

Interagency Standards for Fire and Fire Aviation Operations

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

Department of Agriculture
Forest Service

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Chapter 01

Federal Wildland Fire Management Policy Overview

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Chapter 01

Federal Wildland Fire Management Policy Overview

Scope

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

Purpose

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

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

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

Guiding Principles of the Federal Wildland Fire Management Policy

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

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

26 **7. Wildland Urban Interface**

27 The operational roles of the federal agencies as partners in the wildland
28 urban interface are wildland firefighting, hazard reduction, cooperative
29 prevention, education, and technical assistance. Structural fire suppression
30 is the responsibility of tribal, state, or local governments. Federal agencies
31 may assist with exterior structural fire protection activities under formal fire
32 protection agreements that specify the mutual responsibilities of the
33 partners, including funding. (Some federal agencies have full structural
34 protection authority for their facilities on lands they administer and may
35 also enter into formal agreements to assist state and local governments with
36 structural protection.)

37 **8. Planning**

38 Every area with burnable vegetation must have an approved FMP. FMPs
39 are strategic plans that define a program to manage wildland and prescribed
40 fires based on the area's approved land management plan (LMP). FMPs
41 must provide for firefighter and public safety; include fire management
42 strategies, tactics, and alternatives; address values to be protected, and
43 public health issues; and be consistent with resource management
44 objectives, activities of the area and environmental laws and regulations.

45
46

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

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

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

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

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

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

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

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

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

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

11 12 **Fire Management Objectives**

13
14 Federal agency fire management programs should assist resource managers
15 protect, maintain and enhance federal lands in a cost effective manner.

16 Wildland fire management objectives are:

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

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1 Fire Operations Doctrine

2

3 Purpose of Fire Operations Doctrine

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

10

11 The Nature of Fire Operations

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

20

21 Wildland Fire Operations Risk Management

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

30

31 Fire Preparedness

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

43

44 Fire Operations Command Philosophy

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

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

15

16 **Fire Leadership**

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

26

27 **Fire Suppression**

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

44

45

46

1 **Principles of Suppression Operations**

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

11

12 **Principles of Fire Suppression Action**

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

18 **1. Objective**

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

23 **2. Speed and Focus**

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

29 **3. Positioning**

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

37 **4. Simplicity**

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

41 **5. Safety**

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

46

1 Cost Effective Fire Operations

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

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Chapter 02 BLM Wildland Fire and Aviation Program Organization and Responsibilities

Introduction

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

Fire and Aviation Directorate

The BLM Fire and Aviation Directorate (FAD) consists of an Assistant Director (AD) in Boise, Washington Office Deputy Assistant Director (WODAD), Fire Operations Division Chief, Aviation Division Chief, Planning and Resources Division Chief, Support Services Division Chief, Budget and Evaluation Chief, External Affairs Division Chief, National Radio Communication Division Chief, and Equal Employment Opportunity Manager.

Program Manager Responsibilities

Assistant Director, Fire and Aviation (FA-100)

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

- 1 • Initiates or participates on Boards of Review concerning actions taken on
2 selected wildland fires.
- 3 • Negotiates cooperative agreements and/or modifications of existing national
4 level agreements to improve fire and aviation management activities on
5 Bureau lands.
- 6 • Reviews funding requests for severity, hazardous fuel reduction, and
7 emergency rehabilitation of Bureau lands damaged by wildland fires; makes
8 determinations on funding levels and recommends approval to the BLM
9 Director.
- 10 • Serves as designated contact for the United States Department of the
11 Treasury for the certification and revocation of Certifying Officers and
12 Assistant Disbursing Officers (CO/ADO) and Designated Officials for
13 emergency incident payments.

14

15 Equal Employment Opportunity Manager (EEO) (FA-102)

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

39

40 Support Services Division Chief (FA-200)

- 41 • Manages all aspects of the responsibilities and programs under the
42 jurisdiction of NIFC for the benefit of the BLM and cooperating agencies.
- 43 • Directs the accomplishment of the approved operating budget, exercising
44 appropriate control to assure program quality goals are met according to
45 established standards.

- 1 • Interprets departmental and Bureau policies and directives as they affect
2 NIFC programs.
- 3 • Participates in the BLM-wide and interagency task force activities as a
4 leader or member.
- 5 • Responsible for the NIFC Site and Facilities Management, Business
6 Practices, Human Resources, and Information Resource Management.
- 7 • Is a focal point and frequent spokesperson for the Bureau and the national
8 level management, assures a public awareness of Bureau programs and
9 coordinates with key officials in affected federal agencies, states, and
10 occasionally with other entities such as: foreign governments, private
11 individuals, private organizations, vendors, suppliers, transportation groups,
12 airlines, and others.
- 13 • Supports the implementation of the BLM's Automation/Modernization/
14 Information Resource Management (IRM) initiatives as they apply to
15 BLM/NIFC.

16
17 **Fire Operations Division Chief (FA-300)**

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

38
39 **Budget and Evaluation Division Chief (FA-400)**

- 40 • Serves as principal budget advisor of the Wildland Fire program to the
41 Assistant Director (WO 400), Deputy Assistant Director (FA 100), BLM
42 Fire Leadership Team, and to other BLM staffs.
- 43 • Serves as primary BLM representative in the DOI Wildland Fire Budget
44 formulation and execution process.

- 1 • Represents BLM on the DOI Fire Budget Team and at other interagency
2 meetings in regards to budget related policies, requirements, procedures,
3 and reports.
- 4 • Coordinates all budget activities between Washington Office, Office of
5 Wildland Fire Coordination, and Fire and Aviation.
- 6 • Provides national oversight for BLM Wildland Fire program budget
7 formulation, justification, and execution. Responsible for the development
8 and preparation of the budget justifications, Planning Target Allocation,
9 Annual Work Plan, capability statements, effects statements, and
10 congressional responses.
- 11 • Reviews NIFC offices at mid-year, third quarter and end-of-year and
12 distributes available funding in accordance with BLM policy.
- 13 • Provides oversight of Casual Payment Center. Ensures all DOI casual
14 payments are processed in a timely and cost-effective manner adhering to
15 procedures and practices set forth by the DOI agencies.

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

- 18 • Serves as principal aviation advisor to the Assistant Director, Deputy
19 Assistant Director (FA), other staffs, states, and to the DOI.
- 20 • Identifies and develops Bureau aviation policies, methods and procedures,
21 as well as standardized technical specifications for a variety of specialized
22 firefighting missions for incorporation into the directives system.
- 23 • Coordinates aviation-related activities and services between the Washington
24 Office (WO), and states with other wildland firefighting, regulatory,
25 investigative, and military agencies.
- 26 • Coordinates provision and use of aviation resources with business practices,
27 aviation user staffs at the WO, and state office level.
- 28 • Represents the BLM at interagency meetings, in interagency committees
29 developing government-wide aviation policies, requirements, procedures
30 and reports, at aviation industry meetings and conventions.
- 31 • Develops and implements aviation safety programs, accident investigation
32 procedures, and aviation safety trend analyses.
- 33 • Plans and conducts reviews and evaluations of state aviation programs.
- 34 • Plans and conducts technical and managerial analyses relating to the
35 identification of aviation organization and resources appropriate for agency
36 use, cost-effectiveness of aviation firefighting, other specialized missions,
37 aircraft acquisition requirements, equipment developmental needs, and
38 related areas.

40 **Planning and Resources Division Chief (FA-600)**

- 41 • Responsible for the development and implementation of the Bureau wide
42 fire planning program. Provides guidance and assistance in administering
43 the technical and operational aspects of BLM's fire planning program at the
44 regional and agency levels for the accurate identification of program

- 1 funding needs. Checks for accuracy in computations with instructions and
2 policies.
- 3 ● Responsible for the development and coordination of the BLM's prescribed
4 fire, fuels management, and fire prevention annual programs, and
5 recommends the distribution of program funds to regions.
 - 6 ● Tracks all fuels management fund distributions and prior year carryover
7 funds. Develops and maintains a national database for fuels management
8 accomplishments for Indian Trust Lands.
 - 9 ● Analyzes hazards and risks in the wildland urban interface using fuels
10 modification or reduction techniques, and develops recommendations for
11 Bureauwide application. Examines and analyzes laws and regulations
12 pertaining to prescribed fire use/fuels management in the wildland urban
13 interface, and works with top level Bureau representatives, states, and rural
14 fire districts to recommend policy which will achieve uniformity.
 - 15 ● Serves as the BLM's primary subject matter expert for National Fire
16 Management Analysis System (NFMAS) fire planning, Personal Computer
17 Historical Analysis (PCHA), Geographic Information System (GIS), Global
18 Positioning System (GPS), Lightning Detection System (LDS), Weather
19 Information Management System (WIMS), prescribed fire software
20 programs, and provides user training in those applications.

21

External Affairs Division Chief (FA-700)

- 23 ● Responsible for coordination of information between the Departmental
24 Office of Wildland Fire Coordination to the BLM, BIA, USFWS, NPS,
25 USFS, National Association State Foresters (NASF), and Federal
26 Emergency Management Agency (FEMA) at NIFC.
- 27 ● Responsible for coordination of the responses to: Office of Management
28 and Budget (OMB), Government Accountability Office (GAO),
29 congressional, political and other external inquires between agencies and
30 departments, establishing and maintaining cooperative relationships
31 resulting in quality work products.
- 32 ● Serves as the manager of the External Affairs program for the NIFC.
- 33 ● Develops recommendations pertaining to External Affairs aspects for BLM
34 Fire and Aviation policies.
- 35 ● Initiates External Affairs policies and procedures pertaining to Fire and
36 Aviation for adoption at the department level in conjunction with other
37 departments and agencies.
- 38 ● Serves as personal and direct representative of the Assistant Director, Fire
39 and Aviation at various meetings and functions with members of congress
40 and staff, state governors and legislatures, officials of local, state and
41 federal agencies, major private corporations, public and private interest
42 groups, and foreign governments.
- 43 ● Serves as external affairs expert and consultant to the Assistant Director,
44 Fire and Aviation on a wide variety of issues and policies of controversial

1 nature, providing analysis and advice on public reaction to major policy and
2 program issues.

- 3 • Coordinate with legislative affairs on proposed legislation regarding FA.

5 **National Radio Communications Division (WO-410)**

- 6 • The National Radio Communications Division (NRCD) provides national
7 leadership and policy development for national level cooperative
8 agreements and memorandums of understanding with cooperators and
9 partners to achieve radio interoperability, system sharing, and other areas of
10 mutual interest.
- 11 • Provides support regarding the national radio contracts (GSA, DOI, etc.) to
12 evaluate conventional P-25 radio equipment requirements.
- 13 • Coordinates national level interagency sharing initiatives and develops long
14 term national overarching radio system plans to share radio backbone and
15 mountaintop facilities, frequencies and equipment with federal, state, and
16 local cooperators. Process radio frequency authorizations (RFAs), and
17 performs 5-year radio frequency reviews to ensure compatible operation
18 and optimal use of the limited frequency spectrum resources.
- 19 • Leads/participates in meetings and represent the Bureau's radio interests
20 with established federal, state, and local technical advisory groups. Manage
21 Bureau-wide radio equipment tracking systems, life cycle replacement
22 planning, and equipment replacement budget procedures.
- 23 • Develops national policies and guidance for the BLM related to OSHA and
24 other federal laws and standards. Utilizes the BLM CASHE Audit program
25 to ensure communication site inspections and facility assessments are
26 conducted every five years in coordination with WO-360. Leads the
27 development of national training programs concerned with the
28 standardization, control, operation, testing and repair of communications
29 programs.
- 30 • Responsible for reviews and investigation or reports related to safety issues
31 with radio equipment. Works with the National Safety Manager (WO-740)
32 in establishing radio related safety training. Develops safety handbooks and
33 leads risk assessments analysis associated with the National Radio
34 Communications Program.
- 35 • Responsible for radio telecommunication systems security and ensures
36 strong security encryption needs are established.

38 **State Director**

39 The State Director is responsible for fire management programs and activities
40 within the state. The State Director will meet the required elements outlined in
41 the *Interagency Fire Program Management Qualifications Standards and Guide*
42 at: <http://www.ifpm.nifc.gov/> and ensure training is completed to support
43 delegations to line managers and principal actings.

44
45

1 **District/Field Manager**

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

8

9 **Management Performance Requirements for Fire Operations**

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

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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 management program reviews.	X	X
14. Ensures fire and fire aviation preparedness reviews are conducted annually in all unit offices. Participates in at least one review annually.	X	X
15. Ensures investigations are conducted for incidents with potential, entrapments, and serious accidents as per the standards in Chapter 18.	X	X
16. Provides a written delegation of authority, Wildland Fire Decision Support System (WFDSS) and an Agency Administrator Briefing to Incident Management Teams.		X
17. Ensures resource advisors are identified, trained and available for incident assignment. Refer to <i>Resource Advisors Guide for Wildland Fire PMS 313, NFES 1831, Jan 2004.</i>		X
18. Attends post fire closeout on Type 1 and Type 2 fires. (Attendance may be delegated.)		X
19. Ensures trespass actions are initiated and documented to recover cost of suppression activities, land rehabilitation, and damages to the resource and improvements for all human-caused fires where liability can be determined, as per <i>Fire Trespass Handbook" H-9238-1.</i>	X	X
20. Ensures compliance with National and State Office policy for prescribed fire activities. Provides periodic reviews of the prescribed fire program.	X	X
21. Ensures Prescribed Fire Plans are approved and meet agency policies.	X	X
22. Ensures the Prescribed Fire Plan has been reviewed and recommended by a qualified technical reviewer who was not involved in the plan preparation.		X

PERFORMANCE REQUIRED	State Director/ Associate	District/ Field Manager
23. Ensures a policy has been established to review and sign the go/no go checklist.		X
24. Ensures Unit Safety Program is in place, has a current plan, has an active safety committee that includes the fire program.	X	X
25. Annually updates and reviews the <i>Agency Administrator's Guide to Critical Incident Management</i> www.nwccg.gov	X	X
26. Ensures current fire and weather information is posted (hardcopy, web etc) and available for all employees.		X

1

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

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

10

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

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

19

20 **Manager's Oversight**

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

24

25 **Post Incident Review**

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

30

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

8

9 **Fire Training for Agency Administrators**

10 Agency administrators and their acting must complete one of the following
 11 courses within two years of being appointed to a designated management
 12 position.

- 13 • National - Fire Management Leadership
- 14 • Geographic - Local Fire Management Leadership

15

16 Either class is acceptable but the national course is preferred.

17

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

24

25 **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 safe, effective, fire management activities.	X	X
3. Ensures the Fire Management Plan (FMP) reflects the agency commitment to firefighter and public safety, while utilizing the full range of fire management activities available for ecosystem sustainability.	X	X
4. Ensures only trained and qualified personnel are assigned to fire and fire aviation duties.	X	X
5. Ensures the unit safety program is implemented and provides direction for fire and non fire safety regulations, training and concerns.	X	X

PERFORMANCE REQUIRED	State FMO	District/ Zone/Field Office FMO
6. Ensures completion of a Job Hazard Analysis (JHA)/Risk Assessment for fire and fire aviation activities, and non fire activities so mitigation measures are taken to reduce risk.		X
7. Ensures compliance with work/rest guidelines during all fire and fire aviation activities.	X	X
8. Ensures fire and fire aviation management employees understand their role, responsibilities, authority, and accountability.	X	X
9. Organizes, trains, equips, and directs a qualified work force.	X	X
10. Establishes and implements a post incident assignment performance review process for each employee.	X	X
11. Develops, implements, evaluates, and documents fire and fire aviation training to meet current and anticipated needs.	X	X
12. Ensures fire and fire aviation policies are understood, implemented, and coordinated with other agencies as appropriate.	X	X
13. Monitors fire suppression activities to recognize when complexity levels exceed program capabilities. Increases managerial and operational resources to meet the need.	X	X
14. Monitors fire season severity predictions, fire behavior, and fire activity levels. Ensures fire severity funding is requested in a timely manner, used, and documented in accordance with agency standards.	X	X
15. Ensures master agreements with cooperators are valid and in compliance with agency policy, and that attached Annual Operating Plans are current.	X	X
16. Develops, maintains and implements current operational plans. (e.g., dispatch, preparedness, prevention).		X
17. Develops, maintains, and implements restrictions procedures in coordination with cooperators whenever possible.	X	X

PERFORMANCE REQUIRED	State FMO	District/ Zone/Field Office FMO
18. Ensures that the use of fire funds, complies with department and agency policies.	X	X
19. Reviews and approves appropriate overtime authorization requests for personnel providing fire suppression coverage during holidays, special events, and abnormal fire conditions.		X
20. Ensures a process is established to communicate fire information to public, media, and cooperators.	X	X
21. Annually convenes and participates in pre-and post season fire meetings where management controls and critical safety issues are discussed.	X	X
22. Oversees pre-season preparedness review of fire and fire aviation program.	X	X
23. Initiates, conducts, and/or participates in fire program management reviews and investigations.	X	X
24. Personally participates in periodic site visits to individual incidents and projects.		X
25. Utilizes the Incident Complexity Analysis appendix F & G to ensure the proper level of management is assigned to all incidents.	X	X
26. Ensures transfer of command on incidents occurs as per Chapter 11.		X
27. Ensures incoming personnel and crews are briefed prior to fire and fire aviation assignments.		X
28. Ensures an accurate and defensible Wildland Fire Decision Support System (WFDSS) is completed and updated daily for all fires that escape initial attack.	X	X
29. Ensures a WFDSS is completed, approved, and certified daily for all fires managed for multiple objectives.	X	X
30. Works with cooperators, groups, and individuals to develop and implement processes and procedures for providing fire safe communities within the wildland urban interface.	X	X

PERFORMANCE REQUIRED	State FMO	District/ Zone/Field Office FMO
31. 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 that ignite on BLM jurisdiction where liability can be determined.	X	X
32. Ensures required unit personnel are trained in fire cause determination and fire trespass.	X	X
33. Ensures compliance with National and State Office policy for prescribed fire activities. Provides periodic reviews of the prescribed fire program.	X	X
34. Annually updates and reviews the <i>Agency Administrator's Guide to Critical Incident Management</i> .	X	X
35. Ensures fire season severity predictions, weather forecasts, fire behavior predictors, and fire activity levels are monitored and communicated daily to all employees (hard copy, web page, email, radio, or fax).		X
36. Ensures standards in current National and Local Mobilization Guides are followed.	X	X
37. Complies with established property control/management procedures.	X	X

1

2 **Delegation of Authority**

3

4 **Delegation for State Fire Management Officers (SFMO)**

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

- 9 • Serve as the State Director's authorized representative on geographic area
10 coordination groups, including MAC groups.
- 11 • Coordinate and establish priorities on uncommitted fire suppression
12 resources during periods of shortages.
- 13 • Coordinate logistics and suppression operations statewide.
- 14 • Relocate agency pre-suppression/suppression resources within the
15 state/region based on relative fire potential/activity.
- 16 • Correct unsafe fire suppression activities.

