriate and necessary due to an  
 15 immediate threat to life.

16  
 17 Those units that determine an emergency lights-and-siren response on public  
 18 roads is necessary to meet mission requirements must develop an operating plan  
 19 that ensures the following:

- 20 1. All vehicles (command, engines, etc.) will be properly marked, equipped,  
 21 and operated in accordance with state statutes, codes, permits and NPS  
 22 requirements.
- 23 2. Drivers will complete training in the proper use of lights and siren response  
 24 in accordance with National Fire Protection Association (NFPA)  
 25 1451 Standard for a Fire Service Operations Training Program and 1002  
 26 Standard for Fire Apparatus Operator/Driver Professional Qualifications, as  
 27 well as any state requirements.
- 28 3. Instructors of lights and siren training must have successfully completed  
 29 lights and siren training as part of a federal engine academy, and  
 30 Emergency Vehicle Operators Course (EVOC) and a facilitative instructor  
 31 course.
- 32 4. Drivers responding with emergency lights and sirens will be minimally  
 33 qualified as engine operator.
- 34 5. Lights and sirens will meet NFPA and state code requirements.
- 35 6. Posted speed limits will be followed at all times, regardless of response  
 36 type.
- 37 7. Drivers will stop at all controlled intersections (sign, light, traffic officer)  
 38 before proceeding; drivers will stop or reduce speed as circumstances  
 39 dictate prior to proceeding through any uncontrolled intersections.
- 40 8. Traffic light changing mechanisms (e.g., Opticons) will only be used under  
 41 formal written agreement with state and local governments. They will be

1 used only when they are necessary to create safe right-of-way through urban  
2 high-traffic areas. All pertinent state and local statutes and procedures will  
3 be adhered to.

#### 5 **Vehicle ~~XXX Maintenance, Repairs and XXX Replacement Maintenance~~**

7 ~~XXX Daily preventative maintenance checks, regular servicing, and prompt~~  
8 ~~repairs, and lifecycle replacement are critical to providing mission readiness,~~  
9 ~~performance, and safe operation.~~

#### 11 **Annual Safety Inspections, Scheduled Maintenance, and Daily Inspections**

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

20 The cost of all vehicle repairs and maintenance is the responsibility of the  
21 individual parks unless the damage is directly attributable to operations on a  
22 wildfire. In that case, with approval from the IC, the damages may be paid for  
23 under the fire's suppression account. ~~XXX Daily preventative maintenance~~  
24 ~~checks, regular servicing, and prompt repairs are critical to providing mission~~  
25 ~~readiness, performance, and safe operation. Annual required maintenance~~  
26 ~~servicing and monthly preventative maintenance checks will be conducted and~~  
27 ~~documented.~~

29 Wildland fire vehicles that are not operationally sound or have safety  
30 deficiencies must not be put into service. In addition, vehicles that suffer from  
31 mechanical or safety issues while enroute or on assignment must be taken out of  
32 service at the earliest opportunity in which it is safe to do so and must not be put  
33 back into service until corrective action can be completed.

#### 35 **Fixed Ownership Rates (FORs)**

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

#### 41 **Equipment Bulletins and Equipment Alerts**

43 The NPS mirrors the Bureau of Land Management (BLM) two-level Equipment  
44 Bulletin (EB) and Equipment Alert (EA) System. The purpose of the system is  
45 to share accurate and timely information regarding potential equipment  
46 problems and/or needed repairs. The EB is primarily intended to inform the

1 equipment users of recommendations for repairs, potential hazards, or general  
 2 information related to the overall maintenance, awareness, and safe operation of  
 3 fire equipment. The EA is time sensitive and addresses potentially serious  
 4 hazards or risks. The alert includes a specific action that the user must act upon.

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

#### 14 **XXX Annual Safety Inspections, Scheduled Maintenance, and Daily** 15 **Inspections**

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

#### 24 **NPS Firefighter Target Physical Fitness Standards**

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

	Age 18-29	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

30 The guide below may be used to adjust the 1.5 mile run times to compensate for  
 31 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

32  
 33

### 1 **National Fire Operations Fitness Challenge**

2 The national fire operations fitness challenge encourages and recognizes  
3 achievement in physical fitness by NPS firefighters. The fitness challenge  
4 provides a common system by which NPS firefighters can measure current  
5 fitness, establish fitness goals, and track fitness improvement. The fitness  
6 challenge is voluntary, but NPS 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 1.5 miles. Test results are compiled into a final  
9 overall score. Unit and Regional offices are encouraged to support and  
10 recognize achievement in firefighter fitness. Specific information on the fitness  
11 challenge is located at  
12 [www.blm.gov/nifc/st/en/prog/fire/fireops/fitness\\_challenge.html](http://www.blm.gov/nifc/st/en/prog/fire/fireops/fitness_challenge.html).

### 14 **Wildland Fire Uniform Standards**

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

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

- 26 • Within the context of the uniform standards, if the conventional NPS  
27 uniform is identified at the local level as required for specified fire  
28 management staff, fire program management funds may be used to support  
29 uniform purchases in accordance with allowance limits identified in DO-43.
- 30 • While Nomex outerwear (i.e. shirts, trousers, brush-coats) routinely issued  
31 as personal protective equipment has become recognized as the uniform of  
32 the wildland firefighter as a matter of necessity, these apparel also have  
33 justifiable utility as a uniform standard at the park level for certain fire  
34 and/or ONPS base-funded wildland fire staff.
- 35 • When the conventional NPS uniform or the full Nomex outerwear is not  
36 appropriate or justified, local management with park superintendent  
37 approval may establish a predetermined dress code for fire staff. The goals  
38 of the NPS uniform program can appropriately be applied (with common  
39 sense) to this departure from the norm.
- 40 • The DOI Boot Policy is referenced in Chapter 7.
- 41 • The fire management officer is responsible for establishing a reasonable  
42 allotment schedule for new or returning employees, commensurate with  
43 supplies provided in previous seasons. A suggested per person issuance is  
44 three to four tee shirts, one ball cap, and one sweatshirt (where appropriate).  
45 \$100 would normally be adequate to cover costs of this issuance.

46

1 Where appropriate and justified, fire funds may be applied to the purchase of  
2 100 percent cotton tee shirts, sweatshirts, and ball caps, with appropriate logo  
3 and color scheme, to augment the Nomex outerwear worn in conjunction with  
4 project or wildland fire management incidents. Nomex outerwear will usually  
5 be returned to the park's fire cache based on the tour of duty (end of season,  
6 transfer to another park, etc.).

7  
8 Just as with uniform allowance discussed in DO-43, the intent of fire-funded  
9 purchases is to defray the cost of the appropriate apparel, not necessarily to  
10 cover the cost of all items. This will not only be factored into the quantities  
11 deemed necessary for the individual, but would also preclude fire-funded  
12 purchases of fleece jackets, rain gear and other personal items generally  
13 considered the responsibility of those employees not covered by the NPS  
14 uniform program. Exceptions to this should be well-justified and documented.

#### 15 16 **Fire Management Credentials**

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

#### 30 31 **NPS Use of WFDSS**

- 32
- 33 1. The internet-based WFDSS will be the primary XXX decision support fire  
34 documentation platform for all NPS wildfires. XXX NFPORS will remain  
35 the documentation platform for all NPS prescribed fires.
  - 36 2. Minimum required documentation/data field entry for each fire will follow  
37 system standards XXX as described in Appendix N of the *Interagency*  
38 *Standards for Fire and Fire Aviation Operations*
  - 39 3. XXX Input of Publishing decisions for initial attack fires in WFDSS is  
40 optional. All fires which go into extended attack or are being managed for  
41 multiple objectives will XXX have a published decision in be input into the  
42 WFDSS and a decision will be published.
  - 43 4. XXX NPS Superintendents or other designated approving officials must  
44 meet fire training requirements as specified in in this chapter

- 1 5. NPS Superintendents or other designated approving officials will maintain  
2 WFDSS user profiles, allowing them to approve wildfire decisions in  
3 WFDSS.
- 4 6. Wildfire decisions, documented in WFDSS and approved by NPS Agency  
5 Administrators, constitute awareness of estimated fire costs for the duration  
6 of the fire. This cost, shown in the WFDSS Course of Action, will be  
7 developed from sources such as I-Suite, ICS-209 summaries, finance units  
8 within incident management teams, estimation spreadsheets, or other  
9 sources.
- 10 7. All incidents identified in WFDSS will accurately document the  
11 containment date, controlled, and out date by the end of the calendar year.
- 12 8. To ensure awareness of suppression expenditures at all levels, Park  
13 Superintendents will provide written notification to Regional Director or the  
14 Chief, Division of Fire and Aviation as cost thresholds (Chapter 11) are  
15 approached or reached.
- 16 9. As approvers of WFDSS decisions, NPS Superintendents or other  
17 designated approving officials will ensure that periodic assessments are  
18 completed until the fire is declared out.
- 19 10. Those fires burning on to NPS lands from another federal fire management  
20 agency (Forest Service, Bureau of Land Management, Bureau of Indian  
21 Affairs, or US Fish & Wildlife Service) should be entered by the originating  
22 agency, not the NPS.
- 23 11. Wildfires burning on to NPS lands from state and local lands will be entered  
24 into WFDSS by the receiving NPS unit, if they have not been entered by  
25 another federal agency or State, with the true Point of Origin and Discovery  
26 Date being entered. When these incidents are created in WFDSS, the  
27 Responsible Unit Name at Point of Origin will not be the NPS. However,  
28 the NPS will be selected as at least one of the Responsible Agency(s) in  
29 addition to Other.
- 30 12. Wildfires must be entered individually, not as complexes, into the WFDSS.  
31 This is independent of the operational or financial management of a group  
32 of fires as a complex, and regardless of them having a common course of  
33 action.
- 34 13. Applicable fire-related resource management objectives and management  
35 requirements from the NPS Management Policies, as well as from a park's  
36 General Management Plan, Resource Management/Stewardship Plan, and  
37 Fire Management Plan (FMP), will be migrated into the WFDSS. This  
38 information will reflect the management objectives for wildland fire as  
39 stated in the park's FMP and supporting NEPA documents.
- 40 14. Every wildland fire decision will consider the development of protection  
41 objectives which also provide for safety of firefighters and the public and  
42 minimize the loss of, and damage to, property, cultural and natural  
43 resources.
- 44 15. WFDSS does not replace ICS-209 and Situation Reporting Systems. Parks  
45 will continue to follow National, Geographic Area Coordination Center  
46 (GACC), and/or local guidance for fire reporting within these systems.

- 1 16. Refer to Chapter 11 of the *Interagency Standards for Fire and Fire Aviation*  
2 *Operations* for further guidance.

3

4 **National Park Service Specific Qualifications and Qualifications Exceptions**

5

- 6 Prescribed Fire Crewmember (RXCM): The National Park Service does not  
7 recognize the RXCM position. NPS personnel functioning on prescribed fires  
8 must meet qualification standards found in the NWCG PMS 310-1, *Wildland*  
9 *Fire Qualifications Guide*.

10

**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 within this document 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 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 **XXX at least every five years as needed**. The Assistant Director of the National Wildlife Refuge System has delegated the authority to approve the **XXX Service 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. The Regional Director ensures that Refuge Managers/Project Leaders, and or Field Supervisors 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 **XXX 90 days 45 days of the incident out date**.

1 **Regional Chief and Refuge Supervisors**

2 Regional Chiefs and Refuge Supervisors are delegated specific leadership  
 3 responsibilities by the Regional Director. They provide oversight and direction,  
 4 in coordination with, the Wildland Fire Management Program for the National  
 5 Wildlife Refuge System. These responsibilities occur through established lines  
 6 of authority as assigned by the Regional Director.

8 **Project Leader/Refuge Manager**

9 The Project Leader is responsible for the safe and efficient implementation of  
 10 fire management activities within their unit, including cooperative activities with  
 11 other agencies or landowners, in accordance with delegations of authorities.  
 12 The Project Leader, or principal acting, will meet required elements outlined in  
 13 the **XXX Project Leader/Refuge Manager Management Performance**  
 14 **Requirements XXX for Fire Operations.**

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

26 **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
3. <b>XXX Attends the Fire Management Leadership Course (geographic or national) within two years of appointment to Project Leader, unless there have been no wildland fires</b>	X	X	X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader/ Refuge Manager
recorded in the last 10 years within the complex. Ensures that personnel assigned oversight responsibilities for the fire program have completed the Fire Management Leadership course.				
4. Review critical operations and safety policies and procedures, including Interagency Fire Program Management, and <i>Interagency Standards for Fire and Fire Aviation Operations</i> “Red Book” Standards, with fire and fire aviation personnel.		X	X	X
<b>Program Management</b>				
5. 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	X
6. 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

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader/ Refuge Manager
7. Ensure units have a current safety plan, an active safety committee, and safety program that integrates the fire program.			X	X
8. Ensure investigations and reviews are conducted for incidents, accidents, escaped prescribed fires, and near misses as described in Chapter 18.	X	X	X	X
9. Annually update and review the <i>FWS Line of Duty Death Response Handbook</i> and the <i>Agency Administrator's Guide to Critical Incident Management</i>		X	X	X
10. Ensure timely follow-up to fire management program reviews.			X	X
11. Ensure master agreements with cooperators are valid and in compliance with agency policies, and Annual Operating Plans are current.		X	X	X
12. 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 <b>XXX FWS Service</b> <i>Fire Management Handbook</i> .		X	X	X
13. Ensure Wildland Fire Decision Support System (WFDSS) is used to publish timely decisions and to		X	X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader/ Refuge Manager
provide decision support documentation for all fires that escape initial attack or initial response.				
14. Convene and participate in annual fire meetings.			X	X
15. Participate as part of in-briefings and post fire closeouts on Type I and Type II fires.				X
16. Provide a written Delegation of Authority, WFDSS analysis, Agency Administrator Briefings to Incident Management Teams				X
17. XXX Ensure fire and fire aviation preparedness reviews are conducted annually in all unit offices.		X	X	X
18. 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
19. Personally visit at least one wildland fire each year as available.				X
20. Ensure appropriate management of Social/Political/Media resources and relationships affecting wildland fire.		X	X	X
21. Ensure appropriate risk management, administration, management and oversight of wildland incidents. Ensure Incident Business Analysts,				X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader/ Refuge Manager
XXX Strategic Operational Planners, Resource Advisors, and Agency Representative positions are utilized as needed.				
22. Provide oversight to Emergency Stabilization (ES) and Burned Area Rehabilitation (BAR) processes and procedures.				X
<i>Training / Certification</i>				
23. Ensure only trained, certified fire and non-fire personnel are available to support fire operations at the local, geographic and national levels.	X	X	X	X
24. XXX Ensure personnel delegated fire program responsibilities have completed required training.	X		X	X
<i>Prescribed Fire/Fuels Management</i>				
25. Ensure compliance with National and Regional policies for prescribed fire activities. Conduct periodic reviews of the prescribed fire program.		X	X	X
26. XXX Implement Interagency Prescribed Fire Planning and Implementation Guide.			X	X
27. XXX Ensure Prescribed Fire Plans are approved and meet agency policies.				X
28. Ensure all wildfires resulting from prescribed fire actions are reported to Regional Director within 24 hours of the wildfire declaration.			X	X
29. In the event of a declared		X	X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader/ Refuge Manager
wildfire from an escaped prescribed fire, conduct and submit Declared Wildfire Review to National Office <del>XXX with 30</del> within 45 days of wildfire out date.				
30. Ensure Prescribed Fire Plans have been reviewed and recommended by a qualified technical reviewer other than the plan author.				X
31. Review and approve the Agency Administrator Ignition Authorization.				X

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**Fire Management Staff Roles**

**National Office**

**Fire Director**

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

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

**Regional Office**

**Regional Fire Management Coordinator (RFMC)**

The Regional Fire Management Coordinator provides leadership, direction, coordination, training, planning, evaluation, and technical guidance for the region and is available to provide assistance for intra-agency and interagency

1 wildland fire management needs. The RFMC will meet qualification  
 2 requirements established by ~~XXX the service IFPM~~ for the position. The  
 3 RFMC, through written delegation by the Regional Director, is delegated  
 4 authority to represent the region on the GMAC. The RFMC is responsible for  
 5 implementing the decisions of the MAC Group as they affect U.S. Fish and  
 6 Wildlife Service areas. The decisions of the GMAC include the prioritizing of  
 7 incidents, Interagency Master/statewide agreements and the allocation or  
 8 reallocation of firefighting resources to meet wildland fire management  
 9 priorities.

10  
 11 ~~XXX MOVED TO 4-10 RFMCs will ensure IQCS accounts are established and~~  
 12 ~~training records maintained for Agency Administrators.~~

## 13 14 **Refuge**

### 15 16 **Zone Fire Management Officer (FMO)**

17 The Fire Management Officer (FMO) is responsible and accountable for  
 18 providing leadership for fire management programs at the local level. The FMO  
 19 determines program requirements to implement land use decisions through the  
 20 Fire Management Plan (FMP) to meet land management objectives. The FMO  
 21 negotiates interagency agreements and represents the Agency Administrator on  
 22 local interagency fire and fire aviation groups.

23 The FMO is responsible for coordinating with the refuge/unit Agency  
 24 Administrator to annually review and update (as required) the unit Fire  
 25 Management Plan to comply with agency policy. An FMO may be assigned to  
 26 provide wildland fire management support to a group of refuges (zone) when  
 27 individually each refuge does not warrant a fulltime FMO.

### 28 29 **Fire Management Staff Performance Requirements for Fire Operations**

PERFORMANCE REQUIRED	Fire Director	RFMC	Zone FMO
<i>Policy</i>			
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.		X	X
3. Provides the expertise and skills to fully integrate fire and fire aviation management into interdisciplinary planning efforts.	X	X	X

PERFORMANCE REQUIRED	Fire Director	RFMC	Zone FMO
4. Ensures compliance with work/rest guidelines during all fire and fire aviation activities.	X	X	X
5. Ensures fire and fire aviation policies are understood, implemented, and coordinated with other agencies as appropriate	X	X	X
<i>Program Management</i>			
6. Ensures completion of a Job Hazard Analysis (JHA)/Risk Assessment for fire and fire aviation activities to mitigate risk.		X	X
7. Develop, negotiate, and implement cost share, Service First, and reimbursable protection agreements with cooperators	X	X	X
8. Ensures that the fire and fire aviation management employees understand their role, responsibilities, authority, and accountability.	X	X	X
9. 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
10. <del>XXX Monitors fire season severity predictions, fire behavior, and fire activity levels. Takes action to ensure safe, efficient, and effective operations.</del>	<del>X</del>	<del>X</del>	<del>X</del>
11. Ensures that <del>XXX master</del> agreements with cooperators and operational plans (e.g., Annual Operating Plans, dispatch, preparedness, prevention) are valid and in compliance with agency policy.	X	X	X
12. Ensures use of fire funds is in compliance with department and agency policies.	X	X	X
13. Ensures that fire severity funding is requested, used, and documented in accordance with agency standards.	X	X	X
14. Ensures a process is established to communicate fire information to public, media, and cooperators.	X	X	X
15. Convenes and participates in annual fire meetings. Specifically address management controls and critical safety issues.	X	X	X

PERFORMANCE REQUIRED	Fire Director	RFMC	Zone FMO
16. Oversees pre-season preparedness review of fire and fire aviation program.	X	X	X
17. Initiates, conducts, and/or participates in fire program management reviews and investigations.	X	X	X
18. Personally participates in periodic site visits to individual incidents and projects.		X	X
19. Ensures that transfer of command occurs as per appendix D on incidents.		X	X
20. Ensure the proper level of management complexity is assigned to all incidents		X	X
21. Ensures that incoming personnel and crews are briefed prior to fire and fire aviation assignments.		X	X
22. Ensures a WFDSS analysis is completed, updated, approved, and <del>XXX-certified</del> published as necessary.		X	X
23. 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
24. Ensures unit is capable of wildfire cause determination.	X	X	X
25. Annually updates and reviews the FWS <i>Line of Duty Death Response Handbook</i> and the <i>Agency Administrator's Guide to Critical Incident Management</i> .	X	X	X
26. <del>XXX</del> 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	X
27. Uses current National, Geographic, and Local Mobilization Guides and ensures standards are followed.	X	X	X
28. <del>XXX</del> Ensures that reports and records are properly maintained according to FWS policies.		X	X

PERFORMANCE REQUIRED	Fire Director	RFMC	Zone FMO
29. 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), Safenet or Safecom as appropriate.		X	X
30. XXX Ensure unit has a current safety plan, an active safety committee, and safety program that integrates the fire program.		X	X
31. XXX Ensures that current emergency medical response plan is in place and accessible.		X	X
<i>Planning</i>			
32. 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). Annually review FMPs per Service policy.			X
33. Responsible for the coordination of RAWs maintenance, sensor calibration, and oversight of daily inputs.			X
<i>Training</i>			
34. XXX Ensures IQCS accounts are established and training records maintained for Agency Administrators.		X	
35. Organizes trains, equips, and directs a qualified work force. Ensures that only trained and qualified personnel are assigned to fire and fire aviation duties. Establishes and implements performance review process(es).		X	X
<i>Prescribed Fire and Fuels</i>			
36. Ensures compliance with Service and Regional policy for prescribed fire activities. Provides periodic reviews of the prescribed fire program.	X	X	X
37. Reports all wildfires resulting from prescribed fires to the Regional Fire Management Coordinator within 12 hours of the wildfire declaration.			X

**1 National Fire Leadership Team**

2

3 The National Fire Leadership Team (NFLT) is established under the guidance  
4 and support of the NWRS Leadership Team. The team is established to provide  
5 regional input on issues of National importance, to advise the Chief, Fire  
6 Management Branch (FMB), and provide leadership, coordination, and guidance  
7 in the development and implementation of a safe and effective fire management  
8 program within the Service. The team serves as a national clearing house,  
9 provides discussion of wildland fire management issues, and recommends  
10 actions to improve coordination and integration of regional fire management  
11 activities into national direction. The team will be responsible for the following:

- 12 ● Provide leadership, coordination, and guidance for the Service's fire  
13 management program.
- 14 ● Identify potential fire management issues, and recommend strategies that will  
15 enhance the Service's ability to safely and effectively manage fire on Service  
16 lands.
- 17 ● Develop and recommend common guidance and business rules as needed to  
18 manage fire management activities while recognizing individual regional  
19 needs.
- 20 ● Provide a forum for the exchange of ideas, best management practices, and  
21 lessons learned relating to Service fire management activities.
- 22 ● Provide a forum to discuss budget methodology applications that are  
23 consistent with appropriation language authority as well as providing for the  
24 collaboration and coordination within FWS and with our interagency  
25 partners.
- 26 ● Form task groups, working teams, or other collections of subject matter  
27 experts as needed to deal with specific tasks or long-term issues. These  
28 groups or teams will each have a Leader who usually works in the subject  
29 matter area with members assigned who may have the subject area as a  
30 collateral duty. They will have representation from across the Service, and  
31 will provide guidance or operational recommendations to the NFLT.

32

**33 Delegation of Authority**

34

**35 Regional Fire Management Coordinator**

36 In order to effectively perform their duties, a RFMC must have certain  
37 authorities delegated from the Regional Director. This delegation is normally  
38 placed in the regional office supplement to agency manuals. This Delegation of  
39 Authority should include:

- 40 ● Serve as the Regional Director's authorized representative on geographic  
41 area coordination groups, including MAC groups.
- 42 ● Coordinate and establish priorities on uncommitted fire suppression  
43 resources during periods of shortages.
- 44 ● Coordinate logistics and suppression operations regional-wide.

- 1 • Relocate agency pre-suppression/suppression resources within the region
- 2 based on relative fire potential/activity.
- 3 • Correct unsafe fire suppression activities.
- 4 • Direct accelerated, aggressive initial attack when appropriate.
- 5 • Enter into agreements to provide for the management, fiscal, and
- 6 operational functions of combined agency operated facilities.
- 7 • Suspend prescribed fire activities when warranted.
- 8 • Give authorization to hire Emergency Firefighters in accordance with the
- 9 DOI Pay Plan for Emergency Workers.
- 10 • Approve emergency fire severity funding expenditures not to exceed the
- 11 agency's annual authority.

12

### 13 **Zone Fire Management Officer**

14 In order to effectively perform their duties, the FMO may receive a Delegation  
15 of Authority (DOA) outlining the operational and administrative fire  
16 management duties. All Unit Agency Administrators within a Zone should  
17 consider signing a single Zone Fire Management delegation. A sample  
18 "Delegation of Authority" can be found on the FWS Fire Operations Policy and  
19 Guidance SharePoint site.

20

### 21 **Inter-refuge Agreements**

22

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

28

### 29 **Fire Duty Officer**

30

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

- 35 • Monitor unit incident activities for compliance with FWS safety policies.
- 36 • Coordinate and set priorities for unit preparedness activities, incident
- 37 response and resource allocation.
- 38 • Keep Agency Administrators and resources informed of the current and
- 39 expected situation.
- 40 • Plan for and implement actions required for future needs.
- 41 • Document decisions and actions.
- 42 • It is recommended FDOs not fill ICS functions.

43

44

45

**1 Fire Severity Funding**

2  
3 Service specific fire severity funding guidance can be found in Chapter 10 of the  
4 **XXX FWS Service** Fire Management Handbook, and the Fire Business  
5 Handbook, Severity Subactivity.  
6

**7 Daily Fire Report**

8  
9 During the “National Fire Season” as identified by the National Interagency  
10 Coordination Center in Boise, ID (NICC), each field unit within the Refuge  
11 System will report all wildland fire occurrence and fire status daily to their local  
12 dispatch office and Regional Office. Additionally, each Region will establish  
13 procedures to gather fire information and coordinate with their respective  
14 geographic area coordination centers as necessary. Field units will report the  
15 status of large fires separately on form ICS-209 **XXX (refer to chapter 11 for**  
16 **ICS-209 requirements)** to the local dispatch centers with copies furnished to the  
17 RFMCs. Include weekend fire activity on Monday’s report unless there is  
18 significant fire activity.  
19

**20 Individual Fire Report**

21  
22 An Individual Fire Report must be completed in the Fire Management  
23 Information System (FMIS) for the following types of fires within 15 days after  
24 the fire is declared out:

- 25 • All wildland fires on Service lands;
  - 26 • Support Actions;
  - 27 • Fires suppressed on other lands under an agreement;
  - 28 • All false alarms; and
  - 29 • Natural Outs (by natural out definition).
- 30

31 **XXX Detailed information about a support action is only required from an initial**  
32 **entry into FMIS to establish a work breakdown structure (WBS). Once the**  
33 **WBS has been established, users are not required to establish additional fire**  
34 **reporting information for the same fire.**  
35

36 Reports are required regardless of who takes action, e.g., force account,  
37 cooperator, or contractor. When actions are taken on a cooperative fire, the  
38 agency having jurisdiction over the land on which the wildfire occurs will file a  
39 complete report and prepare a limited version to record and bill for assistance  
40 when necessary.  
41

**42 Fish and Wildlife Service Use of Wildland Fire Decision Support System**

43  
44 FWS follows interagency policy regarding use of WFDSS. Standards for when  
45 WFDSS will be used are found in Chapter 11 of the *Interagency Standards for*  
46 *Fire and Fire Aviation Operations*.

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

#### 4 **Final Wildland Fire Record**

5  
6 The final wildland fire project record may include the following:

- 7 • FMIS data entry
- 8 • Narrative
- 9 • WFDSS
- 10 • Incident Action Plan(s)
- 11 • Daily weather forecasts and spot weather forecasts    Cumulative fire map  
12    showing acreage increase by day
- 13 • Total cost summary
- 14 • Monitoring data (Wildland Fire Observation Records)
- 15 • Critique of fire projections on Incident Action Plan

#### 17 **Physical Fitness and Conditioning**

18  
19 Employees serving in wildland fire positions that require a fitness rating of  
20 arduous as a condition of employment are authorized one hour of duty time each  
21 work day for physical fitness conditioning. Employees not having a fitness  
22 rating of arduous as a condition of employment, but who are required by a  
23 Critical Performance element or other written agreement to maintain an arduous  
24 level, will be authorized three hours per week of duty time for physical fitness  
25 condition. All other wildland firefighting personnel holding qualifications  
26 requiring ratings of moderate or arduous may be authorized, by their supervisor,  
27 up to three hours per week of duty time for fitness conditioning. Prior to any  
28 duty time being allowed for physical fitness conditioning, employees and  
29 supervisors must agree, in writing, what physical conditioning activities the  
30 employee will engage in, and when and where they will occur. Activities  
31 outside of the agreement will not be authorized or allowed. A combination of  
32 activities designed to increase both physical strength and aerobic fitness, while  
33 minimizing the possibility of physical injury, should be utilized.

#### 34 **Training**

##### 36 **Agency Administrator Training**

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

- 41 • Refuge Managers/Project Leaders with Service lands under their jurisdiction  
42    which require the development and maintenance of a Fire Management Plan  
43    must attend either the National Advanced Fire and Resource Institute  
44    (NAFRI) or a locally sponsored Fire Management Leadership course, or  
45    may, upon concurrence of the RFMC, attend the Agency Administrator

- 1 Workshop for Prescribed Fire course which is hosted by the National  
2 Interagency Prescribed Fire Training Center (PFTC).
- 3 • Field supervisors who may approve prescribed fire plans must attend the  
4 NAFRI sponsored Fire Management Leadership Course (NFML) or upon  
5 concurrence of the RFMC, must attend either the Agency Administrator  
6 Workshop at PFTC or a Local Fire Management Leadership course (LFML).
  - 7 • Regional Chiefs, Regional Refuge Supervisors, and Refuge  
8 Managers/Project Leaders must complete periodic refresher training as  
9 determined by their supervisor in consultation with the RFMC. Refresher  
10 training options may include attending fire management training/workshops,  
11 trainee experiences, or mentoring.
  - 12 • Guidance for use of the agency qualification for Agency Administrators  
13 (AADM) can be found in the **XXX FWS Service** Fire Management  
14 Handbook.

#### 16 Fire Management Officer Training

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

#### 22 FWS Firefighter General Training Requirements

	One-Time Training	Annual Training	Recurring Training
Agency permanent, career seasonal, & temporary firefighters	Hazardous Materials-First Responder Awareness Level	<b>XXX Blood Borne Pathogens (online -DOI Learn)</b>	First Aid /CPR (every 2 years)
	<b>XXX B3: Combination Helicopter/Airplane Safety A-100 Basic Aviation Safety (Classroom/Online)</b>	RT-130 Annual Fireline Safety Training	<b>XXX B3: Combination Helicopter/Airplane Safety Refresher A-100 Basic Aviation Safety (every 3 years)</b>
	Hazardous Materials (see 242 FW 6 Table 6-4)	Hazardous Materials (see 242 FW 6 Table 6-4)	Defensive Driving (every 3 years)
AD & EFF	<b>Required Training</b>		
	First Aid/CPR	Defensive driving (if operating GOV)	

23

#### 24 Fish and Wildlife Service Specific Qualifications

25 Guidance regarding agency-specific qualifications that are not contained in the  
26 PMS 310-1 can be found in the *Federal Qualifications Supplement* **XXX to the**

04-16

Release Date: January 2015

- 1 ~~PMS 310-1~~. For qualifications with agency standards which exceed minimums
- 2 established in the PMS 310-1, refer to the ~~XXX FWS Service~~ Fire Management
- 3 Handbook.
- 4

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 are 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 vision of the Forest Service's Fire and Aviation Management program is to  
18 safely and effectively extinguish fire, when needed; use fire where allowable;  
19 manage our natural resources; and as a Nation, live with wildland fire. To  
20 support this vision, five objectives set the foundation for an all-inclusive and  
21 comprehensive High Reliability Fire Management program. These objectives  
22 are intrinsic for supporting the vision.

- 23 ● Risk Management and Risk Reduction- transforming our workforce into a  
24 more refined safety culture.
- 25 ● Implementing fire management programs to protect the ecology of Forest  
26 Service lands for multiple uses.
- 27 ● Enhanced and Improved Collaboration and Partnerships.
- 28 ● Learning- utilizing science, research, and innovative practices.
- 29 ● Empowerment of employees in leadership, judgment, and decision making.

30  
31 Doctrine is beliefs and teachings which form the fundamental core values of our  
32 work. Doctrinal approach goes beyond strict compliance with procedural rules,  
33 and promotes risk-based application of wildland fire management principles to  
34 improve decision making and firefighter safety. Foundational doctrine has been  
35 codified in Forest Service Manual 5100 direction and will guide fundamental  
36 wildland fire management policy, practices, behaviors, and customs to be  
37 mutually understood at every level of command.

38  
39 The following collection of principles and beliefs form the foundational doctrine  
40 for fire suppression in the U.S. Forest Service. These principles and beliefs  
41 operate at multiple organizational levels, including:

- 42 ● Forest Service Wide (i.e., apply to all employees and activities)
- 43 ● Fire and Aviation Management (i.e., are specific to the fire and aviation  
44 management program)
- 45 ● Fire Suppression (i.e., are specific to fire fighting activities).

1 **The Operational Environment**

- 2 • *Fire Suppression*  
3 1. No resource or facility is worth the loss of human life, however the  
4 wildland fire suppression environment is complex and possesses inherent  
5 hazards that can, even with reasonable mitigation, result in harm to fire  
6 fighters engaged in fire suppression operations. In recognition of this fact,  
7 we are committed to the aggressive management of risk.  
8

9 **Mission**

- 10 • *Forest Service Wide*  
11 2. The Forest Service is prepared and organized to support national and  
12 international emergencies with trained personnel and other assets when  
13 requested.  
14 3. Agency employees respond when they come across situations where  
15 human life is immediately at risk or there is a clear emergency, and they are  
16 capable of assisting without undue risk to themselves or others.  
17 4. In responding to emergencies, we will bring the same professionalism  
18 and passion for safety as we do to non-emergency situations.  
19 5. Support for local fire emergencies takes priority over accomplishment of  
20 local resource targets. Support of non-local fire emergencies will be at the  
21 discretion of the local line officer, as bounded by agency agreements and  
22 Regional or National direction.  
23 6. A cooperative relationship between the Forest Service and other agencies  
24 is essential. The Forest Service is committed to honor its part of the joint  
25 responsibility to develop and maintain effective working relationships with  
26 its intergovernmental cooperators.  
27 • *Fire & Aviation Management*  
28 7. Fire management is central to meeting the Forest Service mission –  
29 conserving natural resources, restoring ecological health, and protecting  
30 communities.  
31 • *Fire Suppression*  
32 8. Successful fire suppression is essential to support the Forest Service  
33 mission.  
34 9. The intent of wildfire suppression is to protect human life, property, and  
35 at risk lands and resources.  
36

37 **Leadership and Accountability**

- 38 • *Forest Service Wide*  
39 10. The hallmarks of Forest Service leadership are action, attitude, and  
40 accountability.  
41 11. Leaders express clear and concise intent to ensure assignments are  
42 managed safely, effectively, and efficiently.  
43 12. Leaders regularly monitor operations for effectiveness, and take action  
44 when there is recognition of exceptional or problematic employee  
45 performance.

1 13. Both positive reinforcement and discipline will be based on individual  
2 behavior as measured by adherence to the rules; appropriate application of  
3 doctrine, principles, and guidelines; execution of responsibilities  
4 commensurate with role; and appropriate use of available information.

5 • *Fire Suppression*

6 14. Demonstrated fitness for command is a requirement for leadership  
7 positions associated with fire fighting.

8

9 **Roles and Relationships**

10 • *Forest Service Wide*

11 15. Commitment to duty, respect for others, and personal integrity are  
12 expected. Every employee fosters a work environment that is enjoyable,  
13 rewarding, recognizes the value of diversity, and is free of harassment.

14 • *Fire & Aviation Management*

15 16. Line officers with fire management responsibilities will have knowledge  
16 and understanding of fire program management.

17 17. Contracted resources will meet identified standards for qualifications,  
18 training, productivity, and efficiency necessary to meet emergency response  
19 needs.

20 18. It is the Forest Service responsibility to initiate and participate in public  
21 education efforts to promote support for necessary fire management  
22 activities.

23

24 • *Fire Suppression*

25 19. Every Forest Service employee has a responsibility to support fire  
26 suppression emergencies in a manner that meets identified needs, and is  
27 within their qualifications and capabilities.

28

29 **Operations**

30 • *Forest Service Wide*

31 20. Employees are expected and empowered to be creative and decisive, to  
32 exercise initiative and accept responsibility, and to use their training,  
33 experience, and judgment in decision-making to carry out their leader's  
34 intent.

35 21. Employees are expected and empowered to make reasonable and  
36 prudent decisions to accomplish the agency mission while minimizing  
37 exposure to hazards.

38 22. Clear, uncomplicated plans and concise orders maximize effectiveness  
39 and minimize confusion.

40 • *Fire Suppression*

41 23. When it is time to fight fire, we do so in a manner that maximizes  
42 effectiveness of effort, has highest regard for firefighter and public safety,  
43 and controls costs.

44 24. Every fire suppression operation is directed toward clearly-defined,  
45 decisive, and obtainable objectives.

1 25. Command and control must be decentralized to cope with the  
2 unpredictable nature of fire. To achieve their leader's intent and accomplish  
3 operational objectives, subordinate commanders are required to make  
4 decisions on their own initiative, and to coordinate their efforts.

5 26. Unity of effort is maintained and suppression actions are coordinated at  
6 all times.

7 27. Using principles requires judgment in application, while adherence to  
8 rules does not. In combination, principles and rules guide our fundamental  
9 wildland fire suppression practices and behaviors, and are mutually  
10 understood at every level of command.

11 28. Rapid deployment and concentration of fire suppression resources at the  
12 decisive time and place is essential to successful fire suppression actions.

13 29. Maintaining high capability for initial attack is essential to public and  
14 fire fighter safety, accomplishment of management objectives, and cost  
15 containment.

### 16 17 **Risk Management**

#### 18 • *Fire Suppression*

19 30. We practice risk management to minimize the exposure and affects of  
20 the inherent hazards in fire suppression while maximizing the opportunities  
21 to achieve leader intent.

### 22 23 **Agency Administrator Positions**

24  
25 The Forest Service has developed core fire management competencies. They  
26 are presented here for reference:

- 27 • Knowledge of fire program management including ability to integrate fire  
28 and fuels management across all program areas and functions;
- 29 • Ability to implement fire management strategies and integrate natural  
30 resource concerns into collaborative community protection and ecosystem  
31 restoration strategies;
- 32 • Knowledge to oversee a fire management program including budget,  
33 preparedness, prevention, suppression, and hazardous fuels reduction;
- 34 • Ability to serve as an Agency Administrator during an incident on an  
35 assigned unit; and
- 36 • Ability to provide a fully staffed, highly qualified, and diversified  
37 firefighting workforce that exists in a "safety first" and "readiness"  
38 environment.

### 39 40 **Training and Core Competencies**

- 41 • Attend a regional or national Fire Management Leadership for Agency  
42 Administrators training session;
- 43 • Require a shadow assignment with a fully qualified Agency Administrator;
- 44 • Receive training or experience with the Wildland Fire Decision Support  
45 System (WFDSS); and

- 1 • Ability to provide a Delegation of Authority to Incident Commanders.

2

3 **Line Officer Certification Program**

4 The following principles will guide certification of Agency Administrators in  
5 ~~XXX wild~~ fire management:

- 6 • Regional Foresters are accountable for certification of line officers;
- 7 • Line officer evaluation includes standards for training, background and  
8 experience, and demonstrated ability, which will result in a qualitative  
9 evaluation of readiness by the Regional Forester;
- 10 • When the complexity level of a fire exceeds a line officer's certification, a  
11 coach will be assigned to advise (but not replace);
- 12 • This certification program will be periodically evaluated and updated as  
13 needed;
- 14 • Assistance with decision documentation and analysis can be requested  
15 through the Wildland Fire Management RD&A- National Fire Decision  
16 Support Center (NFDSC); and
- 17 • The Coaching/Shadowing program, to be administered by each region, is an  
18 integral part of this certification program.

19

20 **Line Officers will be evaluated in three basic areas:**

- 21 • Training;
- 22 • Background and experience; and
- 23 • Demonstrated understanding of concepts and principles.

24

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

28

29 **Guidelines**

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

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

36

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

- 39 • **Training:** Fire Management Leadership or National Fire Management for  
40 Line Officers, and ~~XXX attain WFDSS Certification as described per~~  
41 ~~authorization level in FSM 5120~~ attend an annual review of line officer  
42 ~~WFDSS responsibilities (see appendix N for suggested refresher items).~~
- 43 • **Background and Experience:**

- 1 ○ Successful management of a minimum of one Type 3 or higher fire, or  
2 one successful higher complexity fire (Type 2 or higher) quality  
3 shadow assignment (consider complexity and size of the fires).  
4 ○ Management oversight of a low-complexity fire program and/or  
5 experience as an Agency Administrator or representative.  
6 ○ Applicable experience in all hazard or other incident oversight may be  
7 considered in lieu of this experience.  
8 ○ Consider career fire experience.
- 9 ● **Demonstrated Ability:** Successful evaluation by a coach (including  
10 feedback from ICs or ACs) that the candidate has demonstrated  
11 understanding and application of the responsibilities of an Agency  
12 Administrator on smaller low-complexity fires with a basic understanding  
13 of the elements of the core competencies.  
14
- 15 **Journey Level** - The line officer could manage a moderate to high complexity  
16 fire. The line officer needs to be certified at the Working Level and should meet  
17 the following:
- 18 ● **Training:** Fire Management Leadership or National Fire Management for  
19 Line Officers, ~~XXX attain WFDSS Certification as described per~~  
20 ~~authorization level in FSM 5120~~ attend an annual review of line officer  
21 ~~WFDSS responsibilities (see appendix N for suggested refresher items).~~
- 22 ● **Background and Experience:**
- 23 ○ Successful management of a minimum of one Type 2 or higher fire, or  
24 one successful higher complexity fire (Type 1) quality shadow  
25 assignment, depending on fire experience (complexity and size of the  
26 fires should be considered).  
27 ○ Management oversight of a moderate-complexity fire program, or  
28 experience as an Agency Administrator or representative on Type 2 or  
29 higher fires.  
30 ○ Applicable experience in all-hazard or other incident oversight may  
31 also be considered in lieu of other guidelines.
- 32 ● **Demonstrated Ability:** Successful evaluation by a coach (including  
33 feedback from ICs or ACs) that the candidate has demonstrated  
34 understanding and application of the responsibilities of an Agency  
35 Administrator on moderate to large complex fires in the core competencies,  
36 and other elements that may be relevant.  
37
- 38 **Advanced Level** - The line officer could manage a high complexity fire. The  
39 line officer needs to be certified at the Journey Level, and should meet the  
40 following:
- 41 ● **Training:** Fire Management Leadership or National Fire Management for  
42 Line Officers, ~~XXX attain WFDSS Certification as described per~~  
43 ~~authorization level in FSM 5120~~ attend an annual review of line officer  
44 ~~WFDSS responsibilities (see appendix N for suggested refresher items).~~
- 45 ● **Background and Experience:**

- 1 ○ Successful management of a minimum of five Type 1 or 2 fires (at least
- 2 one of which is a Type 1 fire), depending on fire experience
- 3 (complexity and size of the fires should be considered).
- 4 ○ Management oversight of a moderate to high-complexity fire program.
- 5 ○ Applicable experience in all hazard or other incident oversight may
- 6 also be considered in lieu of other guidelines.
- 7 ● **Demonstrated Ability:** Successful evaluation by a coach (including
- 8 feedback from ICs or ACs) that the candidate has demonstrated
- 9 understanding and application of the responsibilities of an Agency
- 10 Administrator on large complex fires in the core competencies, and other
- 11 elements that may be relevant.

### 12

### 13 **Other Considerations**

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

- 15 ● Safety;
- 16 ● Strategies and tactics for cost containment;
- 17 ● Incident management processes;
- 18 ● Understanding of decision support tools;
- 19 ● Situational awareness of resource availability & allocation;
- 20 ● Understanding fire agreements and cost apportionment;
- 21 ● WFDSS experience;
- 22 ● Monitoring and evaluation of fire operations;
- 23 ● Risk management; and
- 24 ● Social/political awareness and interpersonal relations.

25

26 Other training opportunities to achieve core competencies - Additional training

27 opportunities/suggestions:

- 28 ● Upper levels of fire leadership and fire management courses;
- 29 ● Function as the Line Officer in sand table exercises and training simulations
- 30 in S-420, S-520, and other fire courses;
- 31 ● Participate in advanced risk management training;
- 32 ● Get assigned to a Type 1 or Type 2 team as a training assignment (e.g.
- 33 shadow Plans) and see the world from their viewpoint;
- 34 ● WFDSS training (see the WFDSS homepage <http://wfdss.usgs.gov/wfdss>
- 35 for training materials);
- 36 ● Include risk management and fire management topics during annual line
- 37 officer meetings;
- 38 ● Attend staff rides (staff rides need to include a stand that portrays the line
- 39 officer perspective);
- 40 ● Participate in prescribed fires and/or attend prescribed fire training;
- 41 ● Participate in other leadership and/or decision-making training;
- 42 ● Attend L-580 *Leadership is Action*;
- 43 ● For additional information, a copy of the *Line Officer Desk Reference for*
- 44 *Fire Program Management* can be downloaded at:

1 XXX [http://www.wfmrda.nwcg.gov/reference\\_&\\_guidance.php](http://www.wfmrda.nwcg.gov/reference_&_guidance.php)  
2 [http://www.wfmrda.nwcg.gov/line\\_officer\\_resources.php](http://www.wfmrda.nwcg.gov/line_officer_resources.php) XXX under the  
3 heading "USFS Line Officer Desk Reference".  
4

#### 5 **Guidance on the Selection of Coaches**

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

8 Criteria for individuals serving as Coaches are as follows:

- 9 • Must be a "Journey" level line officer in dealing with large fire incident, or  
10 rated at an experience level commensurate with incident being managed;  
11 Present and past Agency Administrators can serve as coaches, including  
12 retirees that were qualified/experienced; and
- 13 • Must be willing and able to serve as a Coach.

#### 15 **Specific Agency Administrator Responsibilities for Fire and Aviation at the 16 Field Level**

##### 18 **Responsibilities**

- 19 • Integrate fire and fuels management across all functional areas.
- 20 • Implement fire management strategies and integrate natural resource  
21 concerns into collaborative community protection and ecosystem restoration  
22 strategies on the unit.
- 23 • Manage a budget that includes fire preparedness, prevention, suppression,  
24 and hazardous fuels in an annual program of work for the unit.
- 25 • Ensure the GSA Wildland Fire Equipment Catalog is used as the primary  
26 and mandatory source of supply for wildland fire suppression equipment,  
27 supplies and protective clothing. Any deviation must follow the  
28 requirements listed in FSH 6309.32 - Required Sources of Supplies and  
29 Services and FAR 8.002 - Priorities for Use of Government Supply Sources.  
30 The deviation must be supported by a Job Hazard Analysis (JHA) that  
31 documents the specific reason the stock item does not meet the job  
32 requirements and is signed by the applicable line officer. The purchasing  
33 official must confirm that the JHA supports the alternate purchase.
- 34 • Perform duties of Agency Administrator and maintain those qualifications.
- 35 • Provide a fully staffed, highly qualified, and diverse workforce in a "safety  
36 first" environment.
- 37 • Support and participate in wildfire prevention.

38  
39 These responsibilities are based on current policy and provide program guidance  
40 to ensure safe, consistent, efficient, and effective fire and aviation operations.

##### 42 **Preparedness**

- 43 • Take all necessary and prudent actions to ensure firefighter and public  
44 safety.

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

### 35 36 **Suppression**

- 37 • Ensure use of fire funds is in compliance with Agency policies.
- 38 • All fires must utilize the WFDSS to inform and document decisions related  
39 to course of action, resource allocations, and risk management  
40 considerations. WFDSS will be used to approve and publish decisions on  
41 all fires that exceed initial attack or include a resource management  
42 objective. See table below for WFDSS approval authorities.
- 43 • Personally attend reviews on Type 1 and Type 2 fires. Ensure Agency  
44 Administrator representatives are assigned when appropriate.

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

16  
17 **Responsibilities and Oversight**

- 18 • Agency Administrators are responsible for all aspects of fire management.
- 19 • Agency Administrators will ensure that all Forest Service employees and  
20 employees of interagency partners working on Forest Service jurisdiction  
21 wildfires clearly understand direction.
- 22 • Agency Administrators must approve and publish decisions in WFDSS  
23 ~~XXX~~(and subsequent courses of action) and issue delegations of authority  
24 to the Incident Commander. The Agency Administrator authority is based  
25 on incident type.

26

Incident Type	USFS Approval*
Type 1	Regional Forester level with National oversight
Type 2	Forest Supervisor level with oversight by the Regional Forester
Type 3,4,5	District Ranger level with oversight by the Forest Supervisor

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

- 31 • Critical long duration wildfire oversight roles include ensuring that:
  - 32 ○ Up-to-date Published decisions are completed and documented in  
33 WFDSS.
  - 34 ○ Hazards are identified and risk assessments are incorporated into  
35 Published Decisions.
  - 36 ○ Coordination with partners and potentially affected parties is conducted  
37 (including smoke impacts). Unified command is implemented early if  
38 necessary.

- 1 ○ Resource capacity and availability are adequately assessed to meet
- 2 expectations.
- 3 ● This oversight role should address concerns of the states, cooperators, and
- 4 the public including air quality impacts from multiple wildfires.
- 5

#### 6 **Risk Management Framework**

7 Sound decision making relies on identifying reasonable objectives for protection  
8 of critical values at risk, while considering the amount and quality of exposure  
9 to firefighters and the likelihood of success. The Forest Service is committed to  
10 using a risk management framework that is comprised of three (3) key elements:

11  
12 Pre-season preparedness work is critical to success when a fire starts.

- 13 ● Build capacity of our decision makers and their key stakeholders to manage
- 14 the uncertainty and inherent risks of fires.
- 15 ● Complete landscape level risk assessments by developing a common
- 16 understanding of what are the values to be protected and can be summed up
- 17 best by answering these questions; ‘What is important?’, ‘Why is it
- 18 important?’, ‘How important is it?’, and ‘What are the consequences?’
- 19 ● Complete a risk analysis, in concert with key stakeholders and partner
- 20 agencies, to predetermine the range of acceptable response strategies for
- 21 protecting the identified values at risk while balancing firefighter and public
- 22 exposure.
- 23

24 During incident phase focuses on a Seven (7) Step Risk Management Process:

- 25 1. Complete an incident Risk Assessment
  - 26 ● Develop an assessment of what is at risk (from preseason work or input
  - 27 from key stakeholders), and the associated probabilities and potential
  - 28 consequences.
- 29 2. Complete a Risk Analysis
  - 30 ● Consider alternatives (objectives, strategies and tactics) against desired
  - 31 outcomes, exposure to responders, probability of success and values to
  - 32 be protected.
- 33 3. Complete Two-Way Risk Communications
  - 34 ● Engage community leaders, local government officials, partners, and
  - 35 other key stakeholders of the incident to share the risk picture and enlist
  - 36 input.
- 37 4. Conduct Risk Sharing Dialogue
  - 38 ● Engage appropriate senior line officers and political appointees (as
  - 39 necessary) regarding the potential decision aimed at obtaining
  - 40 understanding, acceptance, and support for the alternatives and likely
  - 41 decision.
- 42 5. Make the Risk Informed Decision
- 43 6. Document the risk: assessment, analysis, communication, sharing and
- 44 decision in WFDSS
- 45 7. Continue Monitoring and Adjusting as necessary or as conditions change.

- 1 After the incident: As a learning organization we should always strive to
- 2 improve how we conduct our business. We should endeavor to learn from each
- 3 incident and apply those lessons.
- 4 • Complete an incident after action review.
  - 5 ○ Engage key stakeholders of the incident to be involved
  - 6 ○ Review what worked, what did not work and suggestions for
  - 7 improvement
- 8 • Conduct a peer review after action process
  - 9 ○ Engage others who have had similar incidents to learn strategies for
  - 10 improvement
- 11 • Implement plans for improvement
  - 12 ○ Make use of lessons learned in real-time if possible

13  
14 XXX The following Risk Assessment and Risk Decision questions are designed  
15 to inform fire management decisions by stimulating thinking and prompting  
16 dialogue, analyzing and assessing risk, and recognizing shared risks and  
17 communicating those risks within the Agency and with partners and  
18 stakeholders.

- 19
- 20 • Risk Assessment:
  - 21 1. What are the critical values at risk?
  - 22 2. What is the chance the critical values will be impacted, and if so what
  - 23 are the consequences?
  - 24 3. What are the opportunities to manage fire to meet land management
  - 25 objectives?
  - 26 4. What are the possible low probability/high consequence events?
  - 27 5. Who are the stakeholders that should be consulted prior to making a
  - 28 decision?
- 29 • Risk Decision:
  - 30 6. What alternatives (objectives, strategies, and tactics) are being
  - 31 considered?
  - 32 7. What is the exposure of responders for the alternatives being
  - 33 considered?
  - 34 8. What is the relative probability of success associated with the
  - 35 alternatives being considered?
  - 36 9. What alternative provides for the best balance between the desired
  - 37 outcome and exposure to responders?
  - 38 10. What are the critical thresholds that will trigger reconsideration of the
  - 39 proposed alternative and how will they be monitored?

#### 40 **Safety**

- 41
- 42 • Review safety policies, procedures, and concerns with field fire and
- 43 aviation personnel.
- 44 • Ensure timely follow-up actions to program reviews, fire preparedness
- 45 reviews, fire and aviation safety reviews, and management reviews.

- 1 • Monitor the fire situation and provide oversight during periods of critical
- 2 fire activity and situations of high risk.
- 3 • Ensure there is adequate direction in fire management plans to maintain fire
- 4 danger awareness.
- 5 • Take appropriate actions with escalating fire potential.
- 6 • Ensure appropriate investigation or Lessons Learned analyses are conducted for
- 7 incidents, entrapments, and serious accidents.

8

### 9 **Fuels**

- 10 • Complete a fuels treatment effectiveness assessment on all wildfires which
- 11 start in or burn into a fuel treatment area.
- 12 • Enter results of the assessment in the Fuels Treatment Effectiveness
- 13 Monitoring (FTEM) database found at: [www.nwportal.fs.usda.gov](http://www.nwportal.fs.usda.gov) within
- 14 90 days of control of the fire. **XXX Reference FSM 5140.**

15

### 16 **Prescribed Fire**

- 17 • Provide program leadership by visiting prescribed fire treatment projects
- 18 and providing leader's intent to prescribed fire personnel.
- 19 • Ensure compliance with National and Regional Office policy and direction
- 20 for prescribed fire activities and ensure that periodic reviews and
- 21 inspections of the prescribed fire program are completed.
- 22 • Adhere to procedures for Regional and/or National level approvals for new
- 23 and continued prescribed fire activities at National Preparedness Levels 4
- 24 and 5 as described in the *National Interagency Mobilization Guide*.
- 25 • Ensure a Prescribed Fire Plan is written and approved for each project prior
- 26 to implementation in accordance with the *Interagency Prescribed Fire*
- 27 *Planning and Procedures Guide* available at:
- 28 [www.nwcg.gov/pms/RxFire/rx.htm](http://www.nwcg.gov/pms/RxFire/rx.htm)
- 29 • Review Prescribed Fire Plans:
  - 30 ○ Ensure that the prescribed fire plan has been reviewed and
  - 31 recommended by a qualified technical reviewer.
  - 32 ○ Ensure that prescribed fire plans are designed to achieve desired
  - 33 conditions as described in Land and Resource Management Plans and
  - 34 project-specific NEPA **XXX-analysis decision document.**
- 35 • Approve Prescribed Fire Plans:
  - 36 ○ Minimum qualifications for Forest Supervisors, District Rangers, other
  - 37 Line Officers and formally delegated "Acting" Line Officers to approve
  - 38 prescribed fire plans are:
    - 39 ■ Completing a National or Regional Fire Management Leadership
    - 40 course, or
    - 41 ■ **XXX Completing an Agency Administrator Workshop at the**
    - 42 **National Prescribed Fire Training Center, or**
    - 43 ■ Qualifying in a Type 1 or 2 Command and General Staff position
    - 44 (currency not required), or

- 1           ▪ Qualifying as a Prescribed Fire Burn Boss (RXB1 or RXB2) or
- 2           Prescribed Fire Manager (RXM1 or RXM2) (currency not
- 3           required).
- 4           ○ XXX Attending an agency administrator session at the National
- 5           Prescribed Fire Training Center (PFTC) may be substituted for the
- 6           minimum training requirement for approving prescribed fire plans only.
- 7           ○ Authority to approve prescribed fire plans is held at the Forest
- 8           Supervisor level but may be delegated in writing to other qualified line
- 9           officers or staff. XXX Delegations should be based on meeting the
- 10          minimum training or experience described above and demonstrated
- 11          ability. Documentation that supports the delegated authorities should
- 12          be included in the individuals training records.
- 13          ○ Approve prescribed fire plan amendments and determine the need for
- 14          additional technical review of proposed plan amendments prior to
- 15          approval.
- 16      ● Reauthorize all prescribed fire plans if more than one year has elapsed since
- 17      last authorization.
- 18      ● Report all instances of prescribed fires resulting in a wildfire declaration
- 19      and/or air quality Notice-of-Violation XXX as required in FSM 5140.
- 20

### 21 **Fire Management Positions-XXX Requirements**

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

### 29 **Specific Fire Management Staff Responsibilities for Fire Operations at the** 30 **Field Level**

#### 32 **Preparedness**

- 33      ● Use sound risk management practices as the foundation for all aspects of
- 34      fire and aviation management.
- 35      ● Ensure that only trained and qualified personnel are assigned to fire and
- 36      aviation duties.
- 37      ● Develop, implement, evaluate, and document fire and aviation training
- 38      program to meet current and anticipated needs.
- 39      ● Establish an effective process to gather, evaluate, and communicate
- 40      information to managers, supervisors, and employees. Ensure clear concise
- 41      communications are maintained at all levels.
- 42      ● Ensure fire and aviation management staffs understand their roles,
- 43      responsibilities, authority, and accountability.
- 44      ● Develop and maintain effective communication with the public and
- 45      cooperators.

- 1 ● Regardless of funding level, provide a safe, effective, and efficient fire  
2 management program.
- 3 ● Organize, train, equip, and direct a qualified work force. An Individual  
4 Development Plan (IDP) must be provided for incumbents who do not meet  
5 new standards. Establish qualification review process.
- 6 ● Take appropriate action when performance is exceptional or deficient.
- 7 ● Ensure fire and aviation policies are understood, followed, and coordinated  
8 with other agencies as appropriate.
- 9 ● Ensure that adequate resources are available to implement fire management  
10 operations.
- 11 ● Provide fire personnel with adequate guidance, training, and decision-  
12 making authority to ensure timely decisions.
- 13 ● Develop and maintain agreements, annual operating plans, and contracts on  
14 an interagency basis to increase effectiveness and efficiencies.
- 15 ● Develop, maintain, and annually evaluate the FMP to ensure accuracy and  
16 validity.
- 17 ● Ensure budget requests and allocations reflect preparedness requirements in  
18 the FMP.
- 19 ● Develop and maintain current operational plans. (e.g., dispatch, pre-attack,  
20 prevention).
- 21 ● Ensure that reports and records are properly completed and maintained.
- 22 ● Ensure fiscal responsibility and accountability in planning and expenditures.
- 23 ● Assess, identify, and implement program actions that effectively reduce  
24 unwanted wildland fire ignitions and mitigate risks to life, property, and  
25 resources.
- 26 ● Work with cooperators to identify processes and procedures for providing  
27 fire adapted communities within the wildland urban interface.

### 28 29 **Suppression**

- 30 ● Provide for and personally participate in periodic site visits to individual  
31 incidents and projects.
- 32 ● Utilize the Organizational Needs Assessment and/or Complexity Analysis  
33 to ensure the proper level of management is assigned to all incidents.
- 34 ● Ensure incoming personnel and crews are briefed prior to fire and aviation  
35 assignments.
- 36 ● Coordinate the development of Published Decisions within WFDSS with  
37 local unit staff specialists for all fires that escape initial attack.
- 38 ● Ensure effective transfer of command of incident management occurs and  
39 safety is considered in all functional areas.
- 40 ● Monitor fire activity to anticipate and recognize when complexity levels  
41 exceed program capabilities. Increase managerial and operational resources  
42 to meet needs.
- 43 ● Complete cost recovery actions when unplanned human-caused fires occur.
- 44 ● Ensure structure exposure protection principles are followed.

- 1 • Ensure all misapplications of wildland fire chemicals are reported and  
2 appropriate consultation conducted as needed (see Chapter 12).
- 3 • Ensure 5% assessment of fires less than 300 acres that had aerial fire  
4 retardant used and have avoidance areas as a result of the record of decision  
5 for the nationwide aerial application of fire retardant on National Forest  
6 System land is completed and documented for misapplication reporting.
- 7 • Ensure all assessments of impacts to threatened and endangered species or  
8 cultural resources are conducted by trained and qualified resource  
9 personnel.

10

**11 Safety**

- 12 • Ensure completion of a Job Hazard Analysis (JHA) for fire and fire aviation  
13 activities, and implement applicable risk mitigation measures.
- 14 • Ensure work/rest and R&R guidelines are followed during all fire and  
15 aviation activities. Deviations are approved and documented.
- 16 • Initiate, conduct, and/or participate in fire management related reviews and  
17 investigations.
- 18 • Monitor fire season severity predictions, fire behavior, and fire activity  
19 levels. Take appropriate actions to ensure safe, efficient, and effective  
20 operations.