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- 1 • Direct accelerated, aggressive initial attack when appropriate.
- 2 • Enter into agreements to provide for the management, fiscal, and
- 3 operational functions of combined agency operated facilities.
- 4 • Suspend prescribed fire activities when warranted.
- 5 • Give authorization to hire Emergency Firefighters in accordance with the
- 6 DOI Pay Plan for Emergency Workers.
- 7 • Approve emergency fire severity funding expenditures not to exceed the
- 8 agency's annual authority.
- 9 • Appendix C provides a sample "Delegation of Authority".

10

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

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

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

33

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

35

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

- 42 • Monitor unit incident activities for compliance with BLM safety policies.
- 43 • Coordinate and set priorities for unit suppression actions and resource
- 44 allocation.

- 1 • Keep unit agency administrators, suppression resources, and information
 - 2 officers informed of the current and expected situation.
 - 3 • Plan for and implement actions required for future needs.
 - 4 • Document all decisions and actions.
- 5 ODOs will provide operational oversight of these requirements as well as any
- 6 unit specific duties assigned by the local fire managers through the local unit fire
- 7 operating plan. ODOs will not fill any ICS incident command functions
- 8 connected to any incident. In the event that the ODO is required to accept an
- 9 incident assignment, the FMO will ensure that another qualified and authorized
- 10 ODO is in place prior to the departure of the outgoing ODO.

Incident Business

13 Administrative guidance related to payroll operations, hiring authorities,

14 Emergency Support Functions, fire contracting, cost reviews, etc. can be found

15 on the BLM Fire & Aviation web site at:

16 <http://web.blm.gov/internal/fire/budget/index.html>

BLM Fire Management Position Titles and Fire Department Cooperator Equivalencies

21 Bureau of Land Management units that choose to use fire department cooperator

22 nomenclature will utilize the following BLM position title equivalency standard.

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

1 **Safety and 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	Field Manager
1. An annual Unit Safety and Health Action Plan is developed, approved and signed by unit agency administrator. This plan outlines courses of action to improve the unit's safety program and is based upon an assessment of what is needed to make the safety program fully functional.		X	X	X
2. Risk assessments (RAs) are completed for non-suppression related fire activities. JHAs/RAs are completed for suppression related activities and crews are briefed on JHA/RA prior to beginning work.			X	X
3. An individual has been designated as the Unit Safety Officer.	X			X

PERFORMANCE REQUIRED	State Safety Manager	District/ Zone Safety Manager	Unit FMO	Field Manager
4. Maintains a working relationship with all facets of the fire organization including outstations.		X	X	X
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 being provided mandatory safety and health training.		X	X	X
8. Fire safety programs (e.g., SAFENET, Six Minutes for Safety, Safety Alerts) are known and being utilized.			X	
9. Safety publications are available to all fire employees (e.g., <i>Incident Response Pocket Guide, 1112-2 Manual, Fireline Handbook 410-1</i>).			X	

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

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

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

1

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

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

14

15 **Emergency Notification**

16

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

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

25

26

27 **Employee Advocacy**

28

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

1 provides information to assist managers in dealing with the many complexities
2 of these occurrences.

3 http://web.blm.gov/internal/fire/fire_ops/index.html

4

5 **BLM Honor Guard**

6

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

12

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

19

20 For more information, refer to

21 http://www.blm.gov/nifc/st/en/prog/fire/honor_guard.html.

22

23 **Employee Responsibility**

24

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

28

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

32

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

36

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

42

43 **Examples of Harassment and Misconduct**

- 44 • **Physical conduct** - Unwelcome touching, standing too close, looking up
45 and down, inappropriate or threatening staring or glaring, obscene,
46 threatening, or offensive gestures.

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

17 **BLM Mobile Fire Equipment Policy**

19 **Introduction**

20 The following section represents a general overview of the BLM Mobile Fire
21 Equipment Policy. The policy can be found in it's entirety on the BLM National
22 Fire Equipment Program (NFEP) Website at:
23 http://web.blm.gov/internal/fire/fire_ops/EquipDev/index.htm

25 **Policy and Guidance**

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

35
36 It is agency policy to maintain each piece of fire equipment at a high level of
37 performance and in a condition consistent with the work it has been designed to
38 perform. This shall be accomplished through application of a uniform
39 preventive maintenance program, timely repair of components damaged while
40 on assignment, and in accordance with all agency fiscal requirements. Repairs
41 shall be made as they are identified to keep the equipment functional and in peak
42 operating condition.

44 **Fire Equipment Committees**

45 There are three levels of fire equipment committees: National, State, and
46 Interagency. Fire equipment committees address the broad spectrum of

1 equipment subjects and make recommendations. State committees will report to
2 the respective State Fire Management Officer. The National Fire Equipment
3 Committee (NFEC) and the BLM Engine Committee report to the Fire
4 Operations Group (FOG). Equipment committees should invite other agency
5 equipment leads to share ideas, transfer technology, and coordinate efforts.

6

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

8 The BLM National Fire Equipment Program (NFEP) located at NIFC. This unit
9 is responsible for the development, ordering, inspection, receiving and
10 distribution of new fire equipment that will meet or exceed the minimum
11 performance standards established by the BLM National Fire Equipment
12 Committee and the BLM Engine Committee. The NFEP website is located at:
13 http://web.blm.gov/internal/fire/fire_ops/EquipDev/index.htm

14

15 **Equipment Development**

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

21

22 **Standardization**

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

30

31 **Fire Engine Identifier Standards**

32 Bureau of Land Management fire engine identifier standards have been
33 established by the national Fire Operations Group and can be found at:
34 http://web.blm.gov/internal/fire/fire_ops/EquipDev/comm_engine.html

35

36 **Deficiency Reporting**

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

42

43 Field Offices submit reports for problems encountered with BLM fire
44 equipment. Reports may also be submitted for suggestions for improvement.
45 Submitted reports receive immediate attention and the submitter receives
46 verification of receipt. The NFEP will follow-up with the submitting Field

1 Office to correct the deficiency or work to incorporate the improvement
2 suggestion. The Improvement/Deficiency Reporting System can be found on
3 the BLM National Fire Equipment Program Website at:
4 http://web.blm.gov/internal/fire/fire_ops/EquipDev/def_imp.html

6 **Acquisition of Working Capital Fund Equipment**

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

20 **Funding**

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

30 **BLM Mobile Fire Equipment Ordering**

31 Ordering of BLM mobile fire equipment is completed through the NFEP at
32 NIFC. Available equipment is listed in the BLM Fire Equipment Ordering
33 System (FEOS) web page. Contact the National Fire Equipment Program for
34 additional information.

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

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

1 Equipment Modification/Retrofitting

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

7

8 Property Transfer/Replacement

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

18

19 Conversions

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

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

27

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

- 30 • Increased production rates which may offset additional costs
- 31 • The requesting states availability of sufficient funds to cover additional
32 costs.

33

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

37

38 Lights and Siren Response

39

40 Responding to Bureau of Land Management (BLM) wildland fire incidents
41 normally does not warrant the use of emergency lights and siren to safely and
42 effectively perform the BLM mission. However, there may be rare or
43 extenuating circumstances when limited use of lights and sirens are appropriate
44 and necessary due to an immediate threat to life.

45 Those BLM state organizations that determine a lights and sirens response is
46 necessary to meet mission requirements must develop an operating plan that is

- 1 signed and approved by the State Director and forwarded to the Chief, Division
2 of Fire Operations, BLM Fire and Aviation. The operating plan must ensure the
3 following:
- 4 1. All vehicles (command, engines, etc.) will be properly marked, equipped and
5 operated in accordance with state statutes, codes, permits and BLM unit
6 requirements.
 - 7 2. Drivers will complete training in the proper use of lights and sirens response
8 in accordance with National Fire Protection Association (NFPA) 1451 and 1002
9 standards, as well as any state requirements.
 - 10 3. Drivers responding with lights and sirens will be minimally qualified as
11 engine operator.
 - 12 4. Lights and sirens will meet NFPA and state code requirements.
 - 13 5. Posted speed limits will be followed at all times, regardless of response type.
 - 14 6. Operators will stop or reduce speed as circumstances dictate prior to
15 proceeding through all intersections.
 - 16 7. Traffic light changing mechanisms (e.g., Opticons) will only be used under
17 formal written agreement with state and local governments. They will be used
18 only when they are necessary to create safe right-of-way through urban high-
19 traffic areas. All pertinent state and local statutes and procedures will be adhered
20 to.
 - 21 8. Authorization to respond with lights and sirens does not cross state lines. No
22 driver will be authorized by one state to operate with lights and sirens in another
23 state.
- 24
25 See Instruction Memorandum No. FA IM-2009-022 for further information.

27 **BLM Firefighters**

29 **Introduction**

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

37 These units include:

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

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

5 **BLM Firefighter Priority for Use**

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

13 **BLM Prepositioning Details**

14 When BLM units require additional management or suppression resources to
15 support their local fire programs they are encouraged to request prepositioning
16 of appropriate resources. These prepositioning details are for all BLM personnel
17 and suppression resources. Reasons to consider management or operational
18 support may include:

- 19 • To improve BLM initial attack capability in areas during peak fire danger.
20 • To provide BLM employees training opportunities with different BLM
21 management offices.
22 • To provide oversight for efficient utilization of BLM resources to support
23 BLM fire management priorities.
24 • To provide management support to maintain adequate span of control for
25 both management and suppression activities.
26

27 BLM prepositioning details will be implemented using the following process:

- 28 • Unit fire management identifies the need for support and notifies their state
29 fire managers.
30 • The requesting State FOG representative, in conjunction with their local fire
31 management, will determine the need, location, and timeframes for
32 management and suppression resources assistance, based on current and
33 expected state fire activity.
34 • The requesting State FOG representative will contact fellow Fire Operations
35 Group (FOG) members to find qualified resources available to fill their
36 needs.
37 • When resources are identified:
38 ➤ The requesting State FOG representative will electronically sign and
39 email a *BLM Detail Request Form* to the identified resources home
40 state (sending) S-AFMO and/or S-FOS.
41 ➤ On the date specified in the *BLM Detail Request Form*, the requesting
42 State FOG representative places a name request order for the specified
43 asset(s) through normal coordination system channels.
44 ➤ IHC details require approval from the FA Division of Fire Operations.
45

1 BLM resources filling these details will be assigned to a home unit within the
 2 requesting state by the requesting state FOG representative. With agreement of
 3 the resource, sending state FOG representative, and requesting State FOG
 4 representative these resources can manage fatigue and meet tour of duty
 5 requirements by taking mandatory days off in the requesting state.

6

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

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

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

1 **BLM Firefighter Mandatory Physical Fitness Standards**

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

9
10 Information on the WCT and the DOI-MSP is located in Chapter 13 of this
11 publication. Fitness and conditioning information may be found at
12 www.nifc.gov/FireFit/index.htm

13
14 **BLM Firefighter Target Physical Fitness Standards**

15 These are voluntary targets. They are not mandatory. These targets are
16 established to provide BLM firefighters a common standard against which to
17 gauge their physical fitness level. BLM firefighters are encouraged to meet or
18 exceed these standards.

19

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

20
21 The guide below may be used to adjust the 1.5 mile run times to compensate for
22 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

23
24 **BLM National Fire Operations Fitness Challenge**

25 The BLM national fire operations fitness challenge encourages and recognizes
26 achievement in physical fitness by BLM firefighters. The fitness challenge
27 provides a common system by which BLM firefighters can measure current
28 fitness, establish fitness goals, and track fitness improvement. The fitness
29 challenge is voluntary, but BLM firefighters are encouraged to participate. The
30 fitness challenge tests participants in four basic exercises - push-ups, pull-ups,
31 sit-ups and a timed run of either 1.5 or 3.0 miles. Test results are compiled into
32 a final overall score. Unit and state offices are encouraged to support and
33 recognize achievement in firefighter fitness. The BLM FA Division of Fire

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1 Operations will recognize high achievers annually. Specific information on the
2 fitness challenge is located at:
3 www.blm.gov/nifc/st/en/prog/fire/fireops/fitness_challenge.html

5 **Interagency Fire Program Management Standards**

6 The BLM follows the Interagency Fire Program Management Qualifications
7 Standards and Guide (IFPM Standard), January 2000. The IFPM Standard does
8 the following:

- 9 • Establishes minimum qualifications standards for 13 key fire management
10 positions. These standards include 1) basic requirements, 2) specialized
11 experience requirements, 3) NWCG incident management qualifications, 4)
12 additional required training.
- 13 • Provides a “complexity rating for program management” table, which is
14 used to determine overall complexity of the unit level fire program. This is
15 used because qualification standards for some of the 13 identified positions
16 are tied to fire program complexity.

17
18 State and unit level fire managers should consult human resources officials and
19 apply the IFPM Standard as appropriate. IFPM information is located at
20 <http://www.ifpm.nifc.gov/default.htm>

22 **BLM Hand Crews**

24 **BLM Hand Crew Standards (all crew types)**

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

1 **BLM Hand Crew Standards by Type**

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

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

6
7 **BLM Interagency Hotshot Crews**

8 BLM IHCs carry 18-25 firefighters and are used primarily for wildfire
9 suppression, fuels reduction, and other fire management duties. They are
10 capable of performing self-contained initial attack suppression operations, and
11 commonly provide incident management capability at the Type 3 or 4 levels.

- 1 BLM IHCs, meet all IHC standards stated in the *Standards for Interagency*
 2 *Hotshot Crew Operations*.

3

4 **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

5

6 **BLM IHC Annual Crew Mobilization**

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

- 11 • The superintendent will complete an appendix C from the *Standards for*
 12 *Interagency Hotshot Crew Operations* with their local FMO and agency
 13 administrator.
 - 14 • A copy of Appendix C will be sent to the BLM State Fire Management
 15 Officer for approval.
 - 16 ➤ The extent of the preparedness review required every 12 months by the
 17 Appendix C will be at the discretion of the State Fire Management
 18 Officer, local Fire Management Officer, and crew superintendent.
- 19 The State Fire Management Officer will notify the appropriate Geographic Area
 20 Coordination Center (GACC) of crew availability.

21

22 **BLM IHC Crew Status**

23 If a change in crew capabilities results in the standards specified in the *National*
 24 *Interagency Hotshot Crew Operations Guide* or *Standards for Fire and Fire*
 25 *Aviation Operations* not being met, the superintendent is required to contact
 26 their local GACG and have the crew typing amended to the appropriate level as
 27 listed in the BLM crew typing chart.

28

1 Re-statusing the crew back to the IHC level will use either the Annual Crew Pre-
 2 Mobilization Process outlined in the *Standards for Interagency Hotshot Crew*
 3 *Operations* or the Crew Certification Process outlined in the *Standards for*
 4 *Interagency Hotshot Crew Operations*. The choice of which process will be at
 5 the discretion of the State Fire Management Officer, local Fire Management
 6 Officer, and Crew Superintendent.

8 **BLM IHC Crew Size**

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

14 **BLM IHC Status Reporting System**

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

27 **BLM IHC Training and Qualification Requirements**

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

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

1

2 **BLM Engines**

3

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

9

10 **BLM Engine Ordering**

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

19

20 **BLM Engine Typing**

21 BLM engines are typed according to the following interagency standards stated
22 in the *NWCG Fireline Handbook (PMS 410-1)*:

23

24

25

26

Components	Structure Engines		Wildland Engines				
	1	2	3	4	5	6	7
Pump Rating							
Min. Flow (GPM)	1000+	250+	150	50	50	30	10
At rated pressure (PSI)	150	150	250	100	100	100	100
Tank Capacity Range (Gallons)	400+	400+	500+	750+	400-750	150-400	50-200
Hose, 2.5" (feet)	1200	1000	--	--	--	--	--
Hose, 1.5" (feet)	400	500	500	300	300	300	--
Hose, 1" (feet)	--	--	500	300	300	300	200
Ladders	48'	48'	--	--	--	--	--
Master Stream (GPM)	500	--	--	--	--	--	--
Personnel (NWCG Minimum)	4	3	3	2	2	2	2

1

2 **BLM Engine Minimum Staffing Requirements**

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

- 4 • BLM engines operating with more than 4 firefighters will always have a fully qualified ENOP (other than the captain).
- 5
- 6 • BLM engines operating with more than 3 firefighters will always have an FFT1 (other than the captain).
- 7

8 Chase vehicles are considered part of the engine staffing.

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

1 **BLM Engine - Fire Training and Qualification Standards**

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

2

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

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

⁴ ¹ S-216 Driving for the Fire Service or the BLM Engine Operator Course will satisfy this refresher training requirement.

⁶ ² WCF class 650 and 668 driver and maintenance training will be conducted by the FAD Division of Fire Operations National Fire Equipment Program annually. Travel, per-diem, vehicle operating charges, and fuel costs directly

1 related to this training will be covered by the NFEP; base 8 salary and overtime
2 costs will be covered by the students' home unit. BLM engine training courses
3 can be found at:
4 http://www.blm.gov/nifc/st/en/prog/fire/training/fire_training/projects/engine_training.html
5

6
7 All hands-on components of engine driver training courses will be conducted on
8 the specific vehicle or vehicle type that the driver will be using.

9
10 Equivalent courses that satisfy driver training requirements, such as the National
11 Safety Council sanctioned Emergency Vehicle Operator Course (EVOC), will
12 be approved in writing by FAD Fire Operations on a case-by-case basis.

13 **BLM Engine Equipment Inventory**

14 BLM engines will be stocked as per the BLM National Engine Equipment
15 Inventory found at: <http://web.blm.gov/internal/fire/EquipDev/index.htm>
16

17 **Fire Engine Maintenance Procedure and Record (FEMPR)**

18 The FEMPR will be used to document periodic maintenance on all engines.
19 Apparatus safety and operational inspections will be performed at the intervals
20 recommended by the manufacturer and on a daily and post-fire basis as required.
21 All annual inspections will include a pump gpm test to ensure the pump/
22 plumbing system is operating at desired specifications. The Fire Engine
23 Maintenance Procedure and Record (FEMPR) shall be maintained and archived
24 to record historic engine maintenance for the duration of the vehicle's service
25 life. This historic data is beneficial in determining trends, repair frequency, and
26 repair costs. The FEMPR can be found at:
27 http://web.blm.gov/internal/fire/fire_ops/EquipDev/toolbox.html
28

29 **BLM Smokejumpers**

30
31
32 BLM Smokejumpers operate in teams of 2-8 firefighters and are used primarily
33 for wildfire suppression, fuels reduction, and other fire management duties.
34 They are capable of performing self-contained initial attack suppression
35 operations, and commonly provide incident management capability at the Type
36 3 level. BLM Smokejumpers provide personnel to Type 1 and Type 2 incidents
37 as command and general staff or other miscellaneous single resource. The
38 primary locations of the BLM smokejumper bases are Boise, Idaho and
39 Fairbanks, Alaska.

40 **BLM SMKJ Operations**

41 BLM smokejumper operational and administrative procedures are located in the
42 *Interagency Smokejumper Operations Guide (ISOG)*, the *BLM Ram-Air*
43 *Training Manual (RATM)*, the *Boise Smokejumpers User Guide*, *Alaska*
44 *Geographic Area Coordination Center Mob Guide*, and other pertinent
45 agreements and operating plans.
46

1 BLM SMKJ Coordination & Dispatch

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

10 Malfunctions and Abnormality Reporting System (MARS)

11 The Malfunction/Abnormality Reporting System (MARS) is a BLM system
12 used to report and document malfunctions and abnormalities associated with
13 BLM smokejumper parachute jumping, parachute equipment, and parachute
14 related aircraft operations. The MARS database is used by BLM smokejumper
15 management to analyze malfunctions and abnormalities, identify trends, and
16 initiate corrective actions.

18 Interagency Smokejumper Mission Incident Reporting

19 All smokejumper mission incidents are reported on the Interagency
20 Smokejumper Mission Incident Work Sheet, an interagency form used to rapidly
21 disseminate smokejumper incident information to all smokejumper bases.
22 Corrective actions, when interagency in nature, are coordinated through
23 established interagency smokejumper management processes.

25 Investigations

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

30 BLM SMKJ Equipment

31 BLM smokejumpers use aircraft approved by the interagency Smokejumper
32 Aircraft Screening and Evaluation Board (SASEB). All aviation operations will
33 be performed according to established agency policies and procedures. BLM
34 smokejumpers use the Smokejumper Ram-Air Parachute System exclusively.
35 All abnormalities in personnel parachute equipment and procedures will be
36 reported through the Malfunction and Abnormality Reporting System (MARS).
37 All parachuting operations will be performed according to established agency
38 policies and procedures. All modifications to and deviations from established
39 standards will be reported, documented, and approved through the BLM SMKJ
40 Modification Documentation (MODOC) process.

42 BLM SMKJ Training

43 To ensure proficiency and safety, smokejumpers complete annual training in
44 aviation, parachuting, fire suppression, administration, and safety. Experienced
45 jumpers receive annual refresher training in these areas. First year

- 1 smokejumpers undergo a rigorous four week long smokejumper training
- 2 program. Candidates are evaluated to determine:
- 3 • Level of physical fitness
- 4 • Ability to learn and perform smokejumper skills
- 5 • Ability to work as a team member
- 6 • Attitude
- 7 • Ability to think clearly and remain productive in a stressful environment

8

9 **BLM Smokejumper Training and Qualification Standards**

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

10

11 **BLM Smokejumper Physical Fitness Standards**

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

15

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

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

20 *This element is tested during Smokejumper Rookie Training.

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 Retesting criteria include:

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

15
16 **BLM Exclusive Use Helitack Crews**

17
18 The BLM contracts for the exclusive use of vendor supplied and supported
19 helicopters. These aviation resources are Type 2 (Medium) or Type 3 (light)
20 helicopters and are located at BLM Districts throughout the western United
21 States. Helitack Crews are assigned to manage each contracted helicopter and
22 perform suppression and support operations to accomplish fire and resource
23 management objectives.

24
25 Each contract specifies a Mandatory Availability Period (MAP) that the aircraft
26 will be assigned for the exclusive use of the BLM. The National Aviation
27 Office provides the funding to pay for the aircraft's availability costs.

28
29 The BLM host unit is responsible for providing a Helitack crew that meets the
30 Exclusive Use Fire Helicopter Position Prerequisites in Chapter 16 of this
31 document. Each functional or supervisory level must have met the experience
32 requirements of the next lowest functional level. The minimum daily staffing
33 level (7 day staffing) must meet the level indicated in the *Interagency Helicopter*
34 *Operations Guide (IHOG)* Chapter 2, Chart 2-4. The host unit is also responsible
35 for providing administrative support, and *Interagency Helicopter Operations*
36 *Guide (IHOG)* specified equipment, vehicles and facilities for their Helitack
37 Crews and any other associated specialized equipment.

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

Role	Min IQCS Qualifications	Target IQCS Qualifications	Target Training	Currency Requirements
Fire Helicopter Crew Supervisor	ICT4, HEB2, HMGB	ICT3 or DIVS HEB1, PLDO HLCO, ASGS	S-300 or S-339 S-378, L-381 S-375	RT-372 RT-130
Assistant Fire Helicopter Crew Supervisor	ICT4, HMGB, HEB2(T)	TFLD, HEB2 PLDO	S-215, S-330 S-390, S-371 L-380	RT-372 RT-130
Fire Helicopter Squad Boss	FFT1, ICT5, HECM	ICT4, HMGB	S-200, S-230 S-290, M-410 S-230	RT-130
Helicopter Senior Crew Member	FFT1, HECM	ICT5, HMGB(T)	S-372, L-280	RT-130
Helicopter Crew Member	One season as a FFT2, HECM(T)	FFT1, HECM	S-131, S-133	RT-130

3
 4 **Operational Guidelines for Aquatic Invasive Species**

5
 6 In order to prevent the spread of aquatic invasive species, it is important that fire
 7 personnel not only recognize the threat aquatic invasive species pose to
 8 ecological integrity, but how our fire operations and resulting actions can
 9 influence their spread. Each local land management unit may have specific
 10 guidelines related to aquatic invasive species. Therefore, it is recommended that
 11 you consult established local jurisdictional guidelines for minimizing the spread
 12 of aquatic invasive species and for equipment cleaning guidance specific to
 13 those prevalent areas and associated species. To minimize the potential
 14 transmission of aquatic invasive species, it is recommended that you:

- 15 • Consult with local biologists, resource advisors (READ) and fire personnel
 16 for known aquatic invasive species locations in the area and avoid them
 17 when possible.
- 18 • Avoid entering (driving through) water bodies or saturated areas whenever
 19 possible.
- 20 • Avoid transferring water between drainages or between unconnected waters
 21 within the same drainage when possible.
- 22 • Use the smallest screen possible that does not negatively impact operations
 23 and avoid sucking organic and bottom substrate material into water intakes
 24 when drafting from a natural water body.
- 25 • Avoid obtaining water from multiple sources during a single operational
 26 period when possible.
- 27 • Remove all visible plant parts, soil and other materials from external
 28 surfaces of gear and equipment after an operational period. If possible,

- 1 power-wash all accessible surfaces with clean, hot water (ideally > 140° F)
- 2 in an area designated by a local READ.
- 3
- 4 For additional information and guidelines please refer to the links provided in
- 5 the document titled *BLM Fire Program Aquatic Invasive Species Guidance*
- 6 found at: <http://web.blm.gov/internal/fire/FEM/docs.html>

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Chapter 03

National Park Service Program Organization & Responsibilities

Agency Administrator Roles

Director

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

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

Regional Director

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

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

Park Superintendent

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

Agency Administrator Management Performance Requirements for Fire Operations

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
1. Take necessary and prudent actions to ensure firefighter and public safety.	X	X	X
2. Ensure sufficient qualified fire and non-fire personnel are available to support fire operations at a level commensurate with the local and national fire situations.	X	X	X

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
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) to individual(s) responsible for wildland fire management activities to ensure an adequate level of operational authority, including Multiagency Command (MAC) Group authority, as appropriate. Depending on park organizational structure, written delegations may be provided to the Chief Ranger, Natural Resource Specialist, FMO, designated Fire Coordinator, Park Group FMO, or to individuals from neighboring fire management organizations, provided a written agreement or memorandum of understanding is in-place. Where applicable, an Inter-park Agreement that specifies the reciprocal responsibilities of the Superintendent and Park Group FMO will be prepared. This Inter-park Agreement will be accompanied by an annual delegation of authority. Both the DOA and Inter-Park Agreement will remain valid until rescinded by either party, updates are needed, or personnel changes necessitate a revision and update.	X	X	X
5. Ensure applicable park resource management objectives are included in Fire Management Plan (FMP). Ensure FMP is annually reviewed and valid. Copies of the park's signed annual FMP Review and Update template (RM-18, Chapter 4, Exhibit 2) or packet, will be sent to the Regional FMO and to the FMPC in Boise.			X

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
6. Review and approve wildland fire preparedness funding based on and accurate and defensible readiness analysis. Review and approve fuels management funding requests.	X	X	X
7. Develop fire management standards and constraints that are in compliance with agency fire policies.		X	X
8. Ensure use of fire funds is in compliance with Department and Agency policies.	X	X	X
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.	X	X	X
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

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
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, including technical review and Go/No Go checklists 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
17. Provide incident management objectives, written delegations of authority and Agency Administrator briefings to Incident Management Teams.			X
18. Monitor wildfire potential and provide oversight during periods of critical fire activity/situations.	X	X	X

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
19. Evaluate the need for resource advisors for all fires and assign as appropriate.			X
20. Convene and participate in annual pre- and post-season fire meetings.	X	X	X
21. Attend <i>Fire Management Leadership Course</i> .		X	X
22. Ensure appropriate investigations are conducted for incidents, entrapments and serious accidents.	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 that the appropriate level response plan is completed and approved for all fires according to determined cost and complexity.	X	X	X
25. Ensure there is adequate direction in fire management plans to identify fire danger awareness with escalating fire potential.			X
26. Ensure compliance with National and Regional Office policy and 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

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
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 represents
17 the Regional Director on interagency geographic coordination groups and Multi-
18 Agency Coordination (MAC) Groups. The RFMO provides feedback to units
19 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
24 level. The FMO determines program requirements to implement land use
25 decisions through the Fire Management Plan (FMP) to meet land management
26 objectives. The FMO negotiates interagency agreements and represents the
27 Agency Administrator on local interagency fire and fire aviation groups.

28

29 The Superintendent annually shall provide and update the expectations of the
30 FMO duties by means of two instruments. One is a limited Delegation of
31 Authority (DOA) that encompasses the scope of duties outlined above. The
32 other is an Inter-park Agreement for those cases where a Park Group FMO
33 handles defined duties on behalf of another NPS unit within the defined Park
34 Group.

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2
3**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
8. Ensure that the fire and fire aviation management staff understand their role, responsibilities, authority and accountability.	X	X	X

PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
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 managerial and operational resources to meet the need.	X	X	X
12. Initiate, conduct and participate in fire management related reviews and investigations, including converted and 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
17. Ensure an appropriate level response plan is completed and approved for all fires according to policy.		X	X

PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
18. Monitor fire season severity predictions, fire behavior and fire activity levels. Take appropriate 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 burn plan exists for each prescribed fire project.			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.		X	X
26. Ensure budget requests and allocations reflect analyzed anticipated workload.	X	X	X
27. Develop and maintain current operational plans, e.g., dispatch, pre-attack, prevention.	X	X	X
28. Ensure that reports and records are properly completed and maintained.	X	X	X
29. Ensure fiscal responsibility and accountability in planning and expenditures.	X	X	X

PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
30. 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
31. Effectively communicate the “natural role” of wildland fire to internal and external agency audiences.	X	X	X
32. Complete trespass actions when unplanned human-caused ignitions occur.		X	X
33. 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

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.

8

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

12

13 The National Incident Management System (NIMS) training requirements for
14 employees that participate in emergency response operations or support are
15 outlined in the DOI Emergency Management Policy Guidance Bulletin 2007-1.
16 This includes, but is not limited to, responses under the National Response
17 Framework (NRF). All employees engaged in emergency related work,
18 including temporary or administratively determined emergency hires, must
19 complete this training.

20

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

23

1 All wildland fires will be managed by an individual qualified and certified at the
 2 command level appropriate to the complexity level of the incident.
 3
 4 The qualification standards identified in the *Interagency Fire Program*
 5 *Management Qualifications Standards* will be required, in conjunction with
 6 specific agency requirements, when filling vacant fire program positions and as
 7 an aid in developing Individual Development Plans (IDPs) for employees.

8
 9 **Training**

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 11 **Training for Park Superintendents**

12 The following training is required for park superintendents.

- 13 • Fire Management Leadership

14
 15 The national course is the preferred alternative to the regionally-sponsored
 16 course. The training should be completed within two years of appointment to a
 17 designated management position.

18
 19 **Training for Fire Management Officers**

20 The following training is required for fire management officers.

- 21 • Refer to the Interagency Fire Program Management (IFPM) Standards and
 22 Qualifications required coursework per fire program complexity level.
- 23 • M-3 Aviation Management for Supervisors (every 3 years).

24
 25 **NPS Firefighters General Training Requirements**

	One-Time Training	Recurring Training	Annual Training
All Firefighters	Hazardous Materials-First Responder Awareness Level Aviation B3:Helicopter/Airplane Safety-classroom	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) HazMat Refresher (on-line) Blood borne Pathogen (on-line)

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 29

1 Structural Fire and Hazardous Materials Response

2

**3 Structural Fire Response Requirements (Including Vehicle, Trash and
4 Dumpster Fires)**

5 Structural fire suppression is a functional responsibility in many NPS units. Any
6 structural fire response shall only be by personnel who have received the
7 required training and are properly equipped.

8

9 Vehicle, trash and dumpster fires contain a high level of toxic emissions and
10 must be treated with the same caution that structural fires are treated.