21

**22 Prescribed Fire**

- 23 • Ensure a written, approved burn plan exists for each prescribed fire project.
- 24 • Prepare and implement all prescribed fire plans in accordance with the  
25 *Interagency Prescribed Fire Planning and Procedures Guide* available at:  
26 [www.nwcg.gov/pms/RxFire/rx.htm](http://www.nwcg.gov/pms/RxFire/rx.htm)
- 27 • Ensure that the Prescribed Fire Burn Boss assigned to each project is  
28 qualified at the appropriate level as determined by project complexity (see  
29 the *Interagency Prescribed Fire Planning and Procedures Guide* at  
30 [www.nwcg.gov/pms/RxFire/rx.htm](http://www.nwcg.gov/pms/RxFire/rx.htm) for specific guidance).
- 31 • Review and update all prescribed fire plans as necessary to comply with  
32 **XXX new** policy or procedures and submit to agency administrator for  
33 review and approval.
- 34 • Submit amendments to prescribed fire plans to the agency administrator for  
35 approval.
- 36 • **XXX Resubmit prescribed fire plans to agency administrator** if more than  
37 one year has elapsed since **XXX last authorization was signed** approval, a  
38 **prescribed fire plan will be reviewed to ensure assumptions are still valid**  
39 **and conditions have not changed, updated as necessary, and resubmitted to**  
40 **the agency administrator for approval.**

41

42

43

44

45

## 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 and Fire Adapted  
25 Communities and structures that can survive wildland fire without  
26 intervention. We support the concept that property owners have primary  
27 responsibility for reducing 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 **Tactical Applications**

46

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05-17

**1 Structure Protection Definition**

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

**8 USFS Role**

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

14  
15 Pursuant to this “structure protection” policy provided above, Forest Service  
16 personnel may engage support from other cooperators in structure protection  
17 activities when 1) requested by local government under terms of an approved  
18 cooperative agreement or 2) when operating within a unified command. The  
19 agency is permitted, without agreement, to render emergency assistance to a  
20 local government in suppressing wildland fires, and in preserving life and  
21 property from the threat of fire, when properly trained and equipped agency  
22 resources are the closest to the need, and there is adequate leadership to do so  
23 safely. The agency will NOT routinely provide primary emergency response  
24 (medical aids, fire suppression, HAZMAT, etc... as identified on “run cards” or  
25 preplanned dispatch scenarios) nor will the agency supplant the local  
26 government responsibility to do so.

27  
28 The contents of a cooperative agreement will clearly define the responsibilities  
29 of partners. Regarding structural fire protection, typical Forest Service  
30 responsibilities in the case of mutual aid, initial attack, extended attack, or large  
31 fire support include:

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

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

- 45 • “Wrap” or set up and administer sprinklers around privately owned  
46 structures.

- 1 • Remove fuels immediately surrounding a structure such as brush,  
2 landscaping, or firewood.  
3
- 4 As addressed above, the Forest Service will apply strategy and tactics to keep  
5 wildland fires from reaching structures, as prudent to do so, considering risk  
6 management for firefighters and publics, fire behavior, values at risk including  
7 natural resources, availability of firefighting resources, and jurisdictional  
8 authorities.  
9
- 10 The Forest Service shall not:
- 11 • Take direct suppression actions on structures other than those that tactically  
12 reduce the threat of fire spread to them.
  - 13 • Enter structures or work on roofs of structures for the purpose of direct  
14 suppression actions.  
15
- 16 In consideration of Forest Service owned or leased structures outside of  
17 structure fire protection areas these same policies apply. The use of Firewise  
18 principles and aggressive fire prevention measures will be employed for Forest  
19 Service structures at every opportunity.  
20
- 21 If a Forest Service structure is determined to be at risk, “wrapping” or other  
22 indirect protection methods for the structure can be authorized by the Agency  
23 Administrator. Documentation of these decisions needs to be placed in the fire  
24 documentation package and the unit files. Any employee engaged in  
25 “wrapping” or other indirect methods of protection operations will be  
26 thoroughly briefed and trained in correct safety and personal protection  
27 equipment procedures, especially if the use of ladders or climbing on the  
28 structure is necessary. In any case, the Forest Service holds that no structure is  
29 worth the risk of serious injury to an employee in an attempt to protect that  
30 structure or facility from fire.  
31

### 32 **Local Government Role**

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

### 38 **Cost**

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

### 44 **Tactical Operating Principles**

45 When engaging in structure protection activities, as defined above, Forest  
46 Service personnel will apply the following principles:

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**05-19**

- 1 • The first priority for all risk-decisions is human survival, both of firefighters  
2 and the public.
- 3 • Incident containment strategies specifically address and integrate protection  
4 of defensible improved property and wildland values.
- 5 • Direct protection of improved property is undertaken when it is safe to do  
6 so, when there are sufficient time and appropriate resources available, and  
7 when the action directly contributes to achieving overall incident objectives.
- 8 • Firefighter decision to accept direction to engage in structure protection  
9 actions is based on the determination that the property is defensible and the  
10 risk to firefighters can be safely mitigated under the current or potential fire  
11 conditions.
- 12 • A decision to delay or withdraw from structure protection operations is the  
13 appropriate course of action when made in consideration of firefighter  
14 safety, current or potential fire behavior, or defensibility of the structure or  
15 groups of structures.
- 16 • Firefighters at all levels are responsible to make risk-decisions appropriate  
17 to their individual knowledge, experience, training, and situational  
18 awareness.
- 19 • Every firefighter is responsible to be aware of the factors that affect their  
20 judgment and the decision-making process, including: a realistic perception  
21 of their own knowledge, skills, and abilities, the presence of life threat or  
22 structures, fire behavior, availability of resources, social/political pressures,  
23 mission focus, and personal distractions such as home, work, health, and  
24 fatigue.
- 25 • An individual's ability to assimilate all available factors affecting  
26 situational awareness is limited in a dynamic wildland urban interface fire  
27 environment. Every firefighter is responsible to understand and recognize  
28 these limitations, and to apply experience, training and personal judgment  
29 to observe, orient, decide, and act in preparation for the "worst case".
- 30 • It is the responsibility of every firefighter to participate in the flow of  
31 information with supervisors, subordinates, and peers. Clear and concise  
32 communication is essential to overcome limitations in situational  
33 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 XXX 240 FW 1 Safety Program Management, 241 FW7, Firefighting, XXX 241 FW 4, Risk Management*
- *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:

- *Wildland Fire Incident Management Field Guide (PMS 210)*
- *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.

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07-1

**Goal**

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

**Definitions**

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

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

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

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

**Risk Management Process**

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

- Establishing situation awareness by identifying hazards.
- Assessing hazard potential.
- Developing hazard controls and making risk management decisions.
- Implementing hazard controls.
- Supervising implementation and evaluating effectiveness.

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

A completed JHA/RA is required for:

- Jobs or work practices that have potential hazards.
- New, non-routine, or hazardous tasks to be performed where potential hazards exist.
- Jobs that may require the employee to use non-standard personal protective equipment (PPE).
- 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](http://web.blm.gov/portal/employeeresources/allemployees/safety/riskmanagement.php)  
6 [anagement.php](http://web.blm.gov/portal/employeeresources/allemployees/safety/riskmanagement.php)
- 7 ○ **FS - JHA's** must include a description of the emergency medical  
8 procedures, identification of key individuals, and actions that will be  
9 taken to ensure prompt and effective medical care and evacuation. See  
10 FSH 6709.11, section 21.1 for more information.
- 11 ○ **XXX FWS-** See also 240 FW 1, Exhibit 1, Job Hazard Assessment

### 13 Work/Rest

14  
15 To mitigate fatigue, Agency Administrators, fire managers, supervisors, Incident  
16 Commanders, and individual firefighters should plan for and ensure that all  
17 personnel are provided a minimum 2:1 work/rest ratio (for every 2 hours of  
18 work or travel, provide 1 hour of sleep and/or rest). Work shifts that exceed 16  
19 hours and/or consecutive days that do not meet the 2:1 work/rest ratio should be  
20 the exception. When this occurs, the following actions are required:

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

30  
31 The work/rest guidelines do not apply to aircraft pilots assigned to an incident.  
32 Pilots must abide by applicable Federal Aviation Administration (FAA)  
33 guidelines, or agency policy if more restrictive.

### 35 Length of Assignment

#### 37 Assignment Definition

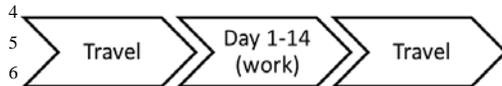
38 An assignment is defined as the time period (days) between the first full  
39 operational period at the first incident or reporting location on the original  
40 resource order and the last day worked prior to commencement of return travel  
41 to the home unit.

#### 43 Length of Assignment

44 Standard assignment length is 14 days, exclusive of travel from and to home  
45 unit, with possible extensions identified below. Time spent in staging and

1 preposition status counts toward the 14-day limit, regardless of pay status, for all  
2 personnel, including Incident Management Teams.

### 3 14-Day Scenario



### 8 **Days Off**

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

12  
13 The authority to grant a day off with pay lies within 5 U.S.C. 6104, 5 CFR  
14 610.301-306, and 56 Comp. Gen. Decision 393 (1977).

15  
16 After completion of a 14 day assignment and return to the home unit, two  
17 mandatory days off will be provided (2 after 14). Days off must occur on the  
18 calendar days immediately following the return travel in order to be charged to  
19 the incident (See Section 12.1-2) (5 U.S.C. 6104, 5 CFR 610.301-306, and 56  
20 Comp. Gen. Decision 393 (1977). If the next day(s) upon return from an  
21 incident is/are a regular work day(s), a paid day(s) off will be authorized.  
22 Regulations may preclude authorizing this for non-NWCG and state/local  
23 employees.

24  
25 Pay entitlement, including administrative leave, for a paid day(s) off cannot be  
26 authorized on the individual's regular day(s) off at their home unit. Agencies  
27 will apply holiday pay regulations, as appropriate. A paid day off is recorded on  
28 home unit time records according to agency requirements. Casuals (AD) are not  
29 entitled to paid day(s) off upon release from the incident or at their point of hire.

30  
31 Contract resources are not entitled to paid day(s) off upon release from the  
32 incident or at their point of hire.

- 33  
34 • **BLM/FWS-** *After completion of a 14-day assignment and return travel, the*  
35 *mandatory days off will be charged to Administrative Leave if they fall on a*  
36 *regularly-scheduled work day.*

37  
38 Home unit Agency Administrators may authorize additional day(s) off with  
39 compensation to further mitigate fatigue. If authorized, home unit program  
40 funds will be used. All length of assignment rules apply to aviation resources,  
41 including aircraft pilots, notwithstanding the FAA and agency day off  
42 regulations.

43  
44  
45  
46

### 1 **Assignment Extension**

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

5

- 6 • Assignments may be extended when:
  - 7 ○ Life and property are imminently threatened.
  - 8 ○ Suppression objectives are close to being met.
  - 9 ○ A military battalion is assigned.
  - 10 ○ Replacement resources are unavailable, or have not yet arrived.

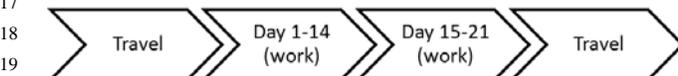
11

12 Upon completion of the standard 14-day assignment, an extension of up to an  
13 additional 14 days may be allowed (for a total of up to 30 days, inclusive of  
14 mandatory days off, and exclusive of travel).

15

### 16 21-Day Scenario

17



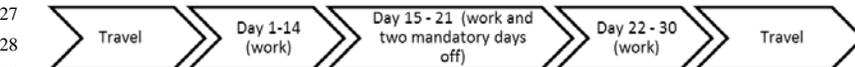
19

20  
21 A 21-day assignment is exclusive of travel from and to home unit. Time spent  
22 in staging and preposition status counts toward the 21-day assignment,  
23 regardless of pay status, for all personnel, including Incident Management  
24 Teams.

25

### 26 30-Day Scenario

27



28

29  
30 An assignment longer than 22 days is exclusive of travel from and to home unit.  
31 Time spent in staging and preposition status counts toward the assignment,  
32 regardless of pay status, for all personnel, including Incident Management  
33 Teams. For an assignment exceeding 21 days, two mandatory days off will be  
34 provided prior to the 22nd day of the assignment.

35

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

42

### 43 **Single Resource/Kind Extensions**

44 The section chief or Incident Commander will identify the need for assignment  
45 extension and will obtain the affected resource's concurrence. The section chief

1 and affected resource will acquire and document the home unit supervisor's  
2 approval.

3  
4 The Incident Commander approves the extension. If a convened Geographic or  
5 National Multi-Agency Coordinating Group (GMAC/NMAC) directs, the  
6 Incident Commander approves only after GMAC/NMAC concurrence.  
7 If the potential exists for reassignment to another incident during the extension,  
8 the home unit supervisor and the affected resource will be advised and must  
9 concur prior to reassignment.

10

#### 11 **Incident Management Team Extensions**

12 Incident Management Team extensions are to be negotiated between the incident  
13 Agency Administrator, the Incident Commander, and the GMAC/NMAC (if  
14 directed).

15

#### 16 **Maximum Consecutive Days Worked- Home Unit**

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

19

#### 20 **Driving Standard**

21

22 All employees driving motor vehicles are responsible for the proper care,  
23 operation, maintenance, and protection of the vehicle, and to obey all federal  
24 and state laws.

25

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

28

#### 29 **General Driving Policy**

- 30
- 31 • Employees must have a valid state driver's license in their possession for  
32 the appropriate vehicle class before operating the vehicle. Operating a  
33 government-owned or rental vehicle without a valid state driver's license is  
34 prohibited.
  - 35 • All drivers whose job duties require the use of a motor vehicle will receive  
36 initial defensive driver training within three months of entering on duty and  
37 refresher driver training every three years thereafter.
    - 38 ○ *BLM/FS- Driver training is required prior to operating a vehicle for  
39 official purposes.*
  - 39 • All traffic violations or parking tickets will be the operator's responsibility.
  - 40 • All driving requiring a CDL will be performed in accordance with  
41 applicable Department of Transportation regulations.
  - 42 • Drivers and all passengers are required to use provided seat belts at all times  
43 when the motor vehicle is in motion.
  - 44 • ~~XXX Employees operating any motor vehicle with a Gross Vehicle Weight~~  
45 ~~Rating (GVWR) of 26,000 pounds or more, towing a vehicle 10,000 pounds~~  
46 ~~GVWR or more, hauling hazardous material requiring the vehicle to be~~

- 1 placarded, or transporting 16 or more persons (including the driver) must  
2 possess a valid Commercial Drivers License (CDL) with all applicable  
3 endorsements. Program funds are authorized to pay for the cost of CDL  
4 licensing fees and exams, necessary for employees to operate fire  
5 equipment. In those cases where a test has been failed and must be retaken,  
6 the employee will be responsible for costs associated with additional  
7 testing.
- 8 • XXX Employees operating a motor vehicle that meets any of the following  
9 criteria must possess a valid Commercial Driver's License (CDL) with all  
10 of the applicable endorsements:
    - 11 ○ Has a gross combination weight rating or gross combination weight of  
12 26,001 pounds or more, whichever is greater, inclusive of a towed  
13 unit(s) with a gross vehicle weight rating or gross vehicle weight of  
14 more than 10,000 pounds, whichever is greater; or
    - 15 ○ Has a gross vehicle weight rating or gross vehicle weight of 26,001  
16 pounds or more, whichever is greater; or
    - 17 ○ Is designed to transport 16 or more passengers, including the driver; or
    - 18 ○ Is of any size and is used in the transportation of hazardous materials.  
19 Hazardous materials means any material that has been designated as  
20 hazardous under 49 U.S.C. 5103 and is required to be placarded under  
21 subpart F of 49 CFR part 172 or any quantity of a material listed as a  
22 select agent or toxin in 42 CFR part 73.
  - 23 ■ **BLM-** *BLM Form 1112-11 will be used to document every fire and  
24 aviation employee's authorization to drive government vehicles or to  
25 drive private or rental vehicles for government business. BLM Form  
26 1112-11 replaces form OF-345, form DI-131, and any equivalent  
27 form that has been created for local or state level use. Employees  
28 are required to self-certify their physical ability to operate vehicles  
29 which they are authorized to use. Drivers of vehicles that require a  
30 Commercial Driver's License may be required to have additional  
31 driver, medical, and fitness testing as required by local and/or state  
32 laws. Employees will immediately inform their supervisor and  
33 update BLM Form 1112-11 if a change in medical condition impedes  
34 their driving ability or if a state driving privilege is restricted for any  
35 reason. Supervisors will review the updated form and take  
36 appropriate action as necessary. BLM Form 1112-11 is available  
37 at: <http://web.blm.gov/blmforms/>*
  - 38 ■ **FS -** *Policy requires all operators of government owned, or leased  
39 vehicles to have a Forest Service issued Operator's Identification  
40 Card (OF-346) indicating the type of vehicles or equipment the  
41 holder is authorized and qualified to operate.*
  - 42 ■ **BLM/FWS/NPS -** *XXX The DOI has granted wildland fire agencies  
43 a waiver from 485DM 16 policy that requires operators of  
44 commercial vehicles to be at least 21 years of age. to allow  
45 employees between the ages of 18 and 21 to operate agency  
46 commercial fire vehicles using a state issued CDL under the specific*

1 ~~conditions as stated below:~~ The DOI has granted wildland fire  
2 agencies a variance from 485 DM 16 policy that requires operators  
3 of commercial vehicles to be at least 21 years of age. The variance  
4 allows employees between the ages of 18 and 21 obtain and utilize a  
5 CDL (subject to state law) to operate agency fire vehicles under the  
6 specific conditions as stated below:

- 7 ○ Drivers with a CDL may only drive within the state that has  
8 issued the CDL and must comply with ~~XXX the~~ that state's  
9 special requirements and endorsements.
- 10 ○ These drivers must only drive vehicles that are equipped with  
11 visible and audible signals, and are easily recognized as fire  
12 fighting equipment. This excludes, but is not limited to, school  
13 buses used for crew transport and "low-boy" tractor trailers  
14 used for construction equipment transport.
- 15 ○ Supervisors must annually establish and document that these  
16 drivers have a valid license (i.e. that the license has not been  
17 suspended, revoked, canceled, or that the employee has not been  
18 otherwise ~~XXX unqualified~~ disqualified from holding a license -  
19 485 DM 16.3.B (1), ensure that the employee has the ability to  
20 operate the vehicle(s) safely in the operational environment  
21 assigned (485 DM 16.3.B (2), and review and validate the  
22 employee's driving record (485 DM 16.3.B(4)).
- 23 ■ **NPS-** For NPS employees engaged in activities other than wildfire or  
24 prescribed fire, refer to the current NPS Official Travel Driving  
25 Policy for restrictions.
- 26 ■ **BLM/FWS/NPS-** Employees, volunteers, and contractors (for BLM,  
27 this includes co-operators) are prohibited from using any mobile  
28 voice/data communication or electronic data retrieval device while  
29 operating a government owned, leased, or rented vehicle or while  
30 operating a personally-owned vehicle for official government  
31 business, and are further prohibited from using any government-  
32 owned mobile communication or data retrieval device while  
33 operating a personally-owned vehicle. Government purchased two-  
34 way radios are exempt from this requirement. The use of any of  
35 these devices during an emergency situation (immediate threat to  
36 life) is limited to the extent necessary to convey vital information.  
37 When there is a passenger in the vehicle and the vehicle is in motion,  
38 the passenger shall manage communications to prevent driver  
39 distraction.
- 40 ■ **FS-** Drivers shall not engage in cellular phone or mobile radio  
41 communications while the vehicle is in motion unless actively  
42 engaged in an emergency such as wildland firefighting. During non-  
43 emergency situations, the driver shall identify a safe location to stop  
44 the vehicle and then engage in cellular phone or mobile radio  
45 communications. These restrictions apply whether or not hands-free  
46 technology is available.

1 **Non-Incident Operations Driving**

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

3

4 **Mobilization and Demobilization**

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

8

9 **Incident Operations Driving**

10 This policy addresses driving by personnel actively engaged in wildland fire or  
11 all-hazard activities; this includes driving while in support, mobilization, and  
12 demobilization to an assigned incident, or during initial attack fire response  
13 (includes time required to control the fire and travel to a rest location).

- 14 ● Agency resources assigned to an incident or engaged in initial attack fire  
15 response will adhere to the current agency work/rest policy for determining  
16 length of duty day.
- 17 ● No driver will drive more than 10 hours (behind the wheel) within any duty-  
18 day.
- 19 ● Multiple drivers in a single vehicle may drive up to the duty-day limitation  
20 provided no driver exceeds the individual driving (behind the wheel) time  
21 limitation of 10 hours.
- 22 ● A driver shall drive only if they have had at least 8 consecutive hours off  
23 duty before beginning a shift. Exception to the minimum off-duty hour  
24 requirement is allowed when essential to:
  - 25 ○ Accomplish immediate and critical suppression objectives.
  - 26 ○ Address immediate and critical firefighter or public safety issues.
- 27 ● As stated in the current agency work/rest policy, documentation of  
28 mitigation measures used to reduce fatigue is required for drivers who  
29 exceed 16 hour work shifts. This is required regardless of whether the  
30 driver was still compliant with the 10 hour individual (behind the wheel)  
31 driving time limitations.

32

33 **Fire Vehicle Operation Standards**

34 Operators of all vehicles must abide by state traffic regulations. Operation of all  
35 vehicles will be conducted within the limits specified by the manufacturer.

36 Limitations based on tire maximum speed ratings and GVWR restrictions must  
37 be followed. It is the vehicle operator's responsibility to ensure vehicles abide  
38 by these and any other limitations specified by agency or state regulations.

39

40 **Management Controls to Mitigate Exposure**

41

42 Management controls, engineering controls, equipment guards, and  
43 administrative procedures are the first line of defense against exposing an  
44 employee to a hazard. Personal Protective Equipment (PPE) will be used to  
45 protect employees against hazards that exist after all management controls are  
46 exhausted.

Release Date: January 2015

07-9

**1 Wildland Fire Field Attire**

2  
3 Polyester, polypropylene, and nylon materials are not to be worn, because most  
4 synthetic fibers melt when exposed to flame or extreme radiant heat. Personnel  
5 should wear only undergarments made of 100 percent or the highest possible  
6 content of natural fibers, aramid, or other flame-resistant materials.

**8 Personal Protective Equipment (PPE)**

9  
10 All personnel are required to use Personal Protective Equipment (PPE)  
11 appropriate for their duties and/or as identified in JHAs/RAs. Employees must  
12 be trained to use safety equipment effectively.

13  
14 Flame resistant clothing should be cleaned or replaced whenever soiled,  
15 especially when soiled with petroleum products. Flame resistant clothing will  
16 be replaced when the fabric is so worn as to reduce the protection capability of  
17 the garment or is so faded as to significantly reduce the desired visibility  
18 qualities.

19  
20 Any modification to Personal Protective Equipment that reduces its protection  
21 capability such as iron-on logos, and sagging of pants, is an unacceptable  
22 practice and will not be allowed on fires.

**24 Required Fireline PPE includes:**

- 25 ● Wildland fire boots
- 26 ● Fire shelter (M-2002)
- 27 ● Hard hat with chinstrap
- 28 ● Goggles/safety glasses (as identified by JHAs/RAs)
- 29 ● Ear plugs/hearing protection
- 30 ● Yellow long-sleeved flame resistant shirt
- 31 ● Flame resistant trousers
- 32 ● Leather or leather/flame resistant combination gloves. Flight gloves are not  
33 approved for fireline use.
- 34 ● Additional PPE as identified by local conditions, material safety data sheet  
35 (MSDS), or JHA/RA
- 36
- 37 ○ *FS- Shirt, trousers, and gloves used by USFS personnel must meet*  
38 *Forest Service specification 5100-91 (shirt), 5100-92 (trousers), 6170-*  
39 *5 (gloves), or be certified to the National Fire Protection Association*  
40 *(NFPA) 1977, Standard on Protective Clothing and Equipment for*  
41 *Wildland Fire Fighting.*

**43 Wildland Fire Boot Standard**

44 Personnel assigned to wildland fires must wear a minimum of 8-inch high, lace-  
45 type exterior leather work boots with lug melt-resistant soles. The 8-inch height

- 1 requirement is measured from the bottom of the heel to the top of the boot.  
2 Alaska is exempt from the lug sole requirement.  
3  
4 All boots that meet the wildland fire boot standard as described above are  
5 required for firefighting and fireline visits, considered non-specialized PPE, and  
6 will be purchased by the employee (including AD/EFF) prior to employment.  
7 • ~~XXX DOI The DOI has issued policy authorizing payment of a boot~~  
8 ~~stipend by DOI agencies. See agency specific guidance for implementation~~  
9 ~~of the DOI policy.~~  
10 XXX The agencies have authorized payment of a boot stipend. See agency  
11 specific guidance for implementation.

### 12 13 **Fire Shelters**

14 New Generation Fire Shelters (M-2002, Forest Service Specification 5100-606)  
15 are required for all wildland firefighters. For more information, refer to  
16 [http://www.nifc.gov/fireShelt/fshelt\\_main.html](http://www.nifc.gov/fireShelt/fshelt_main.html)

17  
18 Training in inspection and deployment of New Generation Fire Shelters will be  
19 provided prior to issuance. Firefighters will inspect their fire shelters at the  
20 beginning of each fire season and periodically throughout the year, to ensure  
21 they are serviceable.

22  
23 Training shelters will be deployed at required Annual Fireline Safety Refresher  
24 Training. No live fire exercises for the purpose of fire shelter deployment  
25 training will be conducted.

26  
27 Fire shelters will be carried in a readily accessible manner by all line personnel.  
28 The deployment of shelters will not be used as a tactical tool. Supervisors and  
29 firefighters must never rely on fire shelters instead of using well-defined escape  
30 routes and safety zones. When deployed on a fire, fire shelters will be left in  
31 place if it is safe to do so and not be removed pending approval of authorized  
32 investigators. Firefighters must report the shelter deployment incident to their  
33 supervisor as soon as possible.

### 34 35 **Head Protection**

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

39 Acceptable hardhats for fireline use are:

- 40 • “Wildland Firefighter’s Helmet” listed in a current or past edition of the  
41 GSA Wildland Fire Equipment Catalog. To view a current catalog, go to  
42 [www.gsa.gov/fireprogram](http://www.gsa.gov/fireprogram); or
- 43 • equivalent hardhat meeting the (NFPA) 1977 *Standard on Protective*  
44 *Clothing and Equipment for Wildland Fire Fighting* requirements, or
- 45 • equivalent hardhat meeting ANSI Z89.1-2003 Type 1, Class G or ANSI  
46 Z89.1-2009 Type 1, Class G.

1 Hardhats consist of two components - the shell and the suspension - which work  
2 together as a system. Alteration of either of these components compromises the  
3 effectiveness of the system (e.g. wearing hardhat backwards) and is not allowed.  
4 Both components require periodic inspection and maintenance. The useful  
5 service life begins when the hardhat is put into service, not the manufacture date  
6 specified on the hardhat. Specific inspection and maintenance instructions are  
7 found in Missoula Technology and Development Center (MTDC) Tech Tip  
8 publication, *Your Hardhat: Inspection and Maintenance* (0267-2331-MTDC).  
9 <http://www.fs.fed.us/t-d/pubs/htmlpubs/htm02672331/index.htm> and the  
10 Hardhat Update: Summer 2012 Notice also issued by MTDC at  
11 <http://www.fs.fed.us/t-d/pubs/htmlpubs/htm12512825/>.

### 12 **Eye and Face Protection**

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

- 16 • Nozzle operator
  - 17 • Chainsaw operator/faller
  - 18 • Helibase and ramp personnel
  - 19 • Wildland fire chemical mixing personnel
  - 20 • Other duties may require eye protection as identified in a specific JHA/RA
- 21 Full face protection in the form of a face shield in compliance with *ANSI Z87.1*  
22 shall be worn when working in any position where face protection has been  
23 identified as required in the job specific JHA/RA: Batch Mixing for Terra-  
24 Torch®, power sharpener operators, etc.

### 25 **Hearing Protection**

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

- 29 • Chainsaw operators/fallers.
- 30 • Pump operators.
- 31 • Helibase and aircraft ramp personnel.
- 32 • Wildland fire chemical mixing personnel.

33  
34 Other duties may require hearing protection as identified in a specific JHA/RA.  
35 Employees may be required to be placed under a hearing conservation program  
36 as required by *29 CFR 1910.95*. Consult with local safety & health personnel  
37 for specifics regarding unit hearing conservation programs.

### 38 **Neck Protection**

39 Face and neck shrouds are not required PPE. The use of shrouds is not required  
40 and should be as a result of onsite risk analysis. If used, face and neck shrouds  
41 shall meet the requirements of FS specification 5100-601 or *NFPA 1977*  
42 *Standard on Protective Clothing and Equipment for Wildland Fire Fighting*.  
43  
44

1 Shrouds should be positioned in a manner that allows for immediate use. For  
2 additional information see MTDC Tech Tip *Improved Face and Neck Shroud*  
3 *for Wildland Firefighters, 2004* (0451-2323-MTDC).  
4 <http://fsweb.mtdc.wo.fs.fed.us/pubs/htmlpubs/htm04512323/index.htm>

#### 6 **Leg Protection**

7 All chainsaw operators will wear chainsaw chaps meeting the United States  
8 Forest Service Specification 6170-4F or 4G. Swampers should wear chaps  
9 when the need is demonstrated by a risk analysis considering proximity to the  
10 sawyer, slope, fuel type, etc. All previous Forest Service specification chainsaw  
11 chaps must be removed from service. Chainsaw chaps shall be maintained in  
12 accordance with MTDC Publication, *Inspecting and Repairing Your Chainsaw*  
13 *Chaps - User Instructions* (0567-2816-MTDC)  
14 <http://www.fs.fed.us/t-d/pubs/htmlpubs/htm05672816/page01.htm>.

#### 16 **Respiratory Protection**

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

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

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

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

- 32 • *FS - FSM – 5130- Self-Contained Breathing Apparatus - Wildland*  
33 *firefighters may use only SCBA which are compliant with NFPA 1981,*  
34 *Standard on Open-Circuit Self-Contained Breathing Apparatus (SCBA) for*  
35 *Emergency Services. SCBA may only be used when contaminants from*  
36 *vehicle, dump, structure, or other non-wildland fuel fire cannot be avoided*  
37 *while meeting wildland fire suppression objectives (29 CFR 1910.134,*  
38 *Respiratory Protection). If such an apparatus is not available, avoid*  
39 *exposure to smoke from these sources. The acquisition, training, proper*  
40 *use, employee health surveillance programs, inspection, storage, and*  
41 *maintenance of respiratory protection equipment must comply with*  
42 *applicable National Fire Protection Association standards and 29 CFR*  
43 *1910.134, and be justified by a Job Hazard Analysis. Where the acquisition*  
44 *and use of an SCBA is approved, it may be carried only on a fire engine and*  
45 *its use must be consistent with FSM 5130.*

46

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

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

6

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

14

15 **High Visibility Vests**

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

18

19 Employees must wear high visibility safety apparel that meets ANSI/ISEA 107-  
20 2004, Class 2 or 3, or ANSI/ISEA 207-2006.

21

22 Exceptions:

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

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

29

30 Additional information is available in the Missoula Technology and  
31 Development Center (MTDC) report, *High-Visibility Garments and Worker*  
32 *Safety on Roadways* (1251-2818P-MTDC).

33 <http://fsweb.mtdc.wo.fs.fed.us/pubs/htmlpubs/html12512818>

34

35 **Fireline Safety**

36

37 **Incident Briefings**

38 Fire managers must ensure that safety briefings are occurring throughout the fire  
39 organization, and that safety factors are addressed through the IC or their  
40 designee and communicated to all incident personnel at operational briefings.

41 The identification and location of escape routes and safety zones must be  
42 stressed. A briefing checklist can be found in the *Incident Response Pocket*  
43 *Guide (IRPG)*.

44

45

46

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

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

- 4 • L - Lookout(s)
- 5 • C - Communication(s)
- 6 • E - Escape Route(s)
- 7 • S - Safety Zone(s)

8

9 **Right to Refuse Risk**

10 Every individual has the right to turn down unsafe assignments. When an  
11 individual feels an assignment is unsafe, they also have the obligation to  
12 identify, to the degree possible, safety alternatives for completing that  
13 assignment. The IRPG contains a process for properly refusing risk.

14

15 **Smoke and Carbon Monoxide**

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

21

22 From an incident management perspective, smoke impacts need to be analyzed  
23 and a risk assessment completed using the ICS-215A, Incident Action Plan  
24 Safety Analysis worksheet. For additional information, reference NWCG memo  
25 NWCG#006-2012, *Monitoring and Mitigating Exposure to Carbon Monoxide*  
26 *and Particulates at Incident Base Camps at*  
27 <http://www.nwcg.gov/general/memos/nwcg-006-2012.html>.

28

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

30 Fire camps should be located in areas that will service the incident for the long  
31 term without having to relocate. Due to such factors as extreme fire behavior,  
32 fire camp locations might be compromised. Incident Commanders are to be  
33 especially vigilant to quickly identify situations that may put their fire camp(s)  
34 or any other adjacent fire camps in jeopardy. As such, planning for evacuation  
35 and/ or remain in place actions should be considered. Evacuation plans at a  
36 minimum shall include:

- 37 • Documented risk assessment
- 38 • Trigger points
- 39 • Egress routes
- 40 • Transportation for all personnel
- 41 • Accountability for all personnel
- 42 • Those individuals not meeting 310-1 qualifications will be considered  
43 escorted visitors as addressed elsewhere in this chapter.
  - 44 ○ *FS- At a minimum, plans shall also include:*
    - 45 ■ *ICP protection strategy referenced in the IAP.*

- 1           ▪ *Live-ability considerations including air quality, functionality of*  
2            *location and facilities, and safety factors for post burn conditions.*

3

#### 4 **Standard Safety Flagging**

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

- 7 • Hot-pink flagging marked “Escape Route” (NFES 0566). Crews with  
8 colorblind members may wish to carry and utilize fluorescent chartreuse  
9 flagging (NFES #2396).  
10 • Hazards. Yellow with black diagonal stripes, 1 inch wide (NFES 0267). If  
11 the above recommendation is not utilized on an incident, the incident will  
12 need to identify the selected color and make it known to all firefighters.

13

#### 14 **Emergency Medical Planning and Services**

15

16 To provide for quick and effective response, all units (including dispatch  
17 centers) will develop and implement plans that specify emergency procedures,  
18 actions, and roles/responsibilities to ensure injured personnel are provided  
19 prompt and effective medical care and evacuation.

20

#### 21 **Incident ~~XXX Medical~~ Emergency Management Planning**

22 In 2010, NWCG approved the standardized incident emergency protocol  
23 developed by the Dutch Creek Serious Accident Task Team, and issued  
24 direction that these emergency medical procedures be adopted by all IMT’s  
25 during daily operations.

26

27 Although some of the procedures are specific to larger Type 1 and Type 2  
28 incidents when key unit leader positions are filled, these same procedures and  
29 protocols can be adapted for local unit use when managing Type 5, 4, and 3  
30 incidents as well as during normal field operations. Local unit emergency  
31 medical plans must take into account all types and management levels of  
32 incidents.

33

34 To achieve successful medical response, Agency Administrators will ensure that  
35 their units have completed the following items prior to each field season:

- 36 • A ~~XXX n Incident Medical~~ Emergency Plan that identifies medical  
37 evacuation options, local/county/state/federal resource capabilities,  
38 capacities, ordering procedures, cooperative agreements, role of dispatch  
39 centers, and key contacts or liaisons;  
40 • Standardized ~~XXX incident and~~ communication center protocols ~~XXX that~~  
41 ~~include the components identified in the Medical Incident Report section of~~  
42 ~~the IRPG:~~  
43    ○ ~~XXX Determine the nature of the emergency;~~  
44    ○ ~~If the emergency is a medical injury/illness, determine if the~~  
45    ~~injury/illness is life threatening;~~

- 1 ○ If the injury is life threatening, then clear designated frequency for
- 2 emergency traffic;
- 3 ○ Identify the on-scene point of contact by position and last name (i.e.
- 4 TFLD Smith);
- 5 ○ Ensure that the Medical Unit Leader (if assigned) is contacted
- 6 immediately;
- 7 ○ Identify number injured, patient assessment(s) and location (geographic
- 8 and/or GPS coordinates);
- 9 ○ Identify on-scene medical personnel by position and last name (i.e.
- 10 EMT Jones);
- 11 ○ Identify preferred method of patient transport;
- 12 ○ Determine any additional resources or equipment needed;
- 13 ○ Document all information received and transmitted on the radio or
- 14 phone;
- 15 ○ Document any changes in the on-scene point of contact or medical
- 16 personnel as they occur;
- 17 ● For incidents that require the preparation of an IAP, XXX an incident
- 18 medical plan that satisfies the requirements found in NWCG memo number
- 19 XXX 025-2010 M-14-01 is required, and will include an expanded block
- 20 eight of the ICS-206 Medical Plan detailing available resources (ground and
- 21 air), roles, responsibilities, and hazard mitigations. Form ICS-206-WF will
- 22 be used. This form is available at:
- 23 <http://www.nwcg.gov/pms/forms/ics.htm>

24  
25 For more information, refer to NWCG [XXX 025-2010 M-14-01](http://www.nwcg.gov/general/memos/nwcg-025-2010.html) at  
26 <http://www.nwcg.gov/general/memos/nwcg-025-2010.html>  
27 <http://www.nwcg.gov/general/memos/m-14-01.html>

### 28 29 **Air Ambulance Coordination**

30 Unit and state/regional level fire program managers should ensure that  
31 procedures, processes, and/or agreements for use of local and regional air  
32 ambulance services are stated in writing and effectively coordinated between the  
33 fire programs, the dispatch/logistics centers, and the service providers. XXX  
34 These procedures, processes, and/or agreements should address contact  
35 frequencies, coordinate format requirements, and capabilities/limitations of the  
36 air ambulance (i.e. night flying, unimproved helispots, weather restrictions).

### 37 38 **Incident Emergency Medical Services**

39 Agencies will follow interim NWCG minimum standards for incident  
40 emergency medical services as defined in Appendix K (NWCG#011-2208) to  
41 assist wildland fire Incident Commanders with determining the level and  
42 number of emergency medical resources and related supplies needed based upon  
43 the number of incident personnel. This standard as well as other incident  
44 medical information can be found on the NWCG Incident Emergency Medical  
45 Subcommittee website at:  
46 <http://www.nwcg.gov/branches/pre/rmc/iems/index.html>

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07-17

1  
2 Incidents that have established Medical Units shall follow the direction as  
3 outlined in *Interim NWCG Minimum Standards for Medical Units Managed By*  
4 *NWCG Member Agencies* at:  
5 [http://www.nwcg.gov/branches/pre/rmc/iems/policyguides/minimum\\_stds\\_for\\_medical\\_units.pdf](http://www.nwcg.gov/branches/pre/rmc/iems/policyguides/minimum_stds_for_medical_units.pdf)  
6

7  
8 NWCG has published *Clinical Treatment Guidelines for Wildland Fire Medical*  
9 *Units (PMS 551)*. These guidelines establish a national approach for medical  
10 care during large incidents that expand the typical emergency management  
11 services (EMS) scope of practice to include the mission of managing and  
12 maintaining the health and wellness of wildland fire personnel. These  
13 guidelines are available at:  
14 <http://www.nwcg.gov/branches/pre/rmc/iems/index.html>  
15

16 Home units that choose to utilize and support higher level medical responders to  
17 provide medical support for internal agency medical emergencies (beyond basic  
18 first aid/CPR) may do so; however, certification and credentialing must follow  
19 respective state laws and protocols.  
20

### 21 **Required Treatment for Burn Injuries**

22  
23 The following standards will be used when any firefighter sustains burn injuries,  
24 regardless of agency jurisdiction.  
25

26 After on-site medical response, initial medical stabilization, and evaluation are  
27 completed, the Agency Administrator or designee having jurisdiction for the  
28 incident and/or firefighter representative (e.g. Crew Boss, Medical Unit Leader,  
29 Compensations for Injury Specialist, etc.) should coordinate with the attending  
30 physician to ensure that a firefighter whose injuries meet any of the following  
31 burn injury criteria is immediately referred to the nearest regional burn center.  
32 It is imperative that action is expeditious, as burn injuries are often difficult to  
33 evaluate and may take 72 hours to manifest themselves. These criteria are based  
34 upon American Burn Association criteria as warranting immediate referral to an  
35 accredited burn center.  
36

37 The decision to refer the firefighter to a regional burn center is made directly by  
38 the attending physician or may be requested of the physician by the Agency  
39 Administrator or designee having jurisdiction and/or firefighter representative.  
40

41 The Agency Administrator or designee for the incident will coordinate with the  
42 employee's home unit to identify a workers compensation liaison to assist the  
43 injured employee with workers compensation claims and procedures.

44 Workers compensation benefits may be denied in the event that the attending  
45 physician does not agree to refer the firefighter to a regional burn center.  
46

1 During these rare events, close consultation must occur between the attending  
2 physician, the firefighter, the Agency Administrator or designee and/or  
3 firefighter representative, and the firefighter's physician to assure that the best  
4 possible care for the burn injuries is provided.

5

#### 6 **Burn Injury Criteria**

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

19

20 A list of burn care facilities can be found at:

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

22

23 For additional NWCG incident emergency medical information see:

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

25

#### 26 **Explosives, Munitions, and Unexploded Ordnance**

27

28 When encountering explosives, munitions, unexploded ordinance (UXO), or  
29 suspected UXO, never pick up, handle, uncover, or touch suspected explosives  
30 or military munitions. Retreat and secure the area from entry. Immediately  
31 notify the local dispatch office, and gather as much information as possible from  
32 a safe distance.

33 Gather the following information and provide it to the dispatch center:

- 34 • Location of the explosive/munitions using a map, GPS coordinates, or  
35 landmarks (use of a GPS receiver is acceptable because it is a receive-only  
36 device).
- 37 • Picture of the explosive if it can be obtained from a safe distance.
- 38 • Who discovered the explosive/munitions and how they can be contacted.
- 39 • Condition of the explosive/munitions (e.g., buried, partially exposed, fully  
40 exposed, deteriorated, or punctured).
- 41 • Number and type of explosive/munitions visible (e.g., blasting caps,  
42 dynamite, bomb, grenade, etc.).
- 43 • Estimated size of explosive/munitions (e.g., length and diameter).
- 44 • Distinctive features of explosive/munitions (e.g., shape, color, markings).

- 1 • Nearby structures, if any (so inhabitants can be contacted and evacuated if  
2 necessary).
- 3 • Public access to the vicinity (i.e., open or closed to motor vehicles).  
4
- 5 Never spend more time near munitions, suspected explosives, or UXO than is  
6 absolutely necessary. Only collect the above information as long as it is safe to  
7 do so from a distance. Never compromise safety to collect information.  
8

### 9 **Notifications**

10 Local dispatch centers are responsible for notifying:

- 11 • Agency law enforcement;  
12 • Unit safety officer;  
13 • Agency Administrator; and  
14 • Local law enforcement.  
15

### 16 **Discovery of Explosives/Munitions/UXO Associated with Former Defense 17 Sites**

18 The military retains liability and responsibility for munitions removal and for  
19 remedial actions on all lands transferred (or transferring) from the military to the  
20 land management agencies, and is responsible for explosives safety at former  
21 defense sites. The military must be notified for all UXO on these lands.  
22

23 Local law enforcement is responsible for contacting the appropriate military  
24 authority. If the responsible military unit is unknown, then local law  
25 enforcement should contact the U.S. Army Forces Command (FORSCOM),  
26 52nd Ordnance Group (EOD), at its 24-hour emergency response number, (931)  
27 431-3824.  
28

29 For additional UXO safety information, see the current IRPG.  
30

### 31 **Industrial and Naturally Occurring Hazardous XXX Materials Exposure**

32  
33 Firefighters can potentially be exposed to hazards in the wildland fire  
34 environment. Encountered hazards can be both human and environmentally  
35 borne.  
36

37 This section provides information and mitigations for most commonly  
38 encountered industrial and naturally occurring potential exposures. Recognizing  
39 there may be unique/area specific hazardous exposures (e.g., fungus causing  
40 valley fever, erionite, coal seams), the following standards apply to all hazards:

- 41 • Identifying unit-specific environmental hazards;  
42 • Develop Risk Assessments/Job Hazard Analyses (RA/JHAs) for those  
43 hazards;  
44 • Develop and provide specific training and standard operating procedures  
45 (SOPs);

- 1 • Provide briefings/training for those who may be exposed;
- 2 • If exposure is suspected, immediately disengage and leave the area; and
- 3 • Seek immediate medical attention if exposure symptoms occur.

4

### 5 **XXX Hazardous Materials Response**

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

19

### 20 **Dump and Spill Sites**

21 Employees that discover any unauthorized waste dump or spill site that contains  
22 indicators of potential hazardous substances (e.g., containers of unknown  
23 substances, pools of unidentifiable liquids, piles of unknown solid materials,  
24 unusual odors, or any materials out of place or not associated with an authorized  
25 activity) should take the following precautions:

- 26 • Follow the procedures in the IRPG;
- 27 • Treat each site as if it contains harmful materials;
- 28 • Do not handle, move, or open any container, breathe vapors, or make  
29 contact with the material;
- 30 • Move a safe distance upwind from the site;
- 31 • Contact appropriate personnel. Generally, this is the Hazardous Materials  
32 Coordinator for the local office; and
- 33 • Firefighters need to immediately report hydrogen sulfide (H<sub>2</sub>S) or potential  
34 exposure and seek immediate medical care.
- 35 • *BLM/FWS/NPS - Agencies require that all field personnel complete First  
36 Responder Awareness training. Firefighters are required to take an annual  
37 refresher for Hazardous Material protocol.*

38

39 The following general safety rules shall be observed when working with  
40 chemicals:

- 41 • Read and understand the Material Safety Data Sheets.
- 42 • Keep the work area clean and orderly.
- 43 • Use the necessary safety equipment.
- 44 • Label every container with the identity of its contents and appropriate  
45 hazard warnings.

- 1 • Store incompatible chemicals in separate areas.
- 2 • Substitute less toxic materials whenever possible.
- 3 • Limit the volume of volatile or flammable material to the minimum needed
- 4 for short operation periods.
- 5 • Provide means of containing the material if equipment or containers should
- 6 break or spill their contents.

7

### 8 **Wildland Fires In or Near Oil/Gas Operations**

9 For units with oil and gas operations within their jurisdiction, the following are  
10 the minimum standard operating procedures to help ensure the health and safety  
11 of wildland firefighters:

- 12 • Firefighters shall receive annual oil and gas hazard recognition and  
13 mitigation training;
- 14 • Local unit shall complete a JHA/RA for wildland fire activities in oil and  
15 gas areas and provide a copy with a briefing to all local and incoming  
16 resources;
- 17 • Establish Response Protocols and proper decontamination procedures to  
18 minimize exposure to additional employees, equipment, and facilities.  
19 Protocols will include notification procedures to respective oil and gas  
20 company(s);
- 21 • Ensure oil and gas resource advisors are consulted;
- 22 • Ensure that at least one member of each squad or engine crew is  
23 knowledgeable in the use and data interpretation of the H<sub>2</sub>S gas monitor.  
24 Training on the device will include at a minimum:
  - 25 ○ Equipment charging and maintenance of sensors;
  - 26 ○ Startup, zeroing, calibration, and bump testing procedures as  
27 recommended by the manufacturer; and
  - 28 ○ How the monitor elicits a warning alarm (visual, auditory, vibration).
- 29 • Understand Peak Reading, Short Term Exposure Limits (STEL), and Time  
30 Weighted Averages;
  - 31 ○ Understand how to set the monitors alarm threshold.
- 32 • The monitor's alarm shall be set at the current American Conference on  
33 Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (10  
34 PPM 2008) and STEL (15 PPM 2008);
- 35 • If H<sub>2</sub>S gas is encountered, immediately disengage and leave area; and
- 36 • Do not establish incident base camps or staging areas in or near oil and gas  
37 operations.

38

39 The following websites provide additional information and training resources:

- 40 • <http://www.nifc.gov/video/HazMat.wmv>
- 41 • <http://iirdb.wildfirelessons.net/main/Reviews.aspx>
- 42 • [www.nfpa.org/assets/files/pdf/Sup10.pdf](http://www.nfpa.org/assets/files/pdf/Sup10.pdf)
- 43 • A template for briefing Incident Management Teams is available in the  
44 "Additional Resources" section of the NIFC Safety website at  
45 [www.nifc.gov](http://www.nifc.gov)

### 1 **Wildland Fires In or Near Radioactive Locations**

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

7 The following websites provide this information and general guidelines:

- 8 • [http://www.nifc.gov/policies/red\\_book/doc/RadiationDocument.pdf](http://www.nifc.gov/policies/red_book/doc/RadiationDocument.pdf)
- 9 • [http://www.nifc.gov/policies/red\\_book/doc/RadiationGuidance.pdf](http://www.nifc.gov/policies/red_book/doc/RadiationGuidance.pdf)

10

### 11 **Hazardous Water Sources**

12 Many water sources used during wildland fire operations may appear harmless,  
13 but contain hazardous materials (e.g. hydraulic fracturing fluid, cyanide, sewage,  
14 corrosives). These hazardous water sources may pose threats to personnel  
15 health and firefighting equipment. Indicators that a water source may be  
16 hazardous include proximity to active or inactive mining operations, gas/oil  
17 wells, water treatment facilities, or other industrial operations. In many cases,  
18 these hazardous water sources may not be fenced and no warning signs may be  
19 present.

20

21 Fire personnel should evaluate water sources to ensure they do not contain **XXX**  
22 **potentially** hazardous materials. If unsure of the contents of a water source,  
23 personnel should not utilize the water source until its contents can be verified.  
24 Dispatch centers, Resource Advisors, or on-scene personnel can assist with  
25 verification of safe water sources. Information about known hazardous water  
26 sources should be included in operational briefings.

27

### 28 **Hydrogen Cyanide (HCN) Exposure**

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

34

35 Symptoms of HCN poisoning include bitter almond odor on breath, burning  
36 taste in mouth, stiffness of lower jaw, feeling of numbness or constriction in  
37 throat, weakness, and headache.

38

39 Follow hazardous materials protocols contained in the IRPG to mitigate  
40 exposure to HCN. If personnel may have been exposed to HCN, immediate  
41 referral to a health care facility capable of toxicology testing and treatment of  
42 HCN exposure is required.

43

44

45

46

**1 Safety for Personnel Visiting Fires**

2

3 A wide variety of personnel such as Agency Administrators, other agency  
4 personnel, dignitaries, members of the news media, etc., may visit incidents.  
5 The following standards apply to all visitors.

6

**7 Visits to XXX an Incident Base XXX Camps or Non-Fireline Field****8 Locations**

9 Recommended field attire ~~XXX for visits to incident base camps and other non-~~  
10 ~~fireline field locations includes:~~

- 11 • Lace-up, closed toe shoes/boots with traction soles and ankle support.
- 12 • Trousers.
- 13 • Long-sleeve shirt.
- 14 • For agency personnel, the field uniform is appropriate.

15

**16 Fireline Logistical Support**

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

- 20 • Complete fire shelter training
- 21 • ~~XXX Required Fireline PPE XXX as referenced in the Personal Protective~~  
22 ~~Equipment section of this chapter.~~
- 23 • Receive an incident briefing
- 24 • Ensure adequate communications are established
- 25 • Other requirements (if any) established by the Incident Commander
- 26 • A Work Capacity Test (WCT) is not required unless required for a specific  
27 position defined in the PMS 310-1.

28

**29 Minimum Requirements for Visits to the Fireline/RX Burns**

30 Visits (such as media visits or political/administrative tours) to hazardous areas  
31 of the fire or areas that pose a fire behavior threat will be managed by meeting  
32 the requirements below:

- 33 • Visits to the fireline must have the approval of the IC/Burn Boss.
- 34 • Visitors must maintain communications with the DIVS or appropriate  
35 fireline supervisor of the area they are visiting.
- 36 • Required ~~XXX Fireline PPE: XXX as referenced in the Personal Protective~~  
37 ~~Equipment section of this chapter.~~
  - 38 ○ ~~Wildland fire boots.~~
  - 39 ○ ~~Yellow long sleeved flame resistant shirts.~~
  - 40 ○ ~~Flame resistant trousers.~~
  - 41 ○ ~~Hard hat with chinstrap.~~
  - 42 ○ ~~Leather or leather/flame resistant combination gloves. Flight gloves~~  
43 ~~are not approved for fireline use.~~
  - 44 ○ ~~Fire shelter (M-2002), must also receive fire shelter training.~~
- 45 • Required field attire:

- 1     ○ Undergarments made of 100 percent or the highest possible content of
- 2         natural fibers or flame-resistant materials.
- 3     ● Required equipment/supplies:
- 4         ○ Hand tool.
- 5         ○ Water canteen.

6  
7 Visitors to the Fireline/RX Burns may be “Non-Escorted” or “Escorted”  
8 depending on the following requirements:

#### 9 10 **Non-Escorted Visits**

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

- 13     ● Must have adequate communications and radio training.
- 14     ● Completed the following training:
  - 15         ○ Introduction to Fire Behavior (S-190).
  - 16         ○ Firefighter Training (S-130).
  - 17         ○ Annual Fireline Safety Refresher Training, including fire shelter
  - 18             training.
- 19     ● Deviation from ~~XXX this requirement~~ **these requirements** must be approved
- 20         by the IC or Burn Boss.

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

#### 23 24 **Escorted Visits**

25 All visitors lacking the above training and physical requirements must be  
26 escorted while on the fireline.

- 27     ● Visitors must receive training in the proper use of **XXX Fireline** PPE.
- 28     ● Requirement for hand tool and water to be determined by escort.
- 29     ● Visitors must be able to walk in mountainous terrain and be in good
- 30         physical condition with no known limiting conditions.
- 31     ● Escorts must be minimally qualified as Single Resource Boss.
- 32     ● ~~XXX Any~~ deviation from ~~XXX this requirement~~ **these requirements** must
- 33         be approved by the IC or Burn Boss.

#### 34 35 **Helicopter Observation Flights**

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

- 39     ● Required PPE:
  - 40         ○ Flight helmet
  - 41         ○ Leather boots
  - 42         ○ Flame-resistant clothing
  - 43         ○ All leather or leather and aramid gloves

44

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

3

#### 4 **Fixed-Wing Observation Flights**

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

8

#### 9 **Six Minutes for Safety Training**

10

11 It is recommended that daily Six Minutes for Safety training be conducted that  
12 focuses on high-risk, low frequency activities that fire personnel may encounter  
13 during a fire season. A daily national Six Minutes for Safety briefing can be  
14 found at: [http://www.nifc.gov/sixminutes/dsp\\_sixminutes.php](http://www.nifc.gov/sixminutes/dsp_sixminutes.php) or the National  
15 Incident Management Situation Report.

16

#### 17 **SAFENET**

18

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

24 The objectives of the form and process are:

- 25 • To provide immediate reporting and correction of unsafe situations or close  
26 calls in wildland fire.
- 27 • To provide a means of sharing safety information throughout the fire  
28 community.
- 29 • To provide long-term data that will assist in identifying trends.
- 30 • Primarily intended for wildfire and prescribed fire situations, however,  
31 SAFENET can be used for training and all hazard events.

32

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

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

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

39

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

- 45 • Electronically at <http://safenet.nifc.gov>;
- 46 • Verbally by telephone at 1-888-670-3938; or

- 1 • By SAFENET Field Card

2

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

9

### 10 Accident/Injury Reporting

11

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

- 15 • To protect and compensate employees for incidents that occur on-the-job.
- 16 • To assist supervisors and safety managers in taking corrective actions and  
17 establish safer work procedures.
- 18 • To determine if administrative controls or Personal Protective Equipment  
19 are needed to prevent a future incident of the same or similar type.
- 20 • To provide a means for trend analysis.

21

### 22 XXX Agency Reporting Requirements

23 Employees are required to immediately report to their supervisor every job-  
24 related accident. Managers and supervisors shall ensure that an appropriate  
25 level of investigation is conducted for each accident and record all personal  
26 injuries and property damage. Coordinate with your human resources office or  
27 administrative personnel to complete appropriate Office of Worker's  
28 Compensation (OWCP) forms. Reporting is the responsibility of the injured  
29 employee's home unit regardless of where the accident or injury occurred.

- 30 • ~~XXX DOI BLM/FWS/NPS-~~ *employees will report accidents using the  
31 Safety Management Information System (SMIS) at  
32 <https://www.smis.doi.gov/>. Supervisors shall complete SMIS report within  
33 six working days after the accident/injury.*
- 34 • *FS-* *employees will use the Safety and Health Information Portal System  
35 (SHIPS) through the Forest Service Dashboard at  
36 [http://fsweb.asc.fs.fed.us/HRM/owcp/WorkersComp\\_index.php](http://fsweb.asc.fs.fed.us/HRM/owcp/WorkersComp_index.php)*

37

### 38 XXX OSHA Reporting Requirements

39 XXX For accidents/injuries meeting the Serious Accident criteria (found in  
40 chapter 18), OSHA must be notified within 8 hours.

41

42 XXX For other work-related accidents/injuries requiring in-patient  
43 hospitalizations, amputations, or loss of an eye, OSHA must be notified within  
44 24 hours. In-patient hospitalization is defined as formal admission to the in-  
45 patient service of a hospital or clinic for care or treatment (does not include  
46 admission for observation or diagnostic testing only).

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07-27

1 XXX Supervisors will coordinate with the unit safety manager where the  
2 accident/injury occurred to ensure notifications are made to the appropriate  
3 OSHA regional office.

4  
5 XXX OSHA reporting information is available at:  
6 <https://www.osha.gov/recordkeeping2014/index.html>

### 8 **Critical Incident Management**

9  
10 The NWCG has published the *Agency Administrator's Guide to Critical*  
11 *Incident Management* (PMS 926). This guide is designed as a working tool to  
12 assist Agency Administrators with the chronological steps in managing a critical  
13 incident. This document includes a series of checklists, which outline Agency  
14 Administrator's and other functional area's oversight and responsibilities. The  
15 guide is not intended to replace local emergency plans or other specific guidance  
16 that may be available, but should be used in conjunction with existing agency  
17 policy, line of duty death (LODD) handbooks, or other critical incident  
18 guidance. Local units should complete the guide XXX or equivalent, and  
19 review and update at least annually. XXX This guide is only available  
20 electronically at: <http://www.nwec.gov/pms/pubs/pubs.htm>.

### 22 **Critical Incident Stress Management (CISM)**

23  
24 A critical incident may be defined as a fatality or other event that can have  
25 serious long term affects on the agency, its employees and their families or the  
26 community. Such an event may warrant stress management assistance. The  
27 local Agency Administrator may choose to provide CISM for personnel that  
28 have been exposed to a traumatic event.

29  
30 The availability of CISM teams and related resources (e.g. defusing teams)  
31 varies constantly - it is imperative that local units pre-identify CISM resources  
32 that can support local unit needs. Some incident management teams include  
33 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 wildfire 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 body dedicated to achieving consistent  
5 implementation of the goals, actions, and policies in the National Fire Plan and  
6 the Federal Wildland Fire Management Policy. The WFLC provides a forum  
7 for high-level dialogues between federal and non-federal entities to set strategic  
8 direction for national fire management.

9

10 The Council consists of the Department of Agriculture's Undersecretary for  
11 Natural Resources and Environment, the Deputy Undersecretary for Natural  
12 Resources and Environment, and the Chief of the U.S. Forest Service; the  
13 Department of the Interior's (DOI) Assistant Secretary for Policy, Management  
14 and Budget, the Directors of the National Park Service, Bureau of Indian  
15 Affairs, Bureau of Land Management, Fish and Wildlife Service, and U.S.  
16 Geological Survey; the Department of Homeland Security's U.S. Fire  
17 Administration Administrator; the President of the Intertribal Timber Council;  
18 two state governors selected from the National Governors Association; a county  
19 commissioner serving as a member of the National Association of Counties; a  
20 mayor serving as a member of the National League of Cities; a State Forester  
21 serving at the request of a senior state elected official; and a fire chief serving at  
22 the request of a senior local government elected official.

23

24 The Council is coordinated by the Department of Agriculture's Deputy  
25 Undersecretary for Natural Resources and Environment and DOI's Assistant  
26 Secretary for Policy, Management and Budget.

27

**28 Wildland Fire Executive Council (WFEC)**

29 The WFEC is an advisory council that provides recommendations on national  
30 wildland fire management to the secretaries of Agriculture and Interior through  
31 WFLC. Members include the Director, USDA FS Fire & Aviation  
32 Management; the Director, DOI Office of Wildland Fire; the Deputy  
33 Administrator, DHS U. S. Fire Administration; an NWCG Executive Board  
34 representative; a National League of Cities representative; an Intertribal Timber  
35 Council representative; a Fire Committee representative from the National  
36 Association of State Foresters; a National Association of Counties  
37 representative; an International Association of Fire Chiefs representative, and a  
38 National Governors Association representative.

39

**40 Federal Fire Policy Council (FFPC)**

41 The FFPC provides a common national federal agency approach to wildland fire  
42 management. FFPC ensures that wildland fire management policies, programs,  
43 activities, and budgets are coordinated and consistent among and between the  
44 member agencies and strives for coordinated and consistent policies and  
45 programs with non-federal partner and cooperator agencies. FFPC sets strategic  
46 policy and program direction, provides coordinated recommendations to the

1 Secretaries of Agriculture, the Interior, and Homeland Security and resolves  
2 inconsistencies among and between federal wildland fire programs.

3

4 The FFPC is accountable and has the authority to:

- 5 • Set the vision and provide leadership for the federal wildland fire program
- 6 • Set national federal strategic wildland fire program goals and priorities
- 7 • Establish the Fire Executive Council

8

9 The FFPC is responsible to:

- 10 • Provide coordinated federal wildland fire management policy direction
- 11 • Resolve policy and program management inconsistencies
- 12 • Set strategic budget priorities for wildland fire management
- 13 • Coordinate and communicate with non-federal entities

14

15 The FFPC is composed of the USDA Deputy Under Secretary for National  
16 Resources and Environment; the Chief of the Forest Service and the Deputy  
17 Chief of State and Private Forestry; and for DOI the Assistant Secretaries for  
18 Policy, Management and Budget, Fish and Wildlife and Parks, Indian Affairs,  
19 Land and Minerals Management, and Water and Science; the Bureau Directors  
20 of the Bureau of Indian Affairs, the Bureau of Land Management, the Fish and  
21 Wildlife Service, the National Park Service, and the US Geological Survey; the  
22 Deputy Assistant Secretary – Law Enforcement, Security & Emergency  
23 Management; the Assistant Administrator of DHS-US Fire Administration; and  
24 the Environmental Protection Agency representative.

25

#### 26 **Fire Executive Council (FEC)**

27 The FEC provides a common, integrated, and coordinated federal agency  
28 approach to wildland fire policy, leadership, budget, and program oversight.

29 Within the broad strategic direction and vision set by the FFPC, the FEC ensures  
30 that the wildland fire management policies, programs, activities, and budgets are  
31 coordinated and consistent among and between the member agencies. FEC sets  
32 policy and program direction for federal wildland fire program implementation,  
33 provides coordinated recommendations to the FFPC, and resolves  
34 inconsistencies among and between federal wildland fire programs. FEC  
35 ensures policy and program coordination and integration with non-fire  
36 management programs and activities as well as non-federal partners and  
37 cooperators.

38

39 The FEC is accountable and has the authority to:

- 40 • Establish strategic federal fire program budget direction and priorities
- 41 • Ensure coordinated federal policy development
- 42 • Develop federal business requirements and priorities

43

44

45

1 The FEC is responsible and has the authority to:

- 2 • Provide coordinated federal interagency executive level wildland fire policy
- 3 leadership, direction, and program oversight
- 4 • Provide coordinated recommendations and advice to the FFPC
- 5 • Provide wildland fire policy and program direction to the Fire Management
- 6 Board (FMB)
- 7 • Provide strategic policy and program integration with resource
- 8 management, aviation, and other related program areas
- 9 • Coordinate and communicate with other non-federal entities
- 10 • Set strategic budget direction and recommendations
- 11 • Establish strategic direction and requirements for wildland fire information
- 12 and technology, wildland fire administrative/business support, scientific and
- 13 research support, and other program areas
- 14 • Approve wildland fire policy, as appropriate
- 15 • Resolve policy and program management inconsistencies and differences
- 16 • Oversee compliance with policy, budget, and program direction
- 17 • Charter the Fire Management Board
- 18 • Charter the National Wildfire Coordinating Group (NWCG) along with the
- 19 Intertribal Timber Council and the National Association of State Foresters
- 20

21 The FEC is composed of the Director and Deputy Directors, USFS Fire and  
22 Aviation Management (USDA); the Director, Office of Wildland Fire, Director,  
23 Office of Aviation Services, Fire Executives from BLM, NPS, BIA, and  
24 USFWS (DOI); and the US Fire Administration Chief, Emergency Support  
25 Branch, National Fire Programs (USDHS-FEMA).

26

27 **Fire Management Board (FMB)**

28 The FMB provides a mechanism for coordinated and integrated federal wildland  
29 fire program management and implementation. The FMB, taking strategic  
30 policy and program direction from the FEC, directs, coordinates and oversees  
31 the development and implementation of federal wildland fire policy and  
32 programs to provide consistent and cost-effective program management.

33

34 The FMB is accountable and has the authority to:

- 35 • Coordinate federal program management and oversight

36

37 The FMB is responsible for and has the authority to:

- 38 • Provide common, integrated implementation strategies, approaches,
- 39 programs, and oversight for implementing federal wildland fire policies
- 40 • Provide federal wildland fire program strategy, policy, budget and program
- 41 recommendations to the FEC
- 42 • Provide recommendations on information and technology requirements,
- 43 priorities, and investments to the Wildland Fire Information and
- 44 Technology Executive Board

- 1 • Provide recommendations on science and research requirements and
- 2 priorities necessary to support wildland fire program management activities
- 3 • Identify requirements and recommend priorities for standards necessary to
- 4 ensure interoperability of intergovernmental wildland fire activities and
- 5 operations
- 6 • Consult with our non-federal partners
- 7 • Develop recommendations for interagency wildland fire
- 8 administrative/business support needs

9  
10 The FMB is composed of the USFS Fire and Aviation Management Assistant  
11 Directors (USDA); the Deputy Director, Office of Wildland Fire, the Deputy  
12 Director, Office of Aviation Services, the Fire Directors for BIA, BLM,  
13 USFWS, and NPS (DOI); and the Wildfire Program Manager, US Fire  
14 Administration (USDHS-FEMA).

#### 15 16 **National Wildfire Coordinating Group (NWCG)**

17 The NWCG is made up of the USFS, BIA, BLM, FWS, and NPS; Intertribal  
18 Timber Council; U.S. Fire Administration (USFA); state forestry agencies  
19 through the National Association of State Foresters (NASF); and the  
20 International Association of Fire Chiefs. The mission of the NWCG is to  
21 provide leadership in establishing, maintaining, and communicating consistent  
22 interagency standards, guidelines, and qualifications for wildland fire  
23 management. Its goal is to provide more effective execution of each agency's  
24 fire management program. The group provides a formalized system to agree  
25 upon standards of training, equipment, qualifications, and other operational  
26 functions.

#### 27 28 **Interior Fire Executive Council (IFEC)**

29 The Interior Fire Executive Council (IFEC) provides interagency coordination  
30 and interagency executive-level wildland fire policy leadership, direction, and  
31 program oversight. IFEC is the focal point for discussing wildland fire policy  
32 issues that affect the DOI and provides a forum for gathering the interests of the  
33 DOI bureaus to formulate a DOI recommendation and/or position to be taken  
34 forward to the Wildland Fire Executive Council (WFEC).

35  
36 The IFEC is composed of the Director, Office of Wildland Fire (OWF) and the  
37 four DOI fire directors and their respective senior executives, as well as the  
38 Director, Aviation Management Directorate and a representative from USGS.

#### 39 40 **Office of Wildland Fire (OWF)**

41 The OWF is a Department of the Interior organization responsible for managing  
42 and overseeing all wildland fire management activities executed by the bureaus.  
43 OWF coordinates the Department's wildland fire programs within the  
44 Department and with other federal and non-federal partners, to establish legally  
45 and scientifically based Department-wide policies and budgets, and to provide  
46 strategic leadership and oversight, that result in safe, comprehensive, cohesive,

1 efficient, and effective wildland fire programs for the nation consistent with the  
2 bureaus' statutory authorities and constraints.

3

4 OWF has three functional areas:

- 5 • The Budget and Performance Management Division which manages and  
6 oversees the DOI Wildland Fire Management financial account and budget  
7 operations;
- 8 • The Policy Division which develops wildland fire management program  
9 policies, strategies, and plans for wildland fire operations, fuels and biomass  
10 coordination, emergency management coordination, science advisory,  
11 international cooperation, and strategic planning; and
- 12 • The Enterprise Systems and Decision Support Division which coordinates  
13 with Federal and non-Federal partners on inter-departmental/intra-  
14 governmental Information Technology systems that support interagency  
15 wildland fire business management, fire operations and program  
16 management activities and other decision support tools. This functional  
17 area also manages the Fire Program Analysis Group (FPA), Wildland Fire  
18 Decision Support System (WFDSS), the Integrated Reporting of Wildland-  
19 Fire Information Group (iRWIn), and Ecosystem Management Decision  
20 Support (EMDS).

21

## 22 **Multi-Agency Management and Coordination**

23

### 24 **National Multi-Agency Coordinating (NMAC) Group**

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

- 31 • Provide oversight of general business practices between the NMAC group  
32 and the Geographic Area Multi-Agency Coordination groups.
- 33 • Establish priorities among geographic areas.
- 34 • Activate and maintain a ready reserve of national resources for assignment  
35 directly by NMAC as needed.
- 36 • Implement decisions of the NMAC.

37

38 XXX The NMAC Operating Plan, NMAC Correspondence, and other resources  
39 and references are located at:

40 <http://www.nifc.gov/nicc/administrative/nmac/index.html>

41

### 42 **Geographic Area Multi-Agency Coordinating (GMAC) Groups**

43 Geographic area multi-agency coordination is overseen by GMAC Groups,  
44 which are comprised of geographic area (State, Region) lead administrators or  
45 fire managers from agencies that have jurisdictional or support responsibilities,

- 1 or that may be significantly impacted by resource commitments. GMAC  
2 responsibilities include:
- 3 • Establish priorities for the geographic area.
  - 4 • Acquire, allocate, and reallocate resources.
  - 5 • Provide NMAC with National Ready Reserve (NRR) resources as required.
  - 6 • Issue coordinated and collective situation status reports.

### 8 **National Dispatch/Coordination System**

9  
10 The wildland fire dispatch system in the United States has three levels (tiers):

- 11 • National
- 12 • Geographic
- 13 • Local

14  
15 Logistical dispatch operations occur at all three levels, while initial attack  
16 dispatch operations occur primarily at the local level.

### 17 18 **National Interagency Coordination Center (NICC)**

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

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

### 32 33 **Geographic Area Coordination Centers (GACCs)**

34 There are ~~XXX~~ **10** GACCs, each of which serves a specific geographic  
35 portion of the United States. Each GACC interacts with the local dispatch  
36 centers, as well as with the NICC and neighboring GACCs. Refer to the  
37 *National Interagency Mobilization Guide* for a complete directory of GACC  
38 locations, addresses, and personnel.

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

**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 and Geographic Area Drawdown**

10

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

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

19 Although drawdown resources are considered unavailable outside the local or  
20 geographic area for which they have been identified, they may still be  
21 reallocated by the Geographic Area or National MAC to meet higher priority  
22 obligations. Refer to Chapter 19 for guidance on establishment of drawdown  
23 levels.

24

**25 National Ready Reserve (NRR)**

26

27 NRR is a means by which the NMAC identifies and readies specific categories,  
28 types, and quantities of fire suppression resources in order to maintain overall  
29 national readiness during periods of actual or predicted national suppression  
30 resource scarcity. Refer to Chapter 19 for NRR implementation responsibilities  
31 and requirements.

32

**33 Interagency Incident Business Management Handbook**

34

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

40

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

46

- 1 • **XXX DOI-** *The Department of the Interior All Hazards-Supplement to the*  
2 *Interagency Incident Business Management Handbook establishes business*  
3 *management guidelines for the Department of the Interior's (DOI's)*  
4 *all-hazards incidents. The DOI Supplement is available at:*  
5 *<http://www.doi.gov/emergency/emergency-policy.cfm>*  
6 • **BLM** - *The IIBMH replaces BLM Manual Section 1111.*  
7 • **FWS** - *Refer to Service Manual 621 FW 1 Wildland Fire Management.*  
8 • **NPS** - *Refer to RM-18.*  
9 • **FS** - *Refer to FSH 5109.34.*

## Standards for Cooperative Agreements

### Agreement Policy

14 Agreements will be comprised of two components: the actual agreement and an  
15 operations plan. The agreement will outline the authority and general  
16 responsibilities of each party and the operations plan will define the specific  
17 operating procedures.

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

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

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

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

- 34 • **BLM** - *BLM Manual 9200, Departmental Manual 620 DM, the Reciprocal*  
35 *Fire Protection Act, 42 U.S.C. 1856, and the Federal Wildland Fire*  
36 *Management Policy and Program Review.*  
37 • **FWS** - *Service Manual, Departmental Manual 620 DM, and Reciprocal*  
38 *Fire Protection Act, 42U.S.C. 1856.*  
39 • **NPS** - *Chapter 2, Federal Assistance and Interagency Agreements*  
40 *Guideline (DO-20), and the Departmental Manual 620 (DM-620). NPS-*  
41 *RM-18, Interagency Agreements, Release Number 1, 02/22/99.*  
42 • **FS** - *FSM 1580, 5106.2 and FSH 1509.11.*

**1 Types of Agreements**

2

**3 National Interagency Agreements**

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

**11 Regional/State Interagency Agreements**

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

15

**16 Local Interagency Agreements**

17 Local units are responsible for developing agreements with local agencies and  
18 fire departments to meet mutual needs for suppression and/or prescribed fire  
19 services.

20

**21 Emergency Assistance**

22 Approved, established reimbursable agreements are the appropriate and  
23 recommended way to provide emergency assistance. If no agreements are  
24 established, refer to your Agency Administrator to determine the authorities  
25 delegated to your agency to provide emergency assistance.

26

**27 Contracts**

28 Contracts may be used where they are the most cost-effective means of  
29 providing for protection commensurate with established standards. A contract,  
30 however, does not absolve an Agency Administrator of the responsibility for  
31 managing a fire program. The office's approved fire management plan must  
32 define the role of the contractor in the overall program.

33

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

37

**38 Elements of an Agreement**

39

40 The following elements should be addressed in each agreement:

- 41 ● The authorities appropriate for each party to enter in an agreement.
- 42 ● The roles and responsibilities of each agency signing the agreement.
- 43 ● An element addressing the cooperative roles of each participant in  
44 prevention, pre-suppression, suppression, fuels, and prescribed fire  
45 management operations.

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

### 23 **Annual Operating Plans (AOPs)**

24

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

#### 30 **General Elements of an AOP**

31 The following items should be addressed in the AOP:

32 • **Mutual Aid**

33 The AOP should address that there may be times when cooperators are  
34 involved in emergency operations and unable to provide mutual aid. In this  
35 case, other cooperators may be contacted for assistance.

36 • **Command Structure**

37 Unified command should be used, as appropriate, whenever multiple  
38 jurisdictions are involved, unless one or more parties request a single  
39 agency IC. If there is a question about jurisdiction, fire managers should  
40 mutually decide and agree on the command structure as soon as they arrive  
41 on the fire; Agency Administrators should confirm this decision as soon as  
42 possible. Once this decision has been made, the incident organization in  
43 use should be relayed to all units on the incident as well as dispatch centers.  
44 In all cases, the identity of the IC must be made known to all fireline and  
45 support personnel.

- 1 • **Communications**  
2 In mutual aid situations, a common designated radio frequency identified in  
3 the AOP should be used for incident communications. All incident  
4 resources should utilize and monitor this frequency for incident  
5 information, tactical use, and changes in weather conditions or other  
6 emergency situations. In some cases, because of equipment availability/  
7 capabilities, departments/agencies may have to use their own frequencies  
8 for tactical operations, allowing the “common” frequency to be the link  
9 between departments. It is important that all department/agencies change to  
10 a single frequency or establish a common communications link as soon as  
11 practical. Clear text should be used. Avoid personal identifiers, such as  
12 names. This paragraph in the AOP shall meet Federal Communications  
13 Commission (FCC) requirements for documenting shared use of radio  
14 frequencies.
- 15 • **Distance/Boundaries**  
16 Responding and requesting parties should identify any mileage limitations  
17 from mutual boundaries where “mutual aid” is either pay or non-pay status.  
18 Also, for some fire departments, the mileage issue may not be one of initial  
19 attack “mutual aid”, but of mutual assistance. In this situation, you may  
20 have the option to make it part of this agreement or identify it as a situation  
21 where the request would be made to the agency having jurisdiction, which  
22 would then dispatch the fire department.
- 23 • **Time/Duration**  
24 Responding and requesting parties should identify time limitations (usually  
25 24 hours) for resources in a non-reimbursable status, and “reimbursable  
26 rates” when the resources are in a reimbursable status.
- 27 • **Qualifications/Minimum Requirements**  
28 As per the NWCG memorandum *Qualification Standards During Initial*  
29 *Action, March 22, 2004* and the PMS 310-1 *Wildland Fire Qualification*  
30 *System Guide*:  
31 ○ The 310-1 qualification/certification standards are mandatory only for  
32 national mobilization of wildland fire fighting resources.  
33 ○ During initial action, all agencies (federal, state, local and tribal) accept  
34 each other’s standards. Once jurisdiction is clearly established, then  
35 the standards of the agency(s) with jurisdiction prevail.  
36 ■ **BLM-** *During initial attack, all agencies accept each other’s*  
37 *standards. When an incident exceeds initial attack and*  
38 *jurisdiction has been established, the standards of the*  
39 *jurisdictional agency(s) prevail.*  
40 ○ Prior to the fire season, federal agencies should meet with their state,  
41 local, and tribal agency partners and jointly determine the qualification/  
42 certification standards that will apply to the use of local, non-federal  
43 firefighters during initial action on fires on lands under the jurisdiction  
44 of a federal agency.

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

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

39  
40 For further information, refer to *NWCG Memorandum #009-2009 Revisions to*  
41 *the Annual Operating Plans for Master Cooperative Fire and Stafford Act*  
42 *Agreements due to Implementation of Revised Guidance for the Implementation*  
43 *of Federal Wildland Fire Management Policy, April 13, 2009*  
44  
45  
46

**1 All-Hazards Coordination and Cooperation**

2

3 All-hazards is defined by NWCG as an incident, natural or manmade, that  
4 warrants action to protect life, property, environment, and public health or  
5 safety, and to minimize disruptions of government, social, or economic  
6 activities. Wildland fire is one type of all-hazard incident. All-hazards incidents  
7 are managed using a standardized national incident management system and  
8 response framework.

9

**10 Stafford Act Disaster Relief and Emergency Assistance**

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

22

**23 Homeland Security Act**

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

29

**30 Homeland Security Presidential Directive-5**

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

39

**40 National Response Framework**

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

1 for exercising direct federal authorities and responsibilities. Information about  
2 the National Response Framework can be found at:  
3 [www.fema.gov/national-response-framework](http://www.fema.gov/national-response-framework)

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

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

19  
20 **Emergency Support Function (ESF) Annexes**

21 Emergency Support Function (ESF) Annexes are the components of the NRF  
22 that detail the mission, policies, structures, and responsibilities of federal  
23 agencies. They are utilized for coordinating resource and programmatic support  
24 to the states, tribes, and other federal agencies or other jurisdictions and entities  
25 during Incidents of National Significance. Each ESF Annex identifies the ESF  
26 coordinator and the primary and support agencies pertinent to the ESF. USDA-  
27 FS and USFA are the Co-coordinators of ESF #4- Firefighting. USDA-FS  
28 coordinates at the national and regional levels with FEMA, state agencies, and  
29 cooperating agencies on all issues related to response activities. USFA  
30 coordinates with appropriate state agencies and local fire departments to expand  
31 structural firefighting resource capacity in the existing national firefighting  
32 mobilization system and provides information on protection of emergency  
33 services sector critical infrastructure.

34  
35 The ESF primary agency serves as a federal executive agent under the Federal  
36 Coordinating Officer to accomplish the ESF mission. The ESF support  
37 agencies, when requested by the designated ESF primary agency, are  
38 responsible for conducting operations using their own authorities, subject-matter  
39 experts, capabilities, or resources. USDA-FS is the primary agency for ESF #4 -  
40 Firefighting. See XXX  
41 [http://www.fema.gov/sites/default/files/orig/fema\\_pdfs/pdf/emergency/nrf/nrf-](http://www.fema.gov/sites/default/files/orig/fema_pdfs/pdf/emergency/nrf/nrf-esf-04.pdf)  
42 [esf-04.pdf https://www.fema.gov/media-](https://www.fema.gov/media-library/assets/documents/32180?id=7353)  
43 [library/assets/documents/32180?id=7353](https://www.fema.gov/media-library/assets/documents/32180?id=7353) for further information regarding ESF  
44 #4.

45  
46

1 Other NRF USDA-FS and DOI responsibilities are:

ESF Support Annex	USDA-FS 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	Primary	Primary
#12 Energy		Support
#13 Public Safety and Security	Support	Support
#15 External Affairs	Support	Support

2

3 **National Oil and Hazardous Substances Pollution Contingency Plan (NCP,**  
 4 **40 CFR 300)**

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

22

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

24 The *Post-Katrina Emergency Reform Act of 2006 (Public Law 109-295)*  
 25 amended the Homeland Security Act. This law established the FEMA

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**08-17**

1 Administrator as responsible for managing the Federal response to emergencies  
2 and disasters, and for reporting directly to the President. The Secretary of  
3 Homeland Security is the Principal Federal Official, but has no direct authority  
4 for response or coordination. XXX This law also amends the Stafford Act to  
5 allow FEMA, in the absence of a specific request or Presidential declaration, to  
6 direct other Federal agencies to provide resources and support where necessary  
7 to save lives, prevent human suffering, or mitigate severe damage.

8

#### 9 **Presidential Policy Directive-8**

10 *Presidential Policy Directive-8 (PPD-8), National Preparedness, March 30,*  
11 *2011* is intended to strengthen all-of-Nation preparedness. PPD-8 directs the  
12 Secretary of Homeland Security to develop a national preparedness goal and a  
13 national preparedness system in coordination and consultation with other federal  
14 departments and agencies, state, local, tribal, and territorial governments, private  
15 and non-profit sectors, and the public. The national preparedness system is  
16 comprised of:

- 17 • National planning frameworks for the prevention, protection, mitigation,  
18 response to, and recovery from national threats. These frameworks are  
19 similar and complementary to the National Response Framework (NRF).
- 20 • Corresponding Federal interagency operational plans.
- 21 • Guidance for the national interoperability of personnel and equipment.
- 22 • Guidance for business, community, family, and individual preparedness.

23

#### 24 **All-Hazards Coordination and Cooperation**

25 In an actual or potential incident of national significance that is not encompassed  
26 by the Stafford Act, the President may instruct a federal department or agency,  
27 subject to any statutory limitations on the department or agency, to utilize the  
28 authorities and resources granted to it by Congress. In accordance with  
29 Homeland Security Presidential Directive-5, federal departments and agencies  
30 are expected to provide their full and prompt support, cooperation, available  
31 resources, consistent with their own responsibilities for protecting national  
32 security. Personnel assigned to all-hazard incidents may only perform duties  
33 within agency policy, training, and capability.

34

#### 35 **NWCG Role in Support, Coordination, and All-Hazards Response by** 36 **Wildland Fire Agencies**

37 The National Wildfire Coordinating Group has established guidelines to define  
38 NWCG's role in the preparedness for, coordination of, and support to all-  
39 hazards incidents.

40

41 General All-Hazards Guidelines for NWCG:

- 42 • The National Incident Management System (NIMS) is the foundation of all  
43 response. NWCG principles, procedures, and publications will comply with  
44 and support NIMS. NWCG expects that all local, State, and Federal  
45 response agencies and organizations will comply with NIMS.

- 1 ● NWCG uses the NIMS definition of All-Hazards, which includes wildland  
2 fire. This definition is:
  - 3 ○ All-Hazards: Describing an incident, natural or manmade, that  
4 warrants action to protect life, property, environment, and public  
5 health or safety, and to minimize disruptions of government, social, or  
6 economic activities.
- 7 ● NWCG recognizes FEMA's role in overseeing the development,  
8 implementation, and maintenance of NIMS, which includes the Incident  
9 Command System (ICS) and its components (forms, core competencies,  
10 training, qualifications and standards, etc.).
- 11 ● NWCG accepts the components of NIMS and will develop an endorsement  
12 process and additional qualifications requirements for positions having  
13 specific wildland fire application.
- 14 ● NWCG recognizes and supports the use of position-specific qualifications  
15 from other NIMS compliant disciplines (law enforcement, structure fire,  
16 hazmat, etc.)
- 17 ● NWCG supports the ongoing development and maintenance of wildland fire  
18 systems to be adaptable for all-hazards response.
- 19 ● NWCG expects that all wildland fire personnel engaged in all-hazards  
20 response, whether at the national, regional or local level will base actions on  
21 both NWCG and agency policies, standards, doctrine, and procedures.
- 22 ● NWCG member agencies ensure all personnel responding to all-hazards  
23 incidents are properly trained, equipped, and qualified for their assigned  
24 position.
- 25 ● NWCG encourages all wildland fire agencies and personnel to receive  
26 appropriate preparedness training, focusing on general knowledge of all-  
27 hazards response, disaster characteristics, and the effects from these events  
28 on citizens and responders.
- 29 ● NWCG encourages all wildland fire agencies and personnel to consider  
30 appropriate risk mitigation measures (e.g. vaccinations, personal protective  
31 equipment, etc.) prior to responding to all-hazards incidents.
- 32 ● NWCG coordinates with member agencies to ensure accountability of  
33 wildland fire personnel during all-hazards response.

#### 34 35 **USFS All-Hazards Guiding Principles and Doctrine**

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

41  
42 The following principles encompass the guidelines, roles, and responsibilities  
43 established in this doctrine:

- 1 • The intent of Forest Service all-hazard response and support is to protect  
2 human life, property, and at-risk lands and resources *while imminent threats*  
3 *exist*.
- 4 • Personnel should be prepared and organized to support all-hazard responses  
5 by providing trained personnel to utilize their inherent skills, capabilities,  
6 and assets -without requiring significant advanced training and preparation.  
7 Support to cooperators requiring wildland resources will be consistent with  
8 employee core skills, capabilities, and training.
- 9 • As incidents move from the *response phase* to the *recovery phase*, there  
10 should be a shift to demobilizing agency resources.
- 11 • Within all-hazard response environments, agency personnel may encounter  
12 situations in which there is an imminent threat to life and property outside  
13 of their Agency's jurisdiction. These environments include scenarios  
14 ranging from being first on scene at a vehicle accident, to committing  
15 Agency resources to protect a local community. Leaders are therefore  
16 expected to use their judgment and respond appropriately.
- 17 • Wildland resources deployed to all-hazard responses will understand the  
18 dynamic and complex environment and utilize their leadership, training, and  
19 skills to adapt, innovate, and bring order to chaos.
- 20 • Leaders are expected to operate within the incident organizational structure  
21 encountered on all-hazard responses. When such structure is absent, they  
22 will utilize National Incident Management System principles to assure safe  
23 and effective utilization of agency resources.
- 24 • Leaders are expected to operate under existing policies and doctrine under  
25 normal conditions. On all-hazard responses, fire and aviation business and  
26 safety standards may have to be adapted to the situation to successfully  
27 accomplish the mission. When conflicts occur, employees will use their  
28 judgment, weigh the risk versus gain, and operate within the intent of  
29 Agency policy and doctrine.
- 30 • All-hazard response will be focused on missions that we perform  
31 consistently and successfully. Workforce assignments will be directed  
32 toward the core skills developed through our existing training and  
33 curriculum.
- 34 • Agency employees will be trained to operate safely and successfully in the  
35 all-hazard environment. Preparedness training will focus on gaining  
36 general knowledge of all-hazard response, disaster characteristics, as well as  
37 the effects from these events on citizens and responders.
- 38 • Specific operational skills will be facilitated through the National Incident  
39 Management System, working with the responsible agencies who supply  
40 the technical specialists who, in turn, provide the specific skill sets. The  
41 Forest Service will not train or equip to meet every hazard.
- 42 • Wildland employees are expected to perform all-hazard support as directed  
43 within their qualifications and physical capabilities. All employees have the  
44 right to a safe assignment. The employee may suspend his or her work  
45 whenever any environmental condition –or combination of conditions-

- 1 become so extreme than an immediate danger is posed to employee health  
2 and safety that cannot be readily mitigated by the use of appropriate,  
3 approved protective equipment or technology.
- 4 • Acceptable risk is risk mitigated to a level that provides for reasonable  
5 assurances that the all-hazard task can be accomplished without serious  
6 injury to life or damage to property.
  - 7 • All-hazard incident-specific briefing and training will be accomplished  
8 *prior* to task implementation. This preparation will usually occur prior to  
9 mobilization where incident description, mission requirements, and known  
10 hazards are addressed. Key protective equipment and associated needs for  
11 these all-hazard task that wildland employees do not routinely encounter or  
12 perform will be identified. This will be done- and be in place- *prior* to task  
13 implementation.
  - 14 • Agency employees will be provided with appropriate vaccinations,  
15 credentials, and personal protective equipment to operate in the all-hazard  
16 environment to which they are assigned.
  - 17 • Additional information can be found in the Forest Service Foundational  
18 Doctrine for All-Hazard Response:  
19 [http://www.fs.fed.us/fire/doctrine/conferences/all\\_hazard\\_response.pdf](http://www.fs.fed.us/fire/doctrine/conferences/all_hazard_response.pdf)  
20

## 21 **International Wildland Fire Coordination and Cooperation**

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

23 In June of 1999, the Department of Interior and the Department of Agriculture  
24 signed a Wildfire Protection Agreement with Mexico. The agreement has two  
25 purposes:  
26

- 27 • To enable wildfire protection resources originating in the territory of one  
28 country to cross the United States-Mexico border in order to suppress  
29 wildfires on the other side of the border within the zone of mutual  
30 assistance (10 miles/16 kilometers) in appropriate circumstances.
- 31 • To give authority for Mexican and U.S. fire management organizations to  
32 cooperate on other fire management activities outside the zone of mutual  
33 assistance.  
34

35 National Operational Guidelines for this agreement are located in Chapter 40 of  
36 the *National Interagency Mobilization Guide* available online. These guidelines  
37 cover issues at the national level and also provide a template for those issues that  
38 need to be addressed in local operating plans. The local operating plans identify  
39 how the agreement will be implemented by the GACCs (and Zone Coordination  
40 Centers) that have dispatching responsibility on the border. The local operating  
41 plans will provide the standard operational procedures for wildfire suppression  
42 resources that could potentially cross the U.S. border into Mexico.  
43

### 44 **U.S. - Canada, Reciprocal Forest Firefighting Arrangement**

45 Information about United States - Canada cross border support is located in  
46 Chapter 40 of the *National Interagency Mobilization Guide* available online.

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1 This chapter provides policy guidance, which was determined by an exchange of  
2 diplomatic notes between the U.S. and Canada in 1982. This chapter also  
3 provides operational guidelines for the Canada - U.S. Reciprocal Forest Fire  
4 Fighting Arrangement. These guidelines are updated yearly.

5

6

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

8 Information about United States - Australia/New Zealand support is located in  
9 Chapter 40 of the *National Interagency Mobilization Guide* available online.  
10 This chapter provides a copy of the arrangements signed between the U.S. and  
11 the states of Australia and the country of New Zealand for support to one  
12 another during severe fire seasons. It also contains the AOP that provides more  
13 detail on the procedures, responsibilities, and requirements used during  
14 activation.

15

### 16 **International Non-Wildland Fire Coordination and Cooperation**

17

#### 18 **International Disasters Support**

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

- 27 • USG agencies charged with the responsibility to coordinate USG responses  
28 to international disaster.
- 29 • The purpose, organizational structure, and operational procedures of a  
30 DART.
- 31 • How the DART relates to other international organizations and countries  
32 during an assignment. Requests for these assignments are coordinated  
33 through the FS International Programs, Disaster Assistance Support  
34 Program (DASP).
- 35 • DART assignments should not be confused with technical exchange  
36 activities, which do not require DART training.

37

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

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## Chapter 09 Fire Management Planning

*XXX NOTE: Existing text in this chapter stricken and replaced with updated text (at end of chapter) provided by the Interagency Fire Planning Committee, or moved to other existing chapters.*

### **XXX Policy and Implementation**

Fire, as a critical natural process will be integrated into land and resource management plans and activities on a landscape scale and across agency boundaries. Fire Management planning will reflect interagency and intergovernmental considerations. Individual federal agencies may develop distinctive but compatible planning products that result from their agency planning process.

Every area with burnable vegetation must have an approved Fire Management Plan (FMP). FMPs are strategic plans that define a program to manage fuels as well as 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, and tactics 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 agency specific fire planning policy and implementation guidance, see: [http://www.nwec.gov/branches/ppm/ifpc/archives/fire\\_policy/index.htm](http://www.nwec.gov/branches/ppm/ifpc/archives/fire_policy/index.htm)

- *FS – new guidance is anticipated for release in FY 2014 that replaces the FMP and meets the intent of the Interagency Fire Management Policy.*

### **Purpose**

The fire management planning process and requirements may differ among agencies. However, for all agencies, resulting planning products contain 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.

Fire planning products include a concise summary of information organized by fire management unit (FMU) or by other geospatially explicit representations of the landscape. These products 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:

Release Date: January 2015

09-1

- 1 • ~~DOI~~ <http://www.nwec.gov/branches/ppm/ifpe/index.htm>
- 2 • ~~FS~~ <http://fsweb.wo.fs.fed.us/fire/>

#### 4 **Concepts and Definitions**

5  
6 For further clarification of concepts and definitions that follow, refer to  
7 *Terminology Updates Resulting from Release of the Guidance for the*  
8 *Implementation of Federal Wildland Fire Management Policy (2009)*, April 30,  
9 2010 (NWCG #024 2010), and the *Guidance for Implementation of Federal*  
10 *Wildland Fire Management Policy, February 13, 2009*.

#### 12 **Land/Resource Management Plan**

13 A document prepared with public participation and approved by the Agency  
14 Administrator that provides guidance and direction for land and resource  
15 management activities for an administrative area. The L/RMP may identify  
16 fire's role in a particular area and for a specific benefit or may contain general  
17 statements regarding the role of fire across the land management unit. Guidance  
18 contained in the L/RMP provides the basis for the development of strategic fire  
19 management objectives and the fire management program in the designated  
20 area.

#### 22 **Fire Management Plan**

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

#### 30 **Fire Management Unit**

31 The purpose of Fire Management Units (FMUs) in planning is to assist in  
32 organizing information in complex landscapes. The process of creating FMUs  
33 divides the landscape into smaller geographic areas to more easily describe  
34 physical/biological/social characteristics and frame associated planning  
35 guidance based on these characteristics.

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

#### 44 **XXX Wildland Fire Moved to Chapter 1**

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

1

**2 XXX Fire Type-Moved to Chapter 1**

3 Wildland fires are categorized into two distinct types:

- 4 • ~~Wildfires—Unplanned ignitions or prescribed fires that are declared wildfires;~~
- 5
- 6 • ~~Prescribed fires—Planned ignition;~~
- 7

**8 XXX Wildfire Management Objectives Moved to Chapter 1**

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

- 14 • ~~FS—All wildfires will have a protection objective.~~
- 15

**16 XXX Response to Wildfire Moved to Chapter 1**

17 Response to wildfire will be coordinated with all affected agencies/cooperators  
18 regardless of the jurisdiction at the ignition point.

19  
20 Management response to a wildfire on federal land is based on objectives  
21 established in the applicable L/RMP and FMP. A wildfire may be concurrently  
22 managed for more than one objective. Unplanned natural ignitions may be  
23 managed to achieve L/RMP and FMP objectives when risk is within acceptable  
24 limits.

- 25 • ~~FS—Human caused fires and trespass fires must be suppressed safely and  
26 cost effectively and must not be managed for resource benefits.~~
- 27 • ~~BLM—All known human caused fires, except escaped prescribed fires, will  
28 be suppressed in every instance and will not be managed for resource  
29 benefits.~~
- 30 • ~~FWS—All escaped prescribed fires will be suppressed. When reporting in  
31 FMIS, the cause of the wildfire will be “Escaped RX” and the narrative will  
32 document the link between the prescribed fire and the wildfire.~~
- 33 • ~~NPS—Refer to RM-18, Chapter 2 for further guidance.~~
- 34

35 Response to wildfire is based on ecological, social, and legal consequences of  
36 the fire. The appropriate response to the fire is dictated by:

- 37 • The circumstances under which a fire occurs;
- 38 • The likely consequences to firefighter/public safety and welfare; and
- 39 • The natural/cultural resource values to be protected.
- 40

**41 XXX Initial Response- NOTE: “Initial Response” term deleted from NWCG  
42 Glossary**

43 Initial response is the immediate decisions and actions taken to react to an  
44 ignition. These decisions and actions may include a management or initial

1 decision to postpone taking action on the ground based on conditions, safety,  
2 and/or competing priorities.

3

4 • **Initial Attack**

5 This type of initial response is an aggressive action to an unwanted fire  
6 consistent with firefighter and public safety and values to be protected.

7

8 **XXX Initial Attack NOTE- "Initial Attack" definition updated in NWCG**  
9 **Glossary MOVED TO CHAPTER 1**

10 **XXX A Preplanned response to a wildfire given the wildfire's potential. Initial**  
11 **Attack may include size up, patrolling, monitoring, holding action or**  
12 **suppression.**

13

14 **XXX Extended Attack**

15 Suppression activity for a wildfire that has not been contained or controlled by  
16 initial attack or contingency forces and for which more firefighting resources are  
17 arriving, en route, or being ordered by the initial attack Incident Commander.  
18 See *NWCG Glossary of Wildland Fire Terminology*.

19

20 **XXX Extended Attack Incident NOTE: Definition updated in NWCG**  
21 **Glossary MOVED TO CHAPTER 1**

22 **XXX An incident that exceeds the capability of the initial attack resources**  
23 **and/or organization to successfully manage the incident to conclusion.**

24

25 **Wildfire Suppression NOTE: Definition updated in NWCG Glossary**  
26 **MOVED TO CHAPTER 1**

27 Management action to extinguish a fire or confine fire spread **XXX ADD**  
28 **beginning with its discovery.**

29

30 **XXX Protection NOTE: NEW Definition added to NWCG Glossary MOVED**  
31 **TO CHAPTER 1**

32 **XXX The actions taken to mitigate the adverse effects of fire on environmental,**  
33 **social, political, economic, and community values at risk.**

34

35 **DOI Reporting of Wildfire Acres That Meet Resource Management**  
36 **Objectives XXX MOVED TO CHAPTER 17**

37

38 Acres burned in a wildfire that achieve resource management objectives as  
39 defined in Resource/Fire Management Plans (R/FMP) will be reported in the  
40 NFPORS Non National Fire Plan (Non NFP) portal. While strategies for  
41 managing individual wildfires are established through the fire management  
42 decision process, the identification of acres which achieved R/FMP objectives  
43 should be made after the fire is declared out, regardless of the fire management  
44 objective, strategy or tactic used. The determination of benefit must be based on  
45 land management objectives which are affected by fire severity, intensity, and  
46 other fire impacts. Post fire impact, such as invasion of exotic species and the

1 need for rehabilitation, should be considered in this determination. At a  
2 minimum, acres reported in the Non-NFP module must meet the following  
3 criteria:

- 4 • the R/FMP supports attainment of resource benefit through use of fire,
- 5 • an interdisciplinary approach is used to determine whether the R/FMP  
6 objectives were met, and
- 7 • line manager approves the determination.

8  
9 **XXX STRIKE** For reporting policy regarding planned hazardous fuels reduction  
10 treatments burned in a wildfire, refer to Chapter 17 of this document.

11  
12 For DOI agencies, acres burned in a wildfire may only be reported in the  
13 NFPORS HFR Module as “Fire Use” if all the following conditions are met:

- 14 • The area burned was in a pre-existing NFPORS treatment unit;
- 15 • NEPA is complete;
- 16 • The planned objectives were met; and
- 17 • The accomplishment is approved by a Regional Fuels Specialist.

18  
19 **XXX** The USFS provides direction for reporting accomplishment from  
20 unplanned ignitions in the annual budget advice and by Washington Office  
21 interim direction letters.

22  
23 **XXX NOTE:** *Following text replaces previous existing text, and moved to*  
24 **Chapter 10**

#### 25 **XXX Purpose**

26  
27 The purpose of fire management planning is to provide for firefighter and public  
28 safety, and outline fire management strategies and tactics that, when  
29 implemented, protect values and meet resource goals and objectives of the land  
30 and/or resource management plan.

31  
32 Fire planning products include a concise summary of information organized by  
33 fire management unit (FMU) or by other geospatially explicit representations of  
34 the landscape. These products should be updated as new information becomes  
35 available, as conditions on the ground necessitate updates, or when changes are  
36 made to the L/RMP.

37 Products may address: response to wildfire, hazardous fuels and vegetation  
38 management, burned area emergency stabilization and rehabilitation, prevention,  
39 community interactions and collaborative partnerships roles, and monitoring and  
40 evaluation of programs.

41  
42 Fire Management planning efforts should reference the National Cohesive  
43 Wildland Fire Management Strategy (2014) (Cohesive Strategy) vision and  
44 goals.

45

1 The Cohesive Strategy Vision is “To safely and effectively extinguish fire, when  
2 needed; use fire where allowable; manage our natural resources; and as a  
3 Nation, live with wildland fire.”

4  
5 The Cohesive Strategy goals are:

- 6 ● Restore and maintain landscapes
- 7 ● Fire-adapted communities
- 8 ● Wildfire response.

## 9 10 **Policy**

11  
12 “Fire, as a critical natural process, will be integrated into land and resource  
13 management plans and activities on a landscape scale and across agency  
14 boundaries” (*Review and Update of the Federal Wildland Fire Management*  
15 *Policy, January 2001*).

16  
17 Fire Management plans should be developed collaboratively between federal  
18 agencies and tribal, local, and state agencies to accomplish resource and  
19 protection objectives.

20  
21 Every area with burnable vegetation must have an approved Fire Management  
22 Plan (FMP). Fire Management Plans are strategic plans that define a program to  
23 manage wildland fires based on the area’s approved land management plan.  
24 When practical, Fire Management Plans (FMP) should contain mutually  
25 developed objectives for managing fires that cross jurisdictional boundaries.

26  
27 Fire Management Plans must provide for firefighter and public safety; include  
28 fire management strategies, tactics, and alternatives; address values to be  
29 protected and values at risk; address the location and conditions under which  
30 resource and protection objectives can be met; consider public health issues; and  
31 be consistent with resource management objectives, activities of the area, and  
32 environmental laws and regulations. Fire Management Plans should be based  
33 upon the best available science.

## 34 35 **Agency Planning Guidance**

### 36 37 **DOI**

38 Fire Management Plans must be consistent with the DOI Interagency Fire  
39 Management Plan Framework and subsequent bureau direction. Fire  
40 Management Plan content may be represented in spatial, text-based and/or  
41 digital formats.

### 42 43 **FS**

44 By the 2016 Fire Season, Forest Service FMPs will be replaced with a  
45 combination of enhanced Spatial Planning contained in the Wildland Fire  
46 Decision Support System (WFDSS) and the Fire Management Reference

1 System (FMRS), a collection of plans required for fire program management,  
2 such as aviation, operations, dispatch, and fire danger operating plan products.  
3 Fire Management Planning will be a continuing effort to ensure that guidance  
4 represented spatially in WFDSS and the FMRS are consistent with LRMP  
5 direction, reflecting available fire response options to move from current to  
6 desired conditions.

7  
8 The FS will also replace its handbook direction (previous FSH 5109.19) with a  
9 Fire Management Planning Guide that further describes Spatial Fire Planning  
10 and the Fire Management Reference System (FMRS). As allowed in the Land  
11 and Resource Management Plan (LRMP), fire response strategies should be  
12 consistent with the Cohesive Strategy and developed in collaboration with  
13 adjoining land managers. This Guide is at  
14 [http://fsweb.wo.fs.fed.us/fire/fmp/fire\\_management\\_planning\\_guide\\_draft.docx](http://fsweb.wo.fs.fed.us/fire/fmp/fire_management_planning_guide_draft.docx).

15  
16 For agency-specific fire planning information, see:  
17 <http://www.nwcg.gov/branches/ppm/ifpc/index.htm>

18  
19 For Fire Management Planning guidance, see:

- 20  
21 • **DOI-** <http://www.nwcg.gov/branches/ppm/ifpc/index.htm>  
22 • **FS-** <http://fsweb.wo.fs.fed.us/fire/fmp/>

## 23 24 **Concepts and Definitions**

25  
26 For further clarification of concepts and definitions that follow, refer to:  
27 *Terminology Updates Resulting from Release of the Guidance for the*  
28 *Implementation of Federal Wildland Fire Management Policy (2009), April 30,*  
29 *2010 (NWCG #024-2010), and the *Guidance for Implementation of Federal**  
30 *Wildland Fire Management Policy, February 13, 2009.*

## 31 32 **Planning Related Definitions**

### 33 34 **Land/Resource Management Plan**

35 A document prepared with public participation and approved by the Agency  
36 Administrator that provides guidance and direction for land and resource  
37 management activities for an administrative area. The L/RMP may identify fire's  
38 role in a particular area and for a specific benefit, or may contain general  
39 statements regarding the role of fire across the land management unit. Guidance  
40 contained in the L/RMP provides the basis for the development of strategic fire  
41 management objectives and the fire management program in the designated  
42 area.

### 43 44 **Fire Management Plan**

45 A Fire Management Plan (FMP) identifies and integrates all wildland fire  
46 management (both planned and unplanned ignitions) and associated activities

1 within the context of the approved L/RMP. The FMP is supplemented by  
2 operations plans, including but not limited to preparedness plans, pre-planned  
3 dispatch plans, fuels treatment plans, and prevention plans. FMPs assure that  
4 wildland fire management goals and objectives are coordinated.

5

#### 6 **Fire Management Unit**

7 The purpose of Fire Management Units (FMUs) in planning is to assist in  
8 organizing information in complex landscapes. The process of creating FMUs  
9 divides the landscape into smaller geographic areas to more easily describe  
10 physical/biological/social characteristics and frame associated planning  
11 guidance based on these characteristics.

12

13 A FMU can be any land management area definable by one or more objectives  
14 that set it apart from the management characteristics of an adjacent FMU  
15 (e.g. management constraints, topographic features, access, values to be  
16 protected, political boundaries, fuel types, and major fire regime groups). The  
17 FMU may have dominant management objectives and pre-selected strategies  
18 assigned to accomplish these objectives.

19

#### 20 **Compliance**

21 Compliance generally includes the full range of considerations and procedures  
22 defined by each agency to comply with laws such as (but not limited to); the  
23 National Environmental Planning Act (NEPA), Section 106 of the Archeological  
24 Resources Protection Act, Section 7 of the Endangered Species Act, Clean Air  
25 Act, Wilderness Act, Executive Orders, etc.

26

#### 27 **Spatial Fire Management Plan (SFMP)**

28 A Spatial Fire Management Plan is a strategic plan that contain text based and  
29 spatially represented information that guides a full range of fire management  
30 activities and is supported by a land or resource management plan. Spatial Fire  
31 Management Plans

32

#### 33 **Spatial Fire Management Plan (SFMP) Mapsheet**

34 A collection of one or more tables, graphics, maps or other information on a  
35 single page or poster.

36

#### 37 **SFMP Map Set**

38 A compilation of all the mapsheets that make up the SFMP.

39

#### 40 **Connection to other Plans**

41

42 Fire Management Plans are tiered from Land/Resource Management Plans.  
43 Other plans (e.g. operational, preparedness, and implementation plans) are tiered  
44 from Fire Management Plans.

45

## Chapter 10 Preparedness

### Preparedness

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

Preparedness actions are consistent with actions identified in Fire Management Plans and are based on operational plans including Preparedness Plans, Fire Danger Operating Plans (FDOPs), Preparedness Level Plans, Step-up Plans (also called Staffing Plans), and Initial Response Plans.

### Preparedness Plans

Preparedness plans provide management direction given identified levels of burning conditions, fire activity, and resource commitment. Outputs from the FDOP process are used to support decisions found in many components of preparedness plans, including staffing plans, step-up/staffing plans, prevention plans, preparedness levels, dispatch response plans, dispatch response levels, etc. Increasing fire danger and/or fire activity, as well as increased commitment of local, geographic area, and national resources suggests a corresponding change in preparedness actions. These actions will ensure a unit is as prepared as possible to react to new and emerging wildfire incidents.

Actions defined in the various components of preparedness plans must be based on and consistent with the unit's Fire Management Plan. Preparedness plans should include, but are not limited to:

- Initial Response Plan
- Staffing Plan (also known as Step-up Plan) with unit drawdown levels specified at each staffing level
- Fire Prevention Plan (as specified by agency requirements)
- An analysis and decision making process that defines the unit's protocols for publishing a wildfire decision (also called a Decision Support Plan)
- Fire Danger Operating Plan

- 1 • The identification of actions to be taken in response to increasing levels of  
2 fire severity and activity (preparedness level) at the unit level.

#### 4 **Fire Danger Operating Plan**

5  
6 FDOPs use information from decision support tools such as the National Fire  
7 Danger Rating System (NFDRS), the Canadian Forest Fire Danger Rating  
8 System (CFFDRS, used in interior Alaska), the Palmer Drought Index, live fuel  
9 moisture data, monthly or seasonal wildland fire outlooks, seasonal climate  
10 forecasts, and wildland fire risk analyses. FDOPs should be prepared by  
11 individuals trained at the Intermediate NFDRS (S-491) level, and preferably the  
12 Advanced NFDRS level.

13  
14 The FDOP guides the application of information from decision support tools  
15 (i.e. NFDRS, CFFDRS, etc.) at the local level. A FDOP documents the  
16 establishment and management of the local unit fire weather station network and  
17 describes how fire danger ratings are applied to local unit fire management  
18 decisions. FDOPs are generally prepared for local interagency areas; therefore,  
19 interagency involvement throughout the process is essential. Interagency  
20 FDOPs are an integral component of unit fire management plan(s). FDOPs may  
21 be packaged as a stand-alone document or as part of a larger planning effort  
22 (such as a fire management plan).

23  
24 All units will develop and maintain a Fire Danger Operating Plan. Fire Danger  
25 Operating Plans include, but are not limited to, the following components:

- 26 • **Roles and Responsibilities**  
27 Defined for those responsible for maintenance and daily implementation of  
28 the plan, program management related to the plan, and associated training.  
29 Training for development of fire danger rating areas is available through  
30 NWCG-sponsored NFDRS courses.
- 31 • **Fire Danger Rating Inventory**  
32 An inventory of the basic components of the operating plan will include a  
33 description of the dispatch response areas, protection units, administrative  
34 units, fire occurrence, land management objectives, standards, guidelines,  
35 etc. The fire danger rating inventory:  
36 ○ includes identification of fire/ignition issues specific to the area;  
37 ○ incorporates NFDRS fuel models, slope classes (topography, and  
38 weather/climatology into Fire Danger Rating Areas (FDRAs); and  
39 ○ validates the existing weather station network and identifies any  
40 additional weather stations that support fire danger rating needs.  
41 ○ validates that each Remote Automated Weather Station (RAWS)  
42 meets the requirements of the *Interagency Wildland Fire Weather*  
43 *Station Standards and Guidelines* (PMS 426-3);
- 44 • **Operational Procedures**

- 1 This section establishes the procedures used to gather and process data in  
2 order to integrate fire danger rating information into decision processes.  
3 The network of fire weather stations whose observations are used to  
4 determine fire danger ratings is identified. Station maintenance  
5 responsibilities and schedules are defined.
- 6 ○ NFDRS offers several choices of fuel model and output to the user.  
7 Distinct selections of fuel model and index/component are appropriate  
8 for different management decisions (such as internal readiness or  
9 industrial and public restrictions). The choice of NFDRS fuel model  
10 and index or component used to determine fire danger ratings to  
11 support particular decisions is explained in this section.
  - 12 ○ NFDRS requires periodic management in order to produce appropriate  
13 results that are applied in a timely manner. Some daily observation  
14 variables (such as state of the weather) must be manually validated  
15 and published daily. This procedure is essential for the calculation of  
16 daily and forecasted NFDRS outputs in the Weather Information  
17 Management System (WIMS) and ensures weather data storage in the  
18 National Interagency Fire Management Integrated Database  
19 (NIFMID). These efforts are coordinated with the local National  
20 Weather Service fire weather meteorologists and Geographic Area  
21 Coordination Center (GACC) predictive services meteorologists to  
22 provide timely forecasted NFDRS outputs. Observed (today) and  
23 forecasted (tomorrow) NFDRS outputs are communicated daily. Live  
24 fuel moisture model inputs (such as herbaceous vegetation type/stage,  
25 season code, greenness factor) are adjusted seasonally in WIMS  
26 (<http://fam.nwcg.gov/fam-web/>) at appropriate times. Decision points  
27 are determined through analysis using FireFamily Plus and reviewed  
28 and adjusted annually or more often as appropriate in WIMS.
  - 29 ● **Climatic Breakpoints and Fire Business Thresholds**  
30 Climatological breakpoints and fire business thresholds are established to  
31 provide NFDRS-based decision points for all appropriate management  
32 responses in a Fire Danger Rating Area (FDRA). Climatological  
33 breakpoints are points on the cumulative distribution of one fire  
34 weather/danger index computed from climatology without regard for  
35 associated fire occurrence/business. For example, the value of the 90th  
36 percentile ERC is the climatological breakpoint at which only 10 percent of  
37 the ERC values are greater in value. Climatological percentiles are used for  
38 budgetary decisions by federal agencies.
    - 39 ○ BLM - 80th and 95th percentiles
    - 40 ○ FWS/NPS/FS - 90th and 97th percentiles
- 41  
42 It is important to identify the period or range of data analysis used to determine  
43 the agency percentiles. The percentile values for 12 months of data will be  
44 different from the percentile values for the fire season. Year round data should  
45 be used for percentiles for severity-related decisions, and percentiles based on

1 fire season data should be used for staffing levels and adjective fire danger  
2 rating.

3

4 It is equally important to recognize that these agency-specific climatological  
5 percentiles represent a method to describe a point during the year with respect to  
6 fire weather/danger indices computed from historical weather only.

7 Climatological percentiles do not incorporate the correlation of fire occurrence  
8 data.

9

10 Fire business thresholds are values of one or more fire weather/fire danger  
11 indices that have been statistically related to occurrence of fires (fire business).

12 Generally, the threshold is a range of weather/fire danger values where fire  
13 activity has significantly increased or decreased. Assuming that a  
14 comprehensive FireFamilyPlus analysis of historical weather and fire occurrence  
15 data is completed, fire business thresholds are expected to more closely predict  
16 large and/or multiple fire activity than climatological breakpoints.

17

### 18 **Staffing Level**

19 The Staffing Level is used to make daily internal fire operations decisions. The  
20 Staffing Level is the daily staffing of initial response resources, as opposed to  
21 the number of resources dispatched to an incident (see Initial Response Plan). A  
22 unit can operate with anywhere from 3 to 9 levels of staffing. Most units  
23 typically use 5 (1,2,3,4,5) or 6 (1,2,3L,3H,4,5) levels. Staffing Level is a direct  
24 output of the danger rating processor (WIMS) and is based on one of the  
25 following:

- 26 • NFDRS (Burning Index, Energy Release Component, Spread Component,  
27 or Ignition Component)
- 28 • Keetch-Byram Drought Index

29

30 Staffing levels only consider fire danger, while Preparedness Levels incorporate  
31 additional items, such as number of fires, incident management teams assigned,  
32 and resources committed.

33

### 34 **Adjective Fire Danger Rating**

35 Adjective Fire Danger Rating (low, moderate, high, very high, extreme) is based  
36 on the NFDRS index or component used to compute staffing level and the  
37 ignition component (the probability that a firebrand would cause a wildland  
38 fire). It is a general description of fire danger for the purpose of informing the  
39 public. Adjective ratings are computed automatically in the WIMS based on  
40 NFDRS parameters provided by local fire managers.

41

42 Climatological breakpoints and fire business thresholds are developed with  
43 NFDRS software, such as FireFamilyPlus, and are applied in the NFDRS  
44 processor, (WIMS), to determine daily staffing levels and adjective ratings.

45

**1 Preparedness Level Plans**

2

3 Preparedness Level Plans are required at the national, state/regional, and local  
4 levels. These plans address the five Preparedness Levels (1-5) and provide  
5 management direction based on identified levels of burning conditions, fire  
6 activity, and resource commitment/availability. Preparedness Level Plans may  
7 be developed by a state/regional office for agency-specific use.

8

9 Refer to the *National Interagency Mobilization Guide* and GACC Mobilization  
10 Guides for more information on Preparedness Level Plans.

11

**12 Step-up Plans**

13

14 Step-up Plans, (also called Staffing Plans), are designed to direct incremental  
15 preparedness actions in response to increasing fire danger. Each Step-up Plan  
16 should address the unit's chosen number of Staffing Levels, and the  
17 corresponding planned actions that are intended to mitigate those changing fire  
18 danger conditions. The Step-up Plan should be based on analysis completed as  
19 part of the unit's FDOP, and should be included as part of the FDOP.

20

21 The Step-up Plan describes escalating responses that are pre-approved in the  
22 FDOP and fire management plan. A Step-up Plan should also include  
23 supplemental preparedness actions. Supplemental preparedness actions are  
24 designed to enhance the unit's fire management capability during short periods  
25 (one burning period, Fourth of July, or other pre-identified events) where normal  
26 staffing cannot meet initial attack, prevention, or detection needs.

27

28 The difference between step-up and severity is that step-up actions are  
29 established in the unit FDOP and/or fire management plan and implemented by  
30 the unit when those pre-identified conditions are experienced. Severity is a  
31 longer duration condition that cannot be adequately dealt with under normal  
32 staffing, such as a killing frost converting live fuel to dead fuel or drought  
33 conditions. Severity is discussed later in this chapter.

34

35 Supplemental preparedness actions identified in the fire management plan or  
36 FDOP should include, but are not limited to, the following items:

- 37 • Management direction and considerations;
- 38 • Fire prevention actions, including closures/restrictions, media messages,  
39 signing, and patrolling;
- 40 • Prepositioning suppression resources;
- 41 • Cooperator discussion and/or involvement;
- 42 • Safety considerations: safety message, safety officer;
- 43 • Augmentation of suppression forces;

- 1 • Support function: consideration given to expanded dispatch activation,
- 2 initial attack dispatch staffing, and other support needs (procurement,
- 3 supply, ground support, and communication);
- 4 • Support staff availability outside of fire organization;
- 5 • Communication of Fire Weather Watch and Red Flag Warning conditions;
- 6 • Fire danger/behavior assessment;
- 7 • Briefings for management and fire suppression personnel;
- 8 • Fire information - internal and external;
- 9 • Multi-agency coordination groups/area command activation;
- 10 • Prescribed fire direction and considerations; and
- 11 • Increased detection activities.

12

### 13 **Initial Response Plans**

14

15 Initial response plans, also referred to as run cards or preplanned response plans,  
16 specify the fire management response (e.g. number and type of suppression  
17 assets to dispatch) within a defined geographic area to an unplanned ignition,  
18 based on fire weather, fuel conditions, fire management objectives, and resource  
19 availability.

20

21 Fire Management Officers will ensure that initial response plans (e.g. run cards,  
22 preplanned response) are in place and provide for initial response commensurate  
23 with guidance provided in the Fire Management Plan and Land/Resource  
24 Management Plan. Initial response plans will reflect agreements and annual  
25 operating plans, and will be reviewed annually prior to fire season. Initial  
26 response plans may be modified as needed during fire season to reflect the  
27 availability of national, prepositioned, and/or severity resources.

28

### 29 **Fire Danger PocketCard for Firefighter Safety**

30

31 Fire Danger PocketCards provide, through a graphical interpretation of daily fire  
32 danger, a means for firefighters to understand the fire potential for a given local  
33 area during any day of the fire season. Interagency PocketCards are encouraged  
34 in areas where multiple agencies share fire suppression responsibilities. Fire  
35 Danger PocketCards must adhere to the NWCG standard located at:  
36 <http://fam.nwcg.gov/fam-web/pocketcards/default.htm>

37

38 PocketCards can be updated as frequently as needed by downloading the  
39 additional weather observations, amending the Fire Family Plus database, and  
40 running new cards. PocketCards based on stations with a dataset of 10 years or  
41 less should be updated annually, while cards with more data (10 years or more)  
42 should be updated every other year.

43

- 1 Compliance with the standard, including quality, currency, and application of  
2 the PocketCard, is the responsibility of the local fire management unit.
- 3 • **BLM-** *BLM units will maintain Fire Danger PocketCards and ensure they*  
4 *are available to all personnel.*
  - 5 • **FS-** *Obtain Regional certification for Fire Danger PocketCards. Distribute*  
6 *PocketCards to each fireline supervisor on Type 3, 4, and 5 wildfires.*  
7 *Update and post the cards per the NWCG standard published on the*  
8 *website referenced above. Units have the option to do more frequent*  
9 *updates if they choose to do so.*

10

### 11 **XXX Seasonal Risk Analysis**

12

13 A Seasonal Risk Analysis (SRA) requires fire managers to review current and  
14 predicted weather and fuels information, compare this information with historic  
15 weather and fuels records, and predict the upcoming fire season's severity and  
16 duration for any given area. It is important to incorporate drought indices into  
17 this assessment.

18

19 Analysis information needed to complete SRAs are prepared, issued, and  
20 updated each year by GACC Predictive Service staffs. These analyses consider  
21 detailed information for each of the Predictive Services Areas (PSA) within the  
22 geographic area.

23

24 If the SRA suggests an abnormal fire season might be anticipated, a unit should  
25 notify the state/regional office and request additional resources commensurate  
26 with the escalated risk. Information from a SRA can be used to modify the  
27 Annual Operating Plan (AOP), step up and pre-attack plans. It provides the  
28 basis for actions such as prepositioning critical resources, requesting additional  
29 funding, or modifying Memoranda of Understanding (MOU) to meet anticipated  
30 needs.

31

32 As identified in the Fire Management Plan and/or Fire Danger Operating Plan,  
33 each unit selects, and compares to normal, the current value and seasonal trend  
34 of one or more of the following indicators which are most useful in predicting  
35 fire season severity and duration in its area:

- 36 • NFDRS (or CFFDRS) index values (ERC, BI);
- 37 • Temperature levels;
- 38 • Precipitation levels;
- 39 • Humidity levels;
- 40 • Palmer Drought or Standardized Precipitation Index;
- 41 • 1000-hour fuel moisture (timber fuels);
- 42 • Vegetation moisture levels;
- 43 • Live fuel moisture (brush fuels);
- 44 • Curing rate (grass fuels);

- 1 ● Episodic wind events (moisture drying days);
- 2 ● Unusual weather events (early severe frost); or
- 3 ● Fires to date.

4  
5 The seasonal trend of each selected indicator is graphically compared to normal  
6 and all time worst. This comparison is updated regularly and posted in dispatch  
7 and crew areas.

8  
9 Seasonal Assessment Workshops may be conducted to facilitate the  
10 development of seasonal outlook reports. Local SRAs should be compiled at the  
11 state/regional office to determine the predicted fire season severity within the  
12 state/region, and then forwarded to the respective national office for use in  
13 determining national fire preparedness needs. Risk analysis is ongoing. It  
14 should be reviewed periodically and revised when significant changes in key  
15 indicators occur. All reviews of Seasonal Risk Analyses, even if no changes are  
16 made, should be documented.

### 17 18 **XXX National Predictive Services Fire Potential Outlooks and Advisories**

#### 19 **XXX National Wildland Significant Fire Potential Outlook**

20 XXX The National Wildland Significant Fire Potential Outlook is prepared and  
21 distributed by NICC on the first day of each month. The report consists of  
22 outlooks for the next four months, divided into one month plus one month plus  
23 two month periods. Maps for each period display areas of below normal,  
24 normal, and above normal significant fire potential. The second (one month)  
25 and third (two months) periods will also show trends of increasing/decreasing to  
26 and from above and below normal. A brief synopsis of the current and predicted  
27 national situation is included in the report. National Wildland Significant Fire  
28 Potential Outlooks utilize information from individual GACC Predictive  
29 Services units, as well as other sources of climate, weather and fire danger data.  
30 The outlook will be posted on the first day of each month to the NICC  
31 Predictive Services webpage.