11 Firefighters must be outfitted with NFPA compliant structural fire personnel
12 protective clothing, including self-contained breathing apparatus. Situations
13 exist during the incipient phase of a vehicle fire where the fire can be quickly
14 suppressed with the discharge of a handheld fire extinguisher. Discharging a
15 handheld fire extinguisher during this phase of the fire will normally be
16 considered an appropriate action. If the fire has gone beyond the incipient stage,
17 employees are to protect the scene and request the appropriate suppression
18 resources.

19

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

26

**27 Training Requirements for Firefighters Responding to Structural Fires
28 (Including Vehicle Fires)**

29 All wildland firefighters who respond to structural fires will meet the training
30 requirements identified in Director's Order and Reference Manual #58,
31 Structural Fire.

32

**33 Medical Examination Requirements for Firefighters Responding to
34 Structural Fires (Including Vehicle Fires)**

35 All wildland firefighters who respond to structural fires will meet the medical
36 requirements identified in Director's Order and Reference Manual #58,
37 Structural Fire.

38

**39 Physical Fitness for Wildland Firefighters Responding to Structural Fires
40 (Including Vehicle Fires)**

41 The physical fitness requirements are the same as for wildland fire arduous duty.

42

43 Hazardous Materials Response

44 Hazardous material response or control is not a functional responsibility of
45 wildland fire suppression resources. These incidents have tremendous potential

1 to cause significant health and life safety issues. In order to protect the health
2 and safety of NPS personnel, no employee shall be directed, or dispatched
3 (including self dispatching) to an incident involving hazardous materials unless
4 they are provided with the required personnel protective equipment and the
5 appropriate certification level. NPS personnel on incidents involving hazardous
6 material will limit their actions to those emergency services necessary for the
7 immediate protection of themselves and the public and the prompt notification
8 of appropriate public safety agencies. All wildland firefighters who are likely to
9 witness or discover hazardous substances are required to complete the agency's
10 First Responder Awareness (Level I) program, requiring 4-8 hours of initial
11 training and an additional 4 hours of refresher training annually.

12 **Delegation of Authority**

13 **Delegation for Regional Fire Management Officers**

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

- 17 • Serves as the Regional Director's authorized representative on Geographic
18 Area 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 region-wide.
- 22 • Relocate agency pre-suppression/suppression resources within the region
23 based on relative fire potential/activity.
- 24 • Correct unsafe fire suppression activities.
- 25 • Direct accelerated, aggressive initial attack when appropriate.
- 26 • Enter into agreements to provide for the management, fiscal and operational
27 functions of combined agency operated facilities.
- 28 • Suspend prescribed fire activities when warranted.
- 29 • Give authorization to hire Emergency Firefighters in accordance with the
30 DOI Pay Plan for Emergency Workers.
- 31 • Approve emergency fire severity funding expenditures not to exceed the
32 Regional annual authority.

33 **NPS Duty Officer (DO)**

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

- 38 • Monitor unit incident activities for compliance with NPS safety policies.
- 39 • Coordinate and set priorities for unit suppression actions and resource
40 allocation.
- 41 • Keep agency administrators, suppression resources and Information
42 Officers informed of the current and expected situation.

- 1 • Plan for and implement actions required for future needs.
- 2 • Document all decisions and actions.
- 3
- 4 DOs will provide operational oversight of these requirements as well as any
- 5 specific duties assigned by fire managers through the fire operating plan. DOs
- 6 will not fill any ICS incident command functions connected to any incident. In
- 7 the event that the DO is required to accept an incident assignment, the FMO will
- 8 ensure that another authorized DO is in place prior to the departure of the
- 9 outgoing DO.

10

11 **Capital Equipment Committee**

12

13 The NPS Capital Equipment Committee meets twice yearly to identify
14 equipment problems, needs, priorities and NPS standards for all wildland fire
15 vehicles (WCF and non-WCF). This committee is comprised of engine foremen
16 (captains), fire management officers and representation from the wildland fire
17 modules. The permanent chairperson is the Fire Equipment and Facilities
18 Specialist at the Fire Management Program Center.

19

20 **Vehicle Color and Marking**

21 Vehicles dedicated to wildland fire activities shall be white in color and have a
22 single four-inch wide red reflective stripe placed according to NFPA 1906
23 (NFPA 1906 7-6.2 1995 8.8.3, 2006 edition). The word "FIRE" red with white
24 background color will be centered on the front fenders. "FIRE" will be placed
25 on the front and rear of the vehicle. The NPS Arrowhead will be placed on the
26 front doors. The size and placement of the arrowhead will be as specified in
27 RM-9. An identifier will be placed on the vehicle according to local zone or
28 GACC directions. Roof numbers will be placed according to local zone
29 procedures.

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1 **Engine Staffing Standards**

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

4

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

5 † When staturesd available for off-park assignments

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

8 ** ENOP must also be qualified as ICT5

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

10

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

13

14 NPS ENOP Prerequisites: FFT1, L-280, RT130, FITCAT, ENOP PTB

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

16

17 **Lights and Siren Response**

18

19 Responding to National Park Service (NPS) wildland fire incidents normally
 20 does not warrant the use of emergency lights and siren to safely and effectively
 21 perform the NPS mission. However, there may be rare or extenuating
 22 circumstances when limited use of lights and siren is appropriate and necessary
 23 due to an immediate threat to life.

24

25 Those units that determine a lights-and-siren response is necessary to meet
 26 mission requirements must develop an operating plan that ensures the following:

27

- 28 1. All vehicles (command, engines, etc.) will be properly marked, equipped and
 29 operated in accordance with state statutes, codes, permits and NPS requirements.

- 1 2. Drivers will complete training in the proper use of lights and siren response in
- 2 accordance with National Fire Protection Association (NFPA) 1451 and 1002
- 3 standards, as well as any state requirements.
- 4 3. Drivers responding with lights and sirens will be minimally qualified as
- 5 engine operator.
- 6 4. Lights and sirens will meet NFPA and state code requirements.
- 7 5. Posted speed limits will be followed at all times, regardless of response type.
- 8 6. Operators will stop or reduce speed as circumstances dictate prior to
- 9 proceeding through all intersections.
- 10 7. Traffic light changing mechanisms (e.g., Opticons) will only be used under
- 11 formal written agreement with state and local governments. They will be used
- 12 only when they are necessary to create safe right-of-way through urban high-
- 13 traffic areas. All pertinent state and local statutes and procedures will be adhered
- 14 to.
- 15 8. Authorization to respond with lights and sirens does not cross state lines. No
- 16 driver will be authorized by one state to operate with lights and sirens in another
- 17 state.

18 **Working Capital Fund**

19 Most wildland fire vehicles are funded and managed under the Working Capital
20 Fund (WCF) Fire Equipment Program through the Fire Management Program
21 Center. The working capital funding for the program is administered through an
22 interagency agreement with the BLM. The NPS's WCF fire equipment program
23 acquires specialized equipment including: engines, crew carriers, support
24 vehicles and water tenders to meet the NPS's fire program requirements.
25 Specialized fire equipment design and specifications are developed through the
26 analysis of identified needs and survey of new technologies. Acquisition of units
27 is done through contracting with vendors identified on GSA contracts.

28 **Fire Equipment Development**

29
30 The Fire Equipment and Facilities Specialist, located at NIFC, is responsible for
31 ordering, receiving, inspection and distribution of new fire equipment.

32 **Upgrades and Accessories**

33
34 For equipment funded through the WCF, options added by parks that are not
35 part of the current agency standard (e.g. supplemental lighting, winches, special
36 paint, radios, etc.) are considered add-on items and are not funded with WCF
37 funds. The cost of the modifications and optional equipment is the
38 responsibility of the regional or local office. It is the responsibility of the Fire
39 Equipment and Facilities Specialist to ensure that add-on equipment is safely
40 and professionally installed and that it does not compromise the designated
41 function, safety, or weight limits of the equipment/vehicle. Park units are not
42 permitted to add options to WCF vehicles without prior authorization from the
43 Fire Equipment and Facilities Specialist.

44
45

1 Travel on FMPC Funds

2 Travel using FMPC funding is allowed for Fire Management Program Center
3 and Accounting Operation Center staff attending pre-work conferences, serving
4 as contracting officers or project inspectors on fire equipment related contracts.
5 The FMPC will not provide travel funding for park personnel to transport new
6 specialized fire vehicles back to their respective parks. Ideally the retrieval of
7 new vehicles should be done by park fire individuals so they can obtain a
8 thorough briefing of the operational features of the vehicle by the manufacturer.

10 Vehicle Repairs and Maintenance

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

23 Fixed Ownership Rates (FORs)

24 FORs are fees that are paid into the WCF annually for each vehicle in the
25 program. These fees continue to accumulate over the life of a vehicle and are
26 used to replace each vehicle at the end of its life cycle. The FOR is adjusted
27 annually by the WCF manager to reflect changes in replacement costs due to
28 inflation and/or changes in standards.

30 Property Transfer/Replacement

31 Surplus vehicles originally purchased through the WCF will be excessed
32 through a defined process with funds generated from the sale returned to the
33 BLM Working Capital Fund Program. To initiate disposal of surplus vehicles, a
34 SF-126 form will be submitted to the NPS Fire Equipment and Facilities
35 Specialist (FEFS) upon receipt of new vehicle. After review, the FEFS will ask
36 the Capital Equipment Committee to determine if there is priority placement
37 needed for the surplus unit within the NPS and the Park unit's cooperators. If
38 so, a fair market value will be established and the receiving park unit or
39 cooperator will reimburse the WCF for that amount. If there is no identified
40 need or interest within the NPS or cooperator community, the SF-126 form will
41 be transferred to BLM. The BLM will manage the disposal of all surplus
42 WCF equipment. Sale proceeds from excessed fire vehicles are returned back
43 into the WCF. Parks should not excess WCF fire equipment through normal
44 GSA channels. Vehicles not purchased through the WCF should be disposed of
45 per current NPS property disposal procedures.

46

1 **Fitness Equipment and Facilities**

2

3 DO/RM-57 Occupational Medical Standards, Health and Fitness defines the
4 minimum equipment needed to meet physical fitness goals. The following
5 guidance will be used to specifically determine fire funding expenditures for
6 equipment purchase:

7

- 8 • The fire funding expenditure will represent the percentage of arduously-
9 rated fitness participants in a park. For example, park XX may have 20
10 total arduously-rated fitness participants in its health and fitness program,
11 five of whom are wildland firefighters. Fire funding would pay 25 percent
12 of the cost of equipment purchase.
- 13 • Where all of a park's mandatory fitness participants are wildland
14 firefighters; fire will fund up to a maximum of \$1,200 per park per year for
15 equipment purchase. The Regional Fire Management Officer's approval is
16 required for purchases in excess of that amount.
- 17 • Health club costs must be borne by park management for mandatory fitness
18 participants. However, in-park exercise facility development is the
19 preferred option. Where this is not possible, health club costs, not to exceed
20 \$360 per year, may be paid from fire funds for each wildland firefighter
21 mandatory program participant. Approval from the regional fire
22 management officer is required for annual fees that exceed \$360.

23

24 **Firefighter Target Physical Fitness Standards**

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

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

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

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

31

32

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.

14 **Wildland Fire Uniform Standards**

15
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.

19
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
41 Where appropriate and justified, fire funds may be applied to the purchase of
42 100 percent cotton tee shirts, sweatshirts and ball caps, with appropriate logo
43 and color scheme, to augment the Nomex outerwear worn in conjunction with
44 project or wildland fire management incidents. Nomex outerwear will usually
45 be returned to the park's fire cache based on the tour of duty (end of season,
46 transfer to another park, etc.).

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1 The fire management officer is responsible for establishing a reasonable
2 allotment schedule for new or returning employees, commensurate with supplies
3 provided in previous seasons. A suggested per person issuance is three to four
4 tee shirts, one ball cap and one sweatshirt (where appropriate). \$100 would
5 normally be adequate to cover costs of this issuance.

6
7 Just as with uniform allowance discussed in DO-43, the intent of fire-funded
8 purchases is to defray the cost of the appropriate apparel, not necessarily to
9 cover the cost of all items. This will not only be factored into the quantities
10 deemed necessary for the individual, but would also preclude fire-funded
11 purchases of fleece jackets, rain gear and other personal items generally
12 considered the responsibility of those employees not covered by the NPS
13 uniform program. Exceptions to this should be well-justified and documented.

14

15 **Fire Management Credentials**

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

29

30 **Invasive Species Management**

31

32 **Operational Guidelines for Aquatic Invasive Species**

33 In order to prevent the spread of aquatic invasive species, it is important that fire
34 personnel, not only recognize the threat aquatic invasive species pose to
35 ecological integrity, but how our fire operations and resulting actions can
36 influence their spread. Each geographic area may have specific guidelines
37 related to localized aquatic invasive species. Therefore, it is recommended that
38 you consult established local jurisdictional guidelines for minimizing the spread
39 of aquatic invasive species and for equipment cleaning guidance specific to
40 those prevalent areas and associated species.

41

42 To minimize the potential transmission of aquatic invasive species, it is
43 recommended that you:

- 1 • Consult with local biologists, resource advisors (READ) and fire personnel
2 for known aquatic invasive species locations in the area and avoid them
3 when possible.
- 4 • Avoid entering (driving through) water bodies or saturated areas whenever
5 possible.
- 6 • Avoid transferring water between drainages or between unconnected waters
7 within the same drainage when possible.
- 8 • Use the smallest screen possible that does not negatively impact operations
9 and avoid sucking organic and bottom substrate material into water intakes
10 when drafting from a natural water body.
- 11 • Avoid obtaining water from multiple sources during a single operational
12 period when possible.
- 13
- 14 Remove all visible plant debris, soil and other materials from external surfaces
15 of gear and equipment after an operation. If possible, power-wash all accessible
16 surfaces with clean, hot water (ideally > 140° F) in an area designated by a local
17 READ.

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. The intent is to ensure safe, consistent, efficient, and effective fire and aviation operations. This document will be reviewed and updated annually.

Agency Administrator Roles**Director**

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

Chief, National Wildlife Refuge System

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

Regional Director

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

- Ensures that a process is in place for delegating approval of prescribed fire plans to the responsible Project Leader.
- Ensures that Project Leaders are qualified to approve prescribed fire plans. Conducting administrative reviews (and reporting review results to the Director within 90 days) of all prescribed fires that: Result in serious or multiple personal injuries; or are converted to wildfire status that burn significant private or other agency lands; or result in the issuance of an air quality regulatory Notice-of-Violation from the state, air pollution control district, and/or county.
- Ensures that emergency stabilization and burned area rehabilitation plans with estimated costs < \$500,000 are consistent with Department and Service policy and guidelines.

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

5

6 **Regional Chief and Refuge Supervisors**

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

12

13 **Project Leader/Refuge Manager**

14 The Project Leader is responsible to the Regional Director for the safe and
15 efficient implementation of fire management activities within their unit,
16 including cooperative activities with other agencies or landowners, in
17 accordance with delegations of authorities. Coordinates with the Fire
18 Management Officer to annually review and update (as needed) the unit Fire
19 Management Plan as required in the 2010 agency policy change.

20

- 21 • Refuge Managers/Project Leaders with Service lands under their jurisdiction
22 which require the development and maintenance of a Fire Management Plan
23 must attend either the National Advanced Fire and Resource Institute
24 (NAFRI) or a locally sponsored Fire Management for Leaders course, or
25 may, upon concurrence of the RFMC, attend the Agency Administrator
26 Workshop for Prescribed Fire course which is hosted by the National
27 Interagency Prescribed Fire Training Center (PFTC.)
- 28 • Refuge Managers/Project Leaders with advanced programs under their
29 jurisdiction must attend the National Fire Management Leadership Course or
30 Local Fire Management Leadership Course. Program complexity is
31 determined jointly between the Regional Fire Management Coordinator and
32 the Regional Refuge Supervisor based upon: frequency and complexity of
33 wildland fires, values at risk, number and type of fuels treatments, number
34 and type of fire management personnel assigned to the unit, Interagency
35 cooperation and coordination, and likelihood of Type 1 or 2 incident
36 (wildfire or all hazard).
- 37 • Regional Chiefs, Regional Refuge Supervisors, and Refuge
38 Managers/Project Leaders must complete periodic refresher training as
39 determined by their supervisor in consultation with the RFMC. Refresher
40 training options may include attending fire management training/workshops,
41 trainee experiences, mentoring, etc.
- 42 • Should an extended attack wildfire or escaped prescribed fire occur while a
43 Project Leader/Refuge Manager is absent, the Refuge Supervisor and RFMC
44 will make a quick assessment of the Acting Project Leader/Refuge Manager
45 capability and will provide additional support as necessary.

- 1 • Developing and implementing emergency stabilization and burned area
- 2 rehabilitation plans.
- 3 • Integrating the role and use of fire by establishing fire management direction
- 4 to meet resource objectives in Comprehensive Conservation Plans (CCP) and
- 5 Fire Management Plans (FMP).
- 6 • Ensuring that the prescribed fire burn plans and the personnel implementing
- 7 them meet Interagency, Service wide and Regional requirements.
- 8 • Reporting all wildfires resulting from prescribed fire actions to the Regional
- 9 Director within 24 hours of the wildfire declaration.
- 10 • Conducting reviews of all prescribed fires that are converted to wildfire
- 11 status.
- 12 • Reporting the review results to the Regional Director within 60 days after the
- 13 prescribed fire was declared a wildfire.
- 14 • Ensuring that fire management personnel are trained in the After Action
- 15 Review (AAR) process and that they routinely complete AARs after fire
- 16 operations.