#### 32 33 **XXX 7-Day Significant Fire Potential Outlook**

34 XXX The 7-day Significant Fire Potential Outlook provides a week-long  
35 projection of fuels dryness, weather, fire potential, and firefighting resources  
36 information. It is issued daily when a Geographic Area is at Preparedness Level  
37 2 or higher (not including support-only periods). Each Geographic Area's  
38 Predictive Services unit will determine whether to produce a morning or  
39 afternoon routine issuance. Issuance times for each Area's outlook can be found  
40 in the Geographic Area Mobilization Guide and/or in its National Weather  
41 Service/Predictive Services Annual Operating Plan.

42  
43 XXX All the Geographic Area outlooks are viewable from  
44 <http://psgeodata.fs.fed.us/7day/>. The outlooks produced by the 11 Geographic

1 Area Predictive Services units are consolidated into a National 7-day Significant  
2 Fire Potential map located at: <http://psgeodata.fs.fed.us/staticmap.html>.

### 4 **XXX Fuel and Fire Behavior Advisories**

5 XXX Predictive Services and Coordination staff at all levels should be involved  
6 with the issuance of any fuels/fire behavior advisories covering a large  
7 percentage of their Geographic Area(s) so that they can carefully consider both  
8 the content and intended audience of the messages.

### 10 **XXX Local Unit Seasonal Tracking**

12 XXX As identified in the FMP and/or FDOP, each unit may select, and compare  
13 to normal, the current value and seasonal trend of one or more of the following  
14 indicators which are most useful in predicting fire season severity and duration  
15 in its area. FireFamilyPlus (FFP) is the recommended software to produce these  
16 products:

- 18 • NFDRS (or CFFDRS) index values (ERC, BI);
- 19 • Palmer Drought or Keetch-Byram Drought Index;
- 20 • 1000-hour fuel moisture , 100-hour fuel moisture;
- 21 • Live fuel moisture , Growing Season Index;

23 XXX The seasonal trend of each selected indicator is graphically compared to  
24 normal and all-time worst. This comparison is updated regularly and posted in  
25 dispatch and crew areas. The mechanism for comparing and displaying these  
26 items should be the PocketCard (strongly recommended) and FFP graphs, which  
27 have been developed and used at the local unit to inform and educate firefighters  
28 on local conditions. PocketCards and FFP graphs should use the same index and  
29 fuel model to display information so that the two can be easily compared.

31 XXX Local seasonal trends or assessments maybe compiled at the state/regional  
32 level to assist GACC predictive services and augment their assessments.  
33 Assessments should be reviewed periodically throughout the fire season and  
34 revised when significant changes in key indicators occur.

### 36 **Management Actions for Noncompliant Remote Automated Weather 37 Stations (RAWS)**

#### 39 **Noncompliance report**

40 A weekly report from Wildland Fire Management Information (WFMI) weather  
41 module displays Remote Automated Weather Stations (RAWS) that are more  
42 than 1 year and 45 days past their annual maintenance date. Fire weather  
43 stations are to be maintained annually per Interagency Wildland Fire Weather  
44 Station Standards & Guidelines (PMS 426-3). The report is widely distributed  
45 by email and available at <http://raws.fam.nwcg.gov/nfdrs.html>. If a RAWS is on

1 the report, it has either not had annual maintenance, or the documentation for  
2 annual maintenance has not been completed in WFMI. Data from these RAWS  
3 should not be used or used with caution.

4

#### 5 **Portable RAWS**

6 Fire managers should ensure that locally held portable RAWS are maintained  
7 prior to use; non-maintained portable RAWS will not be activated for data  
8 processing through WFMI weather.

9

- 10 • *BLM- Refer to Chapter 2 for more guidance.*

11

#### 12 **Fire Severity Funding**

13

14 Fire severity funding is the authorized use of suppression operations funds  
15 (normally used exclusively for suppression operations and distinct from  
16 preparedness funds) for extraordinary preparedness activities that are required  
17 due to:

- 18 • Preparedness plans (Fire Management Plan, Fire Danger Operating Plan,  
19 annual operating plan, etc.) indicate the need for additional  
20 preparedness/suppression resources. The plan(s) should identify thresholds  
21 for severity needs.
- 22 • Anticipated fire activity will exceed the capabilities of local resources.
- 23 • Fire seasons that either start earlier or last longer than planned in the fire  
24 management plan.
- 25 • An abnormal increase in fire potential or danger not planned for in existing  
26 preparedness plans.

27

28 The objective of fire severity funding is to mitigate losses due to extraordinary  
29 conditions by supplementing suppression response capability and provide for  
30 increased wildfire prevention activities.

31

32 When resources acquired through the approved fire planning process (e.g.  
33 NFMAS, IIAA, FPA) are insufficient to meet the extraordinary need, additional  
34 resources may be requested through the severity funding process.

35

36 Fire severity funding is not intended to:

- 37 • raise preparedness funding levels to cover differences that may exist  
38 between funds actually appropriated and those identified in the fire planning  
39 process, or
- 40 • mitigate threats to Threatened and Endangered Species habitat,  
41 wildland/urban interface, or other values identified in Land Use/Resource  
42 Management Plans.

43

#### 44 **Typical Uses**

45 Severity funds are typically used to:

10-10

Release Date: January 2015

- 1 • Increase prevention activities;
- 2 • Temporarily increase firefighting staffing;
- 3 • Pay for standby;
- 4 • Preposition initial attack suppression forces;
- 5 • Provide additional aerial reconnaissance; and
- 6 • Provide for standby aircraft availability.

7

### 8 **Authorization**

9 Authorization to use severity funding is provided in writing based on a written  
10 request with supporting documentation. Authorization is on a line item basis  
11 and comes with a severity cost code. Agencies will follow their administrative  
12 procedures for issuing severity cost codes. Authorization is provided for a  
13 maximum of 30 days per request; however, regardless of the length of the  
14 authorization, use of severity funding must be terminated when abnormal  
15 conditions no longer exist. If the fire severity situation extends beyond the 30-  
16 day authorization, the State/Region must prepare a new severity request.

17

### 18 **State/Regional Level Severity Funding**

19 Each fiscal year the national office will provide each state/region with funding  
20 and a severity cost code for state/regional short-term severity needs (e.g. wind  
21 events, cold dry front passage, lightning events, and unexpected events such as  
22 off road rallies) that are expected to last less than one week. Expenditure of  
23 these funds is authorized by the state/regional directors at the written request of  
24 the Agency Administrator. State/regional directors are responsible and  
25 accountable for ensuring that these funds are used only to meet severity funding  
26 objectives and that amounts are not exceeded. The national office will notify the  
27 state/regional director, state/regional budget officer, and the state/regional FMO  
28 when the severity cost code is provided.

- 29 • **BLM**- Refer to Chapter 2 and the BLM Fire Operations Website for  
30 additional short-term severity guidance.
- 31 • **FWS** –Refer to the Fire Management Handbook Chapter 10 for additional  
32 short-term severity guidance.
- 33 • **NPS** - Parks have the authority to approve “Step-up” actions only, as  
34 defined in their fire management plan. Regional offices approve severity  
35 (long term - up to 30 days) for parks up to \$100,000 per severity event.
- 36 • **FS** - Severity funding direction is found in FSM 5190.

37

### 38 **National Level Severity Funding**

39 National Agency Fire Directors or their delegates are authorized to allocate fire  
40 severity funding under specific conditions stated or referenced in this chapter.  
41 Expenditure of these funds is authorized by the appropriate approving official at  
42 the written request of the state/regional director. Approved severity funding will  
43 be used only for the preparedness activities and timeframes specifically outlined  
44 in the authorization, and only for the objectives stated above.

- 1 • *BLM- Refer to Chapter 2 and the BLM Fire Operations Website for*
- 2 *additional national severity guidance.*
- 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  
15 Severity funded personnel and resources must be available for immediate initial  
16 attack regardless of the daily task assignment. Severity funded personnel and  
17 resources will not use a severity cost code while assigned to wildfires. The  
18 wildfire firecode number will be used.

##### 20 **Vehicles and Equipment**

21 This includes:

- 22 • GSA lease rate and mileage;
- 23 • Hourly rate or mileage for Agency owned vehicles; and
- 24 • Commercial rentals and contracts.

##### 26 **Aviation**

27 This includes:

- 28 • Contract extensions;
- 29 • The daily minimum for call when needed (CWN) aircraft;
- 30 • Preposition flight time; and
- 31 • Support expenses necessary for severity funded aircraft (facility rentals,
- 32 utilities, telephones, etc.).

##### 34 **Travel and Per Diem**

35 Severity funded personnel in travel status are fully subsisted by the government  
36 in accordance with their agency regulations. Costs covered include:

- 37 • Lodging;
- 38 • Government provided meals (in lieu of per diem);
- 39 • Airfare (including returning to their home base);
- 40 • Privately owned vehicle mileage (with prior approval); and
- 41 • Other miscellaneous travel and per diem expenses associated with the
- 42 assignment.

##### 43 **Prevention Activities**

44 These include:

- 1 • Funding Prevention Teams (Preventions teams will be mobilized as
- 2 referenced in the *National Mobilization Guide*, Chapter 20)
- 3 • Implementing local prevention campaigns, to include community risk
- 4 assessments, mitigation planning, enforcement, outreach, and education
- 5 • Augmenting patrols
- 6 • Note: Non-fire funded prevention team members should charge base 8 and
- 7 overtime to the severity cost code for the length of the prevention activities
- 8 assignment. Fire funded personnel should charge overtime only to the
- 9 severity cost code for the length of the prevention activities assignment.

10

### 11 **Inappropriate Fire Severity Funding Charges**

- 12 • To cover differences that may exist between funds actually appropriated
- 13 (including rescissions) and those identified in the fire planning process
- 14 • Administrative surcharges, indirect costs, fringe benefits
- 15 • Equipment purchases
- 16 • Purchase, maintenance, repair, or upgrade of vehicles
- 17 ○ *FWS/NPS- Severity-related repair and maintenance of FWS and NPS*
- 18 *vehicles and equipment may be funded by severity because FWS and*
- 19 *NPS do not have a use rate covering these charges. These charges*
- 20 *must be approved by the National Office.*
- 21 • Purchase of radios
- 22 • Purchase of telephones
- 23 • Purchase of pumps, saws, and similar suppression equipment
- 24 • Aircraft availability during contract period
- 25 • Cache supplies which are normally available in fire caches
- 26 • Fixed ownership rate vehicle costs
- 27 • Incident Only Emergency Equipment Rental Agreements (EERAs) may not
- 28 be used for severity activities or hazardous fuels projects. Equipment that
- 29 has been solicited under competitive pre-season I-BPAs may be used on
- 30 nationwide fire suppression, all-hazard incidents, and severity activities.
- 31 Long term rehabilitation projects require a separate solicitation for
- 32 equipment.

33

### 34 **Interagency Requests**

35 Agencies working cooperatively in the same geographic area must work  
36 together to generate and submit joint requests, to minimize duplication of  
37 required resources, reduce interagency costs, and to utilize severity funded  
38 resources in an interagency manner. However, each agency should request  
39 funds only for its own agency specific needs. The joint request should be routed  
40 simultaneously through each agency's approval system, and the respective  
41 approving official will issue an authorization that specifies allocations by  
42 agency.

43

44

1 **Requesting Fire Severity Funding**

2 Each agency has established severity funding request protocols. The completed  
3 and signed request is submitted from the state/regional director to the  
4 appropriate approving official as per the sequence of action outlined below.  
5 Authorizations will be returned in writing.  
6 Severity funding request information for all agencies can be found at  
7 [http://www.nifc.gov/policies/pol\\_severity\\_funding.html](http://www.nifc.gov/policies/pol_severity_funding.html)  
8

9 **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

10

11 **Labor Cost Coding For Severity Funded Personnel**

12 Fire preparedness personnel outside their normal activation period, employees  
13 whose regular salary is not fire funded, and Administratively Determined (AD)  
14 employees hired under an approved severity request should charge regular time  
15 and approved non-fire overtime to the severity suppression operations  
16 subactivity and the requesting office's severity cost code.  
17 Fire preparedness personnel should charge their regular planned salary (base-  
18 eight) to their budgeted subactivity using their home unit's location code.

1 Overtime associated with the severity request should be charged to the severity  
2 suppression operations subactivity and the requesting office's severity cost code.

3  
4 Regular hours worked in suppression operations will require the use of the  
5 appropriate fire subactivity with the appropriate firecode number. Overtime in  
6 fire suppression operations will be charged to the suppression operations  
7 subactivity with the appropriate firecode number.

8  
9 Employees from non-federal agencies should charge their time in accordance  
10 with the approved severity request and the appropriate local and statewide  
11 agreements. An interagency agreement for reimbursement must be established.  
12 The Interagency Agreement for Fire Management can be used as a template.

13

#### 14 **Documentation**

15 The state/regional and national office will document and file accurate records of  
16 severity funding activity. This will include complete severity funding requests,  
17 written authorizations, and expenditure records.

18

#### 19 **Severity Funding Reviews**

20 State/regional and national offices should ensure appropriate usage of severity  
21 funding and expenditures. This may be done as part of their normal agency fire  
22 program review cycle.

23

#### 24 **Fire Prevention/Mitigation**

25

#### 26 **Wildland Fire Cause Determination & Fire Trespass**

27 Refer to Chapter 18 for guidance.

28

#### 29 **Wildland Fire Mitigation and Prevention**

30 Fire programs are required to fund and implement unit level Fire Prevention  
31 Plans by completing a wildland mitigation/prevention assessment. The purpose  
32 of this is to reduce unwanted human caused ignitions, to reduce damages and  
33 losses caused by unwanted wildland fires, to reduce unnecessary risk to  
34 firefighters, and to reduce the suppression costs of wildland fires. As weather  
35 and fuel conditions move from average to above average or severe, and/or  
36 human activity increases, mitigation and prevention activities must be  
37 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 the occurrence of  
43 unwanted human caused fires.

- 1 • **BLM**-Refer to the *BLM Wildland Fire Prevention, Education and*
- 2 *Mitigation Planning Guide* available at:
- 3 *[http://www.blm.gov/nifc/st/en/prog/fire/fuelsmgmt/fire\\_prevention\\_and.html](http://www.blm.gov/nifc/st/en/prog/fire/fuelsmgmt/fire_prevention_and.html)*
- 4 • **NPS**- Only units that experience more than an average of 26 human caused
- 5 *fires per ten-year period are required to develop a fire prevention plan.*
- 6 • **FS** –Refer to *FSM 5110 and 5300.*

## 8 **Professional Liability Insurance**

9  
10 Public Law 110-161 provides for reimbursement for up to one half of the cost  
11 incurred for professional liability insurance (including any administrative  
12 processing cost charged by the insurance company) for temporary fire line  
13 managers, management officials, and law enforcement officers.

14  
15 To qualify for reimbursement, “temporary fire line managers” must meet one of  
16 the following three criteria:

- 17 • Provide temporary supervision or management of personnel engaged in
- 18 wildland fire activities;
- 19 • Provide analysis or information that affects a supervisor’s or manager’s
- 20 decision about a wildland fire;
- 21 • Direct the deployment of equipment for a wildland fire, such as a base camp
- 22 manager, an equipment manager, a helicopter coordinator, or an initial
- 23 attack dispatcher.
- 24 ○ **DOI** – see *Personnel Bulletin No. 08-07, March 20, 2008*
- 25 ○ **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/national-response-framework>.

### National Incident Management System

The National Wildfire Coordinating Group (NWCG) follows the National Incident Management System (NIMS), which is a component of the National Response Framework. NIMS provides a universal set of structures, procedures, and standards for agencies to respond to all types of emergencies. NIMS will be used to complete tasks assigned to the interagency wildland fire community under the National Response Framework.

### Incident Management and Coordination Components of NIMS

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 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.

### Wildfire Complexity

Wildfires 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 a Risk and Complexity Assessment (Refer to samples in appendix E & F).

1 Incidents not meeting the recommended incident typing characteristics in the  
2 *Wildland Fire Incident Management Field Guide* (PMS 210) and later in this  
3 chapter should have a documented Risk and Complexity Assessment (Appendix  
4 E) verifying the command organization is appropriate.

5

#### 6 **Wildfire Risk and Complexity Assessment**

7 The National Wildfire Coordinating Group has adopted the Risk and  
8 Complexity Assessment (RCA) **XXX form** as a replacement for the Incident  
9 Complexity Analysis **XXX form** and the Organizational Needs Assessment  
10 **XXX form**. The RCA assists personnel with evaluating the situation, objectives,  
11 risks, and management considerations of an incident and recommends the  
12 appropriate organization necessary to manage the incident. The Risk and  
13 Complexity Assessment is found in Appendix E.

14

15 The RCA also includes common indicators of incident complexity to assist  
16 firefighters and managers with determining incident management organizational  
17 needs. These common indicators are found in Appendix F.

18

19 **XXX The RCA can be used to populate the Relative Risk Assessment and**  
20 **Organization Assessment portions of the Wildland Fire Decision Support**  
21 **System (WFDSS).**

22

23 The RCA is also available at: <http://www.nwcg.gov/pms/pubs/pms210/>

24

### 25 **Command Organizations**

26

#### 27 **Incident Command**

28 All wildfires, regardless of complexity, will have an Incident Commander (IC).  
29 The IC is a single individual responsible to the Agency Administrator(s) for all  
30 incident activities. ICs are qualified according to the NWCG *Wildland Fire*  
31 *Qualifications Systems Guide* PMS 310-1 (NFES # 310-1) and any additional  
32 agency requirements. The IC may assign personnel to any combination of ICS  
33 functional area duties in order to operate safely and effectively. ICS functional  
34 area duties should be assigned to the most qualified or competent individuals  
35 available.

36

37 Incident Commanders are responsible for:

- 38 • Obtaining a Delegation of Authority and/or expectations to manage the  
39 incident from the Agency Administrator. For Type 3, 4, or 5 incidents,  
40 delegations/expectations may be written or oral;
  - 41 ○ **XXX BLM- BLM District/Field Managers will provide a written**  
42 **Delegation of Authority and/or expectations to the unit's Type 3, 4, and**  
43 **5 Incident Commanders annually prior to fire season.**
- 44 • Ensuring that safety receives priority consideration in all incident activities,  
45 and that the safety and welfare of all incident personnel and the public is  
46 maintained;

- 1 • Assessing the incident situation, both immediate and potential;
- 2 • Maintaining command and control of the incident management  
3 organization;
- 4 • Ensuring transfer of command is communicated to host unit dispatch and to  
5 all incident personnel;
- 6 • Developing incident objectives, strategies, and tactics;
- 7 • Developing the organizational structure necessary to manage the incident;
- 8 • Approving and implementing the Incident Action Plan, as needed;
- 9 • Ordering, deploying, and releasing resources;
- 10 • Ensuring incident financial accountability and expenditures meet agency  
11 policy and standards; and
- 12 • Ensuring incident documentation is complete.

13

14 For purposes of initial attack, the first IC on scene qualified at any level will  
15 assume the duties of initial attack IC. The initial attack IC will assume the  
16 duties and have responsibility for all suppression efforts on the incident up to  
17 his/her level of qualification until relieved by an IC qualified at a level  
18 commensurate with incident complexity.

19

20 As an incident escalates **XXX and de-escalates**, a continuing reassessment of  
21 **XXX the** complexity **XXX level** should be completed to validate the current  
22 command organization or identify the need for a **XXX higher different** level of  
23 incident management.

24

25 An IC is expected to establish the appropriate organizational structure for each  
26 incident and manage the incident based on his/her qualifications, incident  
27 complexity, and span of control. If the incident complexity exceeds the  
28 qualifications of the current IC, the IC must continue to manage the incident  
29 within his/her capability and span of control until replaced.

30

### 31 **On-site Command Organizations**

32 Command organizations responsible for incident management include:

- 33 • Type 5 Incident Command;
- 34 • Type 4 Incident Command;
- 35 • Type 3 Incident Command;
- 36 • Type 2 Incident Command;
- 37 • Type 1 Incident Command;
- 38 • National Incident Management Organizations (NIMO);
- 39 • Area Command; and
- 40 • Unified Command.

41

42

43

44

45

**1 Incident Characteristics**

2

**3 Type 5 Incident Characteristics**

- 4 • Ad hoc organization managed by a Type 5 Incident Commander.
- 5 • Primarily local resources used.
- 6 • ICS command and general staff positions are not activated.
- 7 • Resources vary from two to six firefighters.
- 8 • Incident is generally contained within the first burning period and often
- 9 within a few hours after resources arrive on scene.
- 10 • Additional firefighting resources or logistical support are not usually
- 11 required.
- 12 • May require a Published Decision in WFDSS.

13

**14 Type 4 Incident Characteristics**

- 15 • Ad hoc organization managed by a Type 4 Incident Commander.
- 16 • Primarily local resources used.
- 17 • ICS command and general staff positions are not activated.
- 18 • Resources vary from a single resource to multiple resource task forces or
- 19 strike teams.
- 20 • Incident is usually limited to one operational period. However, incidents
- 21 may extend into multiple operational periods.
- 22 • Written Incident Action Plan (IAP) is not required. A documented
- 23 operational briefing will be completed for all incoming resources. Refer to
- 24 the *Incident Response Pocket Guide* for a briefing checklist.
- 25 • May require a Published Decision in WFDSS or other decision support
- 26 document.

27

**28 Type 3 Incident Characteristics**

- 29 • Ad hoc or pre-established Type 3 organization managed by a Type 3
- 30 Incident Commander.
- 31 • The IC develops the organizational structure necessary to manage the
- 32 incident. Some or all of ICS functional areas are activated, usually at the
- 33 Division/Group Supervisor and/or unit leader level.
- 34 • The incident complexity analysis process is formalized and certified daily
- 35 with the jurisdictional agency. It is the IC's responsibility to continually
- 36 reassess the complexity level of the incident. When the assessment of
- 37 complexity indicates a higher complexity level, the IC must ensure that
- 38 suppression operations remain within the scope and capability of the
- 39 existing organization and that span of control is consistent with established
- 40 ICS standards.
- 41 • Local and non-local resources used.
- 42 • Resources vary from several resources to several task forces/strike teams.
- 43 • May be divided into divisions.
- 44 • May require staging areas and incident base.
- 45 • May involve low complexity aviation operations.

11-4

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- 1 • May involve multiple operational periods prior to control, which may
- 2 require a written Incident Action Plan (IAP).
- 3 • Documented operational briefings will occur for all incoming resources and
- 4 before each operational period. Refer to the *Incident Response Pocket*
- 5 *Guide* for a briefing checklist.
- 6 • ICT3s will not serve concurrently as a single resource boss or have any non-
- 7 incident related responsibilities.
- 8 • May require a Published Decision in WFDSS.
- 9 • May require a written Delegation of Authority.

10  
11 **Type 3 Incident Command**

12 When ICT3s are required to manage an incident, they must not have concurrent  
13 responsibilities that are not associated with the incident and they must not  
14 concurrently perform single resource boss duties.

15  
16 ~~XXX The NWCG has not established Command and General Staff positions at~~  
17 ~~the Type 3 complexity level, with the exception of Incident Commander Type 3~~  
18 ~~(ICT3). However, a Type 3 incident may require additional functional positions~~  
19 ~~to assist the Incident Commander.~~

20  
21 XXX In 2014, NWCG established the following Type 3 General Staff  
22 qualifications in the PMS 310-1: OPS3, LSC3, PSC3, FSC3. The establishment  
23 of these positions does not preclude the use of the minimum qualification  
24 standards described in the table below.

25  
26 The following table lists ~~XXX and~~ minimum qualification requirements for  
27 ~~XXX these~~ functional responsibilities ~~XXX~~ to manage a Type 3 incident.  
28 Activation of these functions is at the discretion of the Incident Commander.

29

Type 3 Functional Responsibility	XXX Specific 310-1 or Equivalent Minimum Qualification Standards XXX Required to Perform ICS Functions at Type 3 Level
Incident Command	Incident Commander Type 3 (ICT3)
Safety	Line Safety Officer (SOFR)
Operations	Task Force Leader (TFLD)
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

2 XXX Type 3 experience that is input into the Incident Qualification and  
 3 Certification System (IQCS) will not exceed an individual's current Incident  
 4 Qualification XXX Card.

5

### 6 **Type 2 Incident Characteristics**

- 7 • Pre-established incident management team managed by Type 2 Incident  
 8 Commander.
- 9 • ICS command and general staff positions activated.
- 10 • Many ICS functional units required and staffed.
- 11 • Geographic and/or functional area divisions established.
- 12 • Complex aviation operations.
- 13 • Incident command post, base camps, staging areas established.
- 14 • Incident extends into multiple operational periods.
- 15 • Written Incident Action Plan required for each operational period.
- 16 • Operations personnel often exceed 200 per operational period and total  
 17 personnel may exceed 500.
- 18 • Requires a Published Decision in WFDSS or other decision support  
 19 document.
- 20 • Requires a written Delegation of Authority to the Incident Commander.

21

### 22 **Type 2 Incident Command**

23 These ICs command pre-established Incident Management Teams that are  
 24 configured with ICS Command Staff, General Staff and other leadership and  
 25 support positions. Personnel performing specific Type 2 command and general  
 26 staff duties must be qualified at the Type 1 or Type 2 level according to the 310-  
 27 I standards and any additional agency requirements.

28

### 29 **Type 1 Incident Characteristics**

- 30 • Pre-established Incident Management Team managed by Type 1 Incident  
 31 Commander.
- 32 • ICS command and general staff positions activated.
- 33 • Most ICS functional units required and staffed.
- 34 • Geographic and functional area divisions established.
- 35 • May require branching to maintain adequate span of control.
- 36 • Complex aviation operations.
- 37 • Incident command post, incident camps, staging areas established.
- 38 • Incident extends into multiple operational periods.
- 39 • Written Incident Action Plan required for each operational period.

- 1 • Operations personnel often exceed 500 per operational period and total
- 2 personnel may exceed 1000.
- 3 • Requires a Published Decision in WFDSS or other decision support
- 4 document.
- 5 • Requires a written Delegation of Authority to the Incident Commander.

6

### 7 **Type 1 Incident Command**

8 These ICs command pre-established Incident Management Teams that are  
9 configured with ICS Command Staff, General Staff and other leadership and  
10 support positions. Personnel performing specific Type 1 Command and General  
11 Staff duties must be qualified at the Type 1 level according to the PMS 310-1  
12 standards and any additional agency requirements.

13

## 14 **Incident Management Teams**

15

### 16 **Area Command**

17 Area Command is an Incident Command System organization established to:

- 18 • **Oversee the management of large or multiple incidents to which several**  
19 **Incident Management Teams have been assigned. Area Command may**  
20 **become Unified Area Command when incidents are multi-jurisdictional;**  
21 **XXX or**
- 22 • **Provide strategic support and coordination services to decision makers such**  
23 **as Geographic Area MAC Groups, sub-geographic area MAC Groups,**  
24 **Agency Administrators, Geographic Area Coordination Centers, emergency**  
25 **operations centers, agency operations centers, or FEMA Joint Field Offices.**

26

27 The **XXX primary** determining factor for establishing area command is the span  
28 of control of the Agency Administrator.

29

30 National Area Command teams are managed by the National Multi-Agency  
31 Coordinating Group (NMAC) and are comprised of the following:

- 32 • Area Commander (ACDR);
- 33 • Assistant Area Commander, Planning (AAPC);
- 34 • Assistant Area Commander, Logistics (AALC); and
- 35 • Area Command Aviation Coordinator (ACAC).

36

37 Depending on the complexity of the interface between the incidents, **XXX other**  
38 **specialists XXX may also be assigned in XXX-other** areas such as aviation  
39 safety, information, **XXX long-term fire planning, and risk assessment and**  
40 **analysis.**

41 Area Command functions **XXX typically** include:

- 42 • **XXX Establish** Establishing overall strategy, objectives, and priorities for  
43 the incident(s) under its command;

- 1 • ~~XXX Allocate~~ Allocating critical resources according to XXX agency
- 2 priorities XXX (i.e. aircraft, IHCs, incident support needs such as medical
- 3 services, communication and internet operability equipment);
- 4 • ~~XXX Ensure~~ Ensuring that incidents are properly managed;
- 5 • ~~XXX Coordinate~~ Coordinating mobilization, team transitions, and
- 6 demobilization;
- 7 • ~~XXX Supervise, manage, and evaluate~~ Supervising, managing, and
- 8 evaluating Incident Management Teams under its command; and
- 9 • ~~XXX Minimize~~ minimizing duplication of effort and optimize effectiveness
- 10 by combining multiple agency efforts under a single Area ~~XXX Action or~~
- 11 ~~Geographic Theater~~ Plan.

12  
13

#### 14 **Type 1 Incident Management Teams**

15 Type 1 Teams are managed by Geographic Area Multi-Agency Coordinating  
16 Groups and are mobilized by the Geographic Area Coordination Centers. At  
17 national preparedness levels 4 and 5, these teams are managed by the National  
18 Multi-Agency Coordinating Group (NMAC).

19

#### 20 **National Incident Management Organization (NIMO)**

21 NIMO Teams are managed by the Forest Service ~~XXX Fire and Aviation's~~  
22 Washington Office and are ordered thru the NICC. The mission of NIMO is to  
23 promote continuous improvement by introducing innovative concepts,  
24 approaches, and technologies while providing adaptive and agile incident  
25 management. The NIMO Coordinator can assist ordering units to order teams in  
26 short or long configurations, customized configuration for special capabilities,  
27 and managing long duration incidents.

28

29 NIMO's standard configuration consists of seven Command and General Staff  
30 positions qualified ~~XXX up to a~~ at the Type 1 level. If ~~XXX desired~~ needed,  
31 ~~XXX a NIMO Long Team can be ordered which consists of 27 standard Long~~  
32 ~~Team positions~~ NIMO can expand to meet various complexity levels.

33

34 ~~XXX Typical~~ Types of NIMO assignments include:

- 35 • National or Geographic Area/Regional support to provide strategic planning
- 36 assistance, during incident review, and feedback.
- 37 • ~~XXX Work with Type 2 candidates on Type 1 incidents for successional~~
- 38 ~~planning.~~
- 39 • To serve as mentors, trainers and evaluators on a Type 2 or Type 3 incident
- 40 ~~XXX or designated projects.~~
- 41 • Manage multiple ~~XXX Type 3~~ ignitions within ~~XXX a GACC by using~~
- 42 ~~"Theater" level management~~ an area (i.e. GACC, Forest, Zone).
- 43 • Support and mentoring to an Agency Administrator with a complex fire
- 44 situation.
- 45 • International Assignments

- 1 • All-hazard Incidents
- 2 • Mission Specific Assignments – NIMO will continue to assist Forest
- 3 Service units and other agencies with special missions. Examples from the
- 4 past include R2 Bark Beetle, R5 Marijuana Eradication, XXX and R5
- 5 Station Fire BAER or support to Regions as a force multiplier during higher
- 6 planning/activity levels.

## 8 **Type 2 Incident Management Teams**

9 Most Type 2 teams are managed by Geographic Area Multi-Agency  
10 Coordinating Groups and are coordinated by the Geographic Area Coordination  
11 Centers. Some Type 2 teams are managed by non-federal agencies (e.g. state or  
12 local governments) and availability of these teams is determined on a case by  
13 case basis.

## 15 **Unified Command**

16 Unified Command is an application of the Incident Command System used  
17 when there is more than one agency with incident jurisdiction or when incidents  
18 cross political jurisdictions. Under Unified Command, agencies work together  
19 through their designated Incident Commanders at a single incident command  
20 post to establish common objectives and issue a single Incident Action Plan.  
21 Unified Command may be established at any level of incident management or  
22 area command. Under Unified Command, all agencies with jurisdictional  
23 responsibility at the incident contribute to the process of:

- 24 • Determining overall strategies;
- 25 • Selecting alternatives;
- 26 • Ensuring that joint planning for tactical activities is accomplished; and
- 27 • Maximizing use of all assigned resources.

28  
29 Advantages of Unified Command are:

- 30 • A single set of objectives is developed for the entire incident;
- 31 • A collective approach is used to develop strategies to achieve incident
- 32 objectives;
- 33 • Information flow and coordination is improved between all jurisdictions and
- 34 agencies involved in the incident;
- 35 • All involved agencies have an understanding of joint priorities and
- 36 restrictions; and
- 37 • No agency's legal authorities will be compromised or neglected.

## 39 **Coordination and Support Organizations**

40  
41 Organizations that provide coordination and support to on-site command  
42 organizations include:

- 43 • Initial Attack Dispatch;
- 44 • Expanded Dispatch;
- 45 • Buying/Payment Teams;

- 1 • National and Geographic Area Coordination Centers (refer to Chapter 8);
- 2 • Local, Geographic Area, and National Multi-Agency Coordinating (MAC)
- 3 Groups.

4  
5 Refer to Chapter 19 for Initial Attack and Expanded Dispatch information.

#### 6 7 **Buying/Payment Teams**

8 Buying/Payment Teams support incidents by procuring services, supplies, and  
9 renting land, facilities, and equipment. These teams may be ordered when  
10 incident support requirements exceed local unit capacity. These teams report to  
11 the Agency Administrator or the local unit administrative officer. See the  
12 *Interagency Incident Business Management Handbook* for more information.

#### 13 14 **Multi-Agency Coordination (MAC)**

15 Multi-Agency Coordination Groups are part of the National Interagency  
16 Incident Management System (NIIMS) and are an expansion of the off-site  
17 coordination and support system. MAC groups are activated by the Agency  
18 Administrator(s) when the character and intensity of the emergency situation  
19 significantly impacts or involves other agencies. A MAC group may be  
20 activated to provide support when only one agency has incident(s). The MAC  
21 group is made up of agency representatives who are delegated authority by their  
22 respective Agency Administrators to make agency decisions and to commit  
23 agency resources and funds. The MAC group relieves the incident support  
24 organization (dispatch, expanded dispatch) of the responsibility for making key  
25 decisions regarding prioritization of objectives and allocation of critical  
26 resources. The MAC group makes coordinated Agency Administrator level  
27 decisions on issues that affect multiple agencies. The MAC group is supported  
28 by situation, resource status and intelligence units who collect and assemble data  
29 through normal coordination channels.

30  
31 MAC group direction is carried out through dispatch and coordination center  
32 organizations. When expanded dispatch is activated, the MAC group direction  
33 is carried out through the expanded dispatch organization. The MAC group  
34 organization does not operate directly with Incident Management Teams or with  
35 Area Command Teams, which are responsible for on-site management of the  
36 incident.

37  
38 MAC groups may be activated at the local, geographic, or national level.  
39 National level and Geographic Area level MAC groups should be activated in  
40 accordance with the preparedness levels criteria established in the National and  
41 Geographic Area Mobilization Guides.

42  
43 The MAC Group Coordinator facilitates organizing and accomplishing the  
44 mission, goals and direction of the MAC group. The MAC group coordinator:

- 45 • Provides expertise on the functions of the MAC group and on the proper
- 46 relationships with dispatch centers and incident managers;

- 1 • Fills and supervises necessary unit and support positions as needed, in
  - 2 accordance with coordination complexity;
  - 3 • Arranges for and manages facilities and equipment necessary to carry out
  - 4 the MAC group functions;
  - 5 • Facilitates the MAC group decision process; and
  - 6 • Implements decisions made by the MAC group.
- 7 Activation of a MAC group improves interagency coordination and provides for
- 8 allocation and timely commitment of multi-agency emergency resources.
- 9 Participation by multiple agencies in the MAC effort will improve:
- 10 • Overall situation status information;
  - 11 • Incident priority determination;
  - 12 • Resource acquisition and allocation;
  - 13 • State and Federal disaster coordination;
  - 14 • Political interfaces;
  - 15 • Consistency and quality of information provided to the media and involved
  - 16 agencies; and
  - 17 • Anticipation of future conditions and resource needs.

### 18

### 19 **Wildland Fire Decision Support System (WFDSS)**

### 20

21 The Wildland Fire Decision Support System (WFDSS) is a web-based decision

22 support system that provides a single dynamic documentation system for use

23 beginning at the time of discovery and concluding when the fire is declared out.

24 WFDSS allows the Agency Administrator to describe the fire situation, create

25 Incident Objectives and Requirements, develop a Course of Action, **XXX**

26 **evaluate risks, evaluate Relative Risk, complete an Organization Assessment,**

27 **and publish a decision.**

28

29 For detailed information on the tools and capabilities in WFDSS, **XXX and** how

30 managers may use the tools, **XXX and suggested WFDSS refresher training**

31 **items,** refer to Appendix N.

32

33 **XXX The Integrated Reporting of Wildland fire Information (IRWIN) system**

34 **transfers information to and from other fire applications, including WFDSS,**

35 **through IRWIN. IRWIN initiates all fires in WFDSS automatically.**

36

37 WFDSS will be used for decision support documentation for all fires that escape

38 initial attack, **XXX or** exceed initial response, **XXX or are being managed for**

39 **multiple objectives.** These incidents will have a Published Decision within

40 WFDSS. A Published WFDSS Decision establishes objectives, a Course of

41 Action and Rationale for incidents with varying duration, spread potential, costs,

42 or other considerations. The level of documentation to publish a decision should

43 be commensurate to the incident duration, spread potential, cost, or Relative

44 Risk. Agency-specific direction established in memos or other policy

45 documents may further define WFDSS documentation requirements.

1  
2 Reference the NWCG memorandum # 012-2011, “Wildland Fire Decision  
3 Support System (WFDSS) Decision Documentation and GACG  
4 Responsibilities” for NWCG guidance on decision publication.

- 5 ● *BLM-Refer to Chapter 2 for additional requirements for WFDSS*  
6 *implementation.*
- 7 ● *NPS- Refer to Chapter 3 for additional requirements for WFDSS*  
8 *implementation.*

### 9 10 **Initial Decision**

11 An initial decision should be published within 24 hours after the determination  
12 that a Published Decision is needed, or within 24 hours of requesting an incident  
13 management team.

14  
15 Considerations for determining that a decision is needed include:

- 16 ● The fire has not been contained by initial attack resources dispatched to the  
17 fire;
- 18 ● The fire will not have been contained within the initial attack management  
19 objectives established for that zone or area according to the unit’s planning  
20 documents;
- 21 ● The Incident Objectives include both protection and resource benefit  
22 elements consistent with land management planning documents;
- 23 ● The fire affects or is likely to affect more than one agency or more than one  
24 administrative unit within a single agency (for example more than one  
25 National Forest);
- 26 ● The fire is burning into or expected to burn into wildland-urban interface.
- 27 ● Significant safety or other concerns such as air quality are present or  
28 anticipated;
- 29 ● The Relative Risk Assessment indicates the need for additional evaluation  
30 and development of best management practices for achieving land and  
31 resource objectives; and
- 32 ● The criteria for Flame Act funding are anticipated to be met and  
33 documentation will be needed.

### 34 35 **New Decision**

36 As incident complexity increases or decreases, it may become necessary for  
37 additional supporting analyses to inform decision making. If additional analysis  
38 indicates the decision needs modification, a new decision is required.  
39 Depending on the complexity of the incident, a new decision should be  
40 published within 2-3 days for less complex incidents and within 4-7 days for  
41 more complex incidents. The same criteria above plus the following  
42 considerations can guide determinations about publishing a new decision:

- 43 ● The Periodic Assessment indicates the Course of Action is no longer valid;
- 44 ● The management needs of the incident exceed existing capability;

- 1 • The expected costs of incident management exceed the estimated costs in
- 2 the initial Decision or agency-established thresholds for level of approval
- 3 authority;
- 4 • The fire moves or is expected to move beyond the Planning Area analyzed;
- 5 • Management Action Points have been established since the initial Decision
- 6 was published and additional information is needed to further manage the
- 7 incident over time; and
- 8 • The line officer is considering ordering an IMT.

9  
 10 Additional information about WFDSS can be found in Appendix N. User  
 11 support information, training materials, and other resources can be found at the  
 12 WFDSS homepage. <http://wfdss.usgs.gov/>

13  
 14 **WFDSS Decision Approval and Publication**

15 Decisions in WFDSS are approved and published by the appropriate Line  
 16 Officer as defined in the tables below. Incident privileges must be assigned  
 17 within WFDSS to designate the Approver(s). During the approval process, prior  
 18 to publishing a decision, the Periodic Assessment timeframe can be set from 1 to  
 19 14 days.

20  
 21 It is imperative that a decision be reviewed carefully as once approved and  
 22 published, a decision becomes a system of record and all WFDSS users can  
 23 view the information. Additionally, the action CANNOT be undone. If there is  
 24 an error in the information, or new information is added for documentation or  
 25 update (i.e. fire behavior, Management Action Points) a new decision must be  
 26 published to officially update the record.

27  
 28 All agencies having jurisdiction included in a WFDSS Planning Area should be  
 29 notified prior to publication of a decision.

30 **WFDSS Approval Requirements by Agency**

31  
 32 **DOI WFDSS Approval Requirements**

Cost Estimate <sup>1</sup>	WFDSS Approval
Less Than \$5 Million	BIA Agency Superintendent, NPS Park Superintendent, FWS Refuge Manager, BLM District/Field Manager <sup>3</sup>
\$5 Million - \$10 Million	BIA/NPS/FWS Regional Director <sup>2</sup> ; BLM District/Field Manager <sup>3</sup>
Greater Than \$10 Million	BIA/NPS/FWS National Director <sup>2</sup> ; BLM District/Field Manager <sup>3</sup>

33  
 34  
 35  
 36

1

**USFS WFDSS Approval Requirements**

Incident Type	USFS Approval
Type 3,4,5	District Ranger level with oversight by the Forest Supervisor
Type 2	Forest Supervisor level with oversight by the Regional Forester <sup>4</sup>
Type 1	Regional Forester level with National oversight <sup>4</sup>

2 **DOI-** Cost estimate should be based on proportionate agency share of the  
3 estimated final cost of the incident. For example, on a \$20 million fire managed  
4 by a Type 1 IMT that is 98% FS, 1% BLM, and 1% NPS, the USFS Regional  
5 Forester and the BLM and NPS local Agency Administrators would be the  
6 approving officials in a jointly published WFDSS decision.

7 **BIA/NPS/FWS-** Regional Directors and National Director may delegate  
8 WFDSS approval authority as per agency policy.

9 **BLM-** District/Field Managers will approve WFDSS decisions and provide  
10 written notification to the state and/or national director when approaching \$5  
11 million and/or \$10 million cost estimates. Refer to Chapter 2 for additional  
12 information regarding delegation of WFDSS approval.

13 **FS-** This authority may be delegated to the next lower level provided that the  
14 line officer at the lower next level meets Line Officer wildfire response  
15 certification requirements.

16

**WFDSS Support**

17 The Wildland Fire Management Research Development and Application (WFM  
18 RD&A) group provides the national infrastructure for wildland fire decision  
19 making and WFDSS support. Field users should contact their WFDSS  
20 Geographic Area Editor for assistance prior to contacting WFM RD&A.  
21 Information for requesting assistance from WFM RD&A can be found at the  
22 WFDSS homepage at <http://wfdss.usgs.gov/>

23

**Managing the Incident**

24

**XXX Agency Administrator Definition**

25 XXX An Agency Administrator is the official responsible for the management  
26 of a geographic unit or functional area. Agency Administrators are the  
27 managing officer of an agency, division thereof, or jurisdiction having statutory  
28 responsibility for incident mitigation and management. Some examples include:  
29 NPS Park Superintendent, BIA Agency Superintendent, USFS Forest  
30 Supervisor, BLM District Manager, FWS Refuge Manager, State Forester,  
31 Tribal Chairperson, Fire Chief, Police Chief

32

33

34

35

36

### 1 Agency Administrator Responsibilities

2 The Agency Administrator (AA) manages the land and resources on their  
3 organizational unit according to the established land management plan. Fire  
4 management is part of that responsibility.

5

6 Agency Administrators are responsible for safety oversight, and may request  
7 additional safety oversight as needed.

8

9 Situations that may require additional safety oversight:

- 10 ● A fire escapes initial attack or when extended attack is probable;
- 11 ● There is complex or critical fire behavior;
- 12 ● There is a complex air operation;
- 13 ● The fire is in an urban intermix/interface; and
- 14 ● Other extraordinary circumstances.

15 The AA establishes specific performance objectives for the Incident  
16 Commander (IC) and delegates the authority to the IC to take specific actions to  
17 meet those objectives. AA responsibilities to an Incident Management Team  
18 (IMT) include:

- 19 ● Conduct an initial briefing to the Incident Management Team (appendix D);
- 20 ● Provide an approved WFDSS Decision;
  - 21 ○ *FS - Ensure that significant decisions related to strategy and costs are*
  - 22 *included in WFDSS.*
- 23 ● Complete a Risk and Complexity Assessment (Appendix E & F) to  
24 accompany the WFDSS Published Decision;
  - 25 ○ *FS- Complete a Risk and Complexity Assessment (RCA) for Type 1, 2,*
  - 26 *and 3 incidents within WFDSS.*
- 27 ● Coordinate with neighboring agencies on multi-jurisdiction fires to issue a  
28 joint Delegation of Authority and develop a single Published Decision in  
29 WFDSS for the management of unplanned ignitions;
- 30 ● Issue a written Delegation of Authority (appendix G) to the Incident  
31 Commander and to other appropriate officials, Agency Administrator  
32 Representative, Resource Advisor, and Incident Business Advisor. The  
33 delegation should:
  - 34 ○ State specific and measurable objectives, priorities, expectations,  
35 Agency Administrator's intent, constraints, and other required  
36 direction;
  - 37 ○ Establish the specific time for transfer of command;
  - 38 ○ Assign clear responsibilities for initial attack;
  - 39 ○ Define your role in the management of the incident;
  - 40 ○ **XXX Describe procedures for Conducting** during action reviews with  
41 the IC;
  - 42 ○ Assign a resource advisor(s) to the IMT;
  - 43 ○ Define public information responsibilities;

- 1 ○ XXX Address accident investigation procedures and notification
- 2 requirements for fire managers, line officer(s), and
- 3 dispatch/coordination centers;
- 4 ○ XXX If necessary, assign a local government liaison to the IMT XXX
- 5 (if necessary);
- 6 ○ XXX assign a local fire management liaison to the IMT (if necessary);
- 7 ○ Assign an Incident Business Advisor (IBA) to provide incident
- 8 business management oversight commensurate with complexity; and
- 9 ○ Direct XXX the IMT to address rehabilitation of areas affected by
- 10 suppression activities.
- 11 ● Coordinate mobilization with the Incident Commander:
- 12 ○ Negotiate filling of mobilization order with the IC;
- 13 ○ Establish time and location of Agency Administrator briefing;
- 14 ○ Consider approving support staff additional to the IMT as requested by
- 15 the IC; and
- 16 ○ Consider authorizing transportation needs as requested by the IC.
- 17 ● Provide pertinent support materials and documents (L/RMP, FMP, GIS
- 18 data, local unit SOP's, maps, Service and Supply Plan, etc.) to the IMT.
- 19

20 In situations where one agency provides fire suppression service under  
21 agreement to the jurisdictional agency, both jurisdictional and protecting  
22 agencies will be involved in the development of and signatories to the  
23 Delegation of Authorities to the Incident Management Teams and the Published  
24 Decision in WFDSS.

#### 25 26 **Agency Administrator Representative Responsibilities**

27 The Agency Administrator Representative (the on-scene Agency Administrator)  
28 is responsible for representing the political, social, and economic issues of the  
29 Agency Administrator to the Incident Commander. This is accomplished by  
30 participating in the Agency Administrator briefing, in the IMT planning and  
31 strategy meetings and in the operational briefings.

32  
33 Responsibilities include representing the Agency Administrator to the IMT  
34 regarding:

- 35 ● Compliance with the Delegation of Authority and the Published Decision in
- 36 WFDSS;
- 37 ● Public Concerns (air quality, road or trail closures, smoke management,
- 38 threats);
- 39 ● Public safety (evacuations, access/use restrictions, temporary closures);
- 40 ● Public information (fire size, resources assigned, threats, concerns, appeals
- 41 for assistance);
- 42 ● Socioeconomic, political, or tribal concerns;
- 43 ● Land and property ownership concerns;
- 44 ● Interagency and inter-governmental issues;
- 45 ● Wildland urban interface impacts; and

- 1 • Media contacts.

2

3 **Resource Advisor Responsibilities**

4 The Resource Advisor is responsible for anticipating the impacts of fire  
5 operations on natural and cultural resources and for communicating protection  
6 requirements for those resources to the Incident Commander. The Resource  
7 Advisor should ensure IMT compliance with the Land/Resource Management  
8 Plan and Fire Management Plan. The Resource Advisor should provide the  
9 Incident Commander with information, analysis, and advice on these areas:

- 10 • Rehabilitation requirements and standards;  
11 • Land ownership;  
12 • Hazardous materials;  
13 • Fuel breaks (locations and specifications);  
14 • Water sources and ownership;  
15 • Critical watersheds;  
16 • Critical wildlife habitat;  
17 • Noxious weeds/aquatic invasive species;  
18 • Special status species (threatened, endangered, proposed, sensitive);  
19 • Fisheries;  
20 • Poisonous plants, insects and snakes;  
21 • Mineral resources (oil, gas, mining activities);  
22 • Archeological site, historic trails, paleontological sites;  
23 • Riparian areas;  
24 • Military issues;  
25 • Utility rights-of-way (power, communication sites);  
26 • Native allotments;  
27 • Grazing allotments;  
28 • Recreational areas; and  
29 • Special management areas (wilderness areas, wilderness study areas,  
30 recommended wilderness, national monuments, national conservation areas,  
31 national historic landmarks, areas of critical environmental concern,  
32 research natural areas, wild and scenic rivers).

33

34 The Resource Advisor and Agency Administrator Representative positions are  
35 generally filled by local unit personnel. These positions may be combined and  
36 performed by one individual. Duties are stated in the *Resource Advisor's Guide*  
37 *for Wildland Fire (NWCG PMS 313, NFES 1831, Jan 2004)*.

38

39 **Use of Trainees**

40 Use of trainees is encouraged. On wildland fire incidents, trainees may  
41 supervise trainees. However, when assigning trainees to positions where critical  
42 life-safety decisions are affected, trainees must be directly supervised by a fully  
43 qualified individual. For example:

- 44 • A Division Group Supervisor (DIVS) trainee may not work directly for an  
45 Operations Section Chief without additional field supervision. The

**Release Date: January 2015**

**11-17**

- 1 potential for high hazard work with high risk outcomes calls for a fully  
2 qualified DIVS to be assigned supervision of the DIVS trainee.
- 3 • A Supply Unit Leader (SPUL) trainee may supervise a  
4 Receiving/Distribution Manager (RCDM) trainee. In this case, supervision  
5 may be successfully provided in a lower hazard environment with  
6 appropriate risk mitigation.

### 8 **Incident Action Plan**

9 When a written Incident Action Plan is required, suggested components may  
10 include objectives, organization, weather forecast, fire behavior forecast,  
11 division assignments, air operations summary, safety message, ~~XXX medical~~  
12 ~~plan~~, communications plan, and incident map. ~~XXX an incident medical plan is~~  
13 ~~required in all written Incident Action Plans.~~

### 15 **Incident Status Reporting**

16 The Incident Status Summary (ICS-209), submitted to the GACC, is used to  
17 report large wildland fires and any other significant events on lands under  
18 federal protection or federal ownership. Lands administered by states and other  
19 federal cooperators may also report in this manner.

21 Large fires are classified as 100 acres or larger in timber fuel types, 300 acres or  
22 larger in grass fuel types, or when a Type 1 or 2 Incident Management Team is  
23 assigned. A report should be submitted daily until the incident is contained.  
24 The Agency Administrator may require additional reporting times. Refer to  
25 local, zone and/or GACC guidance for additional reporting requirements.

### 27 **Incident History and Financial Records**

28 Wildfire incidents on Federal lands managed by the FS and DOI (except BIA)  
29 require creation of an Incident History File (IHF) to document significant  
30 events, actions taken, lessons learned and other information with long-term  
31 value for managing natural resources. IHF contents and instructions, and tools  
32 for creating the IHF are found at  
33 <http://www.nwcg.gov/policies/records/index.html>

35 The host unit will be responsible for retaining the incident documentation  
36 package including the IHF and financial records.

### 38 **Document and Computer Security**

39 Precautions must be taken to secure incident information in its various formats.  
40 All forms of information shall be treated as Controlled Unclassified Information  
41 (CUI) and care must be exercised when handling the data to prevent the  
42 inadvertent viewing or unauthorized disclosure of information. CUI paper  
43 copies that compromise privacy and security shall be shredded before disposal  
44 when no longer needed. All computers used at the incident must be patched and  
45 have anti-virus software installed with recently updated definition files. All  
46 media used to transfer information into the incident (for example, but not limited

1 to: USB flash drives, portable hard drives and CD/DVDs) must be scanned prior  
2 to use. Autorun capabilities must be disabled to prevent the spread of malware.  
3 All computers and storage devices shall be physically secured at all times.

4

#### 5 **Transfer of Command**

6 The following guidelines will assist in the transfer of incident command  
7 responsibilities from the local unit to incoming Incident Management Team and  
8 back to the local unit.

- 9 • The local team or organization already in place remains in charge until the  
10 local representative briefs their counterparts on the incoming team, a  
11 Delegation of Authority has been signed, and a mutually agreed time for  
12 transfer of command has been established.
- 13 • The ordering unit will specify times of arrival and transfer of command, and  
14 discuss these timeframes with both the incoming and outgoing command  
15 structures.
- 16 • Clear lines of authority must be maintained in order to minimize confusion  
17 and maintain operational control.
- 18 • Transfers of command should occur at the beginning of an operational  
19 period, whenever possible.
- 20 • All operational personnel will be notified on incident command frequencies  
21 when transfer of command occurs.

22

#### 23 **Release of Incident Management Teams**

24 The release of an IMT should follow an approved transfer of command process.  
25 The Agency Administrator must approve the date and time of the transfer of  
26 command. The transition plan should include the following elements:

- 27 • Remaining organizational needs and structure;
- 28 • Tasks or work to be accomplished;
- 29 • Communication systems and radio frequencies;
- 30 • Local safety hazards and considerations;
- 31 • Incident Action Plan, including remaining resources and weather forecast
- 32 • Facilities, equipment, and supply status;
- 33 • Arrangement for feeding remaining personnel;
- 34 • Financial and payment processes needing follow-up; and
- 35 • Risk and Complexity Assessment.

36

#### 37 **Team Evaluation**

38 At completion of assignment, Incident Commanders will receive a written  
39 performance evaluation from the Agency Administrator(s) prior to the teams'  
40 release from the incident. Certain elements of this evaluation may not be able to  
41 be completed at the closeout review. These include accountability and property  
42 control, completeness of claims investigation/documentation, and completeness  
43 of financial and payment documentation.

44

1 The final evaluation incorporating all of the above elements should be sent to  
2 the Incident Commander and the respective GACC within 60 days. See  
3 appendix I for the IMT evaluation form.

4  
5 The Delegation of Authority, the Published Decision in WFDSS, and other  
6 documented Agency Administrator's direction will serve as the primary  
7 standards against which the IMT is evaluated.

8  
9 The Agency Administrator will provide a copy of the evaluation to the IC and  
10 the state/regional FMO, and retain a copy for the final fire package.

11  
12 The state/regional FMO will review all evaluations and will be responsible for  
13 providing a copy of evaluations documenting performance to the Geographic  
14 Area Coordinating Group or agency managing the IMT.

#### 15 16 **Unit/Area Closures**

17  
18 Threats to public safety may require temporary closure of a unit/area or a  
19 portion of it. When a fire threatens escape from the unit/area, adjacent  
20 authorities must be given as much advance notice as possible in order to achieve  
21 orderly evacuation.

#### 22 23 **Incident Emergency Management Planning and Services**

24  
25 Refer to chapter 7 for further guidance.

#### 26 27 **Fire Management in Wilderness**

28  
29 Actions taken in wilderness will be conducted to protect life and safety, to meet  
30 natural and cultural resource objectives, and to minimize negative impacts of the  
31 fire management actions and the fires themselves. In evaluating fire  
32 management actions, the potential degradation of wilderness character will be  
33 considered before, and given significantly more weight than, economic  
34 efficiency and convenience. Unless human life or private property is  
35 immediately threatened, only those actions that preserve wilderness character  
36 and/or have localized, short-term adverse impacts to wilderness character will be  
37 acceptable. Any delegation of authority to Incident Management Teams will  
38 convey appropriate emphasis on the protection of wilderness character and  
39 resources and will ensure interaction with local wilderness resource advisors.

- 40 • ~~XXX DOI/BLM/FWS/NPS~~ For all wilderness fire management actions  
41 proposing the use of any of the Wilderness Act 4(c) prohibitions, a minimum  
42 requirements analysis will be completed.
- 43 • FS- For all wilderness fire management actions proposing the use of any  
44 Wilderness Act 4(c) prohibitions, a minimum requirements analysis is  
45 recommended.

46

## Operational Guidelines for Aquatic Invasive Species

In order to prevent the spread of aquatic invasive species, it is important that fire personnel not only recognize the threat aquatic invasive species pose to ecological integrity, but how our fire operations and resulting actions can influence their spread. Each local land management unit may have specific guidelines related to aquatic invasive species. Therefore, it is recommended that you consult established local jurisdictional guidelines for minimizing the spread of aquatic invasive species and for equipment cleaning guidance specific to those prevalent areas and associated species. To minimize the potential transmission of aquatic invasive species, it is recommended that you:

- Consult with local biologists, Resource Advisors (READ) and fire personnel for known aquatic invasive species locations in the area and avoid them when possible;
  - Avoid entering (driving through) water bodies or saturated areas whenever possible;
  - Avoid transferring water between drainages or between unconnected waters within the same drainage when possible;
  - Use the smallest screen possible that does not negatively impact operations and avoid sucking organic and bottom substrate material into water intakes when drafting from a natural water body;
  - Avoid obtaining water from multiple sources during a single operational period when possible; and
  - Remove all visible plant parts, soil and other materials from external surfaces of gear and equipment after an operational period. If possible, power-wash all accessible surfaces with clean, hot water (ideally > 140° F) in an area designated by a local READ.
- **BLM-** For additional information and guidelines please refer to the links provided in the document titled “BLM Fire Program Aquatic Invasive Species Guidance”, found at:  
<http://web.blm.gov/internal/fire/fpfm/docs/aquatic.pdf>

## Noxious Weed Prevention

To reduce the transport, introduction, and establishment of noxious weeds or other invasive species on the landscape due to fire suppression activities, all fire suppression and support vehicles, tools, and machinery should be cleaned at a designated area prior to arriving and leaving the incident. Onsite fire equipment should be used to thoroughly clean the undercarriage, fender wells, tires, radiator, and exterior of the vehicle. Firefighter personnel should clean personal equipment, boots, clothing, etc. of weed or other invasive species materials, including visible plant parts, soil, and other materials as identified by the fire resource advisor. The cleaning area should also be clearly marked to identify the area for post fire control treatments, as needed.

1 Ensure that seed mixes, mulch, and/or straw wattles contain no federally or state  
2 designated noxious weeds by using seed mixes, mulches or straw wattles that  
3 have been examined by a laboratory or have current weed free certification from  
4 a state seed laboratory or equivalent qualified testing agent.

5

## 6 **Responding to Non-Wildland Fire Incidents**

7

8 Managers will avoid giving the appearance that their wildland fire resources are  
9 trained and equipped to perform structure, vehicle, and dump fire suppression, to  
10 respond to hazardous materials releases, or to perform emergency medical  
11 response for the public.

12

### 13 **Wildland Urban Interface**

14 The operational roles of the federal agencies as partners in the wildland urban  
15 interface are wildfire suppression, structure protection (see below), prescribed  
16 fire, hazard reduction, cooperative prevention and education, and technical  
17 assistance. Structural fire suppression is the responsibility of tribal, state, or  
18 local governments. Federal agencies may assist with exterior structural fire  
19 protection activities under formal fire protection agreements that specify the  
20 mutual responsibilities of the partners, including funding (Some federal agencies  
21 have full structural protection authority for their facilities on lands they  
22 administer and may also enter into formal agreements to assist state and local  
23 governments with structural protection).

24 *-Review and Update of the 1995 Federal Wildland Fire Management*  
25 *Policy, January 2001, page 23.*

26

27 Funding is not provided to prepare for or respond to emergency non-wildland  
28 fire response activities such as structure fires, vehicle fires, dump fires,  
29 hazardous materials releases, and emergency medical responses. Managers  
30 must ensure that fire management plans, interagency agreements, and annual  
31 operating plans clearly state agency and cooperator roles and responsibilities for  
32 non-wildland fire response activities that agency personnel are exposed to as a  
33 result of working in the interagency fire environment. Managers will also  
34 ensure that federal wildland fire resources are not identified on run cards or in  
35 dispatch plans for non-wildland fire responses.

36

### 37 **Structure, Vehicle, Dumpster, Trash, and Landfill Fires**

38 Wildland firefighters will not take direct suppression action on structure,  
39 vehicle, dumpster, trash, or landfill fires. Structure, vehicle, and landfill fire  
40 suppression is not a functional responsibility of wildland fire resources. These  
41 fires have the potential to emit high levels of toxic gases. This policy will be  
42 reflected in suppression response plans.

43

44 Wildland firefighters who encounter structure, vehicle, or landfill fires, or who  
45 are dispatched to such fires due to significant threat to adjacent agency protected  
46 lands/resources, will not engage in direct suppression action. Structure

1 protection (not suppression) activities will be limited to exterior efforts, and only  
2 when such actions can be accomplished safely and in accordance with  
3 established wildland fire operations standards.

- 4 • **NPS-** For structural fire (including vehicle, trash and dumpster fires)  
5 response, training, medical examination, and physical fitness requirements,  
6 and hazardous material response or control guidance, refer to chapter 3.
- 7 • **FS-** Wildfires other than vegetation (such as dumpster, trash, landfill, or  
8 vehicle) as the primary fuel present hazards that are outside of the basic  
9 wildland firefighters training and protective equipment. Response actions  
10 will be limited to protection of life, property, and resources when they can  
11 be safely undertaken with proper risk assessment and mitigation. When  
12 agency employees are trained, qualified, and equipped to take action on  
13 other than vegetation fires, they may do so with proper risk assessment and  
14 mitigation (*Incident Response Pocket Guide, PMS 461*).

#### 15 **Public Emergency Medical Response**

16 Public emergency medical response is not a functional responsibility of wildland  
17 fire resources, and should not be part of a preplanned response that requires  
18 these duties. When wildland firefighters encounter emergency medical response  
19 situations, their efforts should be limited to immediate care (e.g. first aid, first  
20 responder) actions that they are trained and qualified to perform.

- 22 • **NPS-** NPS employees who provide emergency medical services will adhere  
23 to the requirements contained in *Director's Order and Reference Manual*  
24 *#51, Emergency Medical Services*.

#### 25 **Post Wildfire Activities**

26  
27  
28 Each wildland fire management agency is responsible for taking prompt action  
29 to determine the need for, and to prescribe and implement, emergency  
30 treatments to minimize threats to life or property or to stabilize and prevent  
31 unacceptable degradation to natural and cultural resources resulting from the  
32 effects of a fire on the lands they manage.

33  
34 Post wildfire activities references can be found in *Interagency Burned Area*  
35 *Emergency Response Guidebook, Interpretation of Department of the Interior*  
36 *620 DM 3 and USDA Forest Service Manual 2523, For the Emergency*  
37 *Stabilization of Federal and Tribal Trust Lands, Version 4.0 dated Feb. 2006*  
38 *and Interagency Burned Area Rehabilitation Guidebook, Interpretation of*  
39 *Department of the Interior 620 DM 3, For the Burned Area Rehabilitation of*  
40 *Federal and Tribal Trust Lands, Version 1.3 dated October 2006.*  
41 <http://www.fws.gov/fire/ifcc/Esr/home.htm>.

42 Damages resulting from wildfires are addressed through four activities:

- 43 • **Wildfire Management Activity Damage Repair -** Planned actions taken to  
44 repair the damages to resources, lands, and facilities resulting from wildfire  
45 suppression actions and documented in the Incident Action Plan. These

- 1 actions are usually implemented prior to, or immediately after containment  
 2 of the wildfire by the incident management organization. Repairs under this  
 3 activity may be completed to return the value to pre-wildfire management  
 4 activity condition as practical but may not improve the condition beyond  
 5 what was existing prior to the incident.
- 6 ● **Emergency Stabilization** - Planned actions to stabilize and prevent  
 7 unacceptable degradation to natural and cultural resources, to minimize  
 8 threats to life or property resulting from the effects of a wildfire, or to  
 9 repair/replace/construct physical improvements necessary to prevent  
 10 degradation of land or resources. Emergency stabilization actions must be  
 11 taken within one year following containment of a wildfire and documented  
 12 in a Burned Area Emergency Response Plan.
  - 13 ● **Rehabilitation** - Efforts taken within three years of containment of a wildfire  
 14 to repair or improve wildfire-damaged lands unlikely to recover naturally to  
 15 management approved conditions, or to repair or replace minor facilities  
 16 damaged by wildfire. These efforts are documented in a separate Burned  
 17 Area Rehabilitation Plan.
  - 18 ● **Restoration** - Continuing the rehabilitation beyond the initial three years or  
 19 the repair or replacement of major facilities damaged by the wildfire.

20 **Post-Fire Activities**

	<b>Suppression Repair</b>	<b>Emergency Stabilization</b>	<b>Rehabilitation</b>	<b>Restoration</b>
<b>Objective:</b>	Repair suppression damages	Protect life and property	Repair damages	Long Term Ecosystem Restoration
<b>Damage due to:</b>	Suppression activities	Post-fire events and fire	Fire	Fire
<b>Urgency:</b>	Immediately after containment	1-12 months	1-3 years	3 + years
<b>Responsibility</b>	Agency Administrator	Agency Administrator	Agency Administrator	Agency Administrator
<b>Funding type:</b>	Suppression (fire)	Emergency Stabilization	Rehabilitation	Regular program

21  
22

**Emergency Stabilization Approval Authorities**

	<b>BIA</b>	<b>BLM</b>	<b>FWS</b>	<b>NPS</b>	<b>FS</b>
<b>Local Approval Level</b>	<\$250,000 Agency Supt.	\$0 Field/District Manager	\$0 Refuge Manager	\$0 Park Supt.	\$0 District Ranger
					\$0 Forest Supervisor

<b>Regional/ State Approval Level</b>	\$250,000- \$500,000 Regional Director	<\$100,000 State Director	<\$500,000 Regional Director with Regional Fire Management Coordinator concurrence	<\$500,000 Regional Director	\$500,000 Western Regional Foresters
					\$100,000 Eastern Regional Foresters
<b>National Approval Level</b>	>\$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

1

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 It is the Agency Administrator’s responsibility to designate an interdisciplinary  
12 BAER team. However, BAER teams must coordinate closely with IC and  
13 Incident Management teams to work safely and efficiently. Initial requests for  
14 funding for BAER should be submitted to the appropriate Agency Administrator  
15 for approval within 7 calendar days after the total containment of the fire. If  
16 additional time is needed, extensions may be negotiated with those having  
17 approval authority.

- 18 • **DOI** - *The Department of the Interior maintains two standing National*  
19 *BAER Teams with pre-identified positions listed in the National Interagency*  
20 *Mobilization Guide and are comprised of personnel from the Bureau of*  
21 *Indian Affairs, Bureau of Land Management, National Park Service, Fish*  
22 *and Wildlife Service and Forest Service. The DOI-BAER Teams are*  
23 *dispatched by the National Interagency BAER Team Dispatch Prioritization*  
24 *Criteria Evaluation.*  
25 *[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)*  
26 *[BAERTeam%20call-out%20criteria.pdf](http://www.fws.gov/fire/ifcc/Esr/BAER/BAER_Team_Management/2006%20BAERTeam%20call-out%20criteria.pdf).*
- 27 • **DOI**- *The DOI-BAER Teams should be requested at least 10 days prior to*  
28 *expected date of wildfire containment and ordered as per the National*  
29 *Mobilization Guide.*
- 30 • **FS** - *The Forest Service utilizes BAER Teams through a pool of resources*  
31 *with the skills identified by the receiving unit. When needed, BAER*  
32 *personnel from other units can either be contacted directly or through*  
33 *dispatch. Placing a general fire resource order for BAER team members*  
34 *via dispatch is not appropriate for ad hoc Forest Service teams. See FSM*

1 2523 and FSH 2509.13 for agency specific policy and direction for BAER  
2 teams.

3

#### 4 **Incident Business Management**

5

6 Specific incident business management guidance is contained in the *Interagency*  
7 *Incident Business Management Handbook* (PMS 902). This handbook assists  
8 participating agencies of the NWCG to constructively work together to provide  
9 effective execution of each agency's incident management program by  
10 establishing procedures for:

- 11 • Uniform application of regulations on the use of human resources, including  
12 classification, payroll, commissary, injury compensation, and travel;
- 13 • Acquisition of necessary equipment and supplies from appropriate sources  
14 in accordance with applicable procurement regulations;
- 15 • Managing and tracking government property;
- 16 • Financial coordination with the protection agency and maintenance of  
17 finance, property, procurement, and personnel records and forms;
- 18 • Use and coordination of incident business management functions as they  
19 relate to sharing of resources among federal, state, and local agencies,  
20 including the military;
- 21 • Investigation and reporting of accidents;
- 22 • Investigating, documenting, and reporting claims;
- 23 • Documenting costs and implementing cost-effective criteria for managing  
24 incident resources; and
- 25 • Non-fire incidents administrative processes.

26

- 27 • **XXX DOI-** *The Department of the Interior All Hazards-Supplement to the*  
28 *Interagency Incident Business Management Handbook establishes business*  
29 *management guidelines for the Department of the Interior's (DOI's)*  
30 *all-hazards incidents. The DOI Supplement is available at:*  
31 *<http://www.doi.gov/emergency/emergency-policy.cfm>*

32

- 33 • **Cost Management**

34 An Incident Business Advisor (IBA) must be assigned to any wildfire with costs  
35 of \$5 million or more. **XXX The complexity of the incident and the potential**  
36 **costs should be considered when assigning either an IBA1 or IBA2.** If a  
37 qualified IBA is not available, the approving official will appoint a financial  
38 advisor to monitor expenditures.

39

40 Incident cost objectives will be included as a performance measure in Incident  
41 Management Team evaluations.

42

43

44

45

## 1 **Large Fire Cost Reviews**

2 An Interagency Large Fire Cost Review will be conducted when an incident  
3 (single fire or complex) meets or exceeds Federal combined expenditures of \$10  
4 million.

5  
6 A review may also be conducted when an incident (single fire or fire complex)  
7 meets or is expected to meet one or more of the following criteria:

- 8 • The predicted time to achieve the fire management objective exceeds 21  
9 days;
- 10 • There are significant political, social, natural resource, or policy concerns;
- 11 • There are significant and complicated cost-share or multi-jurisdictional  
12 issues; or
- 13 • The affected agency requests a review.

14  
15 It is the responsibility of the Agency Administrator to monitor large fire costs  
16 and advise the appropriate individual(s) within their agency of the need for a  
17 Large Fire Cost Review. When a multi-jurisdictional fire requires review, the  
18 local Agency Administrator will determine which agency will be designated as  
19 the lead in the review process.

20  
21 The Agency Director will provide a Delegation of Authority to the Cost Review  
22 Team authorizing the implementation of a review. When possible, Large Fire  
23 Cost Reviews should be conducted when the Incident Management Team is still  
24 in place to allow prompt access to records and incident personnel.

- 25 • *BLM- The Assistant Director, Fire and Aviation will initiate, facilitate, and  
26 provide oversight for the LFCR process. Upon determination of the need  
27 for a LFCR, the AD will coordinate with the appropriate state director and  
28 assemble a LFCR team, provide a delegation of authority, and initiate the  
29 LFCR using ~~XXX the Interagency Large Fire Cost Review Guide (July  
30 2008), and appropriate supplemental direction found at  
31 [http://web.blm.gov/internal/fire/budget/Reports/Report\\_Menu\\_new.htm](http://web.blm.gov/internal/fire/budget/Reports/Report_Menu_new.htm).  
32 The AD will provide briefings to the Bureau Director, as appropriate.~~*

## 34 **XXX FLAME Act Responsibilities**

35 To comply with protocols for the Forest Land Assistance, Management, and  
36 Enhancement (FLAME) Act, local units should forward a copy of the completed  
37 complexity analysis (Appendix E) through the State/Regional Office to the  
38 National Office. FLAME Act information should be forwarded for any fires  
39 occurring on their agency's lands (or on lands protected by that agency under  
40 formal agreement) that are managed by a Type 1 or Type 2 Incident  
41 Management Team, and are 300 acres or larger.

- 42 • *BLM- The Complexity Analysis should be forwarded by the State to the  
43 Division of Budget and Evaluation, Fire and Aviation (FA-400). The  
44 Division of Budget and Evaluation will also extract supporting  
45 documentation from the Wildland Fire Decision Support System.*

- 1 • *FS* Regions are required to submit the following information to  
2 *FLAME@fs.fed.us* for fires that are eligible for *FLAME* Act funding:
  - 3 ○ Incident job code
  - 4 ○ Incident number
  - 5 ○ Name of fire
  - 6 ○ Type of team(s) that was actually mobilized to the fire
  - 7 ○ Complexity Analysis/Organizational Needs Assessment

## 9 Cache Management

10  
11 Agencies often serve as interagency partners in national support caches and  
12 local area support caches, and may operate single agency initial attack caches.  
13 All caches will maintain established stocking levels, receive and process orders  
14 from participating agencies and follow ordering and fire replenishment  
15 procedures as outlined by the national and geographic area cache management  
16 plans and mobilization guides.

- 17 • *FS* - Refer to *FSM 5160* for specific requirements.

### 18 **Type 1 and 2 National Interagency Support Caches**

19 There are fifteen National Interagency Support Caches (NISCs); eleven are  
20 managed by the Forest Service, three are managed by the BLM, and one is  
21 managed by the State of Idaho. The fifteen national caches are part of the  
22 National Fire Equipment System (NFES). Each of these caches provides  
23 incident support in the form of equipment and supplies to units within their  
24 respective geographic areas. The NFES cache system may support other  
25 emergency, disaster, fire-related or land management activities, provided that  
26 such support is permitted by agency policies and does not adversely affect the  
27 primary mission. These national caches do not provide supplies and equipment  
28 to restock local caches for non-incident requests. Non-emergency (routine)  
29 orders should be directed to the source of supply, e.g., **XXX GSA DLA** or  
30 private vendors. The Great Basin Area Incident Support Cache at NIFC  
31 provides publications management support to the National Wildfire  
32 Coordinating Group (NWCG). Reference the *NWCG NFES Catalog Part 2:*  
33 *Publications* at [www.nwcg.gov](http://www.nwcg.gov) for more detailed information.

34  
35  
36 Forest Service National Symbols Program distribution is through the Eastern  
37 Area Incident Support Cache (NEK). This material is coordinated by the USDA  
38 Forest Service, under advisement of the National Association of State Foresters'  
39 (NASF) Cooperative Forest Fire Prevention Committee (CFFP). Materials  
40 include Smokey Bear /Junior Forest Ranger prevention items and Woodsy Owl  
41 environmental educational materials.

42  
43 NEK also distributes DOI Fire Education materials. The website at  
44 <http://www.symbols.gov/> contains the catalog of these materials, information  
45 about these programs, and online ordering instructions.

46

1 **Type 3 Support Caches**

2 These caches directly support more than one agency and generally cover more  
3 than one administrative unit. They will maintain stocking levels to meet the  
4 identified needs of the multiple agencies for whom service is provided.

5

6 **Type 4 Local Caches**

7 Numerous caches of this level are maintained by each agency. These caches  
8 will establish and maintain stocking levels to meet the initial response needs of  
9 the local unit(s).

10

11 **Inventory Management**

12

13 **System Implementation**

14 Each fire cache, regardless of size, should initiate and maintain a cache  
15 inventory management system. Agency management systems provide a check  
16 out/return concept that incorporates a debit/crediting for all items leaving the  
17 cache. This system is strictly followed in the Type 1 and 2 NISC's. Inventory  
18 management processes should be implemented for all Type 3 Support and Type  
19 4 Local caches.

20

21 **Accountability**

22 Fire loss/use rate is defined as all property and supplies lost, damaged, or  
23 consumed on an incident. It is reported as a percentage that is calculated in  
24 dollars of items issued compared to items returned. Consumable items are not  
25 included in this total. All items stocked in agency fire caches will be  
26 categorized for return (loss tolerance/use rate) and accountability purposes.

27

28 **Trackable Items**

29 Trackable items include items that a cache may track due to dollar value,  
30 sensitive property classification, or limited quantities. Available items that are  
31 considered trackable are usually engraved or tagged with a cache trackable  
32 identification number. These items must be returned to the issuing cache at the  
33 end of the incident use, or documentation must be provided to the issuing cache  
34 as to why it was not returned. All trackable items are also considered durable.  
35 Accountability for trackable items is expected to be 100 percent.

36

37 **Durable Items**

38 Durable items include cache items considered to have a useful life expectancy  
39 greater than one incident. High percentages of return for these items are  
40 expected. These items are not specifically cache identified/tagged/engraved.  
41 Durable items include water handling accessories, helicopter accessories, tents  
42 and camp items such as heaters, lights, lanterns, tables, chairs, hose, tools,  
43 backpack pumps, sleeping bags, pads, cots, and personal protective equipment.  
44 A 90% level of return is the expected threshold for durable items.

45

46

**1 Consumable Items**

2 Consumable items include items normally expected to be consumed during  
3 incident use. Consumable items returned in unused condition are credited to the  
4 incident. Examples of consumable items are: batteries, plastic canteens,  
5 cubitainers, forms, MREs, fusees, hot food containers, petroleum products, and  
6 medical supplies.

7

**8 Incident Management and Environmental Sustainability**

9 Every incident should seek opportunities to reduce unnecessary waste and limit  
10 impacts associated with management actions. This may be accomplished, for  
11 example, by promoting recycling and encouraging the use of alternative energy  
12 sources as long as such efforts do not compromise operational or safety  
13 objectives.

14

**15 Incident to Incident Transfer of Supplies and Equipment**

16 Transfer of supplies and equipment between incidents is not encouraged, due to  
17 the increased possibility of accountability errors. In instances when it is  
18 determined to be economically feasible and operationally advantageous, the  
19 following must be accomplished by the Supply Unit Leader from the incident  
20 that is releasing the items.

21

22 Documentation will be completed on the *Interagency Incident Waybill (NFES*  
23 *#1472)* and must include the following:

- 24 • NFES Number.
- 25 • Quantity.
- 26 • Unit of Issue.
- 27 • Description.
- 28 • Trackable ID number, if item is trackable.
- 29 • Receiving incident name, incident number, and resource request number.
- 30 • The Supply Unit Leader will send the waybill transfer information to the  
31 servicing NISC to maintain proper accountability recording.

32

33 Upon request, the servicing NISC can provide the Supply Unit Leader with an  
34 Outstanding Items Report or Incident Summary Report to facilitate accurate  
35 waybill documentation.

36

**37 Fire Loss Tolerance Reporting for Type 1 and 2 Incidents**

38 In order to help managers keep incident-related equipment and supply loss to a  
39 minimum, incident management teams (IMTs) are required to maintain  
40 accountability and tracking of these items. Guidelines and procedures to assist  
41 with this accountability are provided in Chapter 30 of the *Interagency Incident*  
42 *Business Management Handbook*. To further facilitate these procedures and  
43 provide oversight, a fire loss report has been developed that provides detailed  
44 information regarding used and trackable item use. This report has been  
45 accepted by NWCG for all wildland fire agencies and will be compiled for all

- 1 Type 1 and Type 2 incidents. Investigations may be conducted in those cases  
2 where thresholds may have been exceeded.  
3
- 4 These reports are compiled by the NISC servicing the particular incident.  
5 Reports will then be forwarded to the responsible local office, with a copy to the  
6 state/regional FMO. ~~XXX, within 60 days of the close of the incident to meet~~  
7 ~~these time limits.~~ The following steps must be followed to insure accurate  
8 reports:
- 9 • At the close of each incident, all property must be returned to the servicing  
10 NFES cache;
  - 11 • If accountable/trackable property has been destroyed or lost, appropriate  
12 documentation must be provided to the cache for replacement and updating  
13 property records;
  - 14 • All property purchased with emergency fire funds for an incident must be  
15 returned to the NFES cache system;
  - 16 • All unused consumable and/or durable NFES items must be returned to the  
17 servicing NFES cache within 30 days of control of the incident; and
  - 18 • Agency Administrators/fire management officers must review the fire loss  
19 report and recommend appropriate follow-up action if losses are excessive.  
20 Those actions and recommendations should be documented and filed in the  
21 final incident records.

### 22 **Incident Supply and Equipment Return Procedures**

- 23 Supplies and equipment ordered with suppression funds will be returned to the  
24 ordering unit at the close of the incident and dispersed in one of three ways:  
25
- 26 • Items meeting NFES standards will be returned to the NISC for reuse  
27 within the fire supply system;
  - 28 • Items not meeting the prescribed NFES standards will be purchased with  
29 program funds by the local unit if the items are needed for program use; or
  - 30 • Items will be delivered to the unit's excess property program for disposal.

### 31 **Cache Returns and Restock Procedures**

32 All returns for credit and restock of caches to specific incident charges should be  
33 made within 30 days after the close of the incident. If that timeframe cannot be  
34 met, it is required that returns and restock be made during the same calendar  
35 year as items were issued. All returns should be tagged with appropriate  
36 incident number, accompanied by an interagency waybill identifying the  
37 appropriate incident number, or accompanied by issue documents to ensure  
38 proper account credit is given. Any items returned after the calendar year of  
39 issue will be returned to multiple-fire charges, unless specific incident charge  
40 documentation (issues) can be provided with the return.  
41

### 42 **Incident Replacement of Government Property**

43 Refer to the *IIBMH*, Chapter 30 for procedures governing property management  
44 relating to incident activities. The Agency Administrator is responsible for  
45

1 providing agency property management guidelines and/or procedures to incident  
2 personnel.  
3  
4 Damage or Loss for assigned property is addressed under *IIBMH* Chapter 30.  
5 Specialty or non-cache items originally provided by the home unit through the  
6 use of preparedness funds will be replaced by home unit funds if the loss is due  
7 to normal wear and tear. If the government property is damaged on the incident  
8 due to a specific event, e.g., wind event damages tent, the incident may, upon  
9 receipt of required documentation and proof of damage, authorize replacement  
10 using the *Incident Replacement Requisition (OF-315)*. Cache items will be  
11 replaced at the incident if available. Cache items that are not available at the  
12 incident may be authorized for restocking at the home unit via an authorized  
13 *Incident Replacement Requisition*.  
14  
15 XXX For replacement of NFES items not carried by the National Incident  
16 Supply Cache responsible for supporting the incident (i.e. Wildland Firefighter's  
17 Pants, Type II), replacement must be authorized using the *Incident Replacement*  
18 *Requisition (OF-315)*, and should be accomplished by ordering the item from  
19 Defense Logistics Agency (DLA).

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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 at <http://www.fs.fed.us/rm/fire/wfcs/index.htm>

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 Qualified Products List (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.

4  
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.

13  
14 **Safety Information**

15  
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 **Interagency Policy for Aerial and Ground Delivery of Wildland Fire**  
 20 **Chemicals Near Waterways and Other Avoidance Areas**

21  
 22 This policy is an expansion and update for the 2000 and 2009 updated  
 23 Guidelines for Aerial Delivery of all wildland fire chemicals, including  
 24 retardant, foam, and water enhancers, which were established and approved by  
 25 the Forest Service (FS) and the Department of the Interior (DOI). The policy  
 26 includes additional avoidance areas (both aquatic and terrestrial) for aerial  
 27 delivery of fire chemicals as designated by individual agencies and includes  
 28 additional FS reporting requirements.

29  
 30 This policy does not require the helicopter or airtanker pilot-in-command to fly  
 31 in such a way as to endanger his or her aircraft, other aircraft, or structures or  
 32 compromise ground personnel safety.

Aerial Delivery Policy	Ground Delivery Policy
<ul style="list-style-type: none"> <li>• Avoid aerial application of all wildland fire chemicals within 300 feet (ft.) of waterways.</li> <li>• Additional mapped avoidance areas may be designated by individual agency.</li> <li>• Whenever practical, as determined by the fire incident commander, use water or other less toxic wildland fire chemical suppressants for direct attack or less toxic approved fire retardants in areas occupied by threatened, endangered, proposed, candidate or sensitive species (TEPCS) or their designated critical habitats.</li> </ul>	<ul style="list-style-type: none"> <li>• Avoid application of all wildland fire chemicals into waterways<sup>1</sup> <del>XXX or</del> mapped avoidance areas.</li> </ul>

1 XXX<sup>1</sup> Delivery on the ground provides for more precise delivery of fire  
2 chemicals to target areas. Thus, delivery is allowed within the aquatic mapped  
3 avoidance areas provided chemicals do not reach the waterway. Because there  
4 is the potential for TEPCS, their designated critical habitats, or other resources  
5 such as cultural or heritage areas to occur in waterway buffers or additional  
6 mapped avoidance areas, it is advised that a resource advisor be consulted prior  
7 to application to determine best action or the potential for environmental effects.  
8 See reporting section below for requirements.

#### 9 10 **Definition of Waterway**

11 Any body of water (including lakes, rivers, XXX-estuaries, streams, and ponds)  
12 whether or not it contains aquatic life.

#### 13 14 **Definition of Waterway Buffer**

15 300 ft. distance on either side of a waterway.

#### 16 17 **Definition of Additional Mapped Avoidance Areas**

18 XXX On FS lands, there may be areas requiring additional protection outside of  
19 the 300 ft. waterway buffer. This may include certain dry intermittent or  
20 ephemeral streams, areas designated XXX as wetlands for resource protection,  
21 as well as areas for the protection of TEPCS terrestrial habitats and population  
22 areas. XXX Units with these avoidance areas will provide maps and/or spatial  
23 data depicting these areas and identify these areas in preparedness plans as well  
24 as the Wildland Fire Decision Support System (WFDSS).

- 25 • **FS- Maps are available at XXX**  
26 [http://apps.fs.fed.us/ArcGIS/rest/services/edw\\_external/edw\\_AerialFireRetardantAvoidanceAreas\\_01/MapServer](http://apps.fs.fed.us/ArcGIS/rest/services/edw_external/edw_AerialFireRetardantAvoidanceAreas_01/MapServer). The NIFC interagency FTP site:  
27 [ftp://ftp.nifc.gov/Base\\_Info/Retardant\\_Avoidance\\_Areas](ftp://ftp.nifc.gov/Base_Info/Retardant_Avoidance_Areas).

#### 28 29 30 **Guidance for Pilots**

31 Pilots will avoid all waterways and additional mapped avoidance areas  
32 designated by individual agencies. To meet the 300-foot waterway buffer zone  
33 or additional mapped avoidance areas guideline, implement the following:

- 34 • All Aircraft: When approaching a waterway or other avoidance areas, the  
35 pilot shall terminate application of wildland fire chemical approximately  
36 300 feet before reaching the area. When flying over a waterway, the pilot  
37 shall not begin application of wildland fire chemical until 300 feet after  
38 crossing the far bank or shore. The pilot shall make adjustments for  
39 airspeed and ambient conditions such as wind to avoid the application of  
40 wildland fire chemicals within the 300-foot buffer zone. Riparian  
41 vegetation may be an indicator of waterways and pilots should confirm to  
42 the extent possible that no water is present before dropping.
- 43 • Prior to fire retardant application, all aerial supervision and/or pilots shall  
44 be briefed on the locations of all TEPCS or other avoidance areas in the  
45 vicinity.

- 1 • If operationally feasible, pilots or the aerial supervision shall make a 'dry  
2 run' over the intended application area and/or coordinate with ground  
3 resources to identify avoidance areas and waterways in the vicinity of the  
4 wildland fire.
- 5 • Pilots will be provided avoidance area maps and information at all briefings  
6 (if not dispatched from one geographic area/unit and delivering to another  
7 geographic area).

8  
9 **Exceptions for XXX Aerial Delivery of Long-Term Retardant on USDA**  
10 **Forest Service XXX Lands (2011 Record of Decision):**

- 11 • Deviations from the policy are allowed only for the protection of life or  
12 safety (public and firefighter).

13  
14 **Exceptions for all other Agencies XXX and All Other Fire Chemicals:**

- 15 • When alternative line construction tactics are not available due to terrain  
16 constraints, congested area, life and property concerns or lack of ground  
17 personnel, it is acceptable to anchor the wildland fire chemical application  
18 to the waterway. When anchoring a wildland fire chemical line to a  
19 waterway, use the most accurate method of delivery in order to minimize  
20 placement of wildland fire chemical in the waterway (e.g., a helicopter  
21 rather than a heavy airtanker).
- 22 • Deviations from the policy are acceptable when life or property is  
23 threatened and the use of wildland fire chemical can be reasonably expected  
24 to alleviate the threat.
- 25 • When potential damage to natural resources outweighs possible loss of  
26 aquatic life, the unit administrator may approve a deviation from these  
27 guidelines.

28  
29 **Reporting Requirements of Aerially Delivered Wildland Fire Chemicals**  
30 **Into Waterways, Waterway Buffer Areas and Mapped Avoidance Areas**

31  
32 During training or briefings, inform field personnel of:

- 33 • Environmental guidelines for fire chemical application;  
34 • Requirements for avoiding contact with waterways;  
35 • Additional mapped avoidance areas as designated by individual agency; and  
36 • Their responsibility for upward reporting in the event of application, for  
37 whatever reason, into avoidance areas.

38  
39 If application of wildland fire chemical occurs or anyone believes it may have  
40 been introduced within waterways, waterway buffered areas, or other mapped  
41 avoidance areas, the following is required as appropriate:

- 42 • They should inform their supervisor;  
43 • The information will be forwarded to incident management and the agency  
44 administrator, usually through the resource advisor;

- 1 • The incident or host authorities must immediately contact specialists within  
2 the local jurisdiction; and
- 3 • Notifications and reporting will be completed as soon as possible.
- 4
- 5 Procedures have been implemented for the required reporting. All information,  
6 including reporting tools and instructions are posted on the websites at:  
7 <http://www.fs.fed.us/rm/fire/wfcs>  
8 <http://www.fs.fed.us/fire/retardant/>  
9
- 10 The FS has additional reporting requirements for threatened, endangered,  
11 proposed, candidate and FS listed sensitive species for aerially delivered fire  
12 retardant only. This requirement resulted from the Forest Service's acceptance  
13 of Biological Opinions received from the National Marine Fisheries Service  
14 (NMFS) and the U.S. Fish and Wildlife Service (FWS), and the *2011 Record of*  
15 *Decision XXX (ROD) for Nationwide Aerial Application of Fire Retardant on*  
16 *National Forest System Lands*. The procedures, reporting tools, and instructions  
17 can be found at the same websites listed above.

### 18 **Endangered Species Act (ESA) Emergency Consultation**

19  
20  
21 The following provisions are guidance for complying with the emergency  
22 section 7 consultation procedures of the ESA for wildland fire chemicals. These  
23 provisions do not alter or diminish an action agency's responsibilities under the  
24 ESA.

25  
26 Where T&E species or their habitats are potentially affected by application of  
27 wildland fire chemicals, the following additional procedures apply and shall be  
28 documented in initial or subsequent fire reports:

- 29 • As soon as practicable after application of wildland fire chemical near  
30 waterways or other avoidance area as designated by agency, determine  
31 whether the application has caused any adverse effects to a T&E species or  
32 their habitat. This can be accomplished by the following:
- 33 ○ Ground application of wildland fire chemical outside a waterway is  
34 presumed to avoid adverse effects to aquatic species and no further  
35 consultation for aquatic species is necessary;
  - 36 ○ Aerial application of wildland fire chemical outside 300 ft. XXX (or in  
37 any additional buffer areas beyond 300 ft. established on NFS lands for  
38 certain species) of a waterway is presumed to avoid adverse effects to  
39 aquatic species and no further consultation for aquatic species is  
40 necessary;
  - 41 ○ Aerial application of wildland fire chemical within 300 ft. XXX (or in  
42 any additional NFS lands buffer areas) of a waterway requires that the  
43 unit administrator determine whether there have been any adverse  
44 effects to T&E species within the waterway. If no adverse effects to  
45 aquatic T&E species or their habitats, no additional requirement to  
46 consult on aquatic species with FWS or NMFS is required; and/or

1       ○ Application of wildland fire chemical within other avoidance areas as  
2       designated by agency requires the agency administrator to determine  
3       whether there have been any adverse effects to T&E species. If there  
4       are no adverse effects to species or their habitats there is no additional  
5       requirement to consult with FWS or NMFS.

6       ■ *XXX FS- Note: the FS has completed consultation with regulatory*  
7       *agencies (FWS and NOAA) for aerial delivery of fire retardant*  
8       *(only) in National Forest System lands; please refer to*  
9       *<http://www.fs.fed.us/fire/retardant/> for additional information and*  
10      *re-initiation of consultation requirements.*

11  
12 If the action agency determines that there were adverse effects on T&E species  
13 or their habitats then the action agency must consult with FWS and NMFS, as  
14 required by 50 CFR 402.05 (Emergencies). Procedures for emergency  
15 consultation are described in the Interagency Consultation Handbook, Chapter 8  
16 (March, 1998). In the case of a long duration incident, emergency consultation  
17 should be initiated as soon as practical during the event. Otherwise, post-event  
18 consultation is appropriate. The initiation of the consultation is the  
19 responsibility of the unit administrator.

20

### 21 **Operational Guidelines for Invasive Species**

22

23 Refer to Chapter 11 for guidance on minimizing potential transmission of  
24 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.

### XXX Policy Standards

Firefighters must meet standards identified in the NWCG publication *PMS 310-1 National Interagency Incident Management System Wildland Fire Qualifications System Guide*. The *PMS 310-1* may be found at <http://www.nwcg.gov/pms/docs/docs.htm>

XXX Federal agencies have consolidated minimum standards and information for frequently used positions not included in the *PMS 310-1*. The *Federal Wildland Fire Qualifications Supplement* can be found on the NWCG Qualifications web site at: <http://www.nwcg.gov/pms/docs/docs.htm>

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 Standards for Fire Training and Workforce Development*, available at [http://www.blm.gov/nifc/st/en/prog/fire/training/fire\\_training.html](http://www.blm.gov/nifc/st/en/prog/fire/training/fire_training.html).
- **FWS** - *The Fire Management Handbook*.
- **FS** – *The Fire and Aviation Qualification Guide (FAQG)*. ~~XXX-AD hires sponsored by the Forest Service will also meet FAQG position qualification standards.~~

### Qualification and Certification Process

Each unit with fire management responsibilities will establish an Incident Qualification Card qualification and certification process, which may include a qualification and certification committee. In areas cooperating with other

- 1 federal, state, or local agencies, an interagency qualification and certification  
2 committee should be established and include representatives from each unit.  
3  
4 These qualification and certification committees provide management oversight  
5 and review of the wildland and prescribed fire positions under their jurisdiction.  
6  
7 The committee:
- 8 • Ensures that qualifications generated by IQCS or other agency systems for  
9 employees are valid by reviewing the training and experience of each  
10 employee.
  - 11 • Determines whether each employee possesses the personal characteristics  
12 necessary to perform the wildland and prescribed fire positions in a safe and  
13 efficient manner.
  - 14 • Makes recommendations to the appropriate Agency Administrator or  
15 designee who is responsible for final certification signature.
  - 16 • Develops interagency training needs and sponsors courses that can be  
17 offered locally.
  - 18 • Ensures training nominees meet minimum requirements for attending  
19 courses.

#### 21 **Non-NWCG Agency Personnel Qualifications**

22 Personnel from non-NWCG agencies meeting NWCG *PMS 310-1* prerequisites  
23 can participate in and receive certificates for successful completion of NWCG  
24 courses. Agency employees can complete the Task Blocks, Evaluation Record  
25 and Verification/Certification sections of a cooperating organizations employee  
26 Position Task Book. Agency employees will not initiate or complete the  
27 Agency Certification sections of Position Task Book for non-agency employees.

28  
29 Personnel from agencies that do not subscribe to the NWCG qualification  
30 standards may be used on agency managed fires. Agency fire managers must  
31 ensure these individuals are only assigned to duties commensurate with their  
32 competencies, agency qualifications, and equipment capabilities.

#### 34 **Non-NWCG Agency Personnel Use on Prescribed Fire**

35 The NWCG *PMS 310-1 Wildland Fire System Qualifications Guide* establishes  
36 the minimum qualifications for personnel involved in prescribed fires on which  
37 resources of more than one agency are utilized - unless local agreements specify  
38 otherwise. This guide may be found at:  
39 <http://www.nwcg.gov/pms/docs/docs.htm>

#### 41 **Incident Qualifications and Certification System (IQCS)**

42  
43 The Incident Qualifications and Certification System (IQCS) is the fire  
44 qualifications and certification record keeping system. The Responder Master  
45 Record report provided by the IQCS meets the agency requirement for  
46 maintaining fire qualification records. The system is designed to provide

1 managers at the local, state/regional, and national levels with detailed  
2 qualification, experience, and training information needed to certify employees  
3 in wildland fire positions. The IQCS is a tool to assist managers in certification  
4 decisions. However, it does not replace the manager's responsibility to validate  
5 that employees meet all requirements for position performance based on their  
6 agency standards.

7 A hard copy file folder will be kept for each employee. The contents will  
8 include, but are not limited to training records for all agency required courses,  
9 evaluations from assignments, position task book verification, yearly updated  
10 IQCS forms, and the Responder Master Record (RPTC028) from IQCS. All  
11 records will be stored and/or destroyed in accordance with agency policies.

- 12 • **BLM** - *These policies can be found at:*  
13 *[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)*  
14 *html*
- 15 • **NPS** - *IQCS Account Managers should have an IQCS Delegation of*  
16 *Authority if they are serving as the Certifying Official. Delegation of*  
17 *Authority can be found at: <http://iqcs.nwcg.gov/main/requestAccount.html>*

### 18 **Certification of Non-Agency Personnel**

19 Non-agency firefighters will be certified by state or local fire departments, or  
20 private training providers approved by a Memorandum of Understanding  
21 (MOU) through their local GACC. Agencies will not assist in the  
22 administration, or sponsor the Work Capacity Test (WCT), as the certifying  
23 agency.  
24

### 25 **Incident Qualification Card**

26 The Agency Administrator (or delegate) is responsible for annual certification of  
27 all agency and Administratively Determined (AD) personnel serving on wildfire,  
28 prescribed fire, and all hazard incidents. This responsibility includes monitoring  
29 medical status, fitness, training, performance, and ensuring the responder meets  
30 all position performance requirements.  
31

32 Training, medical screening, and successful completion of the appropriate WCT  
33 must be accomplished and documented. All Incident Qualification Cards issued  
34 to agency employees, with the exception of Emergency Firefighter (EFF-paid or  
35 temporary employees at the FFT2 level), will be printed using the IQCS.

36 Incident Qualification Cards issued to EFF or temporary employees at the FFT2  
37 level may be printed without use of the IQCS.  
38

39 Each agency will designate employees at the national, regional/state, and local  
40 levels as Fire Qualifications Administrators, who ensure all incident experience,  
41 incident training, and position Task Books for employees within the agency are  
42 accurately recorded in the IQCS. All records must be updated annually or  
43 modified as changes occur.  
44

- 45 • **NPS**- *Certification for Area Command and Type 1 Command and General*  
46 *Staff (C&GS) position task books will be done at the national office level;*

- 1     *Type 2 C&GS, and any position task books issued to park fire management*  
2     *officers will be certified at the regional office level. All other position task*  
3     *books may be certified at the local unit level.*
- 4     ● **NPS-** *It is NPS policy that two or more assignments be accomplished after*  
5     *completing a Position Task Book, and receiving certification, before an*  
6     *individual begins movement to the next higher level. It is also NPS policy to*  
7     *require two or more qualified assignments be accomplished in a position*  
8     *before an individual may become a position performance evaluator. The*  
9     *only exceptions to this policy are unit leader positions leading to Planning*  
10    *Section Chief, Logistics Section Chief, or Finance Section Chief.*  
11    *Subordinate unit leader positions require a minimum of one assignment*  
12    *after the PTB completion and position certification.*
  - 13    ● **FS-** *Refer to FSH 5109.17, chapter 10, and the FAQG.*
  - 14    ● **BLM-** *BLM Recertification Policy: If an employee (including an agency-*  
15    *sponsored AD) has lost currency in a position, the employee is converted to*  
16    *trainee status for that position. In order to regain full qualification for the*  
17    *position, the employee must demonstrate the ability to perform in the*  
18    *position as determined by the Certifying Official. Prior to recertification,*  
19    *the employee must:*
    - 20    ○ *Complete the BLM Recertification Evaluation found at:*  
21    *[http://www.blm.gov/nifc/st/en/prog/fire/training/fire\\_training.html](http://www.blm.gov/nifc/st/en/prog/fire/training/fire_training.html)*
    - 22    ○ *Complete one or more evaluation assignments.*
    - 23    ○ *Complete any additional requirements as determined by the Certifying*  
24    *Official (e.g. additional assignments and/or courses).*
- 25    *NOTE: This policy only applies to positions for which a task book is*  
26    *required.*

#### 27 28 **Incident Qualification Card Expiration Dates**

29 Incident Qualification Cards for responders that possess qualifications requiring  
30 Work Capacity Tests (WCT) and the Annual Fireline Safety Refresher Training  
31 course (RT-130) are valid through the earliest expiration date (either fitness or  
32 refresher) listed on the card. Incident Qualification Cards for responders that  
33 possess qualifications that do not require WCT or RT-130 for issuance are valid  
34 for 12 months from the date the card is signed by a certifying official.

- 35    ● **FS-** *the WCT is considered effective for 13 months from the date passed. If*  
36    *an employee is on an emergency assignment on the date their*  
37    *WCT/refresher expires, they will complete their assignment including any*  
38    *extensions. Upon return to their duty station, they must complete the*  
39    *WCT/refresher and acquire a new Incident Qualification Card prior to*  
40    *accepting any new assignments.*

#### 41 42 **Universal Training Requirements**

43  
44 All personnel filling NWCG recognized positions on the fireline must have  
45 completed:

- 46    ● S-130 Firefighter Training (including the required field exercises);

- 1 • S-190 Introduction to Wildland Fire Behavior;
- 2 • L-180 Human Factors on the Fireline;
- 3 • ICS-100 Introduction to ICS; and
- 4 • IS-700A NIMS: An Introduction (or current version).

### 6 **Annual Fireline Safety Refresher Training**

7  
8 Annual Fireline Safety Refresher Training is required for those positions  
9 identified in the *Wildland Fire Qualifications System Guide* (NWCG 310-1).  
10 Annual Fireline Safety Refresher Training must include the following core  
11 components:

- 12 • **Entrapment Avoidance-** Use training and reference materials to study the  
13 risk management process as identified in the *Incident Response Pocket*  
14 *Guide* (IRPG) as appropriate to the participants, e.g., LCES, Standard  
15 Firefighting Orders, Watch Out Situations, Wildfire Decision Support  
16 System (WFDSS) direction, Fire Management Plan priorities, etc.;
- 17 • **Current Issues-** Review and discuss current topics which could be based  
18 on the new modules or areas of concern identified by your agency or  
19 geographic area. Review forecasts and assessments for the upcoming fire  
20 season and discuss implications for firefighter safety;
- 21 • **Fire Shelter-** Review and discuss last resort survival including escape and  
22 shelter deployment site selection. Conduct “hands-on” fire shelter  
23 inspections. Practice shelter deployments in applicable crew/module  
24 configurations (wearing fireline personal protective equipment during fire  
25 shelter practice can enhance the learning experience for students); and
- 26 • **Other Hazards and Safety Issues-** Choose additional hazard and safety  
27 subjects, which may include SAFENET, current safety alerts, site/unit  
28 specific safety issues and hazards.

29  
30 These core components must be sufficiently covered to ensure that personnel are  
31 aware of safety concerns and procedures and can demonstrate proficiency in fire  
32 shelter deployment. The minimum refresher training hour requirements for each  
33 agency is identified below. Training time may be extended in order to  
34 effectively complete this curriculum or to meet local training requirements.

- 35 • **BLM** - 4 hours
- 36 • **FWS/FS** - No minimum hourly requirement; core topics as shown above  
37 will be covered.
- 38 • **NPS** - 8 hours

39  
40 The Annual Fireline Safety Refresher Training course (RT-130) is not a self-  
41 study course. Minimum requirements have been established for instructors for  
42 Annual Fireline Safety Refresher Training. These requirements will ensure that  
43 an appropriate level of expertise and knowledge is available to facilitate  
44 refresher training exercises and discussions.

- 45 • Lead instructors must be a qualified single resource boss;

- 1 • Unit instructors must be a qualified firefighter type one (FFT1); and
- 2 • Adjunct instructors may be utilized to provide limited instruction in  
3 specialized knowledge and skills at the discretion of the lead instructor.  
4 They must be experienced, proficient and knowledgeable of current issues  
5 in their field of expertise.
- 6 • All instructors will need the knowledge and skills to utilize current  
7 educational technology as it relates to the Wildland Fire Safety Training  
8 Annual Refresher (WFSTAR) website, such as video streaming,  
9 downloading interactive videos, and use of mobile applications and devices.

10

11 For additional information please refer to the current *NWCG Field Manager's*  
12 *Course Guide* (PMS 901-1) at:

13 <http://www.nwcg.gov/pms/training/fmcg.pdf>.

14

15 Annual Fireline Safety Refresher Training will have a 12-month currency.  
16 Firefighters who receive initial fire training are not required to take Annual  
17 Fireline Safety Refresher Training in the same calendar year. A web site,  
18 <http://www.nifc.gov/wfstar/index.htm>, titled *Wildland Fire Safety Training*  
19 *Annual Refresher (WFSTAR)* is available to assist in this training.

20

21 Entrapment avoidance and deployment protocols are identified in the *Incident*  
22 *Response Pocket Guide (IRPG)* (PMS No. 461/NFES No.1077). The guide  
23 contains a specific “Risk Management Process” and “Last Resort Survival  
24 Checklist”.

- 25 • **BLM** - The “Do What’s Right” training is required annual training but is  
26 not a prerequisite for issuance of an Incident Qualification Card.

27

## 28 **Physical Fitness**

29

### 30 **Physical Fitness and Conditioning**

31 Agency Administrators are responsible for ensuring the overall physical fitness  
32 of firefighters. Employees serving in wildland fire positions that require a  
33 fitness rating of arduous as a condition of employment are authorized one hour  
34 of duty time each work day for physical fitness conditioning. Employees  
35 serving in positions that require a fitness rating of moderate or light may be  
36 authorized up to three hours per week.

37

38 Fitness conditioning periods may be identified and structured to include aerobic  
39 and muscular exercises. Team sports are not authorized for fitness conditioning.  
40 Chapters 5, 6, 7, 8, and 9 and appendices F, G, and H of *Fitness and Work*  
41 *Capacity 2009 ed.* (PMS 304-2, NFES 1596) and the FireFit Program  
42 (<http://www.nifc.gov/FireFit/index.htm>) provide excellent guidance concerning  
43 training specifically for the pack test, aerobic fitness programs, and muscular  
44 fitness training.

- 1 • *FS - Forest Service direction is found in FSH 5109.17 and the FAQG.*  
2 *NFFE Partnership bargaining unit employees may only be required to*  
3 *successfully complete the WCT once per year.*
- 4 • *XXX FWS- When an arduous fitness rating is not a condition of*  
5 *employment, and employee who has a documented requirement or written*  
6 *agreement to maintain an arduous fitness level will be authorized three*  
7 *hours per week of duty time for fitness conditioning. All other wildland fire*  
8 *personnel who maintain qualifications that require a fitness level of*  
9 *moderate or arduous may be authorized by their supervisor for up to three*  
10 *hours per week for fitness conditioning. Employees and supervisors must*  
11 *agree in writing on approved activities and details regarding when and*  
12 *where they will occur.*
- 13 • *NPS – A fitness plan is required for all NPS personnel participating in a*  
14 *fitness program (DO-57). For health and fitness purposes, those who are*  
15 *fire-qualified at less than the arduous fitness level are not required to meet*  
16 *the mandatory fitness program requirements of DO-57 for wildland fire*  
17 *management. They are strongly encouraged to participate in the voluntary*  
18 *fitness program, and must still meet physical fitness/work capacity*  
19 *requirements as outlined in the Wildland Fire Qualifications System Guide*  
20 *(310-1) for positions with Moderate and Light fitness requirements.*

## 22 Medical Examinations and Work Capacity Tests

23

24 Agency Administrators and supervisors are responsible for the occupational  
25 health and safety of their employees performing wildland fire activities, and may  
26 require employees to take a medical examination at any time.

27

28 Established medical qualification programs, as stated in 5 CFR 339, provide  
29 consistent medical standards in order to safeguard the health of employees  
30 whose work may subject them or others to significant health and safety risks due  
31 to occupational or environmental exposure or demand.

32

33 *XXX Moved from below*

34 *XXX BLM/FWS/NPS- If the HSQ or Annual Exam results in a status of*  
35 *“cleared”, but the Servicing Human Resource Officer (SHRO) or FMO has a*  
36 *XXX direct specific concern about an employee’s/applicant’s capacity to meet*  
37 *the physical or medical requirements of a position, the agency may require the*  
38 *employee/applicant to report for a specific medical evaluation. For more*  
39 *information, contact your SHRO or agency Wildland Fire Safety Program*  
40 *Manager.*

41

42 *XXX Any employee with an active worker’s compensation (OWCP) case or*  
43 *other medical limitations must disclose any limiting factors/restrictions as part*  
44 *of the medical examination process.*

45

1 Information on any medical records is considered confidential and must be kept  
2 in the employee's medical file.

3

4 **Department of Interior Wildland Firefighter Medical Standards Program**  
5 **(DOI/MSP) - Arduous Fitness Level**

6 All permanent, career-seasonal, temporary, Student Career Experience Program  
7 (SCEP) employees, and AD/EFF who participate in wildland fire activities  
8 requiring a fitness level of *arduous* must participate in the DOI-MSP at the  
9 appropriate level (see Examination Matrix on the MSP website) and must be  
10 cleared prior to attempting the WCT. Additional information regarding the  
11 DOI-MSP can be obtained at [http://www.nifc.gov/medical\\_standards/](http://www.nifc.gov/medical_standards/).

- 12 • *FS - Refer to current agency direction:*  
13 [http://www.fs.fed.us/fire/safety/wct/wct\\_index.html](http://www.fs.fed.us/fire/safety/wct/wct_index.html)

14

15 **XXX This section moved up**

16 ~~If the HSQ or Annual Exam results in a status of "cleared", but the Servicing~~  
17 ~~Human Resource Officer (SHRO) or FMO has a XXX direct specific concern~~  
18 ~~about an employee's/applicant's capacity to meet the physical or medical~~  
19 ~~requirements of a position, the agency may require the employee/applicant to~~  
20 ~~report for a specific medical evaluation. For more information, contact your~~  
21 ~~SHRO or agency Wildland Fire Safety Program Manager.~~

22

23 If any "yes" answer is indicated on the HSQ, an annual exam is required prior to  
24 the employee taking the Arduous WCT. Cost of the exam will be covered at the  
25 National level.

26

27 If an examining clinician believes diagnostic testing beyond what is required by  
28 the Wildland Firefighter Medical Standards Program is needed to determine  
29 medical clearance, then agency approval is required before the tests are  
30 conducted. If the agency approves the clinician request, or requests further  
31 testing themselves, then the agency is responsible for payment. Additional  
32 testing or treatment requested by the employee/applicant shall be at their own  
33 expense.

34

35 Employees or applicants who fail to meet the Federal Interagency Wildland  
36 Firefighter Medical Qualification Standards as a permanent, seasonal/temporary,  
37 or term employee may not perform as an AD/EFF for arduous duty positions.

38

39 If a Department of the Interior arduous duty wildland firefighter (WLFF)  
40 develops a change in medical status (injury or illness) between yearly medical  
41 exams or HSQs that prevents them from performing arduous duty lasting longer  
42 than three consecutive weeks, the WLFF is required to report this change to  
43 his/her supervisor who can request additional medical information and  
44 reevaluate the WLFF clearance status.

- 45 • *NPS - The law enforcement medical exam for NPS rangers, who are*  
46 *collateral duty wildland firefighters, will suffice for MSP clearance.*

- 1 • *NPS - Medical clearance must be entered into IQCS.*  
2 • *FWS- Periodicity requirements for Refuge law enforcement examinations*  
3 *will be applied to arduous duty wildland fire positions. Law enforcement*  
4 *officers wishing to perform in NWCG PMS 310-1 or USFWS agency*  
5 *specific wildland fire positions with an arduous fitness requirement must*  
6 *pass the arduous work capacity test on an annual basis. The HSQ will be*  
7 *used for off exam years prior to arduous work capacity testing.*

8  
9 **Medical Exam Process for Light and Moderate Fitness Levels**

10 This section applies to employees who are only required to complete the WCT  
11 at the light or moderate fitness level.

12  
13 If any “Yes” answer is indicated on the HSQ, a medical examination is required  
14 prior to the employee taking the WCT.

15  
16 Medical examinations will be performed utilizing the *Certificate of Medical*  
17 *Exam, U.S. Office of Personnel Management OF-178*. Stress EKGs are not  
18 required as part of the medical examination and will only be approved if  
19 recommended and administered by the medical examining physician. Cost for  
20 exams will be borne by the home unit. If medical findings during exam require  
21 further evaluation, then the cost of any further evaluation or treatment is borne  
22 by the employee/applicant. Costs for additional tests specifically requested by  
23 the agency will be borne by the home unit.

- 24 • *FS- Medical exams will be paid from a Washington Office fund code.*

25  
26 If the SHRO or FMO has a direct concern about an employee’s/applicant’s  
27 capacity to meet the physical or medical requirements of a position, the agency  
28 may require the employee/applicant to report for a specific medical evaluation.  
29 For more information, contact your SHRO or agency Wildland Fire Safety  
30 Program Manager.

31  
32 Standards for medical examinations using the OF-178 for light and moderate  
33 positions are available at:

34 [http://www.blm.gov/nifc/st/en/prog/fire/more/human\\_resources/forms.html](http://www.blm.gov/nifc/st/en/prog/fire/more/human_resources/forms.html)

35  
36 The examining physician will submit the completed OF-178 (and applicable  
37 supplements) to the employee’s servicing human resources office, where it will  
38 be reviewed and retained in the employee’s medical file.

- 39 • *NPS- The law enforcement medical exam for NPS rangers, who are*  
40 *collateral duty wildland firefighters, will suffice for arduous, moderate, and*  
41 *light fitness level clearance.*  
42 • *FWS- Periodicity requirements for Refuge law enforcement examinations*  
43 *will be applied to light or moderate. Law enforcement officers wishing to*  
44 *perform in NWCG PMS 310-1 or USFWS agency-specific wildland fire*  
45 *positions with a light or moderate fitness requirement must pass the*

1 appropriate level work capacity test on an annual basis. The HSQ will be  
 2 used for off exam years prior to light or moderate work capacity testing.

3

#### 4 **Health Screen Questionnaire (HSQ)**

5 Title 5 CFR Part 339 - Medical Qualification Determinations, which provides a  
 6 determination of an individual's fitness-for-duty, authorizes solicitation of this  
 7 information.

8

9 The approved OMB Health Screen Questionnaire (HSQ) may be found at:  
 10 [http://www.nifc.gov/medical\\_standards/documents/NewExamProcess/5100-](http://www.nifc.gov/medical_standards/documents/NewExamProcess/5100-31.pdf)  
 11 [31.pdf](http://www.nifc.gov/medical_standards/documents/NewExamProcess/5100-31.pdf)

12

13 The information on the HSQ is considered confidential and once reviewed by  
 14 the test administrator to determine if the WCT can be administered, it must be  
 15 kept in the employee's medical file (EMF). This file may only be viewed by  
 16 Human Resource Management (HRM) or Safety personnel.

- 17 • *FS - See Work Capacity Tests for Wildland Fire Qualifications*  
 18 *Implementation Guide, see website:*  
 19 [http://www.fs.fed.us/fire/safety/wct/wct\\_index.html](http://www.fs.fed.us/fire/safety/wct/wct_index.html)

20

#### 21 **Work Capacity Test (WCT) Categories**

22 The *NWCG Wildland Fire Qualification System Guide, PMS 310-1* identifies  
 23 fitness levels for specific positions. There are three fitness levels - Arduous,  
 24 Moderate, and Light - which require an individual to demonstrate their ability to  
 25 perform the fitness requirements of the position. Positions in the "no fitness  
 26 level required" category are normally performed in a controlled environment,  
 27 such as an incident base.

28

29 Law Enforcement physical fitness standard is accepted as equivalent to a "light"  
 30 WCT work category.

31

32

**Work Capacity Test Categories**

WCT Category	Distance	Weight	Time
<b>Arduous Pack Test</b>	3 miles	45 lb	45 min.
<b>Moderate Field Test</b>	2 miles	25 lb	30 min
<b>Light Walk Test</b>	1 mile	None	16 min

33

- 34 • **Arduous** - Duties involve field work requiring physical performance with  
 35 above average endurance and superior conditioning. These duties may  
 36 include an occasional demand for extraordinarily strenuous activities in  
 37 emergencies under adverse environmental conditions and over extended  
 38 periods of time. Requirements include running, walking, climbing,  
 39 jumping, twisting, bending, and lifting more than 50 pounds; the pace of the  
 40 work typically is set by the emergency conditions.

- 1 • **Moderate** - Duties involve field work requiring complete control of all  
2 physical faculties and may include considerable walking over irregular  
3 ground, standing for long periods of time, lifting 25 to 50 pounds, climbing,  
4 bending, stooping, twisting, and reaching. Occasional demands may be  
5 required for moderately strenuous activities in emergencies over long  
6 periods of time. Individuals usually set their own work pace.
- 7 • **Light** - Duties mainly involve office type work with occasional field  
8 activity characterized by light physical exertion requiring basic good health.  
9 Activities may include climbing stairs, standing, operating a vehicle, and  
10 long hours of work, as well as some bending, stooping, or light lifting.  
11 Individuals can usually govern the extent and pace of their physical activity.

12

### 13 **Work Capacity Test (WCT) Administration**

14 The Work Capacity Test (WCT) is the official method of assessing wildland  
15 firefighter fitness levels. General guidelines can be found in the “*Work*  
16 *Capacity Tests for Wildland Firefighters, Test Administrator’s Guide*” PMS  
17 307, NFES 1109.

- 18 • **FS-** for FS direction on WCT administration, refer to “FS Work Capacity  
19 *Tests for Wildland Fire Qualifications Implementation Guide*” at:  
20 [http://www.fs.fed.us/fire/safety/wct/wct\\_index.html](http://www.fs.fed.us/fire/safety/wct/wct_index.html)

21

22 WCT Administrators must ensure that WCT participants have been medically  
23 cleared, either through Wildland Firefighter Medical Qualification Standards or  
24 agency specific medical examination.

25

26 **XXX At a minimum,** WCTs are administered annually to all employees,  
27 including AD/EFF who will be serving in wildland fire positions that require a  
28 fitness level. The currency for the WCT is 12 months.

- 29 • **FS-** Currency for WCT is 13 months.

30

31 The WCT results shall be documented on the WCT Record available online as  
32 Appendix O at [http://www.nifc.gov/policies/policies\\_main.html](http://www.nifc.gov/policies/policies_main.html). The WCT  
33 Record captures information that is covered under the Privacy Act and should be  
34 maintained in accordance with agency Freedom of Information Act (FOIA)  
35 guidelines.

36

37 Administration of the WCT of non-federal firefighters is prohibited for liability  
38 reasons. Potential emergency firefighters who would be hired under Emergency  
39 Hire authority by the agency must be in AD pay status or sign an agency  
40 specific volunteer services agreement prior to taking the WCT.

41

42 A Job Hazard Analysis (JHA) or Risk Assessment (RA) shall be developed and  
43 approved for each field unit prior to administering the WCT. Administer the  
44 test using the JHA/RA as a briefing guide.

- 45 • **BLM** - A risk assessment shall be developed and approved for each field  
46 unit prior to administering the WCT. A RA for the WCT can be found at:

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13-11

1 [http://web.blm.gov/portal/employeeresources/allemployees/safety/riskmana](http://web.blm.gov/portal/employeeresources/allemployees/safety/riskmanagement.php)  
2 [gment.php](http://web.blm.gov/portal/employeeresources/allemployees/safety/riskmana)

3  
4 The local unit shall prepare a medical response plan (such as an ICS-206 form),  
5 evaluate options for immediate medical care and patient transport, and identify  
6 closest emergency medical services. A minimum of a qualified Medical First  
7 Responder/Emergency Medical Responder (EMR) must be on site during WCT  
8 administration. Based upon a thorough evaluation of potential medical  
9 treatment and evacuation scenarios, a higher level of on-site emergency medical  
10 qualifications and equipment may be warranted (e.g. Emergency Medical  
11 Technician (EMT) or paramedic).

12  
13 An Automatic External Defibrillator (AED) is required on-site during all WCTs.

14  
15 Personnel taking the WCT will only complete the level of testing (Pack, Field,  
16 Walk) required by the highest fitness level identified for a position on their  
17 Incident Qualification Card. Employees shall not take the WCT unless they  
18 have an Incident Qualification Card qualification that requires it, and only at the  
19 fitness level required by that position as identified in the NWCG 310-1 or  
20 agency specific guidance or policy.

21  
22 Treadmills are not approved for Work Capacity Testing.

23  
24 WCT results must be entered into the IQCS annually to update the fitness level  
25 and date that will appear on the Incident Qualification Card. WCT dates entered  
26 in IQCS will reflect the date the employee passed the fitness test. The results of  
27 the most recent WCT will always supersede the results of any previous WCT,  
28 even if previous WCTs were within the currency period.

29 • *FWS/NPS- Law Enforcement Officers are required to provide a copy of the*  
30 *medical clearance for verification and tracking purposes to the appropriate*  
31 *incident qualifications and certifications system (IQCS) account manager.*  
32 *Account managers will reflect the appropriate examination type and*  
33 *currency for the Law Enforcement Officer examinations in the physical*  
34 *examinations portion of the IQCS system.*

### 35 36 **WCT- Retesting**

37 Those who do not pass the WCT will be provided another opportunity to retest.  
38 Employees will have to wait at least 48 hours before retaking the WCT. If an  
39 employee sustains an injury (verified by a licensed medical provider) during a  
40 test, the test will not count as an attempt. Once an injured employee has been  
41 released for full duty, the employee will be given time to prepare for the test (not  
42 to exceed 4 weeks). The numbers of retesting opportunities that will be allowed  
43 include:

44 • Three opportunities for permanent employees required to pass a test for  
45 duties in the fire program.

- 1 • One opportunity for temporary employees required to pass a test (a second  
2 chance maybe provided at the discretion of fire management).  
3

#### 4 **Minimum Age Requirements for Hazardous Duty Assignments on Federal** 5 **Incidents**

6  
7 Persons under 18 years old will not perform hazardous duties during wildland  
8 fire management operations on federal jurisdictions.  
9

#### 10 **Engine Modules**

11  
12 Staffing levels and specific requirements for engine personnel may be found in  
13 Chapter 14, Fire Fighting Equipment.

#### 14 **Helicopter Modules**

15  
16 Staffing levels and specific requirements for helicopter personnel may be found  
17 in Chapter 16, Aviation.  
18

#### 19 **Smokejumpers (SMKJ)**

20  
21 Smokejumpers provide professional and effective fire suppression, fuels  
22 reduction, and fire management services to help land managers meet objectives.  
23

#### 24 **SMKJ Policy**

25 Smokejumper operations are guided by direction in the interagency section of  
26 the *Interagency Smokejumper Operations Guide (ISOG)*.  
27

28 Each base will comply with smokejumper operations standards. The arduous  
29 duties, specialized assignments, and operations in a variety of geographic areas  
30 require smokejumpers to have uniform training, agency approved equipment,  
31 communications, organization, and operating procedures.  
32

#### 33 **SMKJ Communications**

34 All smokejumpers carry programmable radios and are proficient in their use and  
35 programming procedures.  
36

#### 37 **SMKJ Training**

38 To ensure proficiency and safety, smokejumpers complete annual training that  
39 covers aspects of aviation, parachuting, fire suppression tactics, administrative  
40 procedures, and safety related to the smokejumper mission and fire operations.  
41 The training program for first-year smokejumpers is four weeks long.  
42 Candidates are evaluated to determine:

- 43 • Level of physical fitness;
- 44 • Ability to learn and perform smokejumper skills;
- 45 • Ability to work as a team member;
- 46 • Attitude; and

**Release Date: January 2015**

- 1 • Ability to think clearly and remain productive in a stressful environment.