17
 18 For further guidance and performance criteria for the Project Leader/Refuge
 19 Manager, Agency Administrator checklists are available for use at:
 20 <http://sharepoint.fws.net/Programs/nifc/operations/default.aspx>

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

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader / Refuge Manager
1. Ensures that Fire Management Plans (FMP) reflect the agency commitment to firefighter and public safety, while utilizing the full range of fire management activities available for ecosystem sustainability.	X	X	X	X
2. Develops wildland fire standards that are compliant with agency fire policies.	X	X	X	X
3. Ensures use of fire funds is in compliance with department and agency policies.	X	X	X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader / Refuge Manager
4. Ensures that all fire management activities are supported by a current FMP and is integrated with an approved Comprehensive Conservation Plan.	X	X	X	X
5. Attends the <i>Fire Management Leadership Course</i> . Ensures that personnel delegated fire program responsibilities have completed the <i>Fire Management Leadership Course</i> .			X	X
6. 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. When applicable, an Inter-refuge Agreement that specifies reciprocal responsibilities of the Project Leader/Refuge Manger and the Are/Zone FMO.		X	X	X
7. Ensures that only trained, certified fire and non-fire personnel are available to support fire operations at the local and national level.	X	X	X	X
8. Ensures that master agreements with cooperators are valid and in compliance with agency policy, and that attached Annual Operating Plans are current.	X	X	X	X
9. Personally visits at least one wildland and one prescribed fire each year.				X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader / Refuge Manager
10. Annually convenes and participates in pre-and post season fire meetings.			X	X
11. Reviews critical operations and safety policies and procedures with fire and fire aviation personnel.		X	X	X
12. Ensures that fire and fire aviation preparedness reviews are conducted annually in all unit offices. Personally participates in at least one review annually.	X	X	X	X
13. Ensures that investigations are conducted for incidents with potential, entrapments, and serious accidents as per agency policy.	X	X	X	X
14. Ensures timely follow-up to fire management program reviews.	X	X	X	X
15. Provides a written delegation of authority, Wildland Fire Decision Support System (WFDSS) analysis, and an <i>Agency Administrator Briefing to Incident Management Teams</i> .				X
16. Ensures that 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
17. Attends post fire closeout on Type 1 and Type 2 fires. (Attendance may be delegated.)			X	
18. Ensures that all wildfire management decisions are documented through the WFDSS process.		X	X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader / Refuge Manager
19. Ensures that trespass actions are initiated and documented to recover cost of suppression activities, land rehabilitation, and damages to the resource and improvements for all human-caused fires where liability can be determined, as per <i>FWS Fire Trespass Handbook</i> .		X	X	X
20. Ensures compliance with National and Regional Office policy for prescribed fire activities. Provides periodic reviews of the prescribed fire program.	X	X	X	X
21. Ensures that Prescribed Fire Plans are approved and meet agency policies.		X	X	X
22. Ensures that the Prescribed Fire Plan has been reviewed and recommended by a qualified technical reviewer who was not involved in the plan preparation.				X
23. Ensures that a policy has been established for review and signing of the go-no/go checklist.				X
24. Ensures Unit Safety Program is in place, has a current plan, has an active safety committee, and includes the fire program.	X	X	X	X
25. Annually updates and reviews the <i>Agency Administrator's Guide to Critical Incident Management</i>	X	X	X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief / Refuge Supervisor	Project Leader / Refuge Manager
26. Ensures that fire season severity predictions, weather forecasts, fire behavior predictors and fire activity levels are monitored daily, and communicated and available to all employees (hard copy, web page, email, radio, or fax).				X
27. Completes periodic refresher training as determined by their supervisor in consultation with the RFMC. Refresher training options may include attending fire management training/workshops, trainee experiences, mentoring, etc...			X	X

1

2 **Fire Management Staff Roles**

3

4 **National Office**

5 **Service Fire Management Coordinator (SFMC)**

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

15

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

19

20 **Regional Office**

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

22 The Regional Fire Management Coordinator provides coordination, training,
 23 planning, evaluation, and technical guidance for the region and is available to
 24 provide assistance for intra-agency and interagency wildland fire management

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

9

10 **Refuge**

11 **Fire Management Officer (FMO)**

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

18

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

- 24 • Ensuring that the RXBP and the personnel implementing them meet Service
25 wide and Regional requirements.
- 26 • Ensuring adequate oversight and status reporting of all prescribed fires.
- 27 • Reporting all wildfires resulting from prescribed fires to the Regional Fire
28 Management Coordinator within 12 hours of the wildfire declaration.
- 29 • Develop and/or update fire management plans and associated operational
30 plans for approval by project leaders and regional fire and refuge staff (as
31 determined by the region)
- 32 • Responsible for the coordination of RAWs maintenance, up keep, sensor
33 calibration, over sight of daily inputs in order to maintain a weather network
34 which is used by many cooperating agencies, and the development of the
35 RAWs operating plan.

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

PERFORMANCE REQUIRED	SFMC	RFMC	Zone/ District FMO
1. Establishes and manages a safe, effective, and efficient fire program.	X	X	X
2. Ensures that the Fire Management Plan (FMP) reflects the agency commitment to firefighter and public safety, while utilizing the full range of fire management activities available for ecosystem sustainability. <i>(Federal Wildland Fire Management Plan 2001)</i>	X	X	X
3. Provides the expertise and skills to fully integrate fire and fire aviation management into interdisciplinary planning efforts. (When requested)	X	X	X
4. Ensures that only trained and qualified personnel are assigned to fire and fire aviation duties.	X	X	X
5. Ensures completion of a Job Hazard Analysis (JHA)/Risk Assessment for fire and fire aviation activities so mitigation measures are taken to reduce risk.		X	X
6. Ensures compliance with work/rest guidelines during all fire and fire aviation activities.	X	X	X
7. Ensures that the fire and fire aviation management employees understand their role, responsibilities, authority, and accountability.	X	X	X
8. Organizes trains, equips, and directs a qualified work force. Establishes and implements performance review process.	X	X	X
9. Develops implements, evaluates, and documents fire and fire aviation training to meet current and anticipated needs.	X	X	X
10. Ensures fire and fire aviation policies are understood, implemented, and coordinated with other agencies as appropriate.	X	X	X

PERFORMANCE REQUIRED	SFMC	RFMC	Zone/ District FMO
11. Monitors fire suppression activities to recognize when complexity levels exceed current management capabilities. Increases managerial and operational resources to meet the need.	X	X	X
12. Monitors fire season severity predictions, fire behavior, and fire activity levels. Takes action to ensure safe, efficient, and effective operations.	X	X	X
13. Ensures that master agreements with cooperators are valid and in compliance with agency policy, and that attached Annual Operating Plans are current.	X	X	X
14. Develops, maintains and implements current operational plans. (e.g., dispatch, preparedness, prevention).		X	X
15. Ensures use of fire funds is in compliance with department and agency policies.	X	X	X
16. Ensures that fire severity funding is requested, used, and documented in accordance with agency standards (<i>Interagency Standards for Fire and Fire Aviation Operations</i> , Chapter 9).	X	X	X
17. Reviews and approves appropriate overtime authorization requests for personnel providing fire suppression coverage during holidays, special events, and abnormal fire conditions.		X	X
18. Ensures a process is established to communicate fire info to public, media, and cooperators.	X	X	X
19. Annually convenes and participates in pre-and post season fire meetings. Specifically address management controls and critical safety issues.	X	X	X
20. Oversees pre-season preparedness review of fire and fire aviation program.	X	X	X

PERFORMANCE REQUIRED	SFMC	RFMC	Zone/ District FMO
21. Initiates, conducts, and/or participates in fire program management reviews and investigations.	X	X	X
22. Personally participates in periodic site visits to individual incidents and projects.		X	X
23. Ensures that transfer of command occurs as per appendix D on incidents.		X	X
24. Utilizes the Incident Complexity Analysis appendix F & G to ensure the proper level of management is assigned to all incidents	X	X	X
25. Ensures that incoming personnel and crews are briefed prior to fire and fire aviation assignments.		X	X
26. Ensures an accurate and defensible Wildland Fire Decision Support System (WFDSS) analysis is completed and updated, approved, and certified as necessary.	X	X	X
27. Works with cooperators, groups, and individuals to develop and implement processes and procedures for providing fire safe communities within the wildland urban interface.	X	X	X
28. Ensures that trespass actions are initiated and documented to recover cost of suppression activities, land rehabilitation, and damages to the resource and improvements for all human-caused fires where liability can be determined, as per <i>FWS Fire Trespass Handbook</i> .	X	X	X
29. Ensures training for fire cause determination and fire trespass is completed.	X	X	X
30. Ensures compliance with National and State Office policy for prescribed fire activities. Provides periodic reviews of the prescribed fire program.	X	X	X
31. Annually updates and reviews the <i>Agency Administrator's Guide to Critical Incident Management</i> .	X	X	X

PERFORMANCE REQUIRED	SFMC	RFMC	Zone/ District FMO
32. Ensures that fire season severity predictions, weather forecasts, fire behavior predictors, and fire activity levels are monitored and communicated daily to all employees (hard copy, web page, email, radio, or fax).		X	X
33. Uses current National and Local Mobilization Guides and ensures that national, geographic and local mobilization standards are followed.	X	X	X
34. Complies with established property control/management procedures.	X	X	X

1

2 **National Fire Leadership Team**

3

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

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

1 matter area with members assigned who may have the subject area as a
2 collateral duty. They will have representation from across the Service, and
3 will provide guidance or operational recommendations to the NFLT.
4

5 **Delegation of Authority**

6 **Regional Fire Management Coordinator**

7 In order to effectively perform their duties, a RFMC must have certain
8 authorities delegated from the Regional Director. This delegation is normally
9 placed in the regional office supplement to agency manuals. This delegation of
10 authority should include:
11

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

29 **Zone/District Fire Management Officer**

30 In order to effectively perform their duties, the FMO may have certain
31 authorities delegated from the Agency Administrator(s). A sample "Delegation
32 of Authority" can be found on the FWS SharePoint web site.
33

34 **Fire Duty Officer**

35
36 Fire Management Officers are responsible to provide Fire Duty Officer (FDO)
37 coverage during periods of predicted incident activities. FDO responsibilities
38 may be performed by any individual delegated the authority, either written or
39 verbal, from the FMO. The duties for FDOs include:

- 40 • Monitor unit incident activities for compliance with FWS safety policies.
- 41 • Coordinate and set priorities for unit preparedness activities, incident
42 response and resource allocation.
- 43 • Keep agency administrators and resources informed of the current and
44 expected situation.
- 45 • Plan for and implement actions required for future needs.

- 1 • Document decisions and actions.
- 2 • It is recommended FDOs not fill ICS incident command functions.

3

4 **Fire Severity Funding**

5

6 Units may request severity funding when wildfire response resources are
7 insufficient to meet the predicted fire workload on Service lands. Units/Regions
8 may request 2 types of severity funding depending upon the anticipated duration
9 of need (see table). An approved and Current FMP must be in place to receive
10 severity funding.

11

12 **Short-Term Severity Funding**

13 Short-term severity funding can be requested to implement preplanned actions
14 from an approved preparedness or step-up plan. This may include: the unit
15 anticipates being at PL4 or PL5 (or equivalent) for less than seven consecutive
16 days, or when the need is only for extending the days/hours of existing staff.
17 Short-term severity requests must be approved by the RFMC, and may not
18 exceed a total of \$300,000 per Region annually. Short-term severity funding
19 codes are PER1 (region 1), PER2 (region 2), etc. An example for short-term
20 severity in Region 2 is 22520-9141-PER2.

21

22 **Long-Term Severity Funding**

23 Long-term severity funding can be requested when additional outside resources
24 are needed for an extended period of time. The need for additional resources
25 must be based upon existing approved preparedness plans or documentation of
26 extraordinary conditions that were not anticipated in the existing preparedness
27 plans. Long-term severity requests must be approved by the Chief, Fire
28 Management Branch. Severity requests follow guidance located in Appendix E
29 of the FWS Fire Business Reference Guide and include the documentation
30 identified in the appendix.

31

32 Long-term severity funding is provided for a maximum of 30 days per request;
33 however, regardless of the length of the authorization, use of severity funding
34 must be terminated when abnormal conditions no longer exist. Long-term
35 severity codes are *local org code-9141-FIRECODE*. An example of Long-term
36 severity from Region 2 is 22520-9141-FJ4M.

37

38 **Daily Fire Report**

39

40 During the “National Fire Season” as identified by the National Interagency
41 Coordination Center at Boise, ID (NICC), each unit within the Refuge System
42 will report wildland fire occurrence daily. Each Region will establish procedures
43 to gather the needed information and develop the necessary contacts at the
44 coordination centers. This may require submissions to the Regional Fire
45 Management Coordinator (RFMC) or the respective Geographic Coordination
46 Center. Report the status of large fires separately on form ICS-209 with copies

1 furnished to the RFMC's. Include weekend fire activity on Monday's report
2 unless there is significant fire activity.

3

4 **Individual Fire Report**

5

6 An Individual Fire Report must be completed in the Fire Management
7 Information System (FMIS) for the following types of fires within 15 days after
8 the fire is declared out.

- 9 • All wildland fires on Service lands.
- 10 • Wildland fires threatening Service lands on which the Service takes action.
- 11 • Fires on which action was taken for another agency.
- 12 • All prescribed fires that remain within prescription on Service lands. When a
13 fire exceeds prescription criteria, treat it as an unwanted wildfire, and file a
14 separate report covering those acres by the unwanted wildland fire.
- 15 • All false alarms responded to by field office staff.

16

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

22

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

24

25 Effective March 31, 2010 all managers must use WFDSS to document decisions
26 on extended attack wildfires, wildfires managed for resource benefit and
27 escaped prescribed fires.

28

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

31

32 **Final Wildland Fire Record**

33

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

- 35 • FMIS data entry
- 36 • Narrative
- 37 • WFDSS
- 38 • Incident Action Plan(s)
- 39 • Daily weather forecasts and spot weather forecasts; Cumulative fire map
40 showing acreage increase by day
- 41 • Total cost summary
- 42 • Monitoring data (Wildland Fire Observation Records)
- 43 • Critique of fire projections on Incident Action Plan

44

45

1 Physical Fitness and Conditioning

2

3 Employees serving in wildland fire positions that require a fitness rating of
4 arduous as a condition of employment are authorized one hour of duty time each
5 work day for physical fitness conditioning. Employees not having a fitness
6 rating of arduous as a condition of employment, but who are required by a
7 Critical Performance element or other written agreement to maintain an arduous
8 level, will be authorized three hours per week of duty time for physical fitness
9 condition. All other wildland firefighting personnel holding qualifications
10 requiring ratings of moderate or arduous may be authorized, by their supervisor,
11 up to three hours per week of duty time for fitness conditioning. Prior to any
12 duty time being allowed for physical fitness conditioning, employees and
13 supervisors must agree, in writing, what physical conditioning activities the
14 employee will engage in, and when and where they will occur. Activities outside
15 of the agreement will not be authorized or allowed. A combination of activities
16 designed to increase both physical strength and aerobic fitness, while
17 minimizing the possibility of physical injury, should be utilized.

18

19 Training

20

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

25

26 Fire Management Officer Training

27

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

31

32 Line Officer and Agency Administrator Training

33

34 Refuge managers/project leaders and Program and Assistant Regional Directors
35 who are responsible for managing or providing oversight to a fire program on
36 our lands must attend the current interagency fire management leadership
37 course. The national or local level sponsors this course.

37

38 Fish and Wildlife Service Specific Qualifications

39

40 Guidance regarding agency-specific qualifications (including ENOP, RXB3,
41 Faller ABC, RXCM, DZOP and TPOP) can be found at
42 <http://sharepoint.fws.net/Programs/nifc/training/Shared%20Documents/>

42

1 **Chapter 05**
2 **USDA Forest Service Wildland Fire and Aviation Program**
3 **Organization and Responsibilities**
4

5 **Introduction**
6

7 This document is intended to be a program reference guide that documents the
8 standards for operational procedures and practices for the USDA Forest Service
9 Fire and Aviation Management program. The standards provided in this
10 handbook are based on current agency and interagency wildland fire
11 management policy, and is intended to provide fire and aviation program
12 guidance and to ensure safe, consistent, efficient, and effective fire and aviation
13 operations. This document will be reviewed and updated annually.
14

15 **Foundational Doctrine**
16

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

- 20 • Forest Service Wide (i.e., apply to all employees and activities)
- 21 • Fire and Aviation Management (i.e., are specific to the fire and aviation
22 management program)
- 23 • Fire Suppression (i.e., are specific to fire fighting activities).
24

25 **The Operational Environment**

- 26 • *Fire Suppression*
27 1. No resource or facility is worth the loss of human life, however the wildland
28 fire suppression environment is complex and possesses inherent hazards that
29 can, even with reasonable mitigation, result in harm to fire fighters engaged in
30 fire suppression operations. In recognition of this fact, we are committed to the
31 aggressive management of risk.
32

33 **Mission**

- 34 • *Forest Service Wide*
35 2. The Forest Service is prepared and organized to support national and
36 international emergencies with trained personnel and other assets when
37 requested.
38
- 39 3. Agency employees respond when they come across situations where human
40 life is immediately at risk or there is a clear emergency, and they are capable of
41 assisting without undue risk to themselves or others.
42
- 43 4. In responding to emergencies, we will bring the same professionalism and
44 passion for safety as we do to non-emergency situations.
45

1 5. Support for local fire emergencies takes priority over accomplishment of local
2 resource targets. Support of non-local fire emergencies will be at the discretion
3 of the local line officer, as bounded by agency agreements and Regional or
4 National direction.