2

3 **SMKJ Target Qualifications<sup>1</sup>**

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	

4 **XXX<sup>1</sup> Refer to chapter 2 for BLM target SMKJ Qualifications.**

5

6 **SMKJ Physical Fitness Standards**

7 The national minimum standards for smokejumpers are:

- 8 • 1.5 mile run in 11:00 minutes or less;
- 9 • 45 sit-ups;
- 10 • 25 pushups;
- 11 • 7 pull-ups;
- 12 • 110 lb. pack-out over 3 miles/level terrain/90 minutes\*; and
- 13 • Successful completion of the WCT at the arduous level.

14 \*This element is tested during Smokejumper Rookie Training.

15

16 **Interagency Hotshot Crews (IHC)**

17

18 Interagency Hotshot Crews provide an organized, mobile, and skilled hand crew  
19 for all phases of wildfire suppression. IHCs are comprised of 18-25 firefighters  
20 and are used primarily for wildfire suppression, fuels reduction, and other fire  
21 management duties. IHC's are capable of performing self-contained initial  
22 attack suppression operations, and commonly provide incident management  
23 capability at the Type 3 or 4 levels.

24

25 **IHC Policy**

26 IHC standards provide consistent planning, funding, organization, and  
27 management of the agency IHCs. The sponsoring unit will ensure compliance  
28 with the established standards. The arduous duties, specialized assignments, and  
29 operations in a variety of geographic areas required of IHCs dictate that training,  
30 equipment, communications, transportation, organization, and operating  
31 procedures are consistent for all agency IHCs.

32

33 As per agency policy, all IHCs will be managed under the *Standards for*  
34 *Interagency Hotshot Crew Operations (SIHCO)*.

- 35 • **BLM/NPS - BLM Preparedness Review Checklist #18 (Hotshot Crew)**  
36 *supersedes the checklist found in the SIHCO.*

- 1 • **XXX BLM** – Additional guidance for BLM IHCs is contained in chapter 2.

2

### 3 **IHC Certification**

4 The process for IHC certification is found in the *Standards for Interagency*  
5 *Hotshot Crews* (SIHCO).

6

### 7 **Annual Crew Pre-Mobilization Process**

8 The superintendent of crews holding IHC status the previous season are required  
9 to complete the Annual IHC Mobilization Checklist (SIHCO Appendix C) and  
10 send the completed document to the local GACC prior to making the crew  
11 available for assignment each season.

12

### 13 **Annual IHC Readiness Review**

14 On an annual basis the superintendent of crews holding IHC status the previous  
15 season are required to complete the Annual IHC Preparedness Review (SIHCO  
16 Appendix B). This process is designed to evaluate crew preparedness and  
17 compliance with SIHCO. The annual review will be conducted while the crew  
18 is fully staffed and operational. The review is not required prior to a crew being  
19 made available for incident assignment at the beginning of their availability  
20 period. When a review document is completed, the document is kept on file at  
21 the local (host) unit fire management office.

22

### 23 **IHC Organization**

24 Individual crew structure will be based on local needs using the following  
25 standard positions: Superintendent, Assistant Superintendent, Squad Leader,  
26 Skilled Firefighter, and Crewmember.

- 27 • *BLM/NPS- IHCs have the option of traveling with 25 personnel when on*  
28 *incident assignments as authorized by the local unit. IHC superintendents*  
29 *will obtain prior approval from the dispatching GACC when the assignment*  
30 *requires fixed wing transport and the crew size is greater than 20.*

31

### 32 **IHC Availability Periods**

33 IHCs will have minimum availability periods as defined in the *SIHCO*.  
34 Availability periods may exceed the required minimum availability period. The  
35 Crew Superintendent will inform the local supervisor and the GACC of any  
36 changes in the crew's availability.

37

### 38 **National IHC Status Reporting System**

39 IHCs will report status through the National IHC Status Reporting System. IHC  
40 superintendents will regularly update the system with any change in crew status  
41 and/or current utilization when on assignment.

42

43 IHCs may report status by three methods:

- 44 • Via e-mail to BLM\_FC\_Crews@blm.gov (preferred method);  
45 • Via the internet to the Hotshot Status submission form (link available from  
46 the Crew page of the NICC website); or

- 1 • Contacting the NICC Crew Desk at 208-387-5400.

2

3 **IHC Communications**

4 IHCs will provide a minimum of five programmable multi-channel radios per  
5 crew as stated in the *SIHCO*.

6

7 **IHC Transportation**

8 Crews will be provided adequate transportation. The number of vehicles used to  
9 transport a crew should not exceed five. All vehicles must adhere to the  
10 certified maximum Gross Vehicle Weight (GVW) limitations.

11

12 **Other Hand Crews**

13

14 **Policy**

15 All crews must meet minimum crew standards as defined below as well as any  
16 additional agency, state, or contractual requirements. Typing will be identified  
17 at the local level with notification made to the local GACC.

18

19 **MINIMUM CREW STANDARDS FOR NATIONAL MOBILIZATION**

Minimum Standards	Type 1	Type 2 with IA Capability	Type 2
<b>Fireline Capability</b>	Initial attack/can be broken up into squads, fireline 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
<b>Crew Size</b>	18-20		
<b>Leadership Qualifications</b>	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
<b>Language Requirement</b>	All senior leadership including Squad Bosses and higher must be able to read and interpret the language of the crew as well as English.		
<b>Experience</b>	80% 1 season	60% 1 season	20% 1 season
<b>Full Time Organized Crew</b>	Yes (work and train as a unit 40 hrs per week)	No	No
<b>Communications</b>	5 programmable radios	4 programmable radios	
<b>Sawyers</b>	3 agency qualified	3 agency qualified	None
<b>Training</b>	As required by the SIHCO 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
<b>Logistics</b>	Crew level agency purchasing authority	No purchasing authority	No purchasing authority
<b>Maximum Weight</b>	5300 lbs		

<b>Dispatch Availability</b>	Available nationally	Available nationally	Variable
<b>Production Factor</b>	1.0	.8	.8
<b>Transportation</b>	Own transportation	Transportation needed	Transportation needed
<b>Tools &amp; Equipment</b>	Fully equipped	Not equipped	Not equipped
<b>Personal Gear</b>	Arrives with: Crew First Aid kit, personal first aid kit, headlamp, 1 qt canteen, web gear, sleeping bag		
<b>PPE</b>	All standard designated fireline PPE		
<b>Certification</b>	Must be annually certified by the local host unit Agency Administrator or designee prior to being made available for assignment.	N/A	N/A

- 1 • **BLM-** for additional standards and certification requirements, refer to  
2 Chapter 2.

3  
4 **Wildland Fire Modules**

5  
6 The primary mission of WFM’s is to provide an innovative, safe, highly mobile,  
7 logistically independent, and versatile fire crew with a primary commitment to  
8 support fire’s role as a natural ecological process to restore and maintain  
9 resilient landscapes while providing for fire-adapted communities.

10  
11 WFMs are comprised of 7 – 10 firefighters. The WFM program facilitates the  
12 use of fire and other management techniques involving planned and unplanned  
13 wildland fire events. WFMs are highly skilled and versatile fire crews, which  
14 provide technical and ecological based expertise in the areas of long term  
15 planning, ignitions, holding, and suppression, and fire effects monitoring. For  
16 more information please refer to PMS – 430: *Interagency Standards for*  
17 *Wildland Fire Module Operations (ISWFMO)*.

18  
19 **WFM Policy**

20 All WFM operations will be conducted adhering to the *Interagency Standards*  
21 *for Wildland Fire Module Operations (ISWFMO) PMS 430*. Sponsoring units  
22 in conjunction with the appropriate Geographic Area Coordination Center will  
23 ensure compliance of all WFMs according to the standards set within the  
24 ISWFMO. The arduous duties, specialized assignments, and operations in a  
25 variety of geographic areas require WFMs to have uniform training, agency  
26 approved equipment, communications, organization, and operating procedures.

27  
28 **WFM Types and Certification**

29 WFMs ready for assignment will be certified as Type 1 WFM (WFM1) or Type  
30 2 WFM (WFM2). Refer to the *Interagency Standards for Wildland Fire Module*  
31 *Operations (ISWFMO) – PMS 430* for additional information.

1 **WFM Availability Periods**

- 2 WFM's will have minimum availability periods as defined in the ISWFMO.  
 3 Availability for Type 1 WFM's may exceed the minimum period defined. Type 1  
 4 WFM's will be available for off unit assignment during the designated 90 day  
 5 availability period. The module leader will inform the local supervisor and the  
 6 GACC of any changes to the modules availability.

7

8 **WFM Organization**

- 9 Individual module structures vary based on local and agency needs using the  
 10 following standard positions: Module Leader/ Foreman, Assistant Leader/  
 11 Foreman, Lead Firefighter, Senior Firefighter, Crewmember.

12

13

**Minimum WFM Standards for Interagency Mobilization**

Minimum Standards	Type 1	Type 2
<b>Fireline Capability</b>	Ability to form separate logistically self-sufficient independent groups, fire line construction, complex firing operations(backfire), monitoring, strategic planning, fire reconnaissance, public information.	Monitoring, fireline construction, firing to include burnout.
<b>Crew Size</b>	7-10	
<b>Leadership Qualifications</b>	- Qualifications are not tied to a particular position within the WFM. All modules will have the following qualifications: TFLD, RXB2*, ICT4, CRWB, FIRB, FOBS - Module Lead: TFLD, CRWB - Asst. Module Lead: ICT4, FEMO - 1 Squad Boss: ICT5 - 2 Senior Firefighters: FFT1 *RXB2 (1) could be any of the module members	- Crew Boss: CRWB - 1 Squad Boss: ICT5
<b>Language Requirement</b>	All senior leadership, including Squad Bosses and higher, must be able to read and interpret the language of the crew as well as English.	
<b>Experience</b>	90% > 1 season	60% > 1 season
<b>Full Time Organized Crew</b>	Yes (work and train as a unit 40 hrs. per week, 90 continuous days)	No
<b>Communications</b>	5 programmable radios	4 programmable radios
<b>Sawyers</b>	2 agency qualified	1 agency qualified
<b>FEMO</b>	2	2 (1 of 2 can be trainee)
<b>Training</b>	As required by the <i>ISWFMO</i> prior to assignment	Basic firefighter training or RT-130 prior to assignment
<b>Medical First Responder Training</b>	Yes	No
<b>Logistics</b>	Multiple crew level agency purchasing authorities	Generally no purchasing authority, may need assistance by incident logistics
<b>Dispatch Availability</b>	Availability determined by sponsoring agency	Availability variable by sponsoring agency
<b>Mobilization Time</b>	Within 2 hours of receipt of resource order when on duty, 8 hours when off duty	Within 24 hours of receipt of resource order.

<b>Transportation</b>	Own transportation	Transportation needed
<b>Tools &amp; Equipment</b>	Fully equipped for each geographic region.	May need assistance by incident logistics
<b>Specialized Digital, Remote Operations, Monitoring, Equipment</b>	Yes	No
<b>Personal Gear</b>	Arrives with: Crew First Aid kit, personal first aid kit, headlamp, 1 quart canteen, web gear, sleeping bag	
<b>PPE</b>	All standard designated fireline PPE	
<b>Certification</b>	Must be annually certified by the Regional or State Office of the host unit agency administrator or designee prior to being made available for assignment.	Must complete the mobilization checklist by the local host unit or agency administrator or designee prior to being made available for assignment.

- 1 • **BLM-** BLM WFMs will meet standards identified in the Interagency Standards for Wildland Fire Module Operations (PMS 430). In addition, BLM WFMs will meet the following requirements:
  - 2 ○ All BLM WFMs will meet the standards for Type 1 WFMs identified in the Interagency Standards for Wildland Fire Module Operations. Type 2 WFMs will not be formed, sponsored, or stasured in the Resource Ordering and Status System (ROSS) by BLM units.
  - 3 ○ Approval from the Assistant Director, Fire and Aviation is required prior to establishing and/or stasuring new Type 1 WFMs.
  - 4 ○ Any BLM unit may provide personnel to WFMs sponsored by another agency. All BLM personnel must meet the standards outlined in the Interagency Standards for Wildland Fire Module Operations, and the Interagency Standards for Fire and Fire Aviation Operations.
  - 5 ○ Units may utilize Type 1 and/or Type 2 WFMs for BLM incidents. Incident commanders will order the appropriate resource to accomplish incident objectives.
  - 6 ○ Fire Suppression Modules and WFMs are separate and distinct resources. The BLM has established standards for fire suppression modules in chapter 2 of this publication. Fire managers and incident commanders should order the appropriate resource to accomplish incident objectives.
- 7 • **NPS-** Modules are coordinated regionally and mobilized/demobilized through established ordering channels through the GACCs.

**Agency Certified Positions**

As a supplement to the qualifications system, certain agencies have identified the additional positions of Prescribed Fire Burn Boss 3 (RXB3) - see Chapter 17; Engine Operator (ENOP) - see Chapter 2; XXX and Chainsaw Operators and Fallers listed below.

- **BLM-** Personnel hired by the BLM must meet requirements established in the position description. If the position description requires Incident

1        *Command System qualifications, only qualifications and minimum*  
2        *requirements specified in the NWCG Wildland Fire Qualifications Systems*  
3        *Guide (PMS 310-1) will be applied as selective factors and/or screen-out*  
4        *questions. To avoid reducing candidate pools, BLM-specific requirements*  
5        *that are supplemental to the PMS 310-1 may not be used as selective*  
6        *placement factors/screen-out questions. Supplemental BLM-specific*  
7        *training or qualification requirements may only be used as selective factors*  
8        *and/or screen-out questions when requested and justified by the selecting*  
9        *official, and approved by human resources. Impacts to the candidate pool*  
10       *must be addressed in the justification. As with all other BLM or DOI-*  
11       *specific training/experience requirements (e.g. Do What's Right training,*  
12       *purchase card training) that newly hired employees from other agencies*  
13       *may not have, the supervisor and IQCS certifying official are responsible*  
14       *for reconciling that employee's training and IQCS record after the*  
15       *employee has entered on duty. This may be accomplished by providing*  
16       *additional training/experience or by manually awarding competencies as*  
17       *per established IQCS protocol.*

### 19 **Chainsaw Operators and Fallers**

20 **XXX The agencies have established the following minimum qualification and**  
21 **certification process for Chainsaw Operators (Incident Qualification Card**  
22 **certified as Faller A):**

- 23 ● Agency employees who are chainsaw operators and fallers must be  
24 minimally qualified as a FFT2 and meet the arduous fitness standards.
- 25 ● Successful completion of S-212, including the field exercise, or those  
26 portions of S-212 appropriate for Faller A duties;
- 27 ● Agency Administrator (or delegate) certification of qualifications after  
28 verification that training is successfully completed;
- 29 ● Documentation must be maintained for individuals;
- 30 ● The individual tasks required for completion of the "A" Task Book and the  
31 final evaluation for the "A" level saw operators must be verified or signed  
32 by a qualified "B" or "C" level saw operator;
- 33 ● The individual tasks required for completion of the "B" Task Book must be  
34 evaluated by a qualified "B" or "C" level operator. The Final Evaluator  
35 Verification for "B" level operators must be signed by a "C" level saw  
36 operator;
- 37 ● The individual tasks required for completion of the "C" Task Book must be  
38 evaluated by a qualified "C" level operator. The Final Evaluator  
39 Verification for "C" level operators must be signed by an approved "C"  
40 level evaluator;
- 41 ● Each of the states/regions will certify and maintain a list of their current "C"  
42 class saw operators who they approve to be "C" class evaluators;
- 43 ● The certification of "C" class evaluators will remain the responsibility of  
44 the Agency Administrator or delegate; and

- 1 ● All fire related (Incident Qualification Carded) saw operation qualifications  
2 are maintained through the IQCS system and will have a currency of five  
3 years.
- 4 ● **BLM/NPS/FWS**— Position task book found at:  
5 [http://www.nwecg.gov/pms/taskbook\\_agency/index.htm](http://www.nwecg.gov/pms/taskbook_agency/index.htm)
- 6 ● **FS**— FS direction can be found in FSH 5109.17, FAQG, and FSH 6709.11.
- 7 ● **NPS/FWS**— Exceptions to the above policy are:
- 8 ○ Size classes used in the Faller A, Faller B, and Faller C Position Task  
9 Book are guidelines and are not the determining factor in the  
10 complexity of a tree felling operation. The size classes are to be used as  
11 an evaluation tool during trainee evaluation. Chainsaw operators are  
12 expected to conduct a thorough size up of each individual tree and  
13 determine the extent of qualification required to safely perform a  
14 felling operation;
- 15 ○ The individual tasks required for completion of the “B” Task Book and  
16 the final evaluation for the Class “B” saw operations must be verified  
17 by a qualified Class “B” or “C” saw operator; and
- 18 ○ The individual tasks required for completion of the “C” Task Book  
19 must be verified by a qualified “C” level operator.
- 20 ○ **NPS Only**— Final evaluation of “C” level operators must be completed  
21 by a regionally approved “C” level evaluator.
- 22
- 23 XXX In 2014, NWCG established faller qualifications in the PMS 310-1.  
24 Agencies have established additional evaluation and certification requirements:
- 25 ● **XXX BLM/NPS**-Use of the NWCG position task books is required. The  
26 requirements for final evaluators for each position are as follows:
- 27 ○ The individual tasks required for completion of the FAL3 PTB must be  
28 evaluated by a qualified FAL2 or FAL1. The Final Evaluator’s  
29 Verification for a FAL3 trainee must be completed by a qualified FAL2  
30 or FAL1;
- 31 ○ The individual tasks required for completion of the FAL2 PTB must be  
32 evaluated by a qualified FAL2 or FAL1. The Final Evaluator’s  
33 Verification for a FAL2 trainee must be completed by a qualified  
34 FAL1;
- 35 ○ The final certification of all wildfire faller positions will remain the  
36 responsibility of the IQCS Certifying Official.
- 37 ○ All wildfire saw operation qualifications are maintained through the  
38 IQCS system and displayed on the Incident Qualification Card.
- 39 ■ **BLM**- The individual tasks required for completion of the FAL1 PTB  
40 must be evaluated by a qualified FAL1. The Final Evaluator’s  
41 Verification for a FAL1 trainee must be completed by a qualified  
42 FAL1 Evaluator. Each BLM State Fire Management Officer will  
43 certify and maintain a list of their current FAL1 Evaluators;
- 44 ■ **NPS**- The individual tasks required for completion of the FAL1 PTB  
45 must be evaluated by a qualified FAL1. The Final Evaluator’s

- 1                    *Verification for a FAL1 trainee must be completed by a qualified*  
2                    *FAL1;*
- 3     ● *XXX FS- Use of the NWCG combined position task book for FAL1, FAL2,*  
4                    *and FAL3 is not authorized for Forest Service use. Forest Service sawyers*  
5                    *will continue to use agency specific certification processes outlined in*  
6                    *Forest Service Handbook FSH 6709.11, section 22.48. A new Forest*  
7                    *Service manual (FSM 2358) is anticipated for released in early 2015 and*  
8                    *will restructure Forest Service crosscut and chain saw policy. In the*  
9                    *interim:*
- 10                  ○ *Sawyers shall not use saws outside the limits of their certification or*  
11                    *qualifications, except during formal evaluation proceedings or under*  
12                    *the immediate supervision of a higher qualified sawyer.*
- 13                  ○ *All sawyers must comply with FS policy and the FSFAQG requirements*  
14                    *for FAL3, FAL2, or FAL1 to operate a chainsaw or crosscut saw on a*  
15                    *wildland fire incident. Requirements include:*
- 16                    ■ *Possess a current first aid and CPR certification (FSH 6709.11, sec*  
17                    *52.3).*
- 18                    ■ *Initially complete a Nationally Recognized Sawyer Training Course*  
19                    *(Wildland Fire Chain Saw S-212 –or- MTDC Chain Saw or*  
20                    *Crosscut Saw Training Course 0667-2805).*
- 21                    ■ *Completion of a field proficiency evaluation with appropriate saw*  
22                    *operator skill level along with restrictions (if any) noted on their*  
23                    *National Sawyer Certification Card.*
- 24                  ○ *The National Sawyer Certification Card is valid for 3 years and is*  
25                    *subject to review any time prior to expiration. Minimum requirements*  
26                    *for sawyer training and field proficiency reevaluation include:*
- 27                    ■ *Completion of a knowledge refresher (classroom or field) and a field*  
28                    *proficiency evaluation equivalent to the initial evaluation.*
- 29                    ■ *Sawyer Instructors are required to be recertified by instructing at*  
30                    *least one NRSTC or refresher NRSTC every three years.*
- 31                  ○ *FS sawyers may function as evaluators for partner agencies using the*  
32                    *FAL3 and FAL2 position task book.*
- 33                  ○ *Fallers who are certified or recertify after October 1, 2014 will be*  
34                    *required to be certified in progression (i.e. must be FAL3 to be FAL2).*  
35                    *However if the initial evaluation is FAL2 the account manager shall*  
36                    *grant the position competency for FAL3. Those certified initially as*  
37                    *FAL1 will have position competencies for FAL2 and FAL3 granted.*
- 38                  ○ *FS will accept other agency chainsaw certifications on incidents*  
39                    *occurring on FS lands provided they meet NWCG minimum standards.*
- 40                  ○ *FS will accept a transferring employee's faller qualification if it was*  
41                    *certified following the PMS 310-1 standard.*

## Chapter 14 Firefighting Equipment

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### Introduction

The agency wildland fire program equipment resources include engines, dozers, water tenders, and other motorized equipment for fire operations.

### Policy

Each state/region will comply with established standards for training, equipment, communications, organization, and operating procedures required to effectively perform arduous duties in multi-agency environments and various geographic areas.

Approved foam concentrate may be used to improve the efficiency of water, except near waterways where accidental spillage or over spray of the chemical could be harmful to the aquatic ecosystem, or other identified resource concerns.

### Firefighting Engine/Water Tender Common Standards

#### Driving Standard

Refer to driving standards in Chapter 07.

#### Engine/Tactical Water Tender Water Reserve

Engine/Tactical Water Tender Operators will maintain at least 10 percent of the pumpable capacity of the water tank for emergency engine protection and drafting.

#### Chocks

At least one set of wheel chocks will be carried on each engine/water tender and will be properly utilized whenever the engine is parked or left unattended. This includes engine/water tender operation in a stationary mode without a driver “in place”.

#### Fire Extinguisher

All engines/water tenders will have at least one 5 lb. ABC rated (minimum) fire extinguisher, either in full view or in a clearly marked compartment.

#### Nonskid Surfaces

All surfaces will comply with National Fire Protection Association (NFPA) 1906 Standard for Wildland Fire Apparatus requirements.

**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 be illuminated at all times while the vehicle is in  
24 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 at the time of manufacture. Engines currently in  
27 service may be equipped with overhead lighting packages. A red, white, and  
28 amber combination is the accepted color scheme for fire. **XXX Lighting**  
29 **packages containing blue lights are reserved for law enforcement and are not**  
30 **allowed on fire 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 • **XXX DOI BLM/FWS/NPS-** *See agency chapters or policy for specific*  
38 *guidance.*
- 39 • *FS-* *See FSM 5120 and 5130 for red lights and siren policy.*

40

**41 Fire Equipment Maintenance ~~XXX Procedure and Record and Inspections~~**

42 Apparatus safety and operational inspections will be accomplished either on a  
43 post-fire or daily basis. Offices are required to document these inspections.  
44 Periodic maintenance (as required by the manufacturer) shall be performed at

1 the intervals recommended and properly documented. All annual inspections  
 2 will include a pump performance test to ensure the pump/plumbing system is  
 3 operating at desired specifications (pressure and gallons per minute).

4  
 5 **Firefighting Engines**

6  
 7 **Operational Procedures**

8 All engines will be equipped, operated, and maintained within guidelines  
 9 established by the Department of Transportation (DOT), regional/state/local  
 10 operating plans, and procedures outlined in *BLM Manual H-9216, Fire*  
 11 *Equipment and Supply Management*, or agency equivalent. All personnel  
 12 assigned to agency fire engines will meet all gear weight, cube, and manifest  
 13 requirements specified in the *National Mobilization Guide*.

14  
 15 **Engine Typing**

16 Engine typing and respective standards have been established by NWCG.

17

Components	Engine Type						
	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

18 • *FS* - See <http://www.fs.fed.us/fire/equipment/engine-models/models.html> for  
 19 description of Forest Service national engine standards.

20

1 **Fire Engine Staffing**

2 For Type 4,5,6, and 7 engines, minimum staffing is two individuals, including  
 3 an Engine Boss.

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/FWS- ENOP, CDL (tank endorsement)*
- 15 ▪ *FS- FFT1, CDL*

#### 16 ○ **Staffing:** Tactical water tenders will carry a minimum crew of two:

- 17 ▪ *BLM/FWS- One ENOP and One FFT2*
- 18 ▪ *BLM- 668 Super Heavy Tactical Tenders will be staffed with one*
- 19 *engine boss and one engine crewmember.*
- 20 ▪ *FS- One FFT1 and One FFT1/FFT2 firefighter*

21

## 22 Dozers/Tractor Plows

23

### 24 Dozer/Tractor Plow Training and Qualifications

25 Agency personnel assigned as dozer/tractor plow operators will meet the  
26 training standards for a Firefighter 2 (FFT2). This includes all safety and annual  
27 refresher training. While on fire assignments, all operators and support crew  
28 will meet PPE requirements including the use of aramid fiber clothing, hard  
29 hats, fire shelters, boots, etc.

30

### 31 Dozer/Tractor Plow Physical Fitness Standards

- 32 • *XXX BLM/NPS—All employee dozer/tractor plow operators will meet the*  
33 *WCT requirements at the Moderate level before accepting fire assignments.*
- 34 • *XXX FWS—See the Fire Management Handbook*
- 35 • *XXX BLM/FWS/NPS- all employee dozer/tractor plow operators will meet*  
36 *requirements stated in the Federal Wildland Fire Qualifications*  
37 *Supplement*
- 38 • *FS - FS dozer operators refer to FSM 5134.32.*

39

### 40 Dozer/Tractor Plow Operational Procedures

- 41 • Agency owned and operated dozer/tractor plows will be equipped with  
42 programmable two-way radios, configured to allow the operator to monitor  
43 radio traffic.

- 1 • Agency and contract dozer/tractor plows will have agency supplied  
2 supervision when assigned to any suppression operations.
- 3 • Contract dozers must be provided with radio communications, either  
4 through a qualified Heavy Equipment Boss (HEQB) or an agency-supplied  
5 radio. Contract dozer/tractor plows will meet the specifications identified in  
6 their agreement/contract.
- 7 • Operators of dozer/tractor plows and transport equipment will meet DOT  
8 certifications and requirements regarding the use and movement of heavy  
9 equipment, including driving limitations, CDL requirements, and pilot car  
10 use.

11

### 12 **All Terrain Vehicles (ATV)/Utility-Terrain Vehicles (UTV)**

13

14 The operation of ATV/UTVs can be high risk. The use of ATV/UTVs should  
15 be evaluated to ensure that use is essential to accomplish the mission, rather than  
16 for convenience.

- 17 • **BLM-** *No ATVs will be used for industrial use OHV operations.*

18

19 Because of the high risk nature, agencies have developed specific operational  
20 policy (refer to current agency policy). ATV/UTV operators will meet the  
21 training and certification requirements of their agency; employees certified by  
22 their agency will be considered qualified ATV/UTV operators regardless of  
23 incident jurisdiction. Common policy requirements for wildland fire operations  
24 are highlighted below:

- 25 • A JHA/RA must be completed and approved by the supervisor prior to  
26 vehicle operation;
- 27 • All personnel authorized to operate an ATV/UTV must first complete  
28 agency specific or manufacturer-provided training in safe operating  
29 procedures and appropriate PPE;
- 30 • Re-evaluation/Re-certification - Operators shall be re-evaluated every three  
31 years. Infrequent users (less than 16 hours of riding a year) shall have a  
32 check ride prior to scheduled use of an ATV/UTV;
- 33 • Specific authorization for ATV/UTV use is required -- all ATV/UTV  
34 operations must hold a valid Motor Vehicle Operator's Identification Card,  
35 OF-346 or agency equivalent;
  - 36 ○ **XXX DOI-BLM/FWS/NPS-** *Upon completion of agency-specific*  
37 *ATV/UTV training and operator certification requirements, All-Terrain*  
38 *Vehicle Operator (ATVO) will be placed on the employee's Incident*  
39 *Qualification and Certification (IQCS) Card (Red Card). IQCS*  
40 *Certifying Officials are responsible for verifying that ATV/UTV*  
41 *operator qualifications are current, and that the ATVO qualification is*  
42 *removed from the Red Card if agency-specific training, certification, or*  
43 *currency requirements lapse.*

- 1 ○ *NPS- All Off-Highway Vehicle (OHV) operators (including ATV/UTV)*  
2 *must hold a valid state Motor Vehicle Operator's Permit. Operating*  
3 *restrictions identified on the operator's permit must be adhered to*  
4 *while operating an OHV (e.g., use of corrective lenses, etc.). NPS ATV*  
5 *operators must be qualified at either the Basic or Advanced Level as*  
6 *described in RM-50B depending on the hazard potential of the*  
7 *operation. All ATV operators shall be provided refresher training each*  
8 *year in accordance with a JHA and reevaluated by an ASI Certified*  
9 *Trainer every 3 years. The reevaluation shall be documented. RM-*  
10 *50B, Appendix B (ATV Operator Accountability/Certification Tracking*  
11 *Record) may be used to document the reevaluation. Further*  
12 *information on ATV/UTV use is found in RM-50B.*
- 13 ● ATVs can only have a single rider – passengers are prohibited even if ATV  
14 is designed for two riders;
- 15 ● UTVs passengers are limited to the number of seats installed by  
16 manufacturer. The operator and passenger(s) must use seatbelts while the  
17 vehicle is in motion;
- 18 ● Operators must use required PPE while loading/unloading ATV/UTV;
- 19 ● Cargo loads shall be loaded and secured as to not affect the vehicle's center  
20 of gravity, and shall not exceed manufacturer's recommendations for  
21 maximum carrying capacity; and
- 22 ● When transporting external fuel containers with a UTV/ATV, a 5 lb class  
23 BC fire extinguisher must be secured to the UTV/ATV.
- 24 ○ ***BLM-** a 10 lb class BC fire extinguisher is required **XXX for UTVs.***

25  
26 **Required PPE includes:**

27 **ATV Head Protection for Wildland Fire Operations:**

- 28 ● ATV Helmets must be worn at all times during ATV operations (on and off  
29 the fireline); and
- 30 ● ATV Helmets must meet Snell SA2005, SA2010, or DOT certification.
- 31 ○ A ¾ face model meeting Snell SA2005 or SA2010 certification is  
32 acceptable for use.
- 33 ○ Use of half "shorty" helmets requires a JHA/RA for fireline use and  
34 must include justification for its use. Refer to MTDC Tech Tip  
35 publication, *A Helmet for ATV Operators with Fireline Duties* (0651-  
36 2350-MTDC).

37  
38 **UTV Head Protection for Wildland Fire Operations:**

- 39 ● Helmets must meet DOT, ANSI Z90.1; or Snell SA2005 or SA2010 unless:  
40 ○ UTV is used for low speeds and smooth travel surfaces, administrative  
41 use (e.g., campgrounds, incident base camps) UTV operators are not  
42 required to wear hardhats or helmets; or  
43 ○ ~~XXX FWS~~ Refer to 243 FW 6.

- 1 ○ UTV is equipped with approved Rollover Protection System (ROPS),  
2 and:  
3 ■ **BLM** – *A comprehensive and properly prepared RA of the specific*  
4 *conditions demonstrates no more than a medium residual risk*  
5 *level, then a hard hat meeting NFPA 1977 or ANSI Z 89.1*  
6 *standards may be worn with chin straps secured in place under*  
7 *chin.*  
8 ■ **NPS** - *Approved helmets are required for UTV operations that are*  
9 *rated moderate (amber) or high (red) using the "ORV Risk*  
10 *Assessment Tool" included in the NPS Off-Highway Vehicle*  
11 *Policy.*  
12 ■ **FWS**- *XXX Per 243 FW 6.6 B.1, a hardhat meeting NFPA 1977 or*  
13 *ANSI Z 89.1 standards may be worn with chin straps secured in*  
14 *place XXX unless the risk assessment for the operation dictates*  
15 *wearing a securely fastened motorcycle helmet.*  
16 ■ **FS**- *UTV Helmet (for fire use) – Helmets must have Snell SA*  
17 *certification. Wearing hardhats while driving or riding on a UTV*  
18 *is not allowed. Forest Service policy provides no exception to the*  
19 *helmet requirement for low speeds, smooth travel surfaces, or*  
20 *administrative use (FSH 6709.11, Chapter 10).*

21 Eye protection (goggles, face shield, or safety glasses) based upon JHA/RA.

- 22 ○ Eye protection is not required for a UTV equipped with an original  
23 manufacturer windshield that protects the face from branches, flying  
24 debris, etc., unless otherwise required by an associated industrial use  
25 activity or JHA/RA.  
26

27

28 If operating ATV/UTV on the fireline, the following are required:

- 29 ○ Leather or leather/flame resistant combination gloves. Flight gloves  
30 are not approved for fireline use;  
31 ○ Yellow flame resistant shirt;  
32 ○ Flame resistant trousers;  
33 ○ Wildland fire boots; and  
34 ○ Appropriate head protection as described above  
35 ■ **FS**- *Shirt, trousers, and gloves used by USFS personnel must meet*  
36 *Forest Service specification 5100-91(shirt), 5100-92 (trousers),*  
37 *and 6170-5 (gloves) or be certified to the National Fire Protection*  
38 *Association (NFPA) 1977, Standard on Protective Clothing and*  
39 *Equipment for Wildland Fire Fighting.*

40

41 ATV/UTV operator shall carry a personal communication device (e.g. two-way  
42 radio, cellular phone, or satellite phone).

43

44 All other ATV/UTV specific guidance is found in the respective agency's  
45 policy:

- 1 ○ **BLM** - Refer to *BLM Manual 1112-1, Chapter 27 Off-Highway*
- 2 *Vehicles*. [http://web.blm.gov/portal/employeeresources/allemployees/saf](http://web.blm.gov/portal/employeeresources/allemployees/safety/policy.php)
- 3 [ety/policy.php](http://web.blm.gov/portal/employeeresources/allemployees/safety/policy.php)
- 4 ○ **XXX FWS** – Refer to *243-FW-6*
- 5 ○ **NPS** - Refer to *Reference Manual 50B Occupational Health and Safety,*
- 6 *Section 6.1 Off-Highway Vehicle Safety*
- 7 <http://www.nps.gov/policy/RM50Bdoclist.htm>

### 9 **Vehicle Cleaning/Noxious Weed Prevention**

10  
11 Refer to Chapter 11 for guidance on minimizing potential transmission of  
12 invasive species.

### 14 **Incident Remote Automated Weather Stations**

15  
16 Incident Remote Automated Weather Stations (IRAWS – NFES 5869) are  
17 readily deployable, portable weather stations that may be utilized in unprepared  
18 locations to monitor local weather conditions. IRAWS are intended for use on  
19 or near the fireline or at other all-risk incidents, and are installed and operated as  
20 desired by Fire Behavior Analysts (FBAN) and/or Incident Meteorologists  
21 (IMET) to record and distribute real time weather data.

22  
23 National resource IRAWS systems are cached at the National Interagency Fire  
24 Center (NIFC) and may be ordered through standard equipment resource  
25 ordering systems. Following release from an incident, these stations must be  
26 returned to the Remote Sensing/Fire Weather Support Unit (RSFWSU) at NIFC  
27 for maintenance, recalibration, and redeployment.

### 29 **Aerial Ignition Devices**

30  
31 Information on types of aerial ignition devices, operational guidelines, and  
32 personnel qualifications may be found in the *Interagency Aerial Ignition Guide*.

### 34 **Ground Ignition Devices and Transporting/Dispensing Fuel**

35  
36 For ground ignition devices, follow the *Interagency Ground Ignition Guide*  
37 (PMS 443) for operational guidelines, personnel qualifications, and equipment  
38 selection.

39  
40 For transporting and dispensing fuel, follow the *Interagency Transportation*  
41 *Guide for Gasoline, Mixed Gas, Drip-Torch Fuel, and Diesel* (PMS 442). These  
42 guides are posted at <http://www.nwcg.gov/pms/pubs/pubs.htm>.

- 43 ● **FS** - direction is found in *FSH 5109.32a and 6709.11*.
- 44 ● **XXX NPS**- Follow the Forest Service standard for military style jerrican  
45 (UN 3A1) (Page 8, PMS 442)

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## Chapter 15 Communications

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### 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.

Refer to Chapter 7 for policy regarding use of mobile devices while operating a vehicle.

### Radio Communications

Radio communications provide for the flow of tactical information needed for the command/control **XXX and safety** of personnel and resources.

- **BLM/FWS**- *To ensure safe and efficient suppression operations, all BLM/FWS fire resources will use a standard GPS datum and latitude/longitude (coordinate) format when communicating GPS references. The standard datum is WGS84, and the standard coordinate format is Degrees Decimal Minutes (DDM). For other activities (e.g. mapping, fire reporting, planning), agency standards will apply.*

### Radio Contracts

Radios used for fire and aviation activities must be approved by the National Interagency Incident Communication Division (NIICD). Information on contracts, software, hardware requirements and approved radios is available at: <http://www.nifc.gov/NIICD/documents.html>, or contact your agency

Release Date: January 2015

15-1

- 1 Telecommunications Department or the National Interagency Fire Center  
2 Communications Duty Officer (NIFC CDO) at (208) 387-5644.  
3 • **BLM** - For information on BLM contracts, software, and hardware  
4 requirements and approved radios, contact the Branch of Radio Operations  
5 (FA-350) at (208) 387-5830.  
6

### 7 **Radio Frequency Management**

8  
9 FM frequencies are authorized and assigned by the designated Washington  
10 Office frequency manager and managed by the state and local Communications  
11 Officers. Frequencies shall not be used without express permission from the  
12 local, state, regional, or national level designated frequency management  
13 personnel.  
14

### 15 **Daily Operational Frequency Management**

16 Frequency assignments for normal daily and initial attack operations are made  
17 on a permanent basis and are requested through the normal Radio Frequency  
18 Authorization process from the local, state, regional or national level designated  
19 frequency management personnel.  
20

21 Air operations initial attack frequencies, both AM and FM, will be assigned by  
22 the NIFC CDO. These assignments will be on an interagency basis and  
23 coordinated with the Geographic Area Coordination Centers (GACCs).  
24

### 25 **Mutual Aid Frequency Management**

26 Mutual aid frequency sharing agreements can be made at the local level.  
27 However, mutual-aid frequency sharing agreements are only valid in the specific  
28 location where they originated. These agreements do not authorize the use of a  
29 shared frequency other than in the specified local area.  
30

31 NIFC national fire frequencies are not to be used for these agreements. The  
32 only exception may occur when an agency holds a National  
33 Telecommunications Information Agency (NTIA) Radio Frequency  
34 Authorization (RFA) for a frequency that is included in the NIFC Channeling  
35 Plan. If this occurs, notification and coordination with the NIFC CDO is  
36 requested.  
37

### 38 **Incident Frequency Management**

39 National level coordination and assignments of incident frequencies is the  
40 responsibility of the National Interagency Incident Communications Division  
41 (NIICD) and is managed by the NIFC CDO.  
42

43 When communications requirements exceed normal operations, the NIFC CDO  
44 may request that GACCs assign a Communication Coordinator (COMC) to

- 1 facilitate geographic area frequency management. Additional information may  
2 be found in the *National Interagency Mobilization Guide*.
- 3 • Frequencies for Type 1 and 2 incidents are assigned by the NIFC CDO and  
4 are managed by a qualified Communications Unit Leader (COML). The  
5 COML will request, assign, and report all frequencies used on the incident  
6 to the NIFC CDO/COMC. This will include the request and assignment of  
7 all aircraft frequencies. Frequency use will be documented on the ICS-205  
8 Incident Radio Communications Plan and on ICS-220 Air Operation  
9 Summary forms. These completed forms will be made available to incident  
10 personnel.
  - 11 • Type 3 incidents, or other incidents that do not have an assigned COML,  
12 will coordinate and request all frequency and communication equipment  
13 needs through the COMC and/or the NIFC CDO.

14  
15 If additional frequencies are required, the COML will order them through the  
16 established ordering process.

17  
18 Additional frequencies for any operation may be available on a temporary basis,  
19 and may be requested by the NIFC CDO from the Washington Office Spectrum  
20 managers when:

- 21 • The NIICD national frequencies are all committed within a specific  
22 geographic area;
- 23 • New incidents within a specific complex create a need for additional  
24 frequencies;
- 25 • The fire danger rating is extreme and the potential for additional new  
26 incidents is high; and/or
- 27 • When there is frequency congestion due to significant numbers of incidents  
28 in close proximity.

29

#### 30 **Aviation Operations Frequency Management**

- 31 • Air to Air initial attack –AM frequencies are assigned yearly to the GACC's  
32 by the NIFC CDO in coordination with the Federal Aviation Administration  
33 (FAA). Once assigned, management of those frequencies is the  
34 responsibility of the GACC and may be allocated to zones. Frequencies  
35 allocated to zones for initial attack are not to be dedicated for project fire  
36 use. If additional frequencies are required, they must be requested from and  
37 assigned by the NIFC CDO.
- 38 • Air to Ground –FM frequencies will be assigned and coordinated by the  
39 NIFC CDO and agency frequency managers.

40

41 Both AM and FM aviation frequency assignments will be used on an  
42 interagency basis and a master record of these assignments is maintained by the  
43 NIFC CDO. Updated frequency information is coordinated annually with the  
44 GACC's.

45

**1 Pre-assigned National Frequencies**

2

**3 National Air Guard Frequency (168.6250 MHz)**

4 A National Interagency Air Guard frequency for aircraft will be used for  
5 emergency aviation communications. Continuous monitoring of this frequency  
6 in narrowband mode is mandatory by agency dispatch centers. Transmission on  
7 this frequency must include the Continuous Tone Coded Squelch System  
8 (CTCSS) tone of 110.9 Hz.

9

10 This frequency, 168.6250 MHz is restricted to the following use:

- 11 • Air-to-air emergency contact and coordination;
- 12 • Ground-to-air emergency contact; and
- 13 • Initial call, recall, and re-direction of aircraft when no other contact  
14 frequency is available.

15

**16 National Flight Following Frequency (168.6500 MHz)**

17 The National Flight Following Frequency is used to monitor interagency and  
18 contract aircraft. ~~XXX This frequency is used for flight following and official  
19 aircraft flying point to point; it is not to be used during mission flights or  
20 incident operations.~~ All aircraft on point-to-point or mission flights should  
21 establish/terminate flight following, and confirm Automated Flight Following  
22 (AFF) on the National Flight Following frequency.

23

24 All dispatch centers/offices will monitor the national flight following frequency  
25 at all times. A CTCSS tone of 110.9 must be placed on the transmitter and  
26 receiver of the National Flight Following frequency.

27

28 ~~XXX This frequency 168.6500 MHz is restricted to the following use:~~

- 29 • ~~Flight following, dispatch, and/or re-direction of aircraft;~~
- 30 • ~~Air to ground and ground to air administrative traffic; and~~
- 31 • ~~Not authorized for ground-to-ground traffic.~~

32

33 ~~XXX The National Flight Following frequency is to be used for flight following,  
34 dispatch, or redirection of aircraft. No other use is authorized.~~

35

**36 National Interagency Air Tactics Frequencies (166.6750 MHz, 167.9500  
37 MHz, 169.1500 MHz, 169.2000 MHz, 170.0000 MHz)**

38 These frequencies are used to support air-to-air or ground-to-air  
39 communications on incidents west of the 95th meridian. These frequencies shall  
40 be used for air-to-air and ground-to-air communications only. They are not for  
41 use as ground tactical operational frequencies.

42

43 Transmitter power output of radios installed in aircraft utilizing these  
44 frequencies shall be limited to 10 watts. Use of these frequencies in base  
45 stations and repeaters is prohibited.

1 These frequencies will be assigned by the NIFC CDO or in coordination with  
2 the local unit if a NTIA-RFA is in effect.

3

4 **National Interagency Airtanker Base Frequency (123.9750 MHz)**

5 This frequency is assigned by the FAA to all airtanker bases (unless otherwise  
6 notified) for exclusive use. Use of this frequency is restricted to a radius of 40  
7 nautical miles and 10,000 feet MSL from the coordinates of the airtanker base.  
8 No other use is authorized.

9

10 **Smokejumper and Rappel/RADS Air to Ground Frequency (168.550 MHz)**

11 BLM and USFS Smokejumpers have been granted exclusive use of primary  
12 National Air to Ground tactical frequency 168.550.

13

14 This frequency is also granted for use, with a separate transmit and receive tone,  
15 as a secondary/backup frequency for the BLM and USFS Rappel/Rope Assisted  
16 Delivery System (RADS) aerial delivery operations if the local air to ground  
17 tactical frequency is being used for initial attack operations and use of that local  
18 frequency could cause interference issues.

19

20 Use of this frequency for other than the delivery of aerial firefighters is  
21 prohibited. This frequency must be toned (CTCSS, transmit and receive) for  
22 Smokejumper and Rappel/RADS crews to ensure that interference issues are  
23 avoided. Smokejumpers will use tone 123.0 and Rappel/RADS crews will use  
24 tone 110.9.

25

26 **Government-wide Area Common User Frequencies (163.1000 MHz,  
27 168.3500 MHz)**

28 These frequencies are used on a non-interference basis and are not exclusive to  
29 any user. These frequencies are not to be used for air-to-ground operations and  
30 are prohibited by DOI and USDA from use as a frequency during operations  
31 involving the protection of life and property.

- 32 • **NOTE:** When traveling between incidents, be sure to monitor for incident  
33 radio traffic in the area before using these frequencies.

34

35 **National Interagency Fire Tactical Frequencies( 168.0500 MHz, 168.200  
36 MHz, 168.6000 MHz, 168.2500 MHz, 166.7250 MHz, 166.7750 MHz)**

37 These frequencies are used to support ground tactical operations (line of sight)  
38 on incidents.

39

40 They are not authorized for:

- 41 • Air to air communications;
- 42 • Air to ground communications;
- 43 • Mobile radios with more than 5 watts output power;
- 44 • Base stations; or
- 45 • Repeater frequencies.

46

1 Use of these frequencies will be coordinated between the COML and the NIFC  
2 CDO/COMC. Power output is limited to 5 watts or less.

3

#### 4 **Incident Radio Support**

5

6 All National Incident Radio Support Cache (NIRSC) communications  
7 equipment will be returned to NIRSC at NIFC immediately after the incident is  
8 turned over to the jurisdictional agency.

9

10 No cache communications equipment shall be moved from one incident to  
11 another without being first returned to NIRSC for refurbishment. Unused and  
12 red-sealed equipment may be moved, but only upon approval of the NIFC CDO  
13 or COMC.

14

#### 15 **Military Communications on an Incident**

16

17 Military units assigned to an incident are assigned radios approved for use on  
18 incidents. Each battalion is typically assigned 80 handheld radios. Sixteen of  
19 these radios are used by military crew liaisons. Intercrew communications  
20 within a military unit is provided by the military on their radios using their  
21 frequencies. All frequency assignments at the incident will be made by the  
22 COML in accordance with the ICS-205.

23

24 Some military units have aviation VHF-FM radios compatible with civilian  
25 systems. Other units must be provided VHF-FM radios prior to dispatch to an  
26 incident. Wiring harnesses and radios will be resource ordered by the incident.  
27 The resource order will include a request for qualified personnel from NIICD to  
28 perform the installation of the equipment. Equipment will not be sent without  
29 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)**

##### **Office of Aviation Services (OAS)**

The Office of Aviation Services (OAS) is responsible for the coordination of aviation policy development and maintenance management within the agencies of the Department of the Interior (DOI). OAS has no operational responsibility. OAS 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 OAS, 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 **XXX and budget** development, aircraft acquisition, **XXX pilot**  
7 **standardization**, and maintenance management. In addition, the FS has  
8 operational responsibility **XXX including development of aviation procedures**  
9 **and standards, as well as** for functional oversight of aviation assets and facilities,  
10 accident investigation, and aircraft and pilot inspection.

11

12 The Assistant Director (AD), Aviation, is responsible to the Director of Fire and  
13 Aviation Management for the management and supervision of the National  
14 Headquarters Office in Washington DC, and the detached Aviation Unit in  
15 Boise. The AD, Aviation provides leadership, support and coordination for  
16 national and regional aviation programs and operations. (Refer to FSM 5704.22  
17 for list of responsibilities.)

18

19 The Branch Chief, Aviation Operations reports to the AD, Aviation, and is  
20 responsible for national aviation operational management and oversight.

21

22 The Branch Chief, **XXX Pilot Standardization XXX and QA** reports to the AD,  
23 Aviation, and is responsible for **XXX pilot** standardization and approval of  
24 agency and contract pilots.

25

26 The Branch Chief, Airworthiness **XXX and QA** reports to the AD, Aviation, and  
27 is responsible for national aircraft airworthiness and maintenance program  
28 management and oversight.

29

30 **XXX** The Branch Chief, Aviation Business Operations reports to the AD,  
31 Aviation and is responsible for policy maintenance and development, budget  
32 development, and planning.

33

34 **XXX** The Aviation Strategic Planner reports to the AD, Aviation and is  
35 responsible for strategic planning and reporting.

36

37 The Branch Chief, Aviation **XXX Risk Safety** Management **XXX Systems**  
38 reports to the AD, Risk Management and Training, and is responsible for the  
39 national aviation safety and risk management program and oversight.

40

#### 41 **State/Regional Office**

- 42 • *BLM - State FMOs are responsible for providing oversight for aircraft*  
43 *hosted in their state. State FMOs have the authority and responsibility to*  
44 *approve, with National Office concurrence, acquisition of supplemental*  
45 *aircraft resources within their state. State FMOs have the authority to*  
46 *prioritize the allocation, pre-positioning and movement of all aircraft*

- 1 assigned to the BLM within their state. State Offices will coordinate with  
2 the National Office on movement of their aircraft outside of their State. A  
3 State Aviation Manager (SAM) is located in each state office. SAMs are  
4 delegated as the Contracting Officers Representative (COR) for all  
5 exclusive use aircraft hosted by their state. SAMs implement aviation  
6 program objectives and directives to support the agency mission and state  
7 objectives. A state aviation plan is required to outline the state aviation  
8 program objectives and to identify state specific policy and procedures.
- 9 ● **NPS/FWS** - A Regional Aviation Manager (RAM) is designated for each  
10 Region. RAMs implement aviation program objectives and directives to  
11 support the agency mission and Region objectives. Several Regions have  
12 additional support staff, and/or pilots assigned to support aircraft  
13 operations and to provide technical expertise. A Regional aviation  
14 operations and management plan is required to outline the Region's  
15 aviation program objectives and to identify Region-specific policy and  
16 procedures.
  - 17 ● **FS** - Regional Aviation Officers (RAOs) are responsible for directing and  
18 managing Regional aviation programs in accordance with the National and  
19 Regional Aviation Management Plans, and applicable agency policy  
20 direction. (Refer to FSM 5700 and FSH 5709.16 for list of responsibilities).  
21 RAOs report to Director of Fire and Aviation for their specific Region.  
22 Regional Aviation Safety Managers (RASMs) are responsible for aviation  
23 safety in their respective Regions, and work closely with the RAO to ensure  
24 aviation safety is an organizational priority (refer to FSM 5700 and FSH  
25 5709.16 for list of responsibilities). Most Regions have additional aviation  
26 technical specialists and pilots who help manage and oversee the Regional  
27 aviation programs. Most Regions also have Aviation Maintenance  
28 Inspectors, Fixed-wing Program Managers, Helicopter Program Managers,  
29 Helicopter Operations Specialists, Inspector Pilots, etc.

### 31 **Local Office**

32 Some areas have interagency aviation programs that utilize an Aviation Manager  
33 for multiple units. Duties are similar as other local level managers.

- 34 ● **BLM** - Unit Aviation Managers (UAMs) serve as the focal point for the  
35 Unit Aviation Program by providing technical expertise and management of  
36 aviation resources to support Field Office/District programs. Field/District  
37 Offices are responsible for hosting, supporting, providing daily  
38 management, and dispatching all aircraft assigned to their unit.  
39 Field/District Offices have the authority to request additional resources; to  
40 establish priorities, and make assignments for all aircraft assigned to the  
41 BLM within their unit or zone.
- 42 ● **NPS** - Organizational responsibility refer to DO-60, RM-60.
- 43 ● **FS** - Unit Aviation Officers (UAOs)/Forest Aviation Officers (FAOs) have  
44 the responsibility for aviation activities at the local level, including aviation  
45 mission planning, risk management and safety, supervision, and evaluation.

1 UAOs/FAOs assist Line Officers with risk assessment/management and cost  
2 analysis. (Refer to FSH 5709.16\_10.42)

3

#### 4 **Aviation Information Resources**

5

6 Aviation reference guides and aids for agency aviation management are listed  
7 for policy, guidance, and specific procedural requirements.

- 8 • **BLM** - 9400 Manual Appendix 1, National Aviation Plan (NAP) and  
9 applicable aviation guides as referenced in the NAP.
- 10 • **FWS** - Service Manual 330-339, Aviation Management and IHOG.
- 11 • **NPS** - RM-60 Aviation Management Reference Manual and IHOG & IASG.
- 12 • **FS** - FSM 5700, FSH 5709.16 and applicable aviation guides when  
13 approved ~~XXX by Fire Director as and~~ referenced in policy.

14

15 Safety alerts, operational alerts, instruction memoranda, information bulletins,  
16 incident reports, and other guidance or information are issued as needed.

17

18 An up-to-date library with aviation policy and procedural references will be  
19 maintained at all permanent aviation bases, dispatch, and aviation management  
20 offices.

21

#### 22 **Aviation Safety**

23

24 The FS and the BLM have adopted Safety Management Systems (SMS) as the  
25 foundation to our aviation safety program. The four pillars of SMS are Safety  
26 Policy, Safety Risk Management, Safety Assurance, and Safety Promotion.  
27 SMS is the standard for aviation safety set by the International Civil Aviation  
28 Organization (ICAO) and the Federal Aviation Administration (FAA).

29

30 SMS focuses on:

- 31 • Emphasis on proactive risk management;
- 32 • Promotes a “Just” culture;
- 33 • Addresses systemic safety concerns;
- 34 • Holds the organization accountable;
- 35 • Identifies “What” so we can manage the manageable; and
- 36 • Communicates the “Why” so the culture can learn from mistakes.

37

38 The intent of SMS is to improve the aviation culture by increasing hazard  
39 identification, reduce risk-taking behavior, learn from mistakes, and correct  
40 procedures before a mishap occurs rather than after the accident. More  
41 information on SMS is available at the Wildland Fire Lessons Learned Center  
42 under the Lessons Learned link at [www.wildfirelessons.net](http://www.wildfirelessons.net). Additionally, the  
43 current approved US Forest Service Aviation SMS Guide is available at  
44 [www.fs.fed.us/fire/av\\_safety/](http://www.fs.fed.us/fire/av_safety/)

45

**1 Risk Assessment and Risk Management**

2 The use of risk management will help to ensure a safe and successful operation.  
3 Risk is the probability that an event will occur. Assessing risk identifies the  
4 hazard, the associated risk, and places the hazard in relationship to the mission.  
5 A decision to conduct a mission requires weighing the risk against the benefit of  
6 the mission and deciding whether the risks are acceptable.

7

8 Aviation missions always have some degree of risk. The four sources of hazards  
9 are methods, medium, man, and machine. Managing risk is a 5-step process:

- 10 1. Identify hazards associated with all specified and implied tasks for the  
11 mission.
- 12 2. Assess hazards to determine potential of occurrence and severity of  
13 consequences.
- 14 3. Develop controls to mitigate or remove risk, and make decisions based on  
15 accepting the least risk for the best benefit.
- 16 4. Implement controls - (1) education controls, (2) physical controls, and (3)  
17 avoidance controls.
- 18 5. Supervise and Evaluate - enforce standards and continuously re-evaluate  
19 their effectiveness in reducing or removing risk. Ensure that controls are  
20 communicated, implemented, and enforced.

21

**22 How to Properly Refuse Risk (Aviation)**

23 Every individual (government and contracted employees) has the right and  
24 obligation to report safety problems affecting his or her safety and has the right  
25 to contribute ideas to correct the hazard. In return, supervisors are expected to  
26 give these concerns and ideas serious consideration. When an individual feels  
27 an assignment is unsafe, he or she also has the obligation to identify, to the  
28 degree possible, safe alternatives for completing that assignment. Turning down  
29 an assignment is one possible outcome of managing risk.

30

31 A “turn down” is a situation where an individual has determined he or she  
32 cannot undertake an assignment as given and is unable to negotiate an  
33 alternative solution. The turn down of an assignment must be based on  
34 assessment of risks and the ability of the individual or organization to control or  
35 mitigate those risks. Individuals may turn down an assignment because of  
36 safety reasons when:

- 37 • There is a violation of regulated safe aviation practices;
- 38 • Environmental conditions make the work unsafe; or
- 39 • They lack the necessary qualifications or experience.

40

41 Individuals will directly inform their supervisor that they are turning down the  
42 assignment as given. The most appropriate means of documented turn down  
43 criteria is using the Aviation Watch Out Situations (*IRPG*).

44

45 Supervisors will notify the Air Operations Branch Director (AOBD) or unit  
46 aviation leadership immediately upon being informed of a turn down. If there is

1 no AOBD, notification shall go to the appropriate Section Chief, the Incident  
2 Commander or local fire and aviation staff. Proper handling of turn downs  
3 provides accountability for decisions and initiates communication of safety  
4 concerns within the incident organization.

5  
6 If the assignment has been turned down previously and the supervisor asks  
7 another resource to perform the assignment, he or she is responsible to inform  
8 the new resource that the assignment had been turned down and the reasons  
9 why. Furthermore, personnel need to realize that a “turn down” does not stop  
10 the completion of the assigned operation. The “turn down” protocol is an  
11 integral element that improves the effective management of risk, for it provides  
12 timely identification of hazards within the chain of command, raises risk  
13 awareness for both leaders and subordinates, and promotes accountability.

14  
15 If an unresolved safety hazard exists the individual needs to communicate the  
16 issue/event/concern immediately to his or her supervisor and document as  
17 appropriate.

18

### 19 **Aviation Safety Support**

20

#### 21 **Aviation Safety Assistance Team (ASAT)**

22 During high levels of aviation activity, it is advisable to request an Aviation  
23 Safety Assistance Team (ASAT). An ASAT’s purpose is to enhance risk  
24 management, efficiency, effectiveness, and provide technical assistance while  
25 reviewing aviation operations. If an ASAT cannot be filled internally, the  
26 request may be placed with NICC through established ordering channels using  
27 individual overhead requests. An ASAT should operate under a Delegation of  
28 Authority from the appropriate State/Regional Aviation Manager(s) or Multi  
29 Agency Coordinating Group. Formal written reports shall be provided to  
30 appropriate manager(s) as outlined at the in-brief. A team should be developed  
31 to fit the need of the requesting unit and may consist of the following:

- 32 • Aviation Safety Manager;
- 33 • Operations Specialist (helicopter and/or fixed wing);
- 34 • Pilot Inspector;
- 35 • Maintenance Inspector (optional);
- 36 • Avionics Inspector (optional); and
- 37 • Aircraft Dispatcher (optional).

38

#### 39 **Aviation Safety Briefing**

40 Every passenger must receive a briefing prior to each flight. The briefing is the  
41 responsibility of the Pilot in Command (PIC) but may be conducted by the pilot,  
42 flight manager, helicopter manager, fixed-wing base manager, or an individual  
43 with the required training to conduct an aviation safety briefing. The pilot  
44 should also receive a mission briefing from the government aircraft manager.  
45 Refer to the *IRPG* and *IHOG* Chapter 10.

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 requirement;
- 13 • Extreme environmental conditions;
- 14 • Improper ground operations;
- 15 • Improper pilot procedures;
- 16 • Fuel contamination; and
- 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).

## 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 OAS-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 Office of  
5 Aviation Services, Aviation Safety (208)433-5069 or to the FS at (208) 387-  
6 5735 ATTN: SAFETY. Electronic cc copies are automatically forwarded to the  
7 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 OAS 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 • Smokejumper/Para-cargo;
- 25 • Aerial Supervision Module (ASM) and Lead operations; and
- 26 • Retardant, water, and foam application.

#### 27 **Operational Procedures:**

- 28 • A high-level recon will be made prior to low-level flight operations.
- 29 • All flights below 500 feet will be contained to the area of operation.
- 30 • PPE is required for all fixed-wing, low-level flights. Helmets are not  
31 required for multi-engine airtanker crews, smokejumper pilots, and ASM  
32 flight/aircrew members.

### 33 **Congested Area Flight Operations**

34  
35  
36  
37 Airtankers can drop retardant in congested areas under DOI authority given in  
38 *FAR Part 137*.

39  
40 FS authority is granted under exemption 392, from *FAR 91.119* as referenced in  
41 *FSM 5714*. When such operations are necessary, they may be authorized subject  
42 to these limitations:

- 43 • Airtanker operations in congested areas may be conducted at the request of  
44 the city, rural fire department, county, state, or federal fire suppression  
45 agency;

- 1 • An ASM/Lead/ATCO is ordered to coordinate aerial operations;
- 2 • The air traffic control facility responsible for the airspace is notified prior to  
3 or as soon as possible after the beginning of the operation;
- 4 • A positive communication link must be established between the ASM or  
5 Lead/ATCO, airtanker pilot(s), and the responsible fire suppression agency  
6 official; and
- 7 • The IC for the responsible fire agency or designee will advise the  
8 ASM/leadplane/airtanker that all non-essential people and movable property  
9 have been cleared prior to commencing retardant drops.

10

### 11 **Airspace Coordination**

12

13 The Interagency Airspace Program is an aviation safety program designed to  
14 enhance aviation safety and reduce the risk of a mid-air collision. Guidance for  
15 this program is found in the *Interagency Airspace Coordination Guide (IACG)*,  
16 which has been adopted as policy by the DOI and FS. It is located at  
17 [www.airspacecoordination.net](http://www.airspacecoordination.net). Additional guidance may be found in the  
18 *National Interagency Mobilization Guide* and supplemented by local  
19 Mobilization Guides.

20

21 Some state and FS units have Memorandums of Understanding (MOUs) with  
22 local military airspace authorities for airspace coordination. Briefings from Unit  
23 Aviation Managers/Officers (UAM/UAO) are crucial to ensure that any local  
24 airspace information is coordinated before flight.

25

26 All firefighting aircraft are required to have operative transponders and will use  
27 a national firefighting transponder code of 1255 when engaged in, or traveling  
28 to, firefighting operations (excluding ferry flights), unless given a discrete code  
29 by Air Traffic Control (ATC).

30

31 Additional coordination information can be found by contacting:

- 32 • **BLM** - *State Aviation Managers, National Airspace Program Manager*
- 33 • **NPS** - *Regional Aviation Managers*
- 34 • **FS** - *Regional Aviation Officers, National Airspace Program Manager*
- 35 • **FWS** - *National Aviation Safety and Operations*

36

### 37 **Flight Request and Approval**

- 38 • **BLM** – *Reference the BLM National Aviation Plan, Chapter 3, available at:*  
39 *<http://www.blm.gov/mifc/st/en/prog/fire/Aviation/Administration.html>*
- 40 • **NPS** - *Reference RM 60, Appendix 3 & 4.*
- 41 • **FS** - *Refer to FSM 5711.3 for administrative use, FSM 5705 for point-to-*  
42 *point and mission use for types of FS flights.*

43

44

45

### 1 **Point-to-Point Flights**

2 A “Point-to-point” flight is one that originates at one developed airport or  
3 permanent helibase and flies directly to another developed airport or permanent  
4 helibase with the sole purpose of transporting personnel or cargo (this term does  
5 not apply to flights with a scheduled air carrier on a seat fare basis). These types  
6 of flights are often referred to as “administrative” flights and only require the  
7 aircraft and pilot to be carded and approved for point-to-point flight. A point-to-  
8 point flight is conducted higher than 500 feet above ground level (AGL).

9  
10 Agency policy requires designating a Flight Manager for point-to-point flights  
11 transporting personnel. The Flight Manager is a government employee that is  
12 responsible for coordinating, managing, and supervising flight operations. The  
13 Flight Manager is not required to be on board for most flights. For those flights  
14 that have multiple legs or are complex in nature a Flight Manager should attend  
15 the entire flight. The Flight Manager will meet the qualification standard for the  
16 level of mission assigned as set forth in the *Interagency Aviation Training Guide*  
17 (IAT).

- 18 • **BLM** –Reference the *BLM National Aviation Plan, Chapter 3, available at:*  
19 *<http://www.blm.gov/nifc/st/en/prog/fire/Aviation/avllibrary.html>*
- 20 • **NPS** - Reference *RM-60, Appendix 3 for agency specific policy.*
- 21 • **FS** - Refer to *FSM 5711.3for administrative use, FSM 5705 for point-to-*  
22 *point and mission use for types of FS flights.*

### 24 **Mission Flights**

25 Mission flights are defined as flights not meeting the definition of point-to-point  
26 flight. A mission flight requires work to be performed in the air (retardant or  
27 water delivery, fire reconnaissance, smokejumper delivery), or through a  
28 combination of ground and aerial work (delivery of personnel and/or cargo from  
29 helibases to helispots or unimproved landing sites, rappelling or cargo let-down,  
30 horse herding).

- 31 • PPE is required for any fixed wing mission flight conducted below  
32 500’AGL. Flight helmets are not required for multi-engine airtanker crews,  
33 smokejumper pilots and ASM flight/aircrew members.
- 34 • Required attire for ATGS and fire reconnaissance are:
  - 35 ○ Leather shoes or boots; and
  - 36 ○ Natural fiber shirt, full length cotton or nomex pants, or flight suit.
- 37 • The use of full PPE is required for all helicopter flights (point to point and  
38 mission) and associated ground operations. The specific items to be worn  
39 are dependent on the type of flight, the function an individual is performing,  
40 or the ground operation being conducted. Refer to the tables in Chapter 9 of  
41 the IHOG for specific requirements.
- 42 • All personnel will meet training and qualification standards required for the  
43 mission.
- 44 • Agency FM radio capability is required for all mission flights.

- 1 • All passengers must be authorized and all personnel onboard must be  
2 essential to the mission.  
3
- 4 Mission flights for fixed-wing aircraft include but are not limited to the  
5 following:
- 6 • Water or retardant application;
  - 7 • Parachute delivery of personnel or cargo;
  - 8 • Airtanker coordinator operations; and
  - 9 • Takeoff or landing requiring special techniques due to hazardous terrain,  
10 obstacles, or surface conditions
- 11
- 12 Mission helicopter flights include but are not limited to the following:
- 13 • Flights conducted within 500 feet AGL;
  - 14 • Water or retardant application;
  - 15 • Helicopter coordinator and ATGS operations;
  - 16 • Aerial ignition activities;
  - 17 • External load operations;
  - 18 • Rappelling;
  - 19 • Takeoff or landing requiring special techniques due to hazardous terrain,  
20 obstacles, pinnacles, or surface conditions;
  - 21 • Free-fall cargo; and
  - 22 • Fire reconnaissance.
- 23

#### 24 **Flight-Following All Aircraft**

- 25
- 26 Flight-Following is mandatory for all flights. Refer to the *National Interagency*  
27 *Mobilization Guide* for specific direction.
- 28 • Agency FM radio capability is required for all mission flights.
  - 29 • For mission flights, there are two types of Agency Flight Following:  
30 Automated Flight Following (AFF) and radio check-in. AFF is the preferred  
31 method of agency flight following. If the aircraft and flight following office  
32 have AFF capability, it shall be utilized. Periodic radio transmissions are  
33 acceptable when utilizing AFF. Reference the AFF procedures section of  
34 the *National Interagency Mobilization Guide* for more information.
  - 35 • All dispatch centers designated for fire support shall have the ability to  
36 monitor AFF as well as the capability to transmit and receive “National  
37 Flight Following” and “Air Guard”.
  - 38 • If AFF becomes inoperable the aircraft will normally remain available for  
39 service, utilizing radio/voice system for flight following. Each occurrence  
40 must be evaluated individually and decided by the COR/CO.
  - 41 • Helicopters conducting Mission Flights shall check-in prior to and  
42 immediately after each takeoff/landing per IHOG 4.II.E.2.
- 43  
44  
45

**1 Sterile Cockpit All Aircraft**

2

3 Sterile cockpit rules apply within a 5-mile radius of the airport. The flight crew  
4 will not perform radio or cockpit communication during that time that is not  
5 directly related to safe flight of the aircraft from taxi to 5 miles out and from 5  
6 miles out until clearing the active runway. This would consist of reading  
7 checklists, communication with Air Traffic Control (ATC), Flight Service  
8 Stations, Unicom, or other aircraft with the intent of ensuring separation or  
9 complying with ATC requirements. Communications by passengers or air crew  
10 members can be accomplished when the audio panels can be isolated and do not  
11 interfere with flight operations of the flight crew.

12

13 **Exception:** When conducting firefighting missions within 5 miles of an  
14 uncontrolled airport, maintain sterile cockpit until departing the traffic pattern  
15 and reaching final altitude. Monitor CTAF frequency if feasible while engaged  
16 in firefighting activities. Monitor CTAF as soon as practical upon leaving the  
17 fire and returning to the uncontrolled airport. When conducting firefighting  
18 missions within Class B, C, or D airspace, notify dispatch that ATC  
19 communications will have priority over dispatch communications.

20

**21 Interagency Interim Flight and Duty Limitations/Aviation Stand Downs**

22

23 Aviation stand downs are a means to find time, in an otherwise demanding flight  
24 schedule, to reflect on core aviation safety values. In this context, aviation stand  
25 downs refer to an administrative decision to keep tactical aviation resources on  
26 the ground through all or part of their normal duty day or days.

27

28 Interim flight and duty limitations are a method to manage pilot and crew  
29 fatigue by reducing the length of the duty day or increasing the number of days  
30 off in the normal duty day cycle. During extended periods of high flight  
31 activity, fatigue must be mitigated by fire and aviation managers.

32

33 Aviation stand downs and interim flight and duty day limitations can be  
34 implemented at the Geographic Area or National level. In either case, the  
35 procedure for implementation is the same. Requests for implementation of  
36 flight and duty limitations, or proposed stand down parameters, will be made  
37 through the National Aviation Office through which it originated.

38

39 Decisions and procedures for implementation will be made on a coordinated,  
40 interagency basis, involving the GACC, NICC, and National Aviation  
41 Representatives at NIFC and Aviation Contracting Officers. Details of the  
42 proposal will be formalized and coordinated with other affected agencies and  
43 implemented through the National Multi Agency Coordinating Group (NMAC).

44

45

46

1 **Interim Flight and Duty Limitations Implementation**

2 During extended periods of a high level of flight activity or maximum 14-hour  
3 days, fatigue factors must be taken into consideration by Fire and Aviation  
4 Managers. Phase 2 and/or Phase 3 Duty Limitations will be implemented for  
5 specific Geographic Area's Aviation resources. The minimum scope of  
6 operation should be by Geographic Area, i.e., Northwest, Great Basin, etc.

7  
8 **Phase 1 - Standard Flight and Duty Limitations (Abbreviated Summary):**

- 9 • Fourteen (14) hour maximum duty day;  
10 • Eight (8) hours maximum daily flight time for mission flights;  
11 • Ten (10) hours for point-to-point, with a two (2) pilot crew;  
12 • Maximum cumulative flight hours of thirty-six (36) hours, up to forty-two  
13 (42) hours in six (6) days; and  
14 • Minimum of ten (10) hours uninterrupted time off (rest) between duty  
15 periods.

16  
17 This does not diminish the authority or obligation of any individual COR  
18 (Contracting Officer Representative) or Aviation Manager to impose shorter  
19 duty days or additional days off at any time for any flight crew members for  
20 fatigue. This is currently provided for in agency direction and contract  
21 specifications.

22  
23 **Phase 2 - Interim Duty Limitations**

24 When Phase 2 is activated, pilots shall adhere to the flight and day-off  
25 limitations prescribed in Phase 1 and the duty limitations defined under Phase 2.

26  
27 Each flight crew member shall be given an additional day off each fourteen (14)  
28 day period. Crews on a twelve (12) and two (2) schedule shall have three (3)  
29 consecutive days off (11 and 3). Flight crews on six (6) and one (1) schedules  
30 shall work an alternating weekly schedule of five (5) days on, two (2) days off,  
31 then six (6) days on and one (1) day off.

32  
33 Aircraft fixed daily rates and special rates, when applicable, shall continue to  
34 accrue during the extra day off. Contractors may provide additional approved  
35 crews to maximize utilization of their aircraft. All costs associated with  
36 providing the additional crew will be at the contractor's expense, unless the  
37 additional crew is requested by the Government.

38  
39 **Phase 3 - Interim Duty Limitations**

40 When Phase 3 is activated, pilots shall adhere to the flight limitations of Phase 1  
41 (standard), the additional day off of Phase 2, and the limitations defined under  
42 Phase 3.

43  
44 Flight crew members shall have a minimum of twelve (12) consecutive hours of  
45 uninterrupted rest (off duty) during each duty day cycle. The standard duty day  
46 shall be no longer than twelve (12) hours, except a crew duty day extension shall

1 not exceed a cumulative fourteen (14) hour duty day. The next flight crew rest  
2 period shall then be adjusted to equal the extended duty day, i.e., thirteen (13)  
3 hour duty day, thirteen (13) hours rest; fourteen (14) hour duty day, fourteen  
4 (14) hours rest. Extended duty day applies only to completion of a mission. In  
5 no case may standby be extended beyond the twelve (12) hour duty day.

6  
7 Double crews (two (2) complete flight crews assigned to an aircraft), augmented  
8 flight crews (an additional pilot-in-command assigned to an aircraft), and  
9 aircraft crews that work a rotating schedule, i.e., two (2) days on, one (1) day  
10 off, seven (7) days on, seven (7) days off, or twelve (12) days on, twelve (12)  
11 days off, may be exempted from Phase 2 Limitations upon verification that their  
12 scheduling and duty cycles meet or exceed the provisions of Paragraph a. of  
13 Phase 2 and Phase 1 Limitations.

14  
15 Exemptions of Phase 3 provisions may be requested through the local Aviation  
16 Manager or COR, but must be approved by the FS RAO or DOI Area Aviation  
17 Manager.

18

### 19 **Aviation Assets**

20

21 Typical agency aviation assets include: Helitack or Rappel, Aerial Supervision  
22 (ATGS, Lead, and ASM), Large (multi-engine) Airtankers, Very Large  
23 Airtankers (VLATs), Single Engine Airtankers (SEATs), and Smokejumpers.

- 24 • **BLM** - All BLM acquired aircraft (exclusive use, On-Call, and CWN) are  
25 available to move to areas of greatest Bureau need, thereby maximizing  
26 efficiency and effectiveness. Specific authorities and responsibilities for  
27 Field/State and National Offices are outlined earlier in this chapter.  
28 Offices are expected to adhere to procedures established in the National  
29 Aviation Plan for both acquisition and use reporting.

30

### 31 **Helitack**

32

33 Helitack crews perform suppression and support operations to accomplish fire  
34 and resource management objectives.

35

#### 36 **Organization - Crew Size**

- 37 • **BLM**- The standard BLM exclusive-use helitack crew size for a Type 3  
38 helicopter is a minimum of seven personnel (supervisor, assistant, squad  
39 boss, and four crew members). The standard BLM exclusive-use helitack  
40 crew size for a Type 2 helicopter is a minimum of ten personnel (supervisor,  
41 assistant, squad boss, and seven crewmembers). BLM helicopters operated  
42 in Alaska need only be staffed with a qualified Helicopter Manager  
43 (HMGB).
- 44 • **NPS** - Helicopter exclusive-use modules will consist of a minimum of 8 fire  
45 funded personnel. The NPS regions may establish larger crew size and  
46 standards for their exclusive use helicopter crews based on the need for an

- 1 all hazard component (Fire, SAR, Law Enforcement, and EMT). Exception  
2 to minimum helicopter crew staffing standards must be approved by the  
3 National Aviation Office. NPS helicopters operated in Alaska need only be  
4 staffed with a qualified Helicopter Manager (HMGB).
- 5 • **FS** - Regions may establish minimum crew size and standards for their  
6 exclusive use helitack crews. Experience requirements for exclusive-use  
7 helicopter positions are listed in FAQG, Chapter 4.

8

### 9 **Operational Procedures**

10 The *Interagency Helicopter Operations Guide* (IHOG) NFES 1885 is policy for  
11 helicopter operations.

12

### 13 **Communication**

14 The helitack crew standard is one handheld programmable multi-channel FM  
15 radio per every two crew persons, and one multi-channel VHF-AM  
16 programmable radio in the primary helitack crew (chase) truck. Each helitack  
17 crew (chase) vehicle will have a programmable VHF-FM mobile radio. Each  
18 permanent helibase will have a permanent programmable FM radio base station  
19 and should be provided a VHF-AM base station radio.

20

### 21 **Transportation**

22 Dedicated vehicles with adequate storage and security will be provided for  
23 helitack crews. The required Gross Vehicle Weight (GVW) of the vehicle will  
24 be dependent upon the volume of equipment carried on the truck and the number  
25 of helitack crewmembers assigned to the crew.

- 26 • **BLM** - Minimum vehicle configuration for a seven person crew will consist  
27 of one Class 661 Helitack Support Vehicle and one Class 156, ~~XXX 6 Pack~~  
28 ~~pickup~~ or Class 166 ~~XXX carryall~~ vehicle.

29

### 30 **Training and Experience Requirements**

31 All helitack members will meet fire qualifications as prescribed by the *National*  
32 *Wildfire Coordinating Group (NWCG) 310-1* and their agency manual  
33 requirements. The following chart establishes experience and training  
34 requirements for FS, BLM, NPS, and FWS Exclusive Use, Fire Helicopter Crew  
35 Positions.

36

37 Non-Exclusive Use HECM's and HMGB's should also meet the following  
38 currency requirements.

39

40 **XXX Note:** the *Interagency Aviation Training Guide (February 2014)* states  
41 additional aviation training requirements (A courses). The Guide is available at:  
42 [http://www.iat.gov/docs/IAT\\_Guide\\_2014\\_0331.pdf](http://www.iat.gov/docs/IAT_Guide_2014_0331.pdf)

43

44

45

Exclusive Use Fire Helicopter Position Prerequisites			
POSITION <sup>1</sup>	MINIMUM PREREQUISITE EXPERIENCE <sup>2</sup>	MINIMUM REQUIRED TRAINING <sup>3</sup>	CURRENCY REQUIREMENTS
Fire Helicopter Crew Supervisor	One season <sup>4</sup> as an Assistant Fire Helicopter Crew Supervisor, ICT4, HMGB, HEB2		RT-372 <sup>5</sup> RT-130 XXX A-110 <sup>6</sup>
Assistant Fire Helicopter Crew Supervisor	One season as a Fire Helicopter Squad Boss, ICT4, HMGB, HEB2 (T)	I-200, S-215, XXX S-234 S-219, S-260, S-270	RT-372 <sup>5</sup> RT-130 XXX A-110 <sup>6</sup>
Fire Helicopter Squad Boss	One season as a Fire Helicopter Crewmember, FFT1, ICT5	S-211, S-212	RT-130 XXX A-110 <sup>6</sup>
Fire Helicopter Crewmember	One season as a FFT2, HECM Taskbook	S-271, XXX A-110 <sup>6</sup>	RT-130 XXX A-110 <sup>6</sup>

<sup>1</sup> All Exclusive use Fire Helicopter positions require an arduous fitness rating.

<sup>2</sup> Minimum experience and qualifications required prior to performing in the Exclusive use position. Each level must have met the experience and qualification requirements of the previous level(s).

<sup>3</sup> Minimum training required to perform in the position. Each level must have met the training requirements of the previous level(s).

<sup>4</sup> A "season" is continuous employment in a primary wildland fire position for a period of 90 days or more.

<sup>5</sup> After completing S-372, must attend Interagency Helicopter Manager Workshop (RT-372) within three years and every three years thereafter.

<sup>6</sup> XXX A-110 is required every three years.

**Note:** Exceptions to the above position standards and staffing levels may be granted on a case-by-case basis by the BLM National Aviation Office, NPS Regional Office, FWS Regional Office, or FS Regional Office as appropriate.

- Some positions may be designated as COR/Alternate-COR. If so, see individual Agency COR training & currency requirements.
- Fire Helicopter Managers (HMGB) are fully qualified to perform all the duties associated with Resource Helicopter Manager.

### Helicopter Rappel & Cargo Let-Down

Any rappel or cargo let-down programs must be approved by the appropriate agency national headquarters.

- **BLM** - BLM personnel involved in an Interagency Rappel Program must have SFMO approval.
- **NPS** - Approval is required by the National Office.

- 1 • *FS - Approval is required by the National Office.*

2

3 All rappel and cargo let-down operations will follow the *Interagency Helicopter*  
4 *Rappel Guide (IHRG)*, as policy. Any exemption to the guide must be requested  
5 by the program through the state/region for approval by the National Aviation  
6 Office (BLM), or Director of Fire and Aviation (FS).

7

### 8 **XXX Emergency Medical Short-haul**

9 XXX The emergency medical short-haul mission is intended to extract injured  
10 or ill personnel from areas where a ground based evacuation would expose  
11 rescuers to greater risk or where such evacuation would likely cause greater  
12 harm or threaten the life or limbs of the patient due to added exposure or time  
13 delay. The short-haul transport of personnel or patients should occur over the  
14 shortest reasonable distance to a location where another type of medical  
15 transportation is available (e.g. ground ambulance, EMS/life flight, or internal in  
16 an agency helicopter).

17

18 XXX All emergency medical short-haul programs must be approved by the  
19 appropriate agency national headquarters.

- 20 • *FS/NPS-National Office approval is required.*

21

22 XXX All short-haul operations will comply with the following policy:

- 23 • *FS- Forest Service Short-haul Operations Guide (FSSHOG)*  
24 • *NPS- Helicopter Short-haul Handbook*

25

26 XXX Exemptions to the policy must be requested by the program through the  
27 regional office for approval by the National Aviation Office (NPS) or Director  
28 of Fire and Aviation (FS).

29

### 30 **Aerial Ignition**

31

32 *The Interagency Aerial Ignition Guide (IAIG)* is policy for all aerial ignition  
33 activities.

34

### 35 **Fire Chemical Avoidance Areas**

36

37 See Chapter 12 (Suppression Chemicals and Delivery Systems) for guidance.

38

### 39 **Aerial Supervision Principles for ATGS, ASM, and Lead**

40

41 The response speed of aerial supervision resources contributes greatly to  
42 established aggressive initial attack doctrine and should be utilized accordingly.

43

44 Aerial supervision resources will be dispatched when available to  
45 initial/extended attack incidents in order to enhance safety, effectiveness, and  
46 efficiency of aerial/ground operations.

**Release Date: January 2015**

**16-17**

1  
2 When aerial supervision resources are collocated with airtankers, they should be  
3 launched together to maximize the safety, effectiveness, and efficiency of  
4 incident operations.

5  
6 Incidents with three or more aircraft over/assigned to them should also have  
7 aerial supervision in the form of ATGS or ASM. A qualified smokejumper  
8 spotter (senior smokejumper in charge of smokejumper missions) may  
9 coordinate airspace over a fire until a qualified ATGS arrives.

10

#### 11 **Operational Procedures and Policy**

12 The *Interagency Aerial Supervision Guide* (IASG, PMS 505) provides  
13 operational procedures for all aerial supervision resources. The IASG and  
14 additional aerial supervision forms are maintained online at the NWCG website:  
15 <http://www.nwcg.gov/pms/pubs/pms505/index.htm>.

16

17 The *Wildland Fire Qualifications System Guide* (PMS 310-1) provides training,  
18 qualification, and currency standards.

- 19 • *XXX FS- Forest Service aerial supervision training, qualifications, and*  
20 *currency standards are contained in the Fire and Aviation Qualifications*  
21 *Guide (FAQG).*

22

23 The IASG contains additional requirements and is policy for the BLM, BIA,  
24 FWS, and NPS.

25

#### 26 **Air Tactical Group Supervisor (ATGS)**

27

28 The ATGS coordinates incident airspace and manages incident air traffic. The  
29 ATGS is an airborne firefighter who coordinates, assigns, and evaluates the use  
30 of aerial resources in support of incident objectives. Specific duties and  
31 responsibilities are outlined in the *Wildland Fire Incident Management Field*  
32 *Guide* (PMS-210) and the *Interagency Aerial Supervision Guide*.

33

#### 34 **Program Management**

35 ~~XXX The ATGS program is managed at the national level through program~~  
36 ~~managers. Interagency operational and programmatic oversight is performed at~~  
37 ~~the Geographic Area level through ATGS Cadre, a sub-group of the Interagency~~  
38 ~~Aerial Supervision Subcommittee (IASS). An ATGS Cadre member is~~  
39 ~~designated in each Geographic Area.~~

40

41 XXX The air attack program is managed at the national level by agency  
42 program managers. The National Interagency Aviation Committee (NIAC)  
43 provides guidance through the Interagency Aerial Supervision Subcommittee  
44 (IASS), which authorizes an ATGS Cadre to provide operational and  
45 programmatic oversight at the Geographic Area level.

46

**1 Training**

2 Classroom training is completed as per the PMS 310-1.

3

4 Field (flight) training assignments are coordinated and prioritized by the  
5 Geographic Area Training Representatives and ATGS Cadre, and is  
6 implemented based on a national interagency trainee priority list.

7

8 National interagency ATGS training aircraft have been identified and are  
9 utilized for the sole purpose of ATGS flight training.

10

**11 Operational Considerations**

- 12 • Ground resources will maintain consistent communication **XXX on**  
13 **assigned air to ground frequencies** with aerial supervision to maximize the  
14 safety, effectiveness, and efficiency of aerial operations.
- 15 • Relief aerial supervision should be ordered for sustained operations to  
16 ensure continuous coverage over an incident.
- 17 • Personnel who are performing aerial reconnaissance and detection will not  
18 perform aerial supervision duties unless they are fully qualified as an  
19 ATGS.
- 20 • ATGS aircraft must meet the aircraft/avionics typing requirements listed in  
21 the IASG and the pilot must be carded to perform the air tactical mission.  
22 Rotor-wing pilots are not required to be carded for air tactical missions.

23

24 ~~XXX The following PPE is required for all interagency ATGS operations:~~

- 25 • ~~Leather shoes or boots; and~~
- 26 • ~~Natural fiber shirt, full length cotton or flame resistant pants, or flight suit.~~

27

**28 Leadplane**

29

30 A leadplane is a national shared resource.

31

32 Agency policy requires an ASM or Lead/ATCO to be on order prior to aerial  
33 retardant/suppressant delivery over a congested area. Operations may proceed  
34 before the ASM or Lead/ATCO arrives if communications are established with  
35 on-site resources, authorization is granted from the IC, and the line is cleared  
36 prior to commencing aerial application operations.

37

**38 Aerial Supervision Module (ASM)**

39

40 The ASM is a national shared resource.

41

42 The ASM is crewed with both a Lead/ATCO qualified Air Tactical Pilot (ATP)  
43 and an Air Tactical Supervisor (ATS). These individuals are specifically trained  
44 to operate together as a team. The resource is primarily designed for providing  
45 both functions (Lead/ATCO and ATGS) simultaneously from the same aircraft,  
46 but can also provide single role service.

**Release Date: January 2015**

**16-19**

- 1 The ATP is primarily responsible for aircraft coordination over the incident.
- 2 The ATS develops strategy and implements tactical plans through coordination
- 3 with the IC or designee.

4

#### 5 **Operational Considerations**

- 6 Any operation that limits the national resource availability must be approved by
- 7 the agency program manager.

8

- 9 Aerial or incident complexity and environmental considerations will dictate
- 10 when the ASM ceases low-level operations. The ASM flight crew has the
- 11 responsibility to determine when the complexity level of the incident exceeds
- 12 the capability to perform both ATGS and leadplane functions from one aircraft.
- 13 The crew will request additional supervision resources, or modify the operation
- 14 to maintain mission safety and efficiency.

15

#### 16 **Policy**

- 17 Only those individuals certified and authorized by the BLM- National Aviation
- 18 Office or the FS- Branch Chief XXX Pilot Standardization XXX and QA will
- 19 function as an Air Tactical Supervisor (ATS) in an ASM mission profile.

20

#### 21 **Aerial Supervision Module Program Training and Qualifications**

- 22 Training and qualification requirements for ASM crewmembers are defined in
- 23 the IASG.

24

#### 25 **Reconnaissance or Patrol flights**

26

- 27 The purpose of aerial reconnaissance or detection flights is to locate and relay
- 28 fire information to fire management. In addition to detecting, mapping, and
- 29 sizing up new fires, this resource may be utilized to provide ground resources
- 30 with intelligence on fire behavior, provide recommendations to the IC when
- 31 appropriate, and describe access routes into and out of fire areas for responding
- 32 units. Only qualified Aerial Supervisors (ATGS, ASM, HLCO and
- 33 Lead/ATCO) are authorized to coordinate incident airspace operations and give
- 34 direction to aviation assets. Flights with a "Recon, Detection, or Patrol"
- 35 designation should communicate with tactical aircraft only to announce location,
- 36 altitude and to relay their departure direction and altitude from the incident.

37

#### 38 **Airtankers**

39

- 40 Airtankers are a national resource. Geographic areas administering these
- 41 aircraft will make them available for initial attack and extended attack fires on a
- 42 priority basis. The GACC will ensure that all support functions (e.g. dispatch
- 43 centers and tanker bases) are adequately staffed and maintained to support the
- 44 mobilization of aircraft during normal and extended hours.

45

- 1 For aviation safety and policy concerning wildland fire chemicals see chapter 12  
2 (Suppression Chemicals and Delivery Systems).  
3  
4 Airtankers are operated by commercial vendors in accordance with FAR Part  
5 137. The management of Large Airtankers is governed by:  
6 • **BLM** - *The requirements of the DM and BLM Manual 9400*  
7 • **FS** - *FS operates Large Airtankers under the Grant of Exemption 392A as*  
8 *referenced in FSM 5714.*

### 10 **XXX Categories Airtanker Types**

11 **XXX Airtanker types**-Airtankers and Water Scoopers are **XXX distinguished by**  
12 **typed according to** their load capacity:

- 13 • Very Large Air Tankers (VLAT) – 8,000 gallons or more.  
14 • Type 1 - 3,000 to 7,999 gallons.  
15 • Type 2 - 1,800 to 2,999 gallons.  
16 • Type 3 - 800 to 1,799 gallons **XXX (includes single engine airtankers, and**  
17 **CL-215/415 Water Scoopers).**  
18 • Type 4 – up to 799 gallons **XXX (single engine airtankers).**

### 20 **Airtanker Base Operations**

21  
22 Certain parameters for the operation of airtankers are agency-specific. For  
23 dispatch procedures, limitations, and times, refer to geographic area  
24 mobilization guides and the *Interagency Airtanker Base Operations Guide*  
25 (IABOG).

#### 27 **Airtanker Base Personnel**

28 There is identified training for the positions at airtanker bases; the *Interagency*  
29 *Airtanker Base Operations Guide* (IABOG) contains a chart of required training  
30 for each position. It is critical that reload bases are prepared and staffed during  
31 periods of moderate or high fire activity at the base. All personnel conducting  
32 airtanker base operations should review the IABOG and have it available.

#### 34 **Startup/Cutoff Time for Multi Engine Airtankers**

35 Refer to the *Interagency Aerial Supervision Guide* (NFES 2544).

### 37 **Single Engine Airtankers**

#### 39 **Single Engine Airtanker (SEAT) Operations, Procedures, and Safety**

40 The *Interagency SEAT Operating Guide* (ISOG, NFES #1844) defines operating  
41 standards and is policy for both the DOI and FS.

#### 43 **SEAT Manager Position**

44 The SEAT Manager (SEMG) duties and responsibilities are outlined in the  
45 ISOG. SEMGs ensure adherence to contract regulations, safety requirements,  
46 and fiscal accountability.

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**1 Operational Procedures**

2 Using SEATs in conjunction with other aircraft over an incident is standard  
3 practice. Agency or geographical area mobilization guides may specify  
4 additional procedures and limitations.

5  
6 Depending on location, operator, and availability, SEATs are capable of  
7 dropping suppressants, water, or approved chemical retardants. Because of the  
8 load capacities of the SEATs (500 to 800 gallons), quick turn-around times  
9 should be a prime consideration.

10  
11 SEAT operations at established airtanker bases or reload bases are authorized.  
12 All BLM and FS Airtanker base operating plans will permit SEAT loading in  
13 conjunction with large airtankers.

**14  
15 Smokejumper Pilots**

16  
17 The *Interagency Smokejumper Pilot Operations Guide (ISPOG)* serves as policy  
18 for smokejumper pilot qualifications, training, and operations.

19

**20 Military or National Guard Helicopters and Pilots**

21

22 The *Military Use Handbook (NFES 2175)* will be used when planning or  
23 conducting aviation operations involving regular military aircraft. Ordering  
24 military resources is done through the National Interagency Coordination Center  
25 (NICC); National Guard resources are utilized through local or state  
26 Memorandum of Understanding (MOU).

27

**28 Modular Airborne Fire Fighting System (MAFFS)**

29

30 The *MAFFS Operating Plan* (available from the National Interagency  
31 Coordination Center) will be used when planning or conducting aviation  
32 operations involving MAFFS military aircraft. Ordering MAFFS is done  
33 through the National Interagency Coordination Center (NICC); MAFFS are  
34 utilized through a national agreement (see the *National Interagency*  
35 *Mobilization Guide*). Several states have the ability to activate MAFFS through  
36 separate agreements that do not require ordering through NICC.

37

**38 XXX Cooperator Aircraft**

39

40 XXX The purpose of this direction is to keep non-federally approved aircraft  
41 under the operational control of the agency providing the aircraft, to the extent  
42 possible.

43

44 During initial action, all agencies (federal, state, local, and tribal) accept each  
45 other's operating standards. Once the incident jurisdiction is clearly established,  
46 the standards of the agency with jurisdiction prevail.

1  
2 Aircraft procured/owned by cooperating agencies (state, local, and International)  
3 may be utilized on federally managed fires only when federal cooperative  
4 agreements are in place that approve those aircraft and pilots for the intended  
5 missions.

6  
7 No federal employee may be assigned to a position that exercises contractual  
8 control of a non-federally approved aircraft.

9  
10 States may use aircraft that have not been identified as an “Approved  
11 Cooperator Aircraft” on federal lands, when and where the state has formal  
12 protection responsibility as long as the state maintains operational control of  
13 those aircraft.

14  
15 Non-federally approved aircraft remain under state operational control  
16 regardless of the agency affiliation of the firefighters (to include federal aerial  
17 supervision) on an incident with state jurisdiction.

18  
19 Non-federally approved airtankers are approved to have federal personnel load  
20 retardant at federal airtanker bases, regardless of wildland fire jurisdiction.

21  
22 Federal personnel may provide aerial supervision, including “lead profiles”, to  
23 non-federally approved aircraft under existing standard procedures and  
24 agreements.

25  
26 It is appropriate for federal dispatch personnel to interact with non-federally  
27 approved aircraft, if these aircraft remain under the operational control of the  
28 state or for safety reasons.

29  
30 In an emergency circumstance, where lives and property are immediately  
31 threatened, in the current burning period, by wildland fire on federal lands under  
32 federal protection, a federal line officer may take operational control over non-  
33 federally approved aircraft (if ordered and available) to protect lives and  
34 property. This exception must only take place when sufficient federal  
35 firefighting aircraft are not readily available to meet the emergency need. Line  
36 officers are encouraged to consult with their agency aviation management  
37 personnel to aid in decision-making. As exceptions are exercised, they must be  
38 documented by the approving federal line officer; documentation shall be  
39 forwarded to the agency national aviation headquarters within two weeks.

40  
41 If needed, further clarification on these issues can be obtained from the national  
42 aviation manager for the respective agency.

43  
44  
45  
46

**XXX Interagency Fire Use of Unmanned Aircraft Systems (UAS)**

When UAS are flown for USFS/DOI work or benefit, Federal Aviation Administration (FAA), USFS, and DOI regulations apply.

Units wishing to utilize UAS must have a plan in place for how they are going to collect, process, and disseminate data gathered by a UAS.

XXX Consult with your Unit Aviation Officer or the Regional/State aviation staff to assist in selecting and ordering the aircraft best suited for the mission.

XXX The following minimum standards apply:

- All aircraft (to include UAS) purchase, lease, or acquisition **must** follow agency procurement policy and procedures.
- All aircraft and pilots employed by the USFS or DOI agencies **shall** be approved. Federal use of cooperator agency UAS may be authorized by a Cooperator Aircraft Letter of Approval, valid under the parameters of the FAA's Certificate Of Waiver or Authorization (COA).
- UAS flights under USFS operational control **must** adhere to USFS policy and regulations regarding their use. Guidance can be found in FSM 5713.7, the USFS National Aviation Safety and Management Plan and at <http://www.fs.fed.us/science-technology/fire/unmanned-aircraft-systems>
- UAS flights under DOI operational control **must** adhere to DOI policy and regulations regarding their use. Guidance can be found in 350-353 Departmental Manuals and Operational Memoranda: <http://oas.doi.gov/library/opm/CY2014/OPM-11.pdf>
- All government agency use or takeoff and landing on federal land of UAS **requires** prior notifications and approval. Some agencies have issued internal direction regarding UAS use. Agency aviation managers must be consulted prior to commencing UAS operations to ensure compliance with individual agency policy that may be more stringent than FAA requirements. A Project Aviation Safety Plan (PASP) is required for all missions or projects, to include UAS missions on fires.
- All government and commercial applications **require** an FAA "Certificate of Waiver or Authorization" (COA) which specifies the time, location, and operating parameters for flying the UAS. A COA also requires the requesting agency to certify the airworthiness of the proposed aircraft and definition of the standards used to make that determination. For federal fires, the DOI or USFS would be the lead agency for obtaining a COA depending on the jurisdiction of the fire. In the event of a multi-jurisdiction

- 1 incident the DOI UAS specialist, the USFS UAS advisory group chair, or  
2 State or local representative will determine who should obtain the COA.
- 3 • Incident Management Teams **must** notify the agency administrator prior to  
4 use of UAS. A modification to the Delegation of Authority should be  
5 considered.
  - 6 • Personally owned UAS or model aircraft **may not** be used by federal  
7 agencies or their employees for interagency fire use.

8 Key Points:

- 9 • An emergency COA can only be issued by the FAA if the proponent  
10 already has an existing COA for their aircraft. The request must be  
11 accompanied with a justification that no other aircraft exist for the mission  
12 and that there is eminent potential for loss of life, property, or critical  
13 infrastructure, or is critical for the safety of personnel.
- 14 • Cooperators, pilot associations and volunteer aviation groups or individuals  
15 may offer to fly unmanned aviation missions (i.e. aerial surveys, fire  
16 reconnaissance, infrared missions, etc.) at no charge to the IMTs. Although  
17 these offers seem very attractive, we cannot accept these services unless  
18 they meet FAA, USFS and/or DOI policy.
- 19 • The use of any UAS (including model or remote controlled aircraft) with or  
20 without compensation is considered a “commercial” operation per the FAA.  
21 The FAA has established guidelines for hobbyists who fly model and  
22 remote controlled aircraft via Advisory Circular 91-57. Model aircraft are  
23 to be flown only for recreation or hobby purposes. For further information,  
24 refer to: [http://www.faa.gov/about/initiatives/uas/model\\_aircraft\\_operators](http://www.faa.gov/about/initiatives/uas/model_aircraft_operators).

25  
26 Additional information can be found on the FAA website:  
27 [http://www.faa.gov/about/initiatives/uas/uas\\_faq/](http://www.faa.gov/about/initiatives/uas/uas_faq/)  
28

## 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 by creating fire-resilient landscapes and restoring fire-adapted ecosystems.

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* (NWCG PMS 484) to manage 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; and
- 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.

- 1 • **BLM** - Refer to IM No. **XXX FA IM 2014-001FA IM 2015-003**
- 2 • **FWS** - Refer to Fire Management Handbook, Chapter 17
- 3 • **NPS** - Refer to RM 18
- 4 • **FS** - Refer to FSM 5140

#### 6 **Reporting HFR Accomplishment**

7  
8 The HF module of the National Fire Plan Operations and Reporting System  
9 (NFPORS) is the national system for submitting proposed projects for approval,  
10 tracking accomplishments of the program, reporting performance, measuring  
11 accomplishments, and accountability for all agencies in the Department of  
12 Interior.

13  
14 Department of Agriculture hazardous fuels treatment accomplishments for the  
15 Forest Service are entered into the Forest Service Activity Tracking System  
16 (FACTS) as the official system of record for tracking and reporting. This data is  
17 shared with NFPORS to facilitate interagency joint reporting needs. **XXX**  
18 **Information on FACTS can be found at:**  
19 <http://fswweb.ftcol.wo.fs.fed.us/frs/facts/index.shtml>. Acres treated through Forest  
20 Service funded State Fire Assistance grants are recorded directly in NFPORS.

#### 22 **Reporting Fuels Treatment Effectiveness Monitoring (FTEM)**

23  
24 Anytime a wildfire starts in or interacts with a fuel treatment area, interagency  
25 policy requires that we document the outcome to examine whether the treatment  
26 had the desired effect of reduced fire behavior and/or provided opportunities to  
27 firefighters for effective management of the wildfire.

- 28 • **BLM** - Refer to (IM No. OF&A 2013-027)XXX for FTEM guidance
- 29 • **FWS** - Refer to Fire Management Handbook, Chapter 17
- 30 • **NPS** - Refer to RM 18 and Documenting Hazardous Fuels Reduction  
31 Program Treatment Effectiveness Memo, 10/09/2012
- 32 • **FS** - Refer to FSM 5140

#### 34 **Policy Regarding Planned HF Treatments Burned in a Wildfire**

35  
36 For DOI agencies, acres burned in a wildfire may only be reported in the  
37 NFPORS HFR Module as “Fire Use” if all the following conditions are met:

- 38 • The area burned was in a pre-existing NFPORS treatment unit;
  - 39 • NEPA is complete;
  - 40 • The planned objectives were met; and
  - 41 • The accomplishment is approved by a Regional Fuels Specialist.
- 42  
43 • **BLM**- Offices will complete a fuels treatment effectiveness assessment and  
44 input appropriate information into the Fuels Treatment Effectiveness  
45 Monitoring (FTEM) online tool for all wildfires which start in, burn into, or

1 burn through any portion of a fuel treatment area that has been completed  
2 and reported in the Hazardous Fuels Module of the National Fire Plan  
3 Operations and Reporting System (NFPORS) from fiscal year 2003 to  
4 present. If offices have wildfire/treatment intersections that have occurred  
5 prior to 2003 or are not in NFPORS, as long as offices can document that  
6 fuels dollars were expended on these treatments and the wildfire is recorded  
7 in the Wildland Fire Management Information (WFMI) system, the record  
8 should be entered into FTEM. XXX For more information, refer to  
9 Instruction Memorandum No. FA IM 2013-027. It is important that  
10 treatment data entered into FTEM are consistent with the NFPORS, and  
11 that wildfire information is consistent with the WFMI system. Refer to FA  
12 IM-2015-001.

- 13 • **BLM** For policy regarding reporting acres burned in a wildfire, refer to  
14 chapter 9 of this document.

15  
16 XXX The USFS provides direction for reporting accomplishment from  
17 unplanned ignitions in the annual budget advice and by Washington Office  
18 interim direction letters.

- 19 • **XXX FS-** Direction for reporting accomplishments from unplanned  
20 ignitions is found in the annual program direction issued by the Washington  
21 Office and the corresponding business rules for reporting accomplishments  
22 including those from unplanned ignitions can be found in the FACTS  
23 support page at:  
24 <http://fsweb.ftcol.wo.fs.fed.us/frs/facts/support/documents/index.shtml>.

### 25 26 **XXX DOI Reporting of Wildfire Acres That Meet Resource Management** 27 **Objectives**

28  
29 XXX Acres burned in a wildfire that achieve resource management objectives as  
30 defined in Resource/Fire Management Plans (R/FMP) will be reported in the  
31 NFPORS Non-National Fire Plan (Non-NFP) portal. While strategies for  
32 managing individual wildfires are established through the fire management  
33 decision process, the identification of acres which achieved R/FMP objectives  
34 should be made after the fire is declared out, regardless of the fire management  
35 objective, strategy or tactic used. The determination of benefit must be based on  
36 land management objectives which are affected by fire severity, intensity, and  
37 other fire impacts. Post-fire impact, such as invasion of exotic species and the  
38 need for rehabilitation, should be considered in this determination. At a  
39 minimum, acres reported in the Non-NFP module must meet the following  
40 criteria:

- 41 • the R/FMP supports attainment of resource benefit through use of fire,
- 42 • an interdisciplinary approach is used to determine whether the R/FMP  
43 objectives were met, and
- 44 • line manager approves the determination.

45

1 XXX For reporting policy regarding planned hazardous fuels reduction  
2 treatments burned in a wildfire, refer to Chapter 17 of this document.

3

#### 4 **Prescribed Fire during Preparedness Levels 4 and 5**

5

6 Approval is required for implementation of prescribed fires at national  
7 preparedness Levels 4 and 5 (Refer to the *National Mobilization Guide*).

- 8 • *FWS- National Preparedness Level 5 concurrence from Headquarters,*  
9 *Branch of Fire Management must be obtained utilizing Preparedness Level*  
10 *5 Prescribed Fire Concurrence Form.*

11

#### 12 **Federal Agencies Assistance**

13

14 Reference Section VI of the *Interagency Agreement For Wildland Fire*  
15 *Management among the Bureau of Land Management, Bureau of Indian Affairs,*  
16 *National Park Service, Fish and Wildlife Service of the United States*  
17 *Department Of The Interior, and the Forest Service of the United States*  
18 *Department Of Agriculture, effective 2011-2015.*

19

20 Agencies will enter into separate agreements for personnel and other resources  
21 provided for planning and implementation of (hazardous fuels management  
22 program) treatments and activities. This may or may not result in an exchange  
23 of funds subject to the applicable statutory authority used.

- 24 • *XXX FS- USFS units will make every attempt to establish agreements in*  
25 *advance when planning to utilize resources from cooperating agencies to*  
26 *implement or respond as contingency resources for prescribed fire.*  
27 *However, for prescribed fire activities and exigent circumstances, where an*  
28 *agreement was not executed and funds were not obligated prior to*  
29 *commencing work, a ratification may not be necessary if an approved*  
30 *agreement is executed and funds obligated on I-web within 30 calendar*  
31 *days of the start of work. See FSH 1509.11 Chapter 10, Section 15.81.*

32

#### 33 **Hazard Pay/Environmental Differential for Prescribed Fire** 34 **Implementation**

35

36 Current policy is that hazard pay will not be paid for any prescribed fire. Under  
37 certain circumstances, *XXX (i.e. low level flight operations)*, hazard pay or  
38 environmental differential may be warranted. Offices should contact their  
39 servicing personnel office with specific questions.

40

#### 41 **Non-NWCG Agency Personnel Use on Prescribed Fire**

42

43 For information regarding use of non-NWCG agency personnel on prescribed  
44 fires, see Chapter 13.

45

46

## 1 Use of Contractors for Prescribed Fire Implementation

2  
3 Agencies can contract to conduct all or part of the planning and implementation  
4 of prescribed fire operations and/or all or part of mechanical treatments for HFR  
5 projects.

6  
7 If a contractor is actively involved in igniting, holding, or mopping up an agency  
8 prescribed fire, a Contracting Officer's Authorized Representative (COR) or  
9 Project Inspector (PI) will be on site (exceptions can be made for late stage mop  
10 up and patrol) to ensure that the prescribed fire objectives are being met and that  
11 the terms of the contract are adhered to. The Agency Administrator and/or FMO  
12 will determine the qualifications required for the agency representative (COR or  
13 PI).

- 14 • *XXX FS- Contractors must meet requirements for any specific skill*  
15 *positions for prescribed fire operations as described in NWCG PMS 310-1*  
16 *or FSH 5109.17 for positions not found in the PMS 310-1 (e.g. RXB3).*  
17 *Reference FSN 5140.*

## 19 Use of AD Pay Plan for Prescribed Fire

20  
21 Refer to the DOI Administratively Determined (AD) Pay Plan for Emergency  
22 Workers (Casuals) for information regarding the use of emergency workers for  
23 prescribed fire. The DOI AD Pay Plan does not allow for use of Casuals for  
24 mechanical or chemical reduction projects.

25  
26 Forest Service does not have this authority.

## 28 Activation of Contingency Resources

29  
30 In the event *XXX an agency activates the contingency resources in their*  
31 *prescribed fire plan,* contingency resources are activated, sending units should  
32 respond and support the requesting agency immediately *XXX to ensure that the*  
33 *public and firefighter safety are not compromised.*

## 35 Non-Prescribed Fire HFR Activities

36  
37 For policy, guidance, and standards for implementation of non-prescribed fire  
38 hazard fuel reduction treatments (e.g. mechanical, biological, chemical), refer to  
39 agency specific policy and direction.

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## 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 agency's authorities, policies, and responsibilities, a multiagency 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 Reviews;
- 7 • After Action Reviews;
- 8 • Fire and Aviation Safety Team Reviews;
- 9 • Safety Assistance Team Visits;
- 10 • Aviation Safety and Assistance Team Reviews;
- 11 • Large Fire Cost Reviews;
- 12 • Individual Fire Reviews;
- 13 • Lessons Learned Reviews;
- 14 • Rapid Lesson Sharing; and
- 15 • Escaped Prescribed Fire Reviews.

16

17 **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
Safety Assistance Team Visit	As fire activity dictates	Local/State/Region/ National
Aviation Safety 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
Rapid Lesson Sharing	Management Discretion	N/A
XXX Escaped Prescribed Fire Review Declared Wildfire Reviews	See <i>Interagency Prescribed Fire Planning and Implementation Procedures Guide</i> (PMS 484)	

18

19

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21

**1 Preparedness Reviews**

2 Preparedness Reviews assess fire programs for compliance with established fire  
3 policies and procedures outlined in the current *Interagency Standards for Fire*  
4 *and Fire Aviation Operations* and other pertinent policy documents.

5 Preparedness Reviews identify organizational, operational, procedural,  
6 personnel, or equipment deficiencies, and recommend specific corrective  
7 actions. Interagency Preparedness Review Checklists can be found at:  
8 [http://www.nifc.gov/policies/pol\\_ref\\_intgncy\\_prepcheck.html](http://www.nifc.gov/policies/pol_ref_intgncy_prepcheck.html)

**10 After Action Reviews (AAR)**

11 An AAR is a learning tool intended for the evaluation of an incident or project  
12 in order to improve performance by sustaining strengths and correcting  
13 weaknesses. An AAR is performed as soon after the event as possible by the  
14 personnel involved. An AAR should encourage input from participants that is  
15 focused on:

- 16 • What was planned?
- 17 • What actually happened?
- 18 • Why it happened?
- 19 • What can be done the next time?

20  
21 An AAR is a tool that leaders and units can use to get maximum benefit from  
22 the experience gained on any incident or project. When possible, the leader of  
23 the incident or project should facilitate the AAR process. However, the leader  
24 may choose to have another person facilitate the AAR as needed and  
25 appropriate. AARs may be conducted at any organizational level. However, all  
26 AARs involve the exchange of ideas and observations, and focus on improving  
27 proficiency. The AAR should not be utilized as an investigational review. The  
28 format can be found in the *Interagency Response Pocket Guide (IRPG), PMS*  
29 *#461, NFES #1077*. Additional AAR information is available at  
30 [http://www.fireleadership.gov/toolbox/after\\_action\\_review/index.html](http://www.fireleadership.gov/toolbox/after_action_review/index.html)

**32 Fire and Aviation Safety Team (FAST) Reviews**

33 Fire and Aviation Safety Teams assist Agency Administrators during periods of  
34 high fire activity by assessing policy, rules, regulations, and management  
35 oversight relating to operational issues. They can also do the following:

- 36 • Provide guidance to ensure fire and aviation programs are conducted safely;
- 37 • Assist with providing immediate corrective actions;
- 38 • Review compliance with OSHA abatement plan(s), reports, reviews, and  
39 evaluations; and
- 40 • Review compliance with *Interagency Standards for Fire and Fire Aviation*  
41 *Operations*.

42  
43 FAST reviews can be requested through geographic area coordination centers to  
44 conduct reviews at the state/regional and local level. If a more comprehensive

1 review is required, a national FAST can be ordered through the National  
2 Interagency Coordination Center.

3  
4 FASTs include a team leader, who is either an Agency Administrator or fire  
5 program lead with previous experience as a FAST member, a safety and health  
6 manager, and other individuals with a mix of skills from fire and aviation  
7 management.

8  
9 FASTs will be chartered by their respective Geographic Area Coordinating  
10 Group (GACG) with a Delegation of Authority, and report back to the GACG.  
11 FAST reports will include an executive summary, purpose, objectives,  
12 methods/procedures, findings, recommendations, follow-up actions (immediate,  
13 long-term, national issues), and a letter delegating authority for the review.  
14 FAST reports should be submitted to the GACG with a copy to the Federal Fire  
15 and Aviation Safety Team (FFAST) chair within 30 days. See Appendix L for  
16 sample FAST Delegation of Authority.

#### 17 **Safety Assistance Team (SAT) Visits**

18 In addition to FAST reviews, SAT visits emphasize **XXX mentally**-engaging  
19 individual firefighters, managers, and administrators to grasp potential issues,  
20 with a focus on firefighting safety fundamentals. SAT visits are not inspections.  
21 SATs are often ordered when activity within an area escalates rapidly, or when a  
22 high level of activity has been occurring for a long time. SATs can be **XXX**  
23 **single agency or** interagency in scope and composition.  
24

25  
26 The goals of a Safety Assistance Team are to:

- 27 • Assist fire managers and IMTs with site visits **XXX to with** firefighters, fire  
28 managers, and program leaders.
- 29 • Be service oriented, assisting the local units.
- 30 • Provide early warning of potentially hazardous conditions or situations.

31  
32 Direct intervention, circumventing normal chain of command, is authorized  
33 when necessary; however, the overall objective is to create a work environment  
34 where the normal operating procedures are responsible for safe practices.

#### 35 **Aviation Safety Assistance Team (ASAT) Reviews**

36 Refer to Chapter 16 for ASAT information.

#### 37 **Large Fire Cost Reviews**

38  
39 Information on large fire cost reviews can be found in Chapter 11 (Incident  
40 Management), and at [http://www.nwcc.gov/general/memos/nwcc-003-](http://www.nwcc.gov/general/memos/nwcc-003-2009.html)  
41 [2009.html](http://www.nwcc.gov/general/memos/nwcc-003-2009.html)

#### 42 **Individual Fire Reviews**

43  
44 Individual fire reviews examine all or part of the operations on an individual  
45 fire. The fire may be ongoing or controlled. These reviews may be local,

1 state/regional, or national. These reviews evaluate decisions and strategies,  
2 correct deficiencies, identify new or improved procedures, techniques or tactics,  
3 determine cost-effectiveness, and compile and develop information to improve  
4 local, state/regional, or national fire management programs.

5

#### 6 **Lessons Learned Reviews (LLRs)**

7 The purpose of a LLR is to focus on the near miss events or conditions in order  
8 to prevent potential serious incident in the future. In order to continue to learn  
9 from our near misses and our successes it is imperative to conduct a LLR in an  
10 open, non-punitive manner. LLRs are intended to provide educational  
11 opportunities that foster open and honest dialog and assist the wildland fire  
12 community in sharing lessons learned information. LLRs provide an outside  
13 perspective with appropriate technical experts assisting involved personnel in  
14 identifying conditions that led to the unexpected outcome and sharing findings  
15 and recommendations.

16

17 A LLR should be tailored to the event being reviewed. The scope of the review  
18 should be commensurate with the severity of the incident. A LLR will not be  
19 substituted for a Serious Accident Investigation (SAI) or Accident Investigation  
20 (AI), should the criteria for either of those be met, but may be used as a  
21 supplement to the SAI or AI.

- 22 • *FS- Facilitated Learning Analysis (FLA) may be used for incidents meeting*  
23 *the AI criteria.*

24

25 A LLR will be led by a facilitator not involved in the event. A facilitator should  
26 be an appropriate fire management expert who possesses skills in interpersonal  
27 communications, organization, and be unbiased to the event. Personnel  
28 involved in the event will be participants in the review process. Depending  
29 upon the complexity of the event, the facilitator may request assistance from  
30 technical experts (e.g., fire behavior, fire operations, etc.).

31

32 The LLR facilitator will convene the participants and:

- 33 • Obtain a Delegation of Authority from appropriate agency level. See  
34 appendix J for a sample LLR Delegation of Authority;
- 35 • Identify facts of the event (sand tables maybe helpful in the process) and  
36 develop a chronological narrative of the event;
- 37 • Identify underlying reasons for success or unintended outcomes;
- 38 • Identify what individuals learned and what they would do differently in the  
39 future;
- 40 • Identify any recommendations that would prevent future similar  
41 occurrences;
- 42 • 24 and 72 hour reports may be produced, but are not required; and
- 43 • Provide a final written report including the above items to the pertinent  
44 Agency Administrator(s) within two weeks of event occurrence unless

1 otherwise negotiated. Names of involved personnel should not be included  
2 in this report (reference them by position).

3

4 A copy of the final report will be submitted to the respective agency's national  
5 fire safety lead who will provide a copy to the Wildland Fire Lessons Learned  
6 Center (LLC). E-mail: llcdocsubmit@gmail.com

- 7 • *FS - The Forest Service has combined the Accident Prevention Analysis*  
8 *(APA) with the Facilitated Learning Analysis (FLA). A guide for the FLA*  
9 *process is available at [http://bit.ly/FLA\\_guide](http://bit.ly/FLA_guide)*

10

### 11 **Rapid Lesson Sharing (RLS)**

12 RLS is a process for field personnel to quickly share lessons with others. RLS  
13 can be used to document and share lessons learned as a result of close calls,  
14 minor accidents, successes, efficient ways of performing work, adaptations, or  
15 anything wildland fire personnel can learn from.

16

17 To submit or view RLS documents, go to:

18 <http://www.wildfirelessons.net/Resources/RapidLessonSharing>

19

### 20 **XXX Escaped Prescribed Fire Declared Wildfire Reviews**

21 ~~XXX An escaped prescribed fire is a prescribed fire which has exceeded, or is~~  
22 ~~expected to exceed, its prescription. Escaped prescribed fire review direction is~~  
23 ~~found in these agency documents:~~ Every prescribed fire resulting in a wildfire  
24 declaration will receive an outcome review. Declared wildfire outcome review  
25 direction is found in these agency documents:

26 *Interagency Prescribed Fire Planning and Implementation Procedures*  
27 *Reference Guide (PMS 484)*

- 28 • *BLM - IM No. FA IM-2014-001*
- 29 • *FWS - Fire Management Handbook, Chapter 17*
- 30 • *NPS - RM-18, Chapter 7 & 17*
- 31 • *FS - FSM 5140*

32

33 Escaped Prescribed Fire Reviews will be submitted to the Wildland Fire Lessons  
34 Learned Center (LLC) by the agency fuels program lead. Submissions should  
35 be sent to llcdocsubmit@gmail.com.

36

### 37 **Investigations**

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.

46

- 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; and/or
- 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 • **Burnover**
- 28 An event in which a fire moves through a location or overtakes personnel or
- 29 equipment where there is no opportunity to utilize escape routes and safety
- 30 zones, often resulting in personal injury or equipment damage.
- 31 • **Fire Shelter Deployment**
- 32 The removing of a fire shelter from its case and using it as protection
- 33 against fire. Fire shelter deployment may or may not be associated with
- 34 entrapment. ~~XXX Fire shelter deployment may result in a serious wildland~~
- 35 ~~fire accident, a wildland fire accident, or a near miss.~~
- 36 • **Fire Trespass**
- 37 The occurrence of unauthorized fire on agency-protected lands where the
- 38 source of ignition is tied to some type of human activity.
- 39
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## 1 Investigation Types and Requirements

Wildland Fire Event	Investigation Type	Management Level Requiring Notification <sup>1</sup>	Management level that determines review type and authorizes review <sup>2</sup>
Serious Wildland Fire Accident	Serious Accident Investigation (SAI) <i>FS- Coordinated Response Protocol (CRP)</i>	National	National
Wildland Fire Accident	Accident Investigation (AI) <i>FS/NPS- FLA may be used</i>	<i>BLM/NPS- National</i> <i>FS/FWS- Management Discretion</i>	Region/State/Local
Entrapment/ Burnover	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 <sup>1</sup>In the event that a wildland fire entrapment or fatality occurs, immediate  
3 notification to NICC is required. A *Wildland Fire Entrapment/Fatality Initial*  
4 *Report* (PMS 405-1) should be completed and mailed to NICC electronically or  
5 by fax machine within 24 hours. Submit this report even if some data is  
6 missing. The PMS 405-1 is located at the ~~XXX following web site:~~  
7 [http://www.nifc.gov/nicc/logistics/coord\\_forms.htm](http://www.nifc.gov/nicc/logistics/coord_forms.htm). NWCG Website and the  
8 NICC website.

9 <sup>2</sup> Higher level management may exercise their authority to determine the type of  
10 review or investigation.

11

- 12 • **BLM-** *BLM Accidents that involve fire and aviation employees or*  
13 *equipment will be investigated according to the requirements stated in this*  
14 *chapter. Investigations will occur regardless of land jurisdiction. Facts*  
15 *will be collected, causes (organizational factors, local workplace factors,*  
16 *unsafe acts) identified, and an accident investigation report produced. The*  
17 *report will include recommended corrective actions and control measures.*  
18 *Report issuance and follow-up will be through established command*

- 1 channels. BLM Agency Administrators may jointly delegate authority to  
2 investigate accidents in cases of mixed jurisdiction or employee  
3 involvement. Joint delegations must ensure that BLM investigation  
4 requirements are met. The Facilitated Learning Analysis (FLA) process  
5 may be used as a supplemental element to required BLM accident  
6 investigation processes.
- 7 • **FS- Forest Service Line Officers** are the deciding officials regarding what  
8 type of accident investigation or analysis method is to be used for accidents  
9 or near misses occurring under Forest Service jurisdiction. FLAs are a  
10 type of Lessons Learned Review.

## 12 Investigation Processes

### 14 Processes Common to All Wildland Fire Accident Investigations

- 15 • **Site Protection** - The site of the incident should be secured immediately  
16 and nothing moved or disturbed until the area is photographed and visually  
17 reviewed by the investigation team. Exact locations of injured personnel,  
18 entrapments, injuries, fatalities, and the condition and location of personal  
19 protective equipment, property, and other equipment must be documented.
- 20 • **Management of Involved Personnel** - Treatment, transport, and follow-up  
21 care must be immediately arranged for injured and involved personnel. The  
22 Agency Administrator or delegate should develop a roster of involved  
23 personnel and supervisors and ensure they are available for interviews by  
24 the investigation team. The Agency Administrator should consider  
25 relieving involved supervisors from fireline duty until the preliminary  
26 investigation has been completed. Attempt to collect initial statements from  
27 the involved individuals prior to a Critical Incident Stress Management  
28 (CISM) session.
- 29 • **Delegation of Authority** - A Delegation of Authority shall be issued to the  
30 investigation team leader. The Delegation of Authority will outline roles,  
31 responsibilities, and expected deliverables. Delegation of Authority  
32 templates are available at:  
33 [http://www.nifc.gov/safety/safety\\_reptsInvest.html](http://www.nifc.gov/safety/safety_reptsInvest.html)
- 34 • **Critical Incident Stress Management (CISM)** - CISM is the  
35 responsibility of local Agency Administrators, who should have individuals  
36 pre-identified for critical incident stress debriefings. Also refer to the  
37 *Agency Administrator's Guide to Critical Incident Management* (PMS 926),  
38 available at: <http://www.nwcg.gov/pms/pubs/pms926.doc>. Individuals or  
39 teams may be available through Employee Assistance Programs (EAPs) or  
40 Geographic Area Coordination Centers (GACCs).