5

6 6. A cooperative relationship between the Forest Service and other agencies is
7 essential. The Forest Service is committed to honor its part of the joint
8 responsibility to develop and maintain effective working relationships with its
9 intergovernmental cooperators.

10

11 • *Fire & Aviation Management*

12 7. Fire management is central to meeting the Forest Service mission –
13 conserving natural resources, restoring ecological health, and protecting
14 communities.

15

16 • *Fire Suppression*

17 8. Successful fire suppression is essential to support the Forest Service mission.

18

19 9. The intent of wildfire suppression is to protect human life, property, and at
20 risk lands and resources.

21

22 **Leadership and Accountability**

23 • *Forest Service Wide*

24 10. The hallmarks of Forest Service leadership are action, attitude, and
25 accountability.

26

27 11. Leaders express clear and concise intent to ensure assignments are managed
28 safely, effectively, and efficiently.

29

30 12. Leaders regularly monitor operations for effectiveness, and take action when
31 there is recognition of exceptional or problematic employee performance.

32

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

37

38 • *Fire Suppression*

39 14. Demonstrated fitness for command is a requirement for leadership positions
40 associated with fire fighting.

41

42 **Roles and Relationships**

43 • *Forest Service Wide*

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

- 1 • *Fire & Aviation Management*
2 16. Line officers with fire management responsibilities will have knowledge and
3 understanding of fire program management.
4
5 17. Contracted resources will meet identified standards for qualifications,
6 training, productivity, and efficiency necessary to meet emergency response
7 needs.
8
9 18. It is the Forest Service responsibility to initiate and participate in public
10 education efforts to promote support for necessary fire management activities.
11
- 12 • *Fire Suppression*
13 19. Every Forest Service employee has a responsibility to support fire
14 suppression emergencies in a manner that meets identified needs, and is within
15 their qualifications and capabilities.
16
- 17 **Operations**
18 • *Forest Service Wide*
19 20. Employees are expected and empowered to be creative and decisive, to
20 exercise initiative and accept responsibility, and to use their training, experience,
21 and judgment in decision-making to carry out their leader's intent.
22
23 21. Employees are expected and empowered to make reasonable and prudent
24 decisions to accomplish the agency mission while minimizing exposure to
25 hazards.
26
27 22. Clear, uncomplicated plans and concise orders maximize effectiveness and
28 minimize confusion.
29
- 30 • *Fire Suppression*
31 23. When it is time to fight fire, we do so in a manner that maximizes
32 effectiveness of effort, has highest regard for firefighter and public safety, and
33 controls costs.
34
35 24. Every fire suppression operation is directed toward clearly-defined, decisive,
36 and obtainable objectives.
37
38 25. Command and control must be decentralized to cope with the unpredictable
39 nature of fire. To achieve their leader's intent and accomplish operational
40 objectives, subordinate commanders are required to make decisions on their own
41 initiative, and to coordinate their efforts.
42
43 26. Unity of effort is maintained and suppression actions are coordinated at all
44 times.
45

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

5
6 28. Rapid deployment and concentration of fire suppression resources at the
7 decisive time and place is essential to successful fire suppression actions.

8
9 29. Maintaining high capability for initial attack is essential to public and fire
10 fighter safety, accomplishment of management objectives, and cost containment.

11 12 **Risk Management**

- 13
- 14 • *Fire Suppression*
- 15 30. We practice risk management to minimize the exposure and affects of the
16 inherent hazards in fire suppression while maximizing the opportunities to
17 achieve leader intent.

18 19 **Agency Administrator Positions**

20
21 The Forest Service Director of Fire and Aviation Management, the Director of
22 Human Resources and the Forest Service Line Officer Team have developed
23 core fire management competencies for inclusion into the position descriptions
24 and in selection criteria for agency administrators. They are presented here for
25 reference.

26 27 **Evaluation Criterion**

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

37 38 **Training and Core Competencies**

- 39 • Attend a regional or national Fire Management Leadership for Agency
40 Administrators training session
- 41 • Require a shadow assignment with a fully qualified agency administrator
- 42 • Receive training or experience in the Wildland Fire Decision Support
43 System (WFDSS).
- 44 • Provide a Delegation of Authority to incident commanders

45
46

1 **Line Officer Certification Program**

2 The following principles will guide certification of agency administrators in fire
3 management:

- 4 • Regional Foresters are accountable for certification of line officers
- 5 • Line officer evaluation includes standards for training, background and
6 experience, and demonstrated ability, which will result in a qualitative
7 evaluation of readiness by the Regional Forester
- 8 • When the complexity level of a fire exceeds a line officer's certification, a
9 coach will be assigned to advise (but not replace)
- 10 • This certification program will be periodically evaluated and updated as
11 needed
- 12 • Decision Support Groups may be requested and would be assigned as fire
13 costs approach certain thresholds
- 14 • The Coaching/Shadowing program, to be administered by each region, is an
15 integral part of this certification program

16
17 **Line Officers will be evaluated in three basic areas:**

- 18 • Training
- 19 • Background and experience
- 20 • Demonstrated understanding of concepts and principles

21
22 This certification program is a multi-level process where line officers
23 demonstrate competence in one of three levels of managing fires. Those levels
24 would be Working, Journey, and Advanced.

25
26 **Guidelines**

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

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

33
34 **Working Level** - The line officer could manage a low to moderate complexity
35 fire. The line officer should meet the following:

- 36 • **Training:** Fire Management Leadership or National Fire Management for
37 Line Officers, and WFDSS Certification (*FSM 5130*)
- 38 • **Background and Experience:** Successful management of a minimum of
39 one Type 3 or higher fire, or one successful higher complexity fire (Type 2
40 or higher) quality shadow assignment (consider complexity and size of the
41 fires). Management oversight of a low-complexity fire program and/or
42 experience as an agency administrator or representative. Applicable
43 experience in all hazard or other incident oversight may be considered in
44 lieu of this experience. Consider career fire experience.

- 1 • **Demonstrated Ability:** Successful evaluation by a coach (including
2 feedback from ICs or ACs) that the candidate has demonstrated
3 understanding and application of the responsibilities of an agency
4 administrator on smaller low-complexity fires with a basic understanding of
5 the elements of the core competencies.

6
7 **Journey Level** - The line officer could manage a moderate to high complexity
8 fire. The line officer needs to be certified at the Working Level and should meet
9 the following:

- 10 • **Training:** Fire Management Leadership or National Fire Management for
11 Line Officers, and WFDSS Certification (*FSM 5130*).
- 12 • **Background and Experience:**
- 13 ➤ Successful management of a minimum of one Type 2 or higher fire, or
14 one successful higher complexity fire (Type I) quality shadow
15 assignment, depending on fire experience (complexity and size of the
16 fires should be considered).
 - 17 ➤ Management oversight of a moderate-complexity fire program or
18 experience as an agency administrator or representative on Type 2 or
19 higher fires.
 - 20 ➤ Applicable experience in all hazard or other incident oversight may
21 also be considered in lieu of other guidelines.
- 22 • **Demonstrated Ability:** Successful evaluation by a coach (including
23 feedback from ICs or ACs) that the candidate has demonstrated
24 understanding and application of the responsibilities of an agency
25 administrator on moderate to large complex fires in the core competencies,
26 and other elements that may be relevant.

27
28 **Advanced Level** - The line officer could manage a high complexity fire. The
29 line officer needs to be certified at the Journey Level and should meet the
30 following:

- 31 • **Training:** Fire Management Leadership or National Fire Management for
32 Line Officers, and WFDSS Certification (*FSM 5130*).
- 33 • **Background and Experience:**
- 34 ➤ Successful management of a minimum of 5 Type 1 or 2 fires (at least
35 one of which is a Type 1 fire), depending on fire experience
36 (complexity and size of the fires should be considered).
 - 37 ➤ Management oversight of a moderate to high-complexity fire program.
 - 38 ➤ Applicable experience in all hazard or other incident oversight may
39 also be considered in lieu of other guidelines.
- 40 • **Demonstrated Ability:** Successful evaluation by a coach (including
41 feedback from ICs or ACs) that the candidate has demonstrated
42 understanding and application of the responsibilities of an agency
43 administrator on large complex fires in the core competencies, and other
44 elements that may be relevant.

45
46

1 Other Considerations

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

- 3 ● Safety.
- 4 ● Strategies and tactics for cost containment.
- 5 ● Incident management processes.
- 6 ● Understanding of decision support tools.
- 7 ● Situational awareness of resource availability & allocation.
- 8 ● Understanding fire agreements and cost apportionment.
- 9 ● WFDSS experience
- 10 ● Monitoring and evaluation of fire operations.
- 11 ● Risk management.
- 12 ● Social/political awareness and interpersonal relations.

13

14 Other training opportunities to achieve core competencies - Additional training
15 opportunities/suggestions (will be updated as program is evaluated)

- 16 ● Upper levels of fire leadership and fire management courses
- 17 ● Be the actual line officer in the Type 3 IC certification sand table exercises
- 18 ● Participate in advanced risk management training.
- 19 ● Get assigned to a Type 1 or Type 2 team as a training assignment (e.g.
20 shadow Plans) and see the world from their viewpoint
- 21 ● Assist in 420 simulation as a line officer
- 22 ● WFDSS training
- 23 ● Include risk management and fire management topics to annual line officer
24 meetings
- 25 ● Attend staff rides (staff rides need to include a stand that portrays the line
26 officer perspective)
- 27 ● Participate in prescribed fires and/or attend prescribed fire training.

28

29 Guidance on the Selection of Coaches

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

32 Criteria for individuals serving as Coaches are as follows:

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

38

39 Performance Standards

40 Add the following standards to the existing performance standards for Forest
41 Supervisors and District Rangers under Performance Standard #4, Leadership,
42 Coaching, and Supervising:

- 43 ● Integrate fire and fuels management across all functional areas.

- 1 • Implement fire management strategies and integrate natural resource
2 concerns into collaborative community protection and ecosystem restoration
3 strategies on the unit.
- 4 • Manage a budget that includes fire preparedness, prevention, suppression,
5 and hazardous fuels in an annual program of work for the unit.
- 6 • Perform duties of agency administrator and maintain those qualifications.
- 7 • Provide a fully staffed, highly qualified, and diverse workforce in a "safety
8 first" environment.

9
10 These standards are based on current policy and provide program guidance to
11 ensure safe, consistent, efficient, and effective fire and aviation operations. This
12 document will be reviewed and updated annually.

13

14 **Specific Agency Administrator Performance Standards for Fire and** 15 **Aviation at the Field Level**

16

17 **Preparedness**

- 18 • Take all necessary and prudent actions to ensure firefighter and public
19 safety.
- 20 • Ensure sufficient qualified fire and non-fire personnel are available to
21 support fire operations at a level commensurate with the local and national
22 fire situation.
- 23 • Ensure accurate position descriptions are developed and reflect the
24 complexity of the unit. Individual Development Plans promote and enhance
25 FMO currency and development.
- 26 • Provide a written Delegation of Authority to FMOs that provides an
27 adequate level of operational authority at the unit level. Include Multi-
28 Agency Coordinating (MAC) Group authority, as appropriate.
- 29 • Identify resource management objectives to maintain a current Fire
30 Management Plan (FMP) that identifies an accurate level of funding for
31 personnel and equipment.
- 32 • Develop preparedness standards that are in compliance with agency fire
33 policies.
- 34 • Management teams meet once a year to review fire and aviation policies,
35 roles, responsibilities, and delegations of authority. Specifically address
36 oversight and management controls, critical safety issues, and high-risk
37 situations such as transfers of incident command, periods of multiple fire
38 activity, and Red Flag Warnings.
- 39 • Ensure fire and aviation preparedness reviews are conducted each year.
- 40 • Meet annually with cooperators and review interagency agreements to
41 ensure their continued effectiveness and efficiency.
- 42 • Convene and participate in annual conferences and fire reviews.
- 43 • Agency administrators, Fire Program Managers, and/or Safety and Health
44 Program Managers shall conduct after action reviews on all Type 3 fires

1 and a minimum of 10% of their unit's Type 4 and 5 fires and document
2 their inspections in the incident records.

3

4 **Suppression**

- 5 ● Ensure use of fire funds is in compliance with Agency policies.
- 6 ● The WFDSS will be used and approved on all fires that escape initial attack.
- 7 ● WFDSS analysis that are expected to exceed \$10 million in suppression
8 costs are forwarded to the Regional Office for review and approval.
- 9 ● Personally attend reviews on Type 1 and Type 2 fires.
- 10 ● Provide incident management objectives, written delegations of authority,
11 and a complete agency administrator briefing to Incident Management
12 Teams.
- 13 ● Evaluate the need for resource advisors for all fires, and assign as
14 appropriate.
- 15 ● For all unplanned human-caused fires where responsibility can be
16 determined, ensure actions are initiated to recover cost of suppression
17 activities, land rehabilitation, damages to the resource, and improvements.
- 18 ● Ensure structure exposure protection principles are followed.

19

20 **Responsibilities and Oversight**

- 21 ● Agency Administrators are responsible for all aspects of fire management.
- 22 ● Agency Administrators will ensure that all Forest Service employees and
23 employees of interagency partners working on forest Service jurisdiction
24 wildfires clearly understand direction.
- 25 ● Agency Administrators must approve a decision analysis (and subsequent
26 courses of action) and issue delegations of authority to the incident
27 commander. The agency administrator authority is based on the agency's
28 estimated management cost of the incident or by the complexity level as set
29 out in FSM 5131.04a-5131.04d.
- 30 ● Approval letters for wildland fire decision analyses are based on the
31 agency's projected cost and not the total estimated cost of the wildfire. The
32 following approval thresholds apply as stated in FSM 5131.04 and subject
33 to qualification and certification policies stated in FSM 5131.11 (note- prior
34 certification thresholds are no longer applicable):
 - 35 ➤ Up to \$2 million – District Ranger
 - 36 ➤ \$2 million to \$10 million – Forest Supervisor
 - 37 ➤ Over \$10 million – Regional Forester
- 38 ● Oversight designations are based on the complexity level as determined
39 using the methods in the appendix.
 - 40 ➤ Type 3, 4, and 5 wildfire decisions/delegations are made at the
41 District Ranger level with oversight by the Forest Supervisor.
 - 42 ➤ Type 2 wildfire decisions/delegations are made at the Forest
43 Supervisor level with oversight by the Regional Forester.
 - 44 ➤ Type 1 wildfire decisions/delegations are made at the Regional
45 Forester level with National oversight.

- 1 • Critical long duration wildfire oversight roles include ensuring that:
2 ➤ Up-to-date decision analyses are completed and documented in
3 Wildland Fire Decision Support System (WFDSS).
4 ➤ Hazards are identified and risk assessments are incorporated into
5 decisions.
6 ➤ Coordination with partners and potentially affected parties is
7 conducted (including smoke impacts). Unified command is
8 implemented early if necessary.
9 ➤ Resource capacity and availability are adequately assessed to meet
10 expectations.
11 • This oversight role should address concerns of the states, cooperators, and
12 the public including air quality impacts from multiple wildfires.
13

14 **Safety**

- 15 • Review safety policies, procedures, and concerns with field fire and
16 aviation personnel.
17 • Ensure timely follow-up actions to program reviews, fire preparedness
18 reviews, fire and aviation safety reviews, and management reviews.
19 • Monitor the fire situation and provide oversight during periods of critical
20 fire activity and situations of high risk.
21 • Ensure there is adequate direction in fire management plans to maintain fire
22 danger awareness.
23 • Take appropriate actions with escalating fire potential.
24 • Ensure appropriate investigation or Lessons Learned analyses are conducted
25 for incidents, entrapments, and serious accidents.
26

27 **Prescribed Fire**

- 28 • Ensure an approved burn plan is followed for each prescribed fire project,
29 including follow-up monitoring and documentation to ensure management
30 objectives are met.
31 • Provide management oversight by personally visiting wildland and
32 prescribed fire activities each year.
33 • Ensure compliance with National and Regional Office policy and direction
34 for prescribed fire activities and ensure that periodic reviews and
35 inspections of the prescribed fire program are completed.
36 • Approve Prescribed Fire Plans. Authority may be delegated to the Line
37 Officers as provided under specific directions.
38 • Review Prescribed Fire Plans and recommend or approve the plans
39 depending upon the delegated authority. Ensure that the Prescribed Fire
40 Plan has been reviewed and recommended by a qualified technical reviewer
41 who was not involved in the plan preparation.
42

43 **Fire Management Positions**

44 The following standards show the minimum operational experience
45 recommended for fire management positions. The *Interagency Fire Program*

1 *Management Qualifications Standard (including FS-FPM Fire Program*
2 *Management)* will be used as a guide in conjunction with specific agency
3 requirements when filling vacant fire program positions, and as an aid in
4 developing Individual Development Plans (IDPs) for employees.

5

6 **Specific Fire Management Staff Performance Standards for Fire** 7 **Operations at the Field Level**

8

9 **Preparedness**

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

- 1 • Assess, identify, and implement program actions that effectively reduce
2 unwanted wildland fire ignitions and mitigate risks to life, property, and
3 resources.
4 • Work with cooperators to identify processes and procedures for providing
5 fire safe communities within the wildland urban interface.
6

7 **Suppression**

- 8 • Ensure completion of a job hazard analysis (JHA) for fire and fire aviation
9 activities, and implement applicable risk mitigation measures.
10 • Provide for and personally participate in periodic site visits to individual
11 incidents and projects.
12 • Utilize the incident complexity analysis to ensure the proper level of
13 management is assigned to all incidents.
14 • Ensure incoming personnel and crews are briefed prior to fire and aviation
15 assignments.
16 • Coordinate the development of the Wildland Fire Decision Support System
17 with local unit staff specialists for all fires that escape initial attack.
18 • Ensure effective transfer of command of incident management occurs and
19 safety is considered in all functional areas.
20 • Monitor fire activity to anticipate and recognize when complexity levels
21 exceed program capabilities. Increase managerial and operational resources
22 to meet needs.
23 • Complete cost recovery actions when unplanned human-caused fires occur.
24 • Ensure structure exposure protection principles are followed.
25

26 **Safety**

- 27 • Ensure work/rest and R&R guidelines are followed during all fire and
28 aviation activities. Deviations are approved and documented.
29 • Initiate, conduct, and/or participate in fire management related reviews and
30 investigations.
31 • Monitor fire season severity predictions, fire behavior, and fire activity
32 levels. Take appropriate actions to ensure safe, efficient, and effective
33 operations.
34

35 **Prescribed Fire**

- 36 • Ensure a written, approved burn plan exists for each prescribed fire project.
37 • Ensure all escaped prescribed fires receive a review at the proper level.
38 • Provide the expertise and skills to fully integrate fire and aviation
39 management into interdisciplinary planning efforts.
40 • Ensure compliance with National and Regional Office policy and direction
41 for prescribed fire activities and ensure that program reviews and
42 inspections of the prescribed fire program are completed.
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 Communities and
25 structures that can survive wildland fire without intervention. We support
26 the concept that property owners have primary responsibility for reducing
27 wildfire risks to their lands and assets.
- 28 ● The Forest Service will actively work toward applying Firewise concepts to
29 all Forest Service owned structures, facilities, and permitted use to serve as
30 a model to publics and communities.
- 31 ● The Forest Service will apply strategy and tactics to keep wildland fires
32 from reaching structures, as prudent to do so, considering risk management
33 for firefighters and publics, fire behavior, values at risk including natural
34 resources, availability of firefighting resources, and jurisdictional
35 authorities.
- 36 ● The Forest Service will be proactive in developing agreements with
37 interagency partners to clarify its structure protection policy.
- 38 ● The Forest Service structure protection role is based on the assumption that
39 other Departments and agencies will fulfill their primary roles and
40 responsibilities. The Forest Service will not usurp individual, local, or state
41 responsibility for structure protection.
- 42 ● Prior to task implementation, a specific structure protection role briefing
43 will be accomplished.

44

45

46

1 **Tactical Applications**

2

3 **Structure Protection Definition**

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

10

11 **USFS Role**

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

17

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

30

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

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

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

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

6

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

12

13 The Forest Service shall not:

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

18

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

23

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

34

35 **Local Government Role**

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

40

41 **Cost**

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

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1 Tactical Operating Principles

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

3 Service personnel will apply the following principles:

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

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Chapter 6

RESERVED

This chapter is reserved.

Chapter 07 Safety and Risk Management

Introduction

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

Policy

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

Agency Specific Safety Policy Documents:

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

Guiding Principles

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

Goal

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

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- 1 levels from the national fire director, state/regional director, and unit manager to
2 employees in the field. Agency administrators need to stress that firefighter and
3 public safety always takes precedence over property and resource loss.
4 Coordination between the fire management staff and unit safety officer(s) is
5 essential in achieving this objective. For additional safety guidance and
6 reference refer to:
- 7 • *Fireline Handbook (PMS 410-1, NFES 0065).*
 - 8 • *Incident Response Pocket Guide (IRPG) (PMS 461, NFES 1077).*
 - 9 • *Wildland Firefighter Health & Safety Report (Annual MTDC Publication).*
 - 10 • *National Interagency Mobilization Guide (NFES 2092).*

12 Definitions

- 13
- 14 **Safety:** A measure of the degree of freedom from risk or conditions that can
15 cause death, physical harm, or equipment or property damage.
- 16 **Hazard:** A condition or situation that exists within the working environment
17 capable of causing physical harm, injury, or damage.
- 18 **Risk:** The likelihood or possibility of hazardous consequences in terms of
19 severity or probability.
- 20 **Risk Management:** The process whereby management decisions are made and
21 actions taken concerning control of hazards and acceptance of remaining risk.

23 Risk Management Process

- 24
- 25 Fire operations risk management is outlined in the *NWCG Incident Response*
26 *Pocket Guide (IRPG)*. The five step process provides firefighters and fire
27 managers a simple, universal, and consistent way to practice risk management
28 by:
- 29 • Establishing situation awareness.
 - 30 • Identifying hazards and assessing the risk.
 - 31 • Controlling or eliminating hazards.
 - 32 • Making go/no-go decisions based on acceptability of remaining risk.
 - 33 • Evaluating effectiveness of hazard controls and continuously re-evaluating
34 situation.

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

- 37
- 38 A completed Job Hazard Analysis is required for:
- 39 • Jobs or work practices that have potential hazards.
 - 40 • New, non-routine, or hazardous tasks to be performed where potential
41 hazards exist.
 - 42 • Jobs that may require the employee to use non-standard personal protective
43 equipment (PPE).
 - 44 • Changes in equipment, work environment, conditions, policies, or materials.

- 1 • Supervisors and appropriate line managers must ensure that established
2 JHAs are reviewed and signed prior to any non-routine task or at the
3 beginning of the fire season.
- 4 • *BLM - A risk assessment (in lieu of JHA) must be completed for all non-*
5 *suppression work practices/projects that have potential hazards. Risk*
6 *assessments may be developed for wildland fire operational activities at the*
7 *local unit's discretion. Additional RA information can be obtained at:*
8 *<http://web.blm.gov/internal/wo-700/wo740/riskmanagement.html>*
9

10 **Work/Rest**

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

15
16 The authority to grant a day off with pay lies within 5 U.S.C. 6104, 5 CFR
17 610.301-306, and 56 Comp. Gen. Decision 393 (1977).

- 18 • Plan for and ensure that all personnel are provided a minimum 2:1 work to
19 rest ratio (for every 2 hours of work or travel, provide 1 hour of sleep and/or
20 rest).
- 21 • Work shifts that exceed 16 hours and/or consecutive days that do not meet
22 the 2:1 work/rest ratio should be the exception, and no work shift should
23 exceed 24 hours. However, in situations where this does occur (for
24 example, initial attack), incident management personnel will resume 2:1
25 work/rest ratio as quickly as possible.
- 26 • The incident commander or agency administrator must justify work shifts
27 that exceed 16 hours and those that do not meet 2:1 work to rest ratio.
28 Justification will be documented in the daily incident records.
29 Documentation shall include mitigation measures used to reduce fatigue.
- 30 • The Time Officer's/Unit Leader's approval of the Emergency Firefighter
31 Time Report (OF-288), or other agency pay document, certifies that the
32 required documentation is on file and no further documentation is required
33 for pay purposes.

34
35 The work/rest guidelines do not apply to aircraft pilots assigned to an incident.
36 Pilots must abide by applicable Federal Aviation Administration (FAA)
37 guidelines, or agency policy if more restrictive.

38 39 **Length of Assignment**

40 41 **Assignment Definition**

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

45
46

1 **Length of Assignment**

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

6
7 **Days Off**

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

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

22
23 Contract resources are not entitled to paid day(s) off upon release from the
24 incident or at their point of hire.

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

31
32 **Assignment Extension**

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

- 36 • Assignments may be extended when:
- 37 ➤ Life and property are imminently threatened.
 - 38 ➤ Suppression objectives are close to being met.
 - 39 ➤ A military battalion is assigned.
 - 40 ➤ Replacement resources are unavailable, or have not yet arrived.

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

46

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

8 **Single Resource/Kind Extensions**

9 The section chief or incident commander will identify the need for assignment
10 extension and will obtain the affected resource's concurrence. The section chief
11 and affected resource will acquire and document the home unit supervisor's
12 approval.

13
14 The incident commander approves the extension. If a convened geographic or
15 national multi-agency coordinating group (GMAC/NMAC) directs, the incident
16 commander approves only after GMAC/NMAC concurrence.

17
18 If the potential exists for reassignment to another incident during the extension,
19 the home unit supervisor and affected resource will be advised and must concur
20 prior to reassignment.

22 **Incident Management Team Extensions**

23 Incident management team extensions are to be negotiated between the incident
24 agency administrator, the incident commander, and the GMAC/NMAC (if
25 directed).

27 **Management Directed Days Off at Home Unit**

28 Supervisors must manage work schedules for initial attack, dispatch and incident
29 support personnel during extended incident situations. During periods of non-
30 routine or extended activity, these employees will have a minimum of 1 day off
31 in any 21-day period.

33 **Driving Standard**

34
35 All employees driving motor vehicles are responsible for the proper care,
36 operation, maintenance and protection of the vehicle. The use of government-
37 owned, rented, or leased motor vehicles is for official business only.
38 Unauthorized use is prohibited.

40 **General Driving Policy**

- 41 • Employees must have a valid state driver's license in their possession for
42 the appropriate vehicle class before operating the vehicle. Operating a
43 government-owned or rental vehicle without a valid state driver's license is
44 prohibited.

- 1 • All drivers whose job duties require the use of a motor vehicle will receive
2 initial defensive driver training within three months of entering on duty and
3 refresher driver training every three years thereafter.
- 4 • The operator and all passengers are required to wear seat belts and obey all
5 federal and state laws.
- 6 • All traffic violations or parking tickets will be the operator's responsibility.
- 7 • All driving requiring a CDL will be performed in accordance with
8 applicable Department of Transportation regulations.
- 9 • Seat belts must be available and used in agency motor vehicles. Without
10 exception, seat belts must be worn at all times by motor vehicle operators
11 and passengers, regardless of the distance to be traveled or the time
12 involved. If any employee fails to fasten their seat belt while riding in a
13 vehicle on official business, they are subject to disciplinary action as
14 determined by local management.
- 15 • Employees operating any motor vehicle with a GVWR of 26,000 pounds or
16 more, towing a vehicle 10,000 pounds GVWR or more, hauling hazardous
17 material requiring the vehicle to be placarded, or transporting 16 or more
18 persons (including the driver) must possess a valid Commercial Drivers
19 License (CDL) with all applicable endorsements.
- 20 • *BLM - All employees operating a Government motor vehicle will be
21 required to submit Form DI-131 (Application for U.S. Government Motor
22 Vehicle Operator's Identification Card) and OF-345 (Physical Fitness
23 Inquiry for Motor Vehicle Operators). When the supervisor signs the DI-
24 131, the employee is authorized to operate Government-owned or leased
25 vehicles, or privately-owned vehicles on official business. Individual office
26 forms equivalent to the OF-345 and DI-131 are acceptable.*
- 27 • *FS - Policy requires all operators of government owned, or leased vehicles
28 to have a Forest Service issued Operator's Identification Card (OF-346)
29 indicating the type of vehicles or equipment the holder is authorized and
30 qualified to operate.*
- 31 • *BLM/FWS/NPS – The DOI has granted wildland fire agencies a waiver to
32 allow employees between the ages of 18 and 21 to operate agency
33 commercial fire vehicles using a state issued CDL under the specific
34 conditions as stated below:*
 - 35 ➤ *Drivers with a CDL may only drive within the state that has issued the
36 CDL and must comply with the state's special requirements and
37 endorsements.*
 - 38 ➤ *These drivers must only drive vehicles that are equipped with visible
39 and audible signals, and are easily recognized as fire fighting
40 equipment. This excludes, but is not limited to, school buses used for
41 crew transport and "low-boy" tractor trailers used for construction
42 equipment transport.*
 - 43 ➤ *Supervisors must annually establish and document that these drivers
44 have a valid license (i.e. that the license has not been suspended,
45 revoked, canceled, or that the employee has not been otherwise*

1 *unqualified from holding a license - 485 DM 16.3.B (1), ensure that the*
2 *employee has the ability to operate the vehicle(s) safely in the*
3 *operational environment assigned (485 DM 16.3.B (2), and review and*
4 *validate the employee's driving record (485 DM 16.3.B(4)).*

6 **Non-Incident Operations Driving**

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

9 **Mobilization and Demobilization**

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

14 **Incident Operations Driving**

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

- 19 ● Agency resources assigned to an incident or engaged in initial attack fire
20 response will adhere to the current agency work/rest policy for determining
21 length of duty day.
- 22 ● No driver will drive more than 10 hours (behind the wheel) within any duty-
23 day.
- 24 ● Multiple drivers in a single vehicle may drive up to the duty-day limitation
25 provided no driver exceeds the individual driving (behind the wheel) time
26 limitation of 10 hours.
- 27 ● A driver shall drive only if they have had at least 8 consecutive hours off
28 duty before beginning a shift. Exception to the minimum off-duty hour
29 requirement is allowed when essential to:
 - 30 ➤ Accomplish immediate and critical suppression objectives.
 - 31 ➤ Address immediate and critical firefighter or public safety issues.
- 32 ● As stated in the current agency work/rest policy, documentation of
33 mitigation measures used to reduce fatigue is required for drivers who
34 exceed 16 hour work shifts. This is required regardless of whether the
35 driver was still compliant with the 10 hour individual (behind the wheel)
36 driving time limitations.
- 37 ● *FWS/NPS - Program funds are authorized to pay for the cost of CDL*
38 *licensing fees and exams, necessary for employees to operate fire*
39 *equipment, with one exception. That exception involves those cases where a*
40 *test has been failed and must be retaken, in which case the employee will be*
41 *responsible for costs associated with additional testing.*

43 **Fire Vehicle Operation Standards**

44 Operators of all vehicles must abide by state traffic regulations. Operation of all
45 vehicles will be conducted within the limits specified by the manufacturer.
46 Limitations based on tire maximum speed ratings and Gross Vehicle Weight

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1 restrictions must be followed. It is the vehicle operator's responsibility to
2 ensure vehicles abide by these and any other limitations specified by agency or
3 state regulations.

5 **Wildland Fire Field Attire**

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

12 **Wildland Fire Boot Standard**

13 Personnel assigned to wildland fires must wear a minimum of 8-inch high, lace-
14 type exterior leather work boots with Vibram-type, melt-resistant soles. The 8-
15 inch height requirement is measured from the bottom of the heel to the top of the
16 boot. Alaska is exempt from the Vibram-type sole requirement. All boots that
17 meet the footwear standard as described above are authorized for firefighting.

18
19 The boots are a condition of employment for firefighting positions and are
20 purchased by the employee prior to employment.

- 21 • *FWS - Red carded FWS firefighters will be provided a set amount of station*
22 *funding (as determined by each region), toward the purchase of approved*
23 *wildland fire boots, not more than once every three years. Emergency or*
24 *casual firefighters will provide their own boots.*
- 25 • *NPS - Government funds will be utilized for purchase of wildland fire boots*
26 *for those employees currently red carded/certified in positions which*
27 *require wildland and prescribed fireline duties. The individual employee*
28 *must be available to perform those duties when assigned; if not routinely*
29 *available for park fire assignments, fire funds should not be used to*
30 *purchase boots for that employee.*
- 31 • *NPS - Fire funds, not to exceed \$100 a pair, may be used to purchase or*
32 *repair boots. Other government funds, such as from safety, protection or*
33 *maintenance accounts, may also be used for purchase or to augment fire*
34 *funds, dependent on local management direction. Costs to repair boots not*
35 *damaged on fire should be charged to other appropriate accounts.*
- 36 • *NPS - It is the responsibility of the local FMO to determine those*
37 *employees requiring boots and the frequency of necessary replacement or*
38 *repair. Boots will be considered similar to uniform items and will not be*
39 *subject to cache item return, due to health, sanitation, and individual sizing*
40 *considerations.*

42 **Personal Protective Equipment (PPE)**

43
44 All personnel are required to use Personal Protective Equipment (PPE)
45 appropriate for their duties and/or as identified in JHAs/RAs. Employees must
46 be trained to use safety equipment effectively. PPE devices will be used only

1 when equipment guards, engineering controls, or management control do not
2 adequately protect employees.