## 42 Wildland Fire Serious Accident Investigation **XXX (SAI)** Process

43  
44 For interagency serious accident investigations, a multi-agency delegation of  
45 authority to conduct the investigation may be issued. The delegation will ensure  
46 that the investigation meets the policy requirements of involved agencies.

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18-9

- 1
- 2 • *BLM/FWS- The Interagency Serious Accident Investigation Guide*
- 3 *establishes core direction for BLM, FWS, and interagency serious accident*
- 4 *investigations (exceptions for aviation accidents are stated in the guide). It*
- 5 *provides serious accident investigation teams a standardized and*
- 6 *comprehensive process for conducting serious accident investigations. The*
- 7 *guide is available at [http://www.nifc.gov/safety/safety\\_reprtsInvest.html](http://www.nifc.gov/safety/safety_reprtsInvest.html).*

8

9 *Serious accident investigation reports will be completed, routed, and*

10 *disseminated according to processes established in the guide. Reports may*

11 *contain information supplemental to the requirements of the guide if it*

12 *augments the BLM's ability to learn and to develop further improvements.*

13

14 *The guide may be used entirely or in part for accidents that do not meet the*

15 *serious accident definition.*

- 16
- 17 • ~~**XXX FS – REVIEW AND INVESTIGATION OF SERIOUS INJURIES**~~
- 18 ~~**AND FATALITIES OF ON-DUTY FOREST SERVICE EMPLOYEES**~~
- 19 ~~*A Coordinated Response Protocol (CRP) has been developed to coordinate*~~
- 20 ~~*the reviews required in response to incidents and accidents. The CRP*~~
- 21 ~~*concept is a phased approach to incident review that establishes pre-*~~
- 22 ~~*determined teams and training. The CRP is designed to coordinate all*~~
- 23 ~~*groups working together, including the Learning Review Team, Peer*~~
- 24 ~~*Support/Critical Incident Stress Management, Law Enforcement and*~~
- 25 ~~*Investigations, Union, and Human Resources. Additionally, the CRP*~~
- 26 ~~*stresses a mutual understanding of roles and responsibilities. This*~~
- 27 ~~*approach will provide a basis for cooperation before any team is*~~
- 28 ~~*dispatched to an incident, thus minimizing impact on field personnel, and*~~
- 29 ~~*making the data-gathering phase more efficient. This principle-based*~~
- 30 ~~*approach places the primary focus on our people and learning.*~~

31

32 ~~*Forest Service directives and guidelines regarding the investigation of*~~

33 ~~*serious employee injuries and fatalities establish specific roles for the*~~

34 ~~*Office of Safety and Occupational Health (OSOH) and Law Enforcement*~~

35 ~~*and Investigations (LEI) staffs. These roles are delineated in the Law*~~

36 ~~*Enforcement Manual at Forest Service Manual (FSM) 5303.11, the Service*~~

37 ~~*Wide Claims Management Handbook at Forest Service Handbook (FSH)*~~

38 ~~*6509.11h, the Coordinated Response Protocol Guide, and FSH 6709.12.*~~

39 ~~*There is a requirement to conduct a claims investigation for any fatality or*~~

40 ~~*serious injury, and there is inherent value in conducting a Learning Review.*~~

41 ~~*To ensure that these potentially disparate roles are fulfilled, the following*~~

42 ~~*interim guidance is provided:*~~

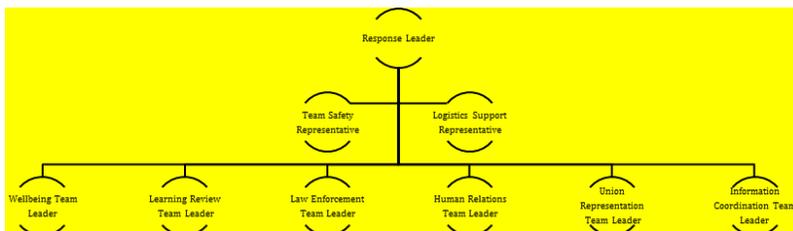
- 43 ~~*1. The Special Agent in Charge (SAC) and the appropriate*~~
- 44 ~~*Region/Station/Area Safety Manager will be notified immediately of*~~
- 45 ~~*incidents meeting the threshold for a Coordinated Response, who will*~~
- 46 ~~*report them to the Designated Agency Safety and Health Official*~~

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(DASHO), the Director of LEI, and the Director of OSOH. This notification will engage a scalable coordinated response, the Coordinated Response Protocol (CRP). This protocol is designed as a collaborative effort with all team members participating, as required.

2. The SAC will assume responsibility for site security, and through coordination with the Director of LEI, will conduct a preliminary incident review. The review will be completed as soon as possible, and in most cases within 72 hours. If there is no indication of criminal wrongdoing, the event will be turned over to the Response Leader (formerly named the Team Leader). If at any time during the CRP there is a reasonable indication that a criminal investigation is warranted, the Response Leader and Directors of LEI and OSOH will confer with the DASHO regarding how to proceed with the CRP.

3. The CRP Team may include the members listed in the following diagram. The role of each team member is fully explained in the CRP Guide.



4. CRP Team Leaders will coordinate their efforts with the Response Leader and strive to minimize traumatic impacts of the Learning Review and claims investigation on employees involved.
5. For every Forest Service accident in which the potential for a claim against the federal government exists, the CRP Team will coordinate the Learning Review and a claims investigation. OOL will conduct the Learning Review. LEI will conduct a claims investigation and complete the required report.
6. Information obtained by the Learning Review Team is often subjective in nature and subjective information will not be disclosed to agency personnel, other than those individuals appointed to the Learning Review or those involved in supervising or reviewing the work of the Learning Review, including OOL appointed process coaches and reviewers. Conclusive reports and learning products derived from this information will be released for the purpose of organizational and individual learning.
7. In cases involving National Transportation Safety Board (NTSB), the designated NTSB Investigator in Charge (IIC) will determine party status. For some aviation accidents, the IIC may rely solely on party members to collect and supply information for the NTSB report without actually being on the accident scene. The NTSB prohibits law

1 enforcement involvement with their accident investigations and is  
2 mandated to refer any suspicion of illegal activity to the FBI for  
3 investigation. The Qualified Technical Investigator (QTI) and  
4 Response Leader will work with the NTSB IIC and DASHO (or  
5 designated representative) to coordinate sharing any USFS Learning  
6 Review products.

7  
8 • **XXX FS –Coordinated Response and Learning Review (CRP/LR)- How  
9 the USFS will Respond to Serious Accidents**

10 A Coordinated Response Protocol (CRP) has been developed to coordinate  
11 the multiple reports and services needed following a serious accident. The  
12 CRP placed people first and is designed to coordinate internal and external  
13 investigations in a way that minimizes the exposure of our personnel (as  
14 much as possible) to a large number of interviews. The CRP also  
15 coordinates or oversees organizational support to the victims and their  
16 families to ensure that immediate needs are met and that benefits are  
17 received in a timely manner. The CRP coordinates or facilitates the  
18 Learning Review Team, Peer Support/Critical Incident Stress Management,  
19 Law Enforcement Investigations, Union Representation, and Human  
20 Resources support.

21  
22 The Learning Review is a Phased approach that is designed to gather  
23 information in a way that is respectful and as complete as possible. The  
24 “Inquiry Phase” is designed to collect individual perceptions and to  
25 present them in a format that avoids judgment of action. It is of particular  
26 interest to understand the context in which decisions and actions were  
27 made. The LR recognizes that the traditional report serves as a starting  
28 point for learning from the event. While all reports will be available on  
29 line, a stated goal of the LR is to create a report for leadership so they will  
30 be able to make informed decisions regarding systemic change and a field  
31 product, designed to enhance the ability to learn based on scenarios,  
32 sensemaking and facilitated dialogue.

33  
34 Forest Service directives and guidelines regarding the investigation of  
35 serious employee injuries and fatalities establish specific roles for the  
36 Office of Safety and Occupational Health (OSOH) and Law Enforcement  
37 and Investigations (LEI) staffs<sup>1</sup>. There is a requirement to conduct a claims  
38 investigation for any fatality or serious injury, and there is inherent value in  
39 conducting a Learning Review. To ensure that these potentially disparate  
40 roles are fulfilled, the following interim guidance is provided:

41 1. The Special Agent in Charge (SAC) and the appropriate  
42 Region/Station/Area Safety Manager will be notified immediately of  
43 incidents meeting the threshold for a Coordinated Response, who will  
44 report them to the Designated Agency Safety and Health Official (DASHO),  
45 the Director of LEI, and the Director of OSOH. This notification will  
46 engage a scalable coordinated response, the Coordinated Response

- 1 Protocol (CRP). This protocol is designed as a collaborative effort that
- 2 places the wellbeing of our personnel as the top priority.
- 3 2. The SAC will assume responsibility for site security, and through
- 4 coordination with the Director of LEI, will conduct a preliminary incident
- 5 review. The review will be completed as soon as possible, and in most
- 6 cases within 72 hours. If there is no indication of criminal wrongdoing, the
- 7 event will be turned over to the Response Leader (formerly named the Team
- 8 Leader). If at any time during the CRP there is a reasonable indication that
- 9 a criminal investigation is warranted, the Response Leader and Directors of
- 10 LEI and OSOH will confer with the DASHO regarding how to proceed with
- 11 the CRP.
- 12 3. The CRP Team may include the members listed in the following
- 13 diagram. The role of each team member is fully explained in the CRP
- 14 Guide.

Response Team Structure



- 17 4. CRP Team Leaders will coordinate their efforts with the Response
- 18 Leader and strive to minimize traumatic impacts of the Learning Review
- 19 and claims investigation on all the employees involved.
- 20 5. For every Forest Service accident in which the potential for a claim
- 21 against the federal government exists, the CRP Team will coordinate the
- 22 Learning Review and a claims investigation. OOL will conduct the
- 23 Learning Review. LEI will conduct a claims investigation and complete the
- 24 required report.
- 25 6. In cases involving National Transportation Safety Board (NTSB), the
- 26 designated NTSB Investigator in Charge (IIC) will determine party status,
- 27 which includes the USFS participation in the investigative process. For
- 28 some aviation accidents, the IIC may rely solely on party members to
- 29 collect and supply information for the NTSB report without actually being
- 30 on the accident scene. The NTSB prohibits law enforcement involvement
- 31 with their accident investigations and is mandated to refer any suspicion of
- 32 illegal activity to the FBI for investigation.

33 <sup>1</sup> These roles are delineated in the Law Enforcement Manual at Forest  
 34 Service Manual (FSM) 5303.11, the Service Wide Claims Management  
 35 Handbook at Forest Service Handbook (FSH) 6509.11h, the Coordinated  
 36 Response Protocol Guide, and FSH 6709.12.

**1 Fire Director Responsibilities**

2 The Fire Director(s) or designee(s) of the lead agency, or agency responsible for  
3 the land upon which the accident occurred, will:

- 4 • **XXX Ensure -Notify** the agency safety manager and Designated Agency  
5 Safety and Health Official (DASHO) **XXX have been notified**;
- 6 • Immediately appoint, authorize (through Delegation of Authority), and  
7 deploy an accident investigation team;
- 8 • Provide resources and procedures adequate to meet the team's needs.
- 9 • Receive the factual and management evaluation reports and take action to  
10 accept or reject recommendations;
- 11 • Forward investigation findings, recommendations, and corrective action  
12 plan to the DASHO (the agency safety office is the "office of record" for  
13 reports);
- 14 • Convene an accident review board/ board of review (if deemed necessary)  
15 to evaluate the adequacy of the factual and management reports and suggest  
16 corrective actions;
- 17 • Ensure a corrective action plan is developed, incorporating management  
18 initiatives established to address accident causal factors; and
- 19 • Ensure Serious Accident Investigations remain independent of other  
20 investigations.

**21 Agency Administrator Responsibilities**

- 23 • Develop local preparedness plans to guide emergency response.
- 24 • Identify agencies with jurisdictional responsibilities for the accident.
- 25 • Provide for and emphasize treatment and care of survivors.
- 26 • Ensure the Incident Commander secures the accident site.
- 27 • Conduct an in-briefing to the investigation team.
- 28 • Facilitate and support the investigation as requested.
- 29 • Determine need and implement Critical Incident Stress Management  
30 (CISM).
- 31 • Notify home tribe leadership in the case of a Native American fatality.
- 32 • Prepare and issue the required 24 Hour Preliminary Report unless formally  
33 delegated to another individual.

**34 Notification**

35 Agency reporting requirements will be followed. As soon as a serious accident  
36 is verified, the following groups or individuals should be notified:

- 38 • Agency Administrator;
- 39 • Public affairs;
- 40 • Agency Law Enforcement;
- 41 • Safety personnel;
- 42 • County sheriff or local law enforcement as appropriate to jurisdiction;
- 43 • National Interagency Coordination Center (NICC) through the local  
44 dispatch center and GACC. Provide a *Wildland Fire Entrapment/Fatality*  
45 *Initial Report* (PMS 405-1) directly to NICC within 24 hours;

- 1 • Agency headquarters; and  
2 • OSHA (within 8 hours if the accident resulted in one or more fatalities or if  
3 three or more personnel are inpatient hospitalized).

4  
5 Notification to the respective agency's fire national safety/risk management lead  
6 is required.

#### 7 8 **Designating the Investigation Team Lead**

9 The 1995 Memorandum of Understanding **XXX (MOU)** between the U.S.  
10 Department of the Interior and the U.S. Department of Agriculture states that  
11 serious wildland fire-related accidents will be investigated by interagency  
12 investigation teams.

13  
14 **XXX The Memorandum of Agreement (MOA) between Department of**  
15 **Agriculture Forest Service and Department of Interior** augments and provides  
16 clarification to the 1995 MOU for investigation type and team lead/deputy team  
17 lead/interagency representative designation. The MOA also provides an  
18 interagency template for joint delegation of authority. The MOA is available at:  
19 [http://www.nifc.gov/safety/accident\\_resources.htm](http://www.nifc.gov/safety/accident_resources.htm)

20  
21 Following initial notification of a serious accident, the **XXX National Fire**  
22 **Director(s) or their designee(s)** agency DASHO will designate a Serious  
23 Accident Investigation Team Lead(s) and provide that person(s) with a written  
24 Delegation of Authority to conduct the investigation and the means to form and  
25 deploy an investigation team.

- 26 • **XXX BLM/FWS/NPS-** *The agency DASHOs have delegated this*  
27 *responsibility to the respective agency Fire Directors.*  
28 • **BLM-** *The Fire and Aviation Directorate Safety Program Manager*  
29 *mobilizes SAI teams in coordination with the SAI Team Leader.*

30  
31 Accidents involving more than one agency will require a collaboratively  
32 developed Delegation of Authority that is signed by each of the respective  
33 agencies.

#### 34 35 **Serious Accident Investigation Team (SAIT) Composition**

36 SAIT members should not be affiliated with the unit that sustained the accident.

- 37 • **Team Leader (Core Team Member)**  
38 A senior agency management official, at the equivalent associate/assistant  
39 regional/state/area/division director level. The team leader will direct the  
40 investigation and serve as the point of contact to the Designated Agency  
41 Safety and Health Official (DASHO).  
42 • **Chief Investigator (Core Team Member)**  
43 A qualified accident investigation specialist is responsible for the direct  
44 management of all investigation activities. The chief investigator reports to  
45 the team leader.  
46 • **Accident Investigation Advisor/Safety Manager (Core Team Member)**

- 1 An experienced safety and occupational health specialist or manager who  
2 acts as an advisor to the team leader to ensure that the investigation focus  
3 remains on safety and health issues. The accident investigation  
4 advisor/safety manager also works to ensure strategic management issues  
5 are examined. Delegating Officials or their designee may, at their  
6 discretion, fill this position with a trained and qualified NWCG Safety  
7 Officer, Line (SOFR), Safety Officer, Type 2 (SOF2), or Safety Officer,  
8 Type 1 (SOF1).
- 9 • **Interagency Representative**  
10 An interagency representative will be assigned to every fire-related Serious  
11 Accident Investigation Team. They will assist as designated by the team  
12 leader and will provide outside agency perspective. They will assist as  
13 assigned by the Team Leader and will provide a perspective from outside  
14 the agency.
  - 15 • **Technical Specialists**  
16 Personnel who are qualified and experienced in specialized occupations,  
17 activities, skills, and equipment, addressing specific technical issues such as  
18 specialized fire equipment, weather, and fire behavior.
  - 19 • **Public Affairs Officer**  
20 For investigations with high public visibility and significant news media  
21 interest, a public affairs officer (PAO) should be considered a part of the  
22 team. The PAO should develop a communications plan for the team, be a  
23 designated point of contact for news media, and oversee all aspects of  
24 internal and external communications. Ideally, the PAO should be qualified  
25 as a Type 1 or Type 2 public information officer and be familiar with SAI  
26 team organization and function.
    - 27 ○ **BLM** - All media related documents (news releases, talking points,  
28 etc.) should be cleared through NIFC Public Affairs prior to external  
29 release.
- 30
- 31 Core SAIT members are required to take the Interagency Serious Accident  
32 Investigation Course 1112-05 prior to serious accident investigation assignment.  
33 This training is also required every 5 years for recurrency.
- 34 • **FS/BLM/FWS**- This training is required every 5 years to retain currency.
- 35 **SAI 24 and 72 Hour Reports**
- 36 Final 24 and 72 hour reports will be approved by the SAI delegating official,  
37 then sent to the agency fire safety/risk management lead for national  
38 distribution, which may include posting through the NWCG Safety Alert  
39 System.
- 40 • **24-Hour Preliminary Report**- This report contains known basic facts about  
41 the accident. It will be completed and forwarded by the responsible Agency  
42 Administrator to the SAI delegating official. Names of injured personnel  
43 will not be included in this report. Personnel may be referenced by  
44 position.
  - 45 • **72-Hour Expanded Report**- This report provides additional factual  
46 information, if available. The information may include the number of

1 victims and severity of injuries. The focus should be on information that  
2 may have immediate impact on future accident prevention. This report will  
3 be completed and forwarded by the SAI team to the SAI delegating official.  
4 Names of injured personnel will not be included in this report. Personnel  
5 may be referenced by position.

6

### 7 **SAI Final Report**

8 Within 45 days of the incident, a final report consisting of a Factual Report (FR)  
9 and a Management Evaluation Report (MER) will be produced by the  
10 investigation team to document facts, findings, and recommendations and  
11 forwarded to the Designated Agency Safety and Health Official (DASHO)  
12 through the agency Fire Director(s).

- 13 • **Factual Report** This report contains a brief summary or background of the  
14 event, and facts based only on examination of technical and procedural  
15 issues related to equipment and tactical fire operations. It does not contain  
16 opinions, conclusions, or recommendations. Names of injured personnel  
17 are not to be included in this report (reference them by position). Post-  
18 accident actions should be included in this report (emergency response  
19 attribute to survival of a victim, etc).

20

21 Factual Reports will be submitted to Wildland Fire Lessons Learned Center  
22 (LLC) by the respective agency's fire safety/risk management leads.  
23 E-mail: llcdocsubmit@gmail.com

- 24 • **Management Evaluation Report (MER)**

25 The MER is intended for internal use only and explores management  
26 policies, practices, procedures, and personal performance related to the  
27 accident. The MER categorizes findings identified in the factual report and  
28 provides recommendations to prevent or reduce the risk of similar  
29 accidents.

30

31 Factual Report and Management Evaluation Report formatting can be found on  
32 the NIFC website at: [http://www.nifc.gov/safety/accident\\_resources.htm](http://www.nifc.gov/safety/accident_resources.htm)

33

34

### 35 **Accident Review Board/Board of Review**

36 An Accident Review Board/Board of Review is used by some agencies to  
37 evaluate recommendations, and develop a corrective action plan. Refer to the  
38 respective agency's Safety and Health policy.

39

### 40 **Wildland Fire Accident Investigation XXX (AI) Process**

41

42 Accident investigations and reports should be commensurate with the  
43 complexity and/or severity of the accident. Investigations and reports may range  
44 from large investigation teams producing comprehensive reports to first-level  
45 supervisors initiating investigations and reporting injury/property damage in  
46 agency reporting systems.

1

**2 Notification**

3 When an accident occurs, agency notification requirements will be followed.

4 Notification requirements universally include:

- 5 • Local dispatch center
- 6 • Unit Fire Management Officer
- 7 • Agency Administrator
- 8 • XXX OSHA (refer to chapter 7 for reporting criteria)

9

**10 Investigation Team Membership**

11 Investigation team membership should be commensurate with the complexity  
12 and/or severity of the accident. An investigation team should consist of a team  
13 leader and an adequate number of technical specialists and subject matter  
14 experts. For complex investigations, team membership may also include a chief  
15 investigator, a safety advisor/manager, and additional technical specialists, and a  
16 writer/editor. Team members may have dual roles (e.g., chief investigator/safety  
17 advisor).

18

**19 Investigation Methodology**

20 Accident Investigations (AI) are detailed and methodical efforts to collect and  
21 interpret facts related to an accident and to provide specific recommendations to  
22 prevent recurrence. The AI should include the following actions:

- 23 • Visual inspection of involved site, equipment, or material;
- 24 • Detailed analysis of equipment or material, as necessary;
- 25 • Interviews with involved personnel, witnesses, managers, and other  
26 pertinent persons;
- 27 • Collection and review of written statements;
- 28 • Review of records, archives, plans, policies, procedures, and other pertinent  
29 documents;
- 30 • Consideration of environmental, equipment, material, procedural, and  
31 human factors as they related to the incident; and
- 32 • Development of specific findings and related recommendations for the AI  
33 report.

**34 AI 24- and 72-Hour Reports**

35 24- and 72-hour reports should be completed when a formal AI will be  
36 conducted. Final 24- and 72-hour reports will be approved by the AI delegating  
37 official, then sent to the agency fire safety/risk management lead for national  
38 distribution, which may include posting through the NWCG Safety Alert  
39 System.

- 40 • 24-Hour Preliminary Report- This report contains known basic facts about  
41 the accident. It will be completed and forwarded by the responsible Agency  
42 Administrator to the next higher level (e.g. District Manager forwards to  
43 State Director). Names of injured personnel will not be included in this  
44 report. Personnel may be referenced by position.

- 1 • 72-Hour Expanded Report- This report provides additional factual  
2 information, if available. The information may include the number of  
3 victims and severity of injuries. The focus should be on information that  
4 may have immediate impact on future accident prevention. This report will  
5 be completed and forwarded by the AI team to the AI delegating official.  
6 Names of injured personnel will not be included in this report. Personnel  
7 may be referenced by position.  
8

### 9 **AI Final Report**

10 Within 45 days of the accident, a final report including facts, findings, and  
11 recommendations shall be submitted to the senior manager dependent upon the  
12 level of investigation (e.g., local Agency Administrator, State/Regional Director,  
13 and Agency Fire Director or their designee). If a lower level investigation is  
14 conducted, a courtesy copy of the final report shall be sent to the respective  
15 agency's national fire safety/risk management lead.  
16

17 The Final Report (minus names of employees- they should be referenced by  
18 position) will be submitted to Wildland Fire Lessons Learned Center (LLC) by  
19 the respective agency's National Fire Safety Leads.

20 E-mail: llcdocsu@submit@gmail.com  
21

### 22 **Accident Investigation Report Standard Contents**

- 23 • **Executive Summary** - A brief narrative of the facts involving the accident  
24 including dates, locations, times, name of incident, jurisdiction(s), number  
25 of individuals involved, etc. Names of injured personnel or personnel  
26 involved in the accident are not to be included in this report (reference them  
27 by position).
- 28 • **Narrative** - A detailed chronological narrative of events leading up to and  
29 including the accident, as well as rescue and medical actions taken after the  
30 accident. This section will contain who, what, and where.
- 31 • **Investigation Process**- A brief narrative of actions taken by the  
32 investigation team. This narrative should include investigation team  
33 membership, Delegation of Authority information (from who and contents,  
34 include a copy as an appendix), investigative actions and timeline (when the  
35 team conducted interviews, inspections, site visits, etc.), and if other sources  
36 were consulted (i.e. professional accident reconstruction experts, equipment  
37 manufacturers, etc.). This section should also address if environmental,  
38 equipment, material, procedural, and human factors were present, and state  
39 how findings/recommendations were developed.
- 40 • **Findings/Recommendations**
- 41 ○ **Findings** are developed from the factual information. Each finding is a  
42 single event or condition. Each finding is an essential step in the  
43 accident sequence, but each finding is not necessarily causal or  
44 contributing, **XXX and each finding may not have an associated**  
45 **recommendation**. Findings should only include information necessary  
46 to explain the specific event or condition. Findings must be

- 1 substantiated by the factual data. Findings should not include opinion  
2 or speculation.
- 3 ○ **Discussion** –This provides explanation or information pertinent to a  
4 specific finding.
  - 5 ○ **Recommendations** - Recommendations are proposed actions intended  
6 to prevent similar accidents. Recommendations should be directly  
7 related to findings, should not contain opinion or speculation, and **XXX**  
8 **when appropriate**, should identify the specific **XXX individual**  
9 **organization** responsible for completing the recommended action.  
10 Recommendations will be evaluated and may be incorporated into  
11 future operational direction through established processes.
  - 12 ● **Conclusions and Observations** - Investigation team’s opinions and  
13 inferences, and “lessons learned” may be captured in the section. This  
14 section is not required.
  - 15 ● **Reference Materials**
    - 16 ○ **Maps/Photographs/Illustrations** - Graphic information used to  
17 document and visually portray facts.
    - 18 ○ **Appendices** - Reference materials (e.g., fire behavior analysis,  
19 equipment maintenance reports, agreements, **XXX Delegation of**  
20 **Authority**).
    - 21 ○ **XXX Records** – **Factual data and documents used to substantiate facts**  
22 **involving the accident.**

23  
24 An AI Delegation of Authority template, AI report template and examples of AI  
25 reports can be found at the NIFC Safety website:  
26 [http://www.nifc.gov/safety/safety\\_reptsInvest.html](http://www.nifc.gov/safety/safety_reptsInvest.html)

## 27 28 **Fire Cause Determination and Trespass Investigation**

### 29 30 **Introduction**

31 Agency policy requires determination of cause, origin, and responsibility for all  
32 wildfires. Accurate fire cause determination is a critical first step for a  
33 successful fire investigation and for targeting fire prevention efforts. Proper  
34 investigative procedures, which occur concurrent with initial attack, more  
35 accurately pinpoint fire causes and can preserve valuable evidence that would  
36 otherwise be destroyed by suppression activities. Fire trespass refers to the  
37 occurrence of unauthorized fire on agency-protected lands where the source of  
38 ignition is tied to some type of human activity.

### 39 40 **Policy**

41 The agency must pursue cost recovery, or document why cost recovery is not  
42 required, for all human-caused fires on public lands. The agency will also  
43 pursue cost recovery for other lands under fire protection agreement where the  
44 agency is not reimbursed for suppression actions, if so stipulated in the  
45 agreement.

46

1 For all human-caused fires where negligence can be determined, trespass actions  
2 are to be taken to recover cost of suppression activities, land rehabilitation, and  
3 damages to the resource and improvements. Only fires started by natural causes  
4 will not be considered for trespass and related cost recovery.

5  
6 The determination whether to proceed with trespass action must be made on  
7 “incident facts,” not on “cost or ability to pay.” Trespass collection is both a  
8 cost recovery and a deterrent to prevent future damage to public land. It is  
9 prudent to pursue collection of costs, no matter how small. This determination  
10 must be documented and filed in the unit office’s official fire report file.

11  
12 The Agency Administrator has the responsibility to bill for the total cost of the  
13 fire and authority to accept only full payment. On the recommendation of the  
14 State/Regional Director, the Solicitor/Office of General Counsel may  
15 compromise claims of the United States, up to the monetary limits (\$100,000)  
16 established by law 31 U.S.C. 3711[a], 4 CFR 103-104, and 205 DM 7.1 and 7.2.  
17 The Solicitor/Office of General Counsel will refer suspension or termination of  
18 the amount, in excess of \$100,000, exclusive of interest, penalties, or  
19 administrative charges, to the Department of Justice.

20  
21 Unless specified otherwise in an approved protection agreement, the agency that  
22 has the land management jurisdiction/administration role is accountable for  
23 determining the cause of ignition, responsible party, and for obtaining all  
24 billable costs, performing the billing, collection, and distribution of the collected  
25 funds. The agency with the fire protection responsibility role must provide the  
26 initial determination of cause to the agency with the land management  
27 jurisdiction/administration role. The agency providing fire protection shall  
28 provide a detailed report of suppression costs that will allow the jurisdictional  
29 agency to proceed with trespass procedures in a timely manner.

30  
31 Each agency’s role in fire trespass billing and collection must be specifically  
32 defined in the relevant Cooperative Fire Protection Agreement. The billing and  
33 collection process for federal agencies is:

- 34 ● For example, a federal agency fire occurs on another federal agency’s land  
35 and is determined to be a trespass fire. BLM provides assistance, and  
36 supplies costs of that assistance to the federal agency with jurisdictional  
37 responsibility for trespass billing. The responsible federal agency bills and  
38 collects trespass, and BLM then bills the federal agency and is reimbursed  
39 for its share of the collection.
- 40 ● For example, where BLM administered land is protected by a state agency,  
41 the billing and collection process is:
  - 42 ○ The state bills BLM for their suppression costs. The BLM will pursue  
43 trespass action for all costs, suppression, rehabilitation, and damages,  
44 and deposits the collection per BLM’s trespass guidance.

45

1 Initiation of fire cause determination must be started with notification of an  
 2 incident. Initial attack dispatchers are responsible for capturing all pertinent  
 3 information when the fire is reported and throughout the incident. The initial  
 4 attack Incident Commander and the initial attack forces are responsible for  
 5 initiating fire cause determination and documenting observations starting with  
 6 their travel to the fire. If probable cause indicates human involvement, an  
 7 individual qualified in fire cause determination (INVF or cooperator equivalent)  
 8 should be dispatched to the fire.

9 Agency references:

- 10 • **BLM** - 9238-1
- 11 • **FWS** - *Fire Management Handbook*
- 12 • **NPS** - *RM-18, Chapter 6 and RM-9*
- 13 • **FS** - *FSM 5130 and FSM 5300*

14  
 15 **Related Policy Documents**

16  
 17 These documents provide specific direction related to incident and accident  
 18 investigations.

	Safety	Prescribed Fire
<b>DOI</b>	485 DM Chapter 7	
<b>BLM</b>	Manual 1112-2, 1112-1	
<b>FWS</b>	Service Manual 095	
<b>NPS</b>	DO/RM-50B, RM-18 Chapter 3	RM-18, Chapter 7
<b>FS</b>	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.	
<b>Interagency</b>	Information on accident investigations may be found at: <a href="http://www.nifc.gov/safety/accident_resources.htm">http://www.nifc.gov/safety/accident_resources.htm</a> . For reporting use <i>PMS 405-1, Wildland Fire Fatality and Entrapment Initial Report</i> , on the NWCG website.	

19

## Chapter 9 Dispatch and Coordination System

### Introduction

The primary mission of the national dispatch/coordination system is the timely, cost-effective, and efficient coordination, mobilization, and demobilization of wildland fire resources. This mission is accomplished at the direction of Agency Administrators and designated fire managers at the local, geographic, and national level and delegated to the Center Manager. Agency Administrators and fire managers are responsible for providing direction to their respective dispatch/coordination centers. The dispatch/coordination system implements the movement of resources in response to the direction as delegated.

Agency Administrators and fire managers will:

- Provide oversight for the development and implementation of dispatch/coordination center plans and operating procedures (e.g. initial response plans, dispatch operating guides/manuals, and mobilization guides) that enable the effective implementation of the fire management plan.
- Through prior planning, provide dispatch with an initial response plan to allocate resources to new incidents under the leadership of the Center Manager or delegated acting.
- Establish priorities for prepositioning and deployment of fire suppression resources based on evaluation of current/predicted fire activity and firefighting resource status and availability, and communicate these priorities to the dispatch/coordination managers through established command channels for implementation.
- Serve as authorized representatives on local, geographic, and national coordinating groups and MAC groups.

Dispatch/Coordination Center Managers will:

- Ensure that dispatch/coordination center decisions and actions are consistent with priorities, established plans, and operating procedures as determined by Agency Administrators and fire managers.
- Implement pre-planned response for allocation of resources to new incidents, pursuant to their delegation from Agency Administrators and designated fire managers.
- Develop and implement dispatch/coordination center plans and operating procedures (e.g. initial response plans, dispatch operating guides/manuals, and mobilization guides) that enable the effective implementation of the fire management plan.

## 1 **Organization**

2

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

- 5 • National- National Interagency Coordination Center
- 6 • Geographic- Geographic Area Coordination Centers
- 7 • Local- Local Dispatch Centers

8

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

15

### 16 **National Interagency Coordination Center (NICC)**

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

25

26 The NICC coordinates any requests for support from foreign countries, either  
27 through Departments of Agriculture and Interior agreements (Canada and  
28 Mexico) or arrangements (Australia and New Zealand), or from the Forest  
29 Service International Programs' Disaster Assistance Support Program (DASP)  
30 through the U.S. Agency for International Development's Office of Foreign  
31 Disaster Assistance.

32

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

38

### 39 **Geographic Area Coordination Centers (GACCs)**

40 There are ~~XXX+ 10~~ GACCs, each of which serve a specific geographic portion  
41 of the United States. Each GACC interacts with the local dispatch centers, as  
42 well as with the NICC and neighboring GACCs. Refer to the *National*  
43 *Interagency Mobilization Guide* for a complete directory of GACC locations,  
44 addresses, and personnel.

45 The principal mission of each GACC is to provide the cost-effective and timely  
46 coordination of emergency response for all incidents within the specified

1 geographic area. GACCs are also responsible for determining needs,  
2 coordinating priorities, and facilitating the mobilization of resources from their  
3 areas to other geographic areas.

4

#### 5 **Local Dispatch Centers**

6 Local dispatch centers are located throughout the country as dictated by the  
7 needs of fire management agencies. Local dispatch centers dispatch multi-  
8 agency wildland firefighting resources within a pre-established and identified  
9 dispatch zone boundary. The principal mission of a local dispatch center is to  
10 provide safe, timely, and cost-effective coordination of emergency response for  
11 all incidents within its specified geographic area. This entails the coordination  
12 of initial attack responses and the ordering of additional resources when fires  
13 require extended attack.

14

15 Local dispatch centers are also responsible for supplying intelligence and  
16 information relating to fires and resource status to their GACC and to their  
17 agency managers and cooperators. Local dispatch centers may work for, or  
18 with, numerous agencies, but should only report to one GACC.

19

20 Some local dispatch centers are also tasked with law enforcement and agency  
21 administrative workloads for non-wildfire operations. If this is the case, a  
22 commensurate amount of funding and training should be provided by the  
23 benefiting activity to accompany the increased workload. If non-wildfire  
24 workload is generated by another agency operating in an interagency dispatch  
25 center, the agency generating the additional workload should offset this  
26 increased workload with additional funding or personnel.

27

#### 28 **Mobilization Guides**

29

30 The NICC and each GACC annually publish a Mobilization Guide. The  
31 Mobilization Guides identify standard procedures which guide the operations of  
32 multi-agency logistical support activity throughout the coordination system.  
33 These guides are intended to facilitate interagency dispatch coordination,  
34 ensuring timely and cost-effective incident support services are provided. Local  
35 and Geographic Area Mobilization Guides supplement the *National Interagency*  
36 *Mobilization Guide*.

37

38 The *National Interagency Mobilization Guide* (NFES 2092) and links to  
39 Geographic Area Mobilization Guides are available at <http://www.nifc.gov/nicc/>

40

#### 41 **Local Mobilization Guide/Dispatch Operating Plan**

42 Local dispatch centers will have a local mobilization guide or dispatch operating  
43 plan to supplement the GACC and National Mobilization Guides. The  
44 mobilization guide or operating plan will include **XXX or provide reference to**  
45 **the** minimum elements and procedures to guide the operation of a local dispatch  
46 center. See Appendix P (available at

1 [http://www.nifc.gov/policies/pol\\_intgncy\\_guides.html](http://www.nifc.gov/policies/pol_intgncy_guides.html)) for minimum required  
2 elements and procedures for inclusion in a local mobilization guide/dispatch  
3 operating plan.

#### 4 **Local and Geographic Area Drawdown**

6  
7 Drawdown is the predetermined number and type of suppression resources that  
8 are required to maintain viable initial attack (IA) capability at either the local or  
9 geographic area. Drawdown resources are considered unavailable outside the  
10 local or geographic area for which they have been identified.

11 Drawdown is intended to:

- 12 • Ensure adequate fire suppression capability for local and/or geographic area  
13 managers; and
- 14 • Enable sound planning and preparedness at all management levels.

15  
16 Although drawdown resources are considered unavailable outside the local or  
17 geographic area for which they have been identified, they may still be  
18 reallocated by the Geographic Area or National MAC to meet higher priority  
19 obligations.

#### 21 **Establishing Drawdown Levels**

22 Local drawdown is established by the local unit and/or the local MAC group and  
23 implemented by the local dispatch office. The local dispatch office will notify  
24 the Geographic Area Coordination Center (GACC) of local drawdown decisions  
25 and actions.

26  
27 Geographic area drawdown is established by the GMAC and implemented by  
28 the GACC. The GACC will notify the local dispatch offices and the National  
29 Interagency Coordination Center (NICC) of geographic area drawdown decision  
30 and actions.

#### 31 **National Ready Reserve (NRR)**

32  
33 NRR is a means by which the NMAC identifies and readies specific categories,  
34 types, and quantities of fire suppression resources in order to maintain overall  
35 national readiness during periods of actual or predicted national suppression  
36 resource scarcity.

37 NRR implementation responsibilities are as follows:

- 38 • NMAC establishes national ready reserve requirements by resource  
39 category, type, and quantity.
- 40 • NICC implements NMAC intent by directing individual GACCs to place  
41 specific categories, types, and quantities of resources on national ready  
42 reserve.
- 43 • GACCs direct local dispatch centers and/or assigned IMTs to specifically  
44 identify resources to be placed on national ready reserve.

- 1 • XXX GACCs provide NICC specific names of national ready reserve  
2 resources.
- 3 • NICC mobilizes national ready reserve assets through normal coordination  
4 system channels as necessary.
- 5
- 6 National ready reserve resources must meet the following requirements:
- 7 • May be currently assigned to ongoing incidents;
- 8 • Must be able to demobe and be enroute to new assignment in less than 2  
9 hours;
- 10 • Resources must have a minimum of 7 days left in 14 day rotation  
11 (extensions will not be factored in this calculation);
- 12 • May be assigned to incidents after being designated ready reserve, in  
13 coordination with NICC; and
- 14 • Designated ready reserve resources may be adjusted on a daily basis.
- 15
- 16 NMAC will adjust ready reserve requirements as needed. Furthermore, in order  
17 to maintain national surge capability, the NMAC may retain available resources  
18 within a geographic area, over and above the established geographic area  
19 drawdown level.
- 20

## 21 Dispatch/Coordination Center Administration

### 22 Memorandum of Understanding (MOU)

23 Each dispatch/coordination center will have a Memorandum of Understanding  
24 (MOU) signed by all cooperators. This MOU will be reviewed and updated  
25 annually. Dispatch/coordination center MOUs and their associated Annual  
26 Operating Plans (AOPs) will be current and will define:

- 27
- 28 • The roles and responsibilities of each interagency partner's fiscal and  
29 infrastructure support responsibilities;
  - 30 • Administrative oversight/support groups involved with the  
31 dispatch/coordination center;
  - 32 • Clear fiscal reimbursement procedures and interagency funding procedures
  - 33 • The dispatch/coordination center's organizational charts;
  - 34 • Communication protocols for local and geographic area cooperating  
35 Agencies, including briefings, planned meetings, and conference calls;
  - 36 • Procedures for Incident Management Team mobilization and close-out; and
  - 37 • Supporting documentation, such as any local initial attack or fire and  
38 aviation agreements for units serviced by the center.
- 39

40 Funding for facilities, equipment, and staffing needs shall be identified in each  
41 participating agency's planning and budget process, and included in the  
42 MOU/AOP.

43

### 44 Service and Supply Plans

45 All local dispatch centers shall maintain a Service and Supply Plan that contains

1 current copies of procurement documents related to locally available resources.  
2 Service and Supply Plans must be current, complete, organized, and accessible  
3 to Initial Attack and Expanded Dispatchers.

4  
5 The Service and Supply Plan will contain current copies of competitive and non-  
6 competitive Incident Blanket Purchase Agreements (I-BPAs), as well as source  
7 lists for incident-only contracts. Resources and their respective  
8 contracts/agreements will be entered into ROSS if applicable, and naming  
9 conventions will meet national standards.

10  
11 For additional required components of a Service and Supply Plan, refer to  
12 Appendix P (available at  
13 [http://www.nifc.gov/policies/pol\\_intgncy\\_guides.html](http://www.nifc.gov/policies/pol_intgncy_guides.html)).

#### 14 15 **Continuity of Operations Plan (COOP)**

16 All centers will maintain a current Continuation of Operations Plan (COOP)  
17 which includes an identified back-up power source, a back-up computer system,  
18 a contingency plan for loss of radios (if applicable), a pre-identified alternate  
19 location with adequate supplies, and notification procedures for activation.

#### 20 21 **Dispatch/Coordination Center Manager Delegation of Authority**

22  
23 All Dispatch/Coordination Center Managers shall have a signed Delegation of  
24 Authority providing an adequate level of operational authority from all  
25 participating agencies. The Delegation of Authority will include appropriate  
26 supervisory authority, and a process for completion of employee performance  
27 evaluations.

28  
29 The Dispatch/Coordination Center Manager may, where appropriate, complete a  
30 Delegation of Authority for staff that identifies roles and responsibilities for  
31 Acting Center Manager, Coordinator-on-Duty, Floor Supervisor, and/or Internal  
32 Duty Officer.

#### 33 34 **National Interagency Coordination Center (NICC) Functional 35 Responsibilities**

36  
37 The NICC has established the Coordinator-On-Duty (NICC COD) position. The  
38 NICC COD is responsible for managing the daily operation of the NICC and for  
39 resource allocation decisions in alignment with NMAC direction.

40  
41 The National Interagency Coordination Center (NICC) is responsible for the  
42 following:

- 43 • **Positioning and Movement of Resources**

44 NICC is responsible for, in conjunction with the GACCs, ensuring a  
45 coordinated response to wildland fire incidents and/or all-hazard incidents  
46 under the National Response Framework or other appropriate authorities.

- 1 NICC positions resources (personnel, aircraft, supplies, and equipment) to  
2 meet existing and anticipated incident, preparedness, severity, wildland, and  
3 prescribed fire needs regardless of geographic location or agency affiliation.  
4 NICC coordinates movement of resources across Geographic Area  
5 boundaries. NICC allocates resources according to National Multi-Agency  
6 Coordinating Group (NMAC) direction when competition for wildland fire  
7 resources occurs among Geographic Areas.
- 8 ● **Management of National Aviation Resources**  
9 As directed or delegated by NMAC, NICC allocates national resource  
10 aviation assets to the Geographic Areas based upon national priorities.  
11 These national resources include:
    - 12 ○ Very Large Airtankers (VLATs);
    - 13 ○ Type 1 and Type 2 Airtankers;
    - 14 ○ Modular Airborne Fire Fighting System (MAFFS) Airtankers;
    - 15 ○ Type 1 and Type 2 helicopters;
    - 16 ○ Infra-red aircraft;
    - 17 ○ Lead planes and aerial supervision modules; and
    - 18 ○ Smokejumper aircraft.
  - 19  
20 NICC has established authorities and procedures for dispatching aviation  
21 resources. These authorities and procedures include:
    - 22 ○ Aircraft ordering protocols for fire, logistical and administrative flights;
    - 23 ○ tracking of all aircraft ordered through NICC that cross Geographic  
24 Area boundaries;
    - 25 ○ mechanisms for disseminating availability and commitment status  
26 throughout the dispatch/coordination system; and
    - 27 ○ Procedures for mobilization and use of large transport aircraft (NICC is  
28 the sole source for large transport aircraft).
  - 29 ● **Management of National Support Resources**  
30 NICC mobilizes national support resources such as National Interagency  
31 Radio Support Cache radio systems and kits, Incident Remote Automatic  
32 Weather Stations, Project Remote Automatic Weather Stations, National  
33 Contract Mobile Food Services, and National Contract Mobile Shower  
34 Facilities. Refer to the National Interagency Mobilization Guide for more  
35 information.
  - 36 ● **Allocation of Other National Resources**  
37 As directed or delegated by the National Multi-Agency Coordinating Group  
38 (NMAC), NICC mobilizes national program resources such as National  
39 Interagency Buying Teams, Administrative Payment Teams, Burned Area  
40 Emergency Response Teams, and National Fire Prevention and Education  
41 Teams to the Geographic Areas based upon national priorities. Refer to the  
42 *National Interagency Mobilization Guide* for more information.
  - 43 ● **Predictive Services and Intelligence**  
44 Predictive Services is responsible for providing weather, fuels, and  
45 intelligence products that support the decision-making process at the local,  
46 state/regional, geographic, and national levels. NICC Predictive Services

1 produces and disseminates (among other products) a monthly/seasonal  
2 outlook that covers the next one to four month period.  
3 NICC ensures that procedures are in place for gathering, accessing and  
4 disseminating information, and maintains a current Standard Operating  
5 Procedure that outlines duties and procedures of the Predictive Services  
6 program. NICC is also responsible for maintaining a Predictive Services  
7 and Intelligence website to meet these mission requirements.

8  
9 NICC Predictive Services has identified and maintains open lines of  
10 communication with interagency partners. NICC Predictive Services  
11 ensures that contacts and roles are maintained and understood for the  
12 National Weather Service (NWS), NIFC, NICC, and GACCS. Predictive  
13 Services staff participate in planned briefings, meetings and conference  
14 calls, monthly/seasonal assessments, etc.

15  
16 NICC Predictive Services, in coordination with the NWS, has an Annual  
17 Operating Plan (AOP) that outlines products and services provided by each  
18 office. NICC Predictive Services ensures that provisions within the AOP  
19 that affect local dispatch centers are coordinated with and communicated to  
20 those centers.

21 • **International and Department of Defense Assistance**

22 NICC serves as the focal point for international assistance requested from  
23 NMAC either under existing agreements or by the US Department of State.  
24 NICC also serves as the focal point for any requests for assistance from the  
25 Department of Defense.

26 For more information, see the *National Interagency Mobilization Guide*,  
27 Chapter 40 at <http://www.nifc.gov/nicc/>

28

29 **Geographic Area Coordination Center (GACC) Functional Responsibilities**

30

31 The GACCs have established the Coordinator-On-Duty (COD) position. The  
32 COD is responsible for managing the daily operation of the GACC and for  
33 resource allocation decisions in alignment with NMAC direction.

34

35 Geographic Area Coordination Centers (GACCs) are responsible for the  
36 following:

37 • **Positioning and Movement of Resources**

38 GACCs are responsible for, in conjunction with NICC and local dispatch  
39 centers, ensuring a coordinated response to wildland fire incidents and/or  
40 all-hazard incidents under the National Response Framework or other  
41 appropriate authorities. GACCs mobilize and position resources  
42 (personnel, aircraft, supplies, and equipment) internally among local  
43 dispatch centers to meet existing and anticipated incident, preparedness,  
44 severity, wildland, and prescribed fire needs, regardless of geographic  
45 location or agency affiliation. GACCs coordinate movement of resources  
46 within Geographic Area boundaries and allocate resources according to

- 1 Geographic Area Multi-Agency Coordinating Group (GMAC) direction  
2 when competition for wildland fire resources occurs within the Geographic  
3 Area. GACCs will ensure adequate fire suppression capability for local  
4 and/or Geographic Area managers, and enable sound planning and  
5 preparedness at all management levels.  
6
- 7 Geographic Areas will establish priorities for their incidents and wildland  
8 fires and report them to NICC. GACCs will notify NICC and adjoining  
9 GACCs of the commitment of National Resources within their Area, and  
10 will notify the local dispatch offices and the NICC of Geographic Area  
11 drawdown decision and actions.  
12
- 13 Activities associated with the National Response Framework will be  
14 accomplished utilizing established dispatch coordination procedures. The  
15 affected GACC will coordinate ordering points with Regional Response  
16 Coordination Centers (RRCC) and Joint Field Offices (JFO).
- 17 ● **Management of Aviation Resources**  
18 GACCs have established authorities and procedures for dispatching aviation  
19 resources. These procedures include:  
20 ○ Aircraft ordering protocols for fire, logistical and administrative flights;  
21 ○ Procedures for tracking of all aircraft within Geographic Area  
22 boundaries;  
23 ○ Mechanisms for disseminating availability and commitment status  
24 throughout the dispatch/coordination system;  
25 ○ Ordering and operational procedures between the GACC, dispatch  
26 center(s) and airtanker base(s);  
27 ○ Procedures for flight following (including protocols for use of  
28 Automated Flight Following (AFF) and initial call on the National  
29 Flight Following Frequency);  
30 ○ Procedures for ordering and establishing TFR's and operating  
31 guidelines for airspace deconfliction for Military Air Space (MTR,  
32 SUA, MOA) and Restricted Areas. GACCs will participate in planned  
33 airspace meetings annually;  
34 ○ Procedures for ordering and utilization of FAA temporary towers; and  
35 ○ Procedures for reporting through the SAFECOM system.
- 36 ● **Predictive Services and Intelligence**  
37 GACC Predictive Services is responsible for providing weather, fuels and  
38 intelligence products that support the decision-making process at the local,  
39 state, geographic and national levels. GACCs provide timely  
40 communications on information and decisions that affect the interagency  
41 dispatch community.  
42
- 43 GACCS ensure that procedures are in place for gathering, accessing and  
44 disseminating information, and maintain a current Standard Operating  
45 Procedure that outlines duties and procedures of the Predictive Services

1 program. GACCs are also responsible for maintaining a Predictive Services  
2 and Intelligence website to meet these mission requirements.

3  
4 Each GACC prepares an intelligence report that consolidates fire and  
5 resource status information received from each of the local dispatch centers  
6 in its area. This report is sent to NICC and to the local dispatch centers,  
7 caches, and agency managers in the geographic area.

8  
9 GACC Predictive Services maintains open lines of communication with  
10 interagency partners and ensures that contacts and roles are maintained and  
11 understood for the National Weather Service (NWS), NIFC, NICC, and  
12 adjacent GACCs. Predictive Services staff participate in planned briefings,  
13 meetings and conference calls, monthly/seasonal assessments, etc.

14  
15 GACC Predictive Services, in coordination with the NWS, has an Annual  
16 Operating Plan (AOP) that outlines products and services provided by each  
17 office. GACC Predictive Services ensures that provisions within the AOP  
18 that affect local dispatch centers are coordinated with and communicated to  
19 those centers.

### 20 21 **Local Dispatch Center Functional Responsibilities**

22  
23 Local Dispatch centers are responsible for initial attack dispatching,  
24 coordination of communications, intelligence gathering and dissemination, and  
25 logistical support for local incidents and field operations.

#### 26 • **Initial Attack Dispatching**

27 Local dispatch centers are the focal point for the report of, and initial  
28 response to wildland fires, and under appropriate authorities, other  
29 emergency incidents at the local level. Deployment of response resources is  
30 made in accordance with local processes and procedures as outlined in the  
31 dispatch center's mobilization guide.

32  
33 Each dispatch office with the responsibility for initial response to wildland  
34 fires shall have a pre-planned response plan that allocates resources to new  
35 wildland fires in accordance with fire management direction, initial attack  
36 agreements, and established ordering procedures. The preplanned response  
37 plan will be reviewed and updated annually prior to fire season.  
38 Additionally, each center will have a method to document actions taken and  
39 resources sent to wildland fires. Centers may use either a manual or  
40 computer aided dispatch system.

41  
42 Each dispatch center shall have maps posted that depict initial attack  
43 response areas, land ownership, jurisdictional and protection boundaries,  
44 hazards, and resource concerns. Each center will also ensure that Computer  
45 Aided Dispatch (CAD) and Geographic Information System (GIS) products  
46 are current and functioning.

- 1 Dispatch centers will have protocols in place for frequency management,  
2 priority use of frequencies, and procedures for obtaining additional  
3 frequencies.
- 4 Local Dispatch centers will have protocols in place for timely request and  
5 dissemination of Fire Weather Forecasts, Spot Weather Forecasts, Fire  
6 Weather Watches, and Red Flag Warnings to firefighters, Incident  
7 Commanders, and field-going personnel.
- 8
- 9 All required reference material will be current and accessible, and expired  
10 or out-of-date material will be removed.
- 11 • **Intelligence**
- 12 The intelligence function is responsible for gathering and disseminating  
13 incident, resource, weather and predictive services information. Each  
14 dispatch center will ensure that locations and conditions of the fire weather  
15 stations are known and a current weather station catalog is available.  
16 Weather data will be archived daily in WIMS and seasonal inputs will be  
17 maintained, including vegetative state, fuel moisture values, daily state of  
18 the weather observations, and updating breakpoints.
- 19 ○ *FS- Dispatch centers are required to have a person trained in the*  
20 *National Fire Danger Rating System (NFDRS) assigned to data quality*  
21 *assurance responsibilities.*
- 22
- 23 Dispatch centers will ensure that coordination/communication with the local  
24 NWS Forecast Office occurs annually prior to fire season.
- 25
- 26 Local dispatch centers will have a process in place for submission of the  
27 daily situation report and ICS-209's.
- 28
- 29 Dispatch Centers with websites will ensure current intelligence and weather  
30 information is posted.
- 31 • **Expanded Dispatch and Incident Business Management**
- 32 Expanded Dispatch is a functional branch of the Incident Support  
33 Organization (ISO) that supports incidents and expands as local fire  
34 conditions and activity dictates. Expanded Dispatch is established when a  
35 high volume of activity indicates that increased dispatch and coordination  
36 capability is required.
- 37
- 38 Each dispatch center will have an Expanded Dispatch Operating Plan which  
39 provides specific details about when, where, and how to implement an  
40 Expanded Dispatch. The plan will identify logistical support facilities  
41 available for Expanded Dispatch use. These facilities will be pre-identified,  
42 procured, and available for immediate setup, along with necessary  
43 equipment.
- 44
- 45 The Expanded Dispatch workspace will be separate from, but accessible to,  
46 the initial attack organization. The area should have adequate office space,

- 1 including suitable lighting, heating/ cooling systems, and security.  
2 Expanded Dispatchers will have access to communications equipment  
3 including telephones, fax machines, copiers, and computer hardware with  
4 adequate data storage space.  
5  
6 Qualified personnel should be on site in order to adequately staff required  
7 Expanded Dispatch functions. Expanded Dispatch supervisors are  
8 responsible for establishing a staffing and operating schedule for Expanded  
9 Dispatch, including operational period changes, briefings, and strategy  
10 meetings.
- 11 ● **Aviation**  
12 Each dispatch center will have procedures established for dispatching of  
13 aviation resources. These procedures will include:
    - 14 ○ Aircraft ordering protocols for fire, logistical and administrative flights;
    - 15 ○ Procedures for disseminating availability and commitment status  
16 throughout the dispatch/coordination system;
    - 17 ○ Procedures for coordination with airtanker bases;
    - 18 ○ Procedures for airtanker, smokejumper and rappeller use and  
19 restrictions;
    - 20 ○ Procedures for flight following (including protocols for use of  
21 Automated Flight Following (AFF) and initial call on the National  
22 Flight Following Frequency);
    - 23 ○ Procedures for ordering and establishing TFR's;
    - 24 ○ Procedures for airspace de-confliction for Military Air Space (MTR,  
25 SUA, MOA) and Restricted Areas, and current Aviation flight hazard  
26 maps or military operating area sectionals;
    - 27 ○ Procedures for requesting FAA Temporary Towers; and
    - 28 ○ Procedures for reporting through the SAFECOM system.

### 30 **Accident Notification**

31  
32 When an accident occurs, agency notification requirements will be followed. As  
33 soon as the accident is verified, the following should be notified:

- 34 ● Local dispatch center;
- 35 ● Unit Fire Management Officer; and
- 36 ● Agency Administrator(s).

37  
38 Additional notifications should occur in the dispatch/coordination system, from  
39 the local dispatch center to the NICC through the GACC.

### 41 **Incident Emergency Management Planning**

42  
43 To achieve successful medical response, Agency Administrators will ensure that  
44 their units have completed the following items prior to each field season:

- 45 ● A **XXX n Incident Medical** Emergency Plan that identifies medical  
46 evacuation options, local/county/state/federal resource capabilities,

- 1 capacities, ordering procedures, cooperative agreements, role of dispatch  
2 centers, and key contacts or liaisons;
- 3 • Standardized XXX incident and communication center protocols XXX that  
4 include the components identified in the Medical Incident Report section of  
5 the IRPG:
    - 6 ○ XXX Determine the nature of the emergency;
    - 7 ○ If the emergency is a medical injury/illness, determine if the  
8 injury/illness is life threatening;
    - 9 ○ If the injury is life threatening, then clear designated frequency for  
10 emergency traffic;
    - 11 ○ Identify the on-scene point of contact by position and last name (i.e.  
12 TFLD-Smith);
    - 13 ○ Ensure that the Medical Unit Leader (if assigned) is contacted  
14 immediately;
    - 15 ○ Identify number injured, patient assessment(s) and location (geographic  
16 and/or GPS coordinates);
    - 17 ○ Identify on-scene medical personnel by position and last name (i.e.  
18 EMT Jones);
    - 19 ○ Identify preferred method of patient transport;
    - 20 ○ Determine any additional resources or equipment needed;
    - 21 ○ Document all information received and transmitted on the radio or  
22 phone;
    - 23 ○ Document any changes in the on-scene point of contact or medical  
24 personnel as they occur;
  - 25 • For incidents that require the preparation of an IAP, XXX an incident  
26 medical plan that satisfies the requirements found in NWCG memo number  
27 XXX 025-2010 M-14-01 is required, and will include an expanded block  
28 eight of the ICS-206 Medical Plan detailing available resources (ground and  
29 air), roles, responsibilities, and hazard mitigations. Form ICS-206-WF will  
30 be used. This form is available at:  
31 <http://www.nwcg.gov/pms/forms/ics.htm>

32  
33 For more information, refer to Chapter 7, and NWCG XXX 025-2010 M-14-01  
34 at  
35 [http://www.nwcg.gov/general/memos/nwcg\\_025\\_2010.html](http://www.nwcg.gov/general/memos/nwcg_025_2010.html)  
36 <http://www.nwcg.gov/general/memos/m-14-01.html>

### 37 **Dispatch/Coordination Center Reference Material**

38  
39  
40 All coordination/dispatch centers will have reference materials available to all  
41 dispatchers. See Appendix P (available at  
42 [http://www.nifc.gov/policies/pol\\_intgncy\\_guides.html](http://www.nifc.gov/policies/pol_intgncy_guides.html)) for a list of minimum  
43 required reference materials.  
44  
45  
46

**1 Training**

2  
3 Dispatch/Coordination center staff will be trained in, and follow established  
4 procedures for, the use of applications utilized in center operations.-

5  
6 Personnel will be cross trained in each function (i.e., aircraft, crews, overhead,  
7 equipment, intelligence) in order to provide staffing coverage. Dispatch  
8 personnel will be trained in and follow Center procedures for the following (as  
9 applicable):

- 10 • Resource Ordering and Status System (ROSS);
- 11 • Computer Aided Dispatch (CAD);
- 12 • Fire Code;
- 13 • Automated Flight Following (AFF);
- 14 • Unit Identifiers;
- 15 • SIT Report/209; and
- 16 • Other applications (i.e. WFDSS, I-Suite).

17  
18 All dispatch center employees will have a documentation file for current season  
19 training, past season fire training, certifications and experience, fire experience,  
20 performance evaluations, and have task books initiated appropriate to their  
21 training needs. All supervisors will be familiar with safety and accident  
22 reporting processes (i.e. Safety Management Information System (SMIS),  
23 SAFENET, SAFECOM).

24  
25 All employees will have current red cards produced by the Incident  
26 Qualification and Certification System (IQCS) as per chapter 13.

- 27 • *BLM- BLM employees are required to complete the BLM Fire and Aviation*  
28 *Employee Orientation Checklist, available at the BLM Fire Operations*  
29 *website.*

**31 Facilities and Equipment**

32  
33 All Dispatch/Coordination Centers will have a telephone system with an  
34 adequate number of lines for normal business volume, and the capability to  
35 expand as conditions dictate. Centers will have teleconference capabilities  
36 commensurate with the anticipated volume of business.

37  
38 Copying, facsimile, computer, and GIS systems shall meet operational needs  
39 (quantity and capability) and comply with agency standards. Software will be  
40 compatible with Information Resource Management and agency requirements  
41 for security.

42  
43 All facilities shall have an evacuation plan, security plan, and safety practices in  
44 place to safe guard the health and welfare of employees.

45

- 1 Adequate facilities will be available to host an expanded dispatch or MAC group  
2 and shall include telephones, computer access, copiers, and basic office supplies.  
3 Rooms for MAC Group use will have adequate IT equipment and support.  
4  
5 All centers will have adequate workspace with room for reference materials and  
6 other necessary items to perform assigned duties. Individual workspace should  
7 be provided away from the initial attack floor for each permanent employee, and  
8 a break room area should be provided for employees.  
9  
10 Employees will have access to a locked area to store data that may contain  
11 personally identifiable information (PII) or personal items.  
12

### 13 **Radio Systems**

- 14 Radio systems will have an adequate number of frequencies to provide for  
15 separation of incidents and use by all interagency partners. Base station and  
16 repeater transmissions shall be recorded and maintained in accordance with  
17 agency records management policies. Radio systems may have alert tones  
18 available for use as determined by local center policies.