3
4 Aramid clothing should be cleaned or replaced whenever soiled, especially
5 when soiled with petroleum products. Aramid clothing will be replaced when
6 the fabric is so worn as to reduce the protection capability of the garment or is so
7 faded as to significantly reduce the desired visibility qualities.

8
9 Any modification to personal protective equipment that reduces its protection
10 capability such as iron-on logos, and tagging of pants, is an unacceptable
11 practice and will not be allowed on fires.

12

13 **Required Fireline PPE includes:**

- 14 ● Fire shelter
- 15 ● Hard hat with chinstrap
- 16 ● Goggles/safety glasses as identified by JHAs/RAs)
- 17 ● Ear plugs/hearing protection
- 18 ● Yellow long-sleeved aramid shirt
- 19 ● Aramid trousers
- 20 ● Leather or leather/flare resistant combination gloves. Flight gloves are not
21 approved for fireline use.
- 22 ● Additional PPE as identified by local conditions, material safety data sheet
23 (MSDS), or JHA/RA
- 24
- 25 ● *FS- Shirt, trousers, and gloves used by USFS personnel must meet Forest
26 Service specification 5100-91 (shirt), 5100-92 (trousers), 6170-5 (gloves),
27 or be certified to the National Fire Protection Association (NFPA) 1977,
28 Standard on Protective Clothing and Equipment for Wildland Fire
29 Fighting.*

30

31 **Fire Shelters**

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

35

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

40

41 Training shelters will be deployed at required Annual Fireline Safety Refresher
42 Training. No live fire exercises for the purpose of fire shelter deployment
43 training will be conducted.

44

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

8

9 **Head Protection**

10 Personnel must be equipped with hard hats and wear them at all times while on
11 the fireline. Hard hats must be equipped with a chinstrap, which must be
12 fastened while riding in, or in the vicinity of, helicopters.

13 Acceptable hardhats for fireline use are:

- 14 • “Helmet, Safety, Plastic” (NFES #0109, NSN 8415-01-055-2265) listed in
15 *NWCG National Fire Equipment System Catalog: Part 1, Fire Supplies and*
16 *Equipment, or*
- 17 • equivalent hardhat meeting the (NFPA) 1977 *Standard on Protective*
18 *Clothing and Equipment for Wildland Fire Fighting* requirements, or
- 19 • equivalent hardhat meeting ANSI Z89.1-2003 Type 1, Class G or ANSI
20 Z89.1-2009 Type 1, Class G.

21

22 Hard hats consist of two components - the shell and the suspension - which work
23 together as a system. Alteration of either of these components compromises the
24 effectiveness of the system (e.g. wearing hardhat backwards) and is not allowed.

25 Both components require periodic inspection and maintenance. The useful
26 service life begins when the hardhat is put into service, not the manufacture date
27 specified on the hardhat. Specific inspection and maintenance instructions are
28 found in Missoula Technology and Development Center (MTDC) Tech Tip
29 publication, *Your Hardhat: Inspection and Maintenance* (0267-2331-MTDC).
30 <http://www.fs.fed.us/t-d/pubs/htmlpubs/htm02672331/index.htm>.

31

32 **Eye and Face Protection**

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

- 35 • Nozzle operator
- 36 • Chainsaw operator/faller
- 37 • Helibase and ramp personnel
- 38 • Wildland fire chemical mixing personnel
- 39 • Other duties may require eye protection as identified in a specific JHA/RA

40

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

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Hearing Protection

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

- Chainsaw operators/fallers.
- Pump operators.
- Helibase and aircraft ramp personnel.
- Wildland fire chemical mixing personnel.
- Any other personnel exposed on a regular basis to damaging noise levels.

Other duties may require hearing protection as identified in a specific JHA/RA.

Employees may be required to be placed under a hearing conservation program as required by 29 CFR 1910.95. Consult with local safety & health personnel for specifics regarding unit hearing conservation program.

- *DOI - Employees may be placed under a hearing conservation program as identified in approved Medical Standards Program waivers or risk mitigation decision memorandum.*

Neck Protection

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

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

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

Leg Protection

All chainsaw operators will wear chainsaw chaps meeting the United States Forest Service Specification 6170-4F or 4G. All previous Forest Service specification chainsaw chaps must be removed from service. Chainsaw chaps shall be maintained in accordance with MTDC Publication, *Inspecting and Repairing Your Chainsaw Chaps - User Instructions* (0567-2816-MTDC)

<http://www.fs.fed.us/t-d/pubs/htmlpubs/htm05672816/page01.htm>

Respiratory Protection

Personal protective equipment, including respiratory protection, should only be implemented once engineering and administrative controls are exhausted. The need for respiratory protection during wildland fire operations must be determined by each agency. The requirements for respirator use are found in 29 CFR Part 1910.134.

- 1 Only NIOSH-approved respirators shall be used. Several respiratory-type
2 products are marketed to wildland firefighters but are not NIOSH-approved (e.g.
3 shrouds with filtration devices).
- 4 • *FS - FSM - 5135.3 - Self-Contained Breathing Apparatus - Wildland*
5 *firefighters may use only SCBA which are compliant with NFPA 1981,*
6 *Standard on Open-Circuit Self-Contained Breathing Apparatus (SCBA) for*
7 *Emergency Services. SCBA may only be used when contaminants from*
8 *vehicle, dump, structure, or other non-wildland fuel fire cannot be avoided*
9 *while meeting wildland fire suppression objectives (29 CFR 1910.134,*
10 *Respiratory Protection). If such an apparatus is not available, avoid*
11 *exposure to smoke from these sources. The acquisition, training, proper*
12 *use, employee health surveillance programs, inspection, storage, and*
13 *maintenance of respiratory protection equipment must comply with*
14 *applicable National Fire Protection Association standards and 29 CFR*
15 *1910.134, and be justified by a Job Hazard Analysis. Where the acquisition*
16 *and use of an SCBA is approved, it may be carried only on a fire engine and*
17 *its use must be consistent with FSM 5130.*

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

20 Specialized PPE not routinely supplied by the agency required to perform a task
21 safely must be ordered in accordance with agency direction.

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

31 **High Visibility Vests**

32 In order to meet 23 CFR 655, high visibility apparel should be worn whenever a
33 firefighter is working on or in the right of way of a public roadway.

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

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

40
41 Employees must wear high visibility safety apparel that meets ANSI/ISEA 107-
42 2004, Class 2 or 3, or ANSI/ISEA 207-2006.

43
44 Apparel, including vests, that meets ANSI/ISEA 107-2004 and ANSI/ISEA 207-
45 2006 currently does not meet the flame resistance requirements of the NFPA
46 Standard on Protective Clothing and Equipment for Wildland Fire Fighting.

1 Fireline Safety

2

3 Incident Briefings

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

10

11 LCES - A System for Operational Safety

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

- 14 • L - Lookout(s)
- 15 • C - Communication(s)
- 16 • E - Escape Route(s)
- 17 • S - Safety Zone(s)

18

19 Incident Safety Oversight

20 Agency administrators are responsible for safety oversight, and may request
21 additional safety oversight as needed.

22

23 Examples may include:

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

29

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

34

35 Location of Fire Camps and Plans to Remain in Place

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

- 43 • Documented risk assessment
- 44 • Trigger points
- 45 • Egress routes

- 1 • Transportation for all personnel
- 2 • Accountability for all personnel
- 3 • Those individuals not meeting 310-1 qualifications will be considered
- 4 escorted visitors as addressed elsewhere in this chapter.
- 5 • *FS - Plans, at a minimum shall also include:*
- 6 • *ICP protection strategy referenced in the IAP.*
 - 7 ➤ *Live-ability considerations including air quality, functionality of*
 - 8 *location and facilities, and safety factors for post burn conditions.*

10 **Emergency Medical Planning and Services**

12 **Incident Emergency Management Planning**

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

22 **Air Ambulance Coordination**

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

28 **Incident Emergency Medical Services**

29 Agencies will follow interim NWCG minimum standards for incident
30 emergency medical services as defined in appendix L (NWCG#011-2208) to
31 assist wildland fire incident commanders with determining the level and number
32 of emergency medical resources and related supplies needed based upon the
33 number of incident personnel. This standard as well as other incident medical
34 information can be found on the NWCG Incident Emergency Medical
35 Subcommittee website at:
36 <http://www.nwcg.gov/branches/pre/rmc/iems/index.html>

38 Incidents that have established Medical Units shall follow the direction as
39 outlined in *Interim NWCG Minimum Standards for Medical Units Managed By*
40 *NWCG Member Agencies*
41 http://www.nwcg.gov/branches/pre/rmc/iems/policyguides/minimum_stds_for_medical_units.pdf

44 Home units that choose to utilize and support higher level medical responders to
45 provide medical support for internal agency medical emergencies (beyond basic

1 first aid/CPR) may do so; however, certification and credentialing must follow
2 respective state laws and protocols.

3

4 **Standard Safety Flagging**

5

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

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

14

15 **Unexploded Ordnance**

16

17 General guidance is as follows: If Unexploded Ordnance (UXO) is suspected,
18 do not enter the area. Small arms (rifle and shotgun) munitions areas should be
19 flagged and avoided by fire personnel. For suspected larger munitions, the area
20 must be avoided by fire personnel and contact local law enforcement bomb
21 squad or nearest Department of Defense agency. Each unit will determine
22 which employees are authorized to enter known or potential hazardous
23 substance release sites, and the responsibility for these determinations remains
24 with each agency administrator. For additional UXO safety information, see
25 current IRPG.

26

27 **Hazardous Materials**

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

33 Follow the procedures in the IRPG.

- 34 • Treat each site as if it contains harmful materials.
- 35 • Do not handle, move, or open any container, breathe vapors, or make
36 contact with the material.
- 37 • Move a safe distance upwind from the site.
- 38 • Contact appropriate personnel. Generally, this is the Hazardous Materials
39 Coordinator for the local office.
- 40 • Firefighters need to immediately report H₂S or potential exposure and seek
41 immediate medical care.
- 42 • *BLM/FWS/NPS - Agencies require that all field personnel complete a First
43 Responder Awareness training. Firefighters are required to take an annual
44 refresher for Hazardous Material protocol.*

- 1 The following general safety rules shall be observed when working with
2 chemicals:
- 3 • Read and understand the Material Safety Data Sheets.
 - 4 • Keep the work area clean and orderly.
 - 5 • Use the necessary safety equipment.
 - 6 • Label every container with the identity of its contents and appropriate
7 hazard warnings.
 - 8 • Store incompatible chemicals in separate areas.
 - 9 • Substitute less toxic materials whenever possible.
 - 10 • Limit the volume of volatile or flammable material to the minimum needed
11 for short operation periods.
 - 12 • Provide means of containing the material if equipment or containers should
13 break or spill their contents.

14

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

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

- 19 • Firefighters shall receive annual oil and gas hazard recognition and
20 mitigation training.
- 21 • Local unit shall complete a JHA/RA for wildland fire suppression activities
22 in oil and gas areas and provide a copy with a briefing to all local and
23 incoming resources. See WFSTAR website for example of a RA.
24 <http://www.nifc.gov/wfstar/index.htm>.
- 25 • Establish Response Protocols which includes notification procedures to
26 respective oil and gas company(s).
- 27 • Ensure oil and gas resource advisors are consulted.
- 28 • Ensure that at least one member of each squad or engine crew is
29 knowledgeable in the use and data interpretation of the Hydrogen Sulfide
30 gas monitor. Training on the device will include at a minimum:
 - 31 ➤ Equipment charging and maintenance of sensors
 - 32 ➤ Startup, zeroing, calibration and bump testing procedures as
33 recommended by the manufacturer.
 - 34 ➤ How the monitor elicits a warning alarm (visual, auditory, vibration)
- 35 • Understand Peak Reading, Short Term Exposure Limits (STEL), and Time
36 Weighted Averages.
 - 37 ➤ Understand how to set the monitors alarm threshold.
- 38 • The monitor's alarm shall be set at the current American Conference on
39 Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (10
40 PPM 2008) and STEL (15 PPM 2008).
- 41 • If hydrogen sulfide gas (H₂S) is encountered, immediately disengage and
42 leave area.
- 43 • Do not establish incident base camps or staging areas in or near oil and gas
44 operations.

45

1 The following websites provide additional information and training recourses:

- 2 • http://www.nifc.gov/wfstar/oil_gas.htm
- 3 • <http://iirdb.wildfirelessons.net/main/Reviews.aspx>

4

5 **Responding to Wildland Fires in or Near Radioactive Locations**

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

11 The following websites provide this information and general guidelines:

- 12 • http://www.nifc.gov/policies/red_book/doc/RadiationDocument.pdf
- 13 • http://www.nifc.gov/policies/red_book/doc/RadiationGuidance.pdf

14

15 **Management Controls to Mitigate Exposure**

16 Agency safety and health policy states that personal protective equipment (PPE)
17 devices will be used only when equipment guards, engineering controls, or
18 management control does not adequately protect employees. To meet this
19 requirement:

- 20 • Managers and supervisors will not knowingly place wildland firefighters in
21 positions where exposure to toxic gases or chemicals that cannot be
22 mitigated and would require the use of self-contained breathing apparatus.
- 23 • Managers will not sign cooperative fire protection agreements that would
24 commit wildland firefighters to situations where exposure to toxic gases or
25 chemicals would require the use of self-contained breathing apparatus.
- 26 • Managers will avoid giving the appearance that their wildland fire
27 suppression resources are trained and equipped to perform structure,
28 vehicle, and dump fire suppression, to respond to hazardous materials
29 releases, or to perform emergency medical response for the public.

30

31 **Smoke and Carbon Monoxide**

32 Site specific hazards and mitigations need to be identified to reduce firefighter
33 exposure to smoke and potential carbon monoxide.

34

35 **Six Minutes for Safety Training**

36

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

42

43

44

45

46

1 Safety for Non-Operational 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. The
5 following standards apply to all visitors.

6

7 Visits to an Incident Base

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

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

14

15 Visits to the Fireline/RX Burns

16 Visits to the fireline must have the approval of the IC/Burn Boss.

- 17 • Visitors must maintain communications with the DIVS or appropriate
18 fireline supervisor of the area they are visiting.

19

20 Required PPE:

- 21 • Yellow long-sleeved aramid shirts.
- 22 • Aramid trousers.
- 23 • Hard hat with chinstrap.
- 24 • Leather or leather/flame resistant combination gloves. Flight gloves are not
25 approved for fireline use.
- 26 • Fire shelter.

27

28 Required field attire:

- 29 • Boots that meet the wildland fire boot standard
- 30 • Undergarments made of 100 percent or the highest possible content of
31 natural fibers, aramid, or other flame-resistant materials.

32

33 Required equipment/supplies:

- 34 • Hand tool.
- 35 • Water canteen.

36

37 Visits to the Fireline

38

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

41

42 Non-Escorted Visits

43 Visitors must have a minimum physical fitness level of “light”.

- 44 • Must have adequate communications and radio training.
- 45 • Completed the following training:

- 1 ➤ Introduction to Fire Behavior (S-190).
- 2 ➤ Firefighter Training (S-130).
- 3 ➤ Annual Fireline Safety Refresher Training.
- 4 ● Deviation from this requirement must be approved by the IC for other non-
- 5 escorted support personnel involved in vehicle operations or other support
- 6 functions on established roadways and working in areas which pose no fire
- 7 behavior threat.

8
9 The law enforcement physical fitness standard is accepted as equivalent to a
10 “light” WCT work category.

11

12 **Escorted Visits**

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

- 15 ● Visitors must receive training in the proper use of PPE.
- 16 ● Requirement for hand tool and water to be determined by escort.
- 17 ● Visitors must be able to walk in mountainous terrain and be in good
- 18 physical condition with no known limiting conditions.
- 19 ● Escorts must be minimally qualified as Single Resource Boss. Any
- 20 deviation from this requirement must be approved by the IC.

21

22 **Helicopter Observation Flights**

23 Visitors who take helicopter flights to observe fires must receive a passenger
24 briefing and meet the following requirements:

- 25 ● Required PPE:
 - 26 ➤ Flight helmet
 - 27 ➤ Leather boots
 - 28 ➤ Flame-resistant clothing
 - 29 ➤ All leather or leather and aramid gloves

30

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

33

34 **Fixed-Wing Observation Flights**

- 35 ● Required PPE:
- 36 ● No PPE is required for visitors and agency personnel who take fixed-wing
- 37 flights to observe fires. However, a passenger briefing is required, and the
- 38 flight level must not drop below 500 feet AGL.

39

40 **SAFENET**

41

42 SAFENET is a form, process, and method for reporting and resolving safety
43 concerns encountered in any aspect (e.g., preparedness, training, etc.) of
44 wildland fire or all hazard incident management. The information provided on

- 1 the form will provide important, safety-related data to the National Interagency
2 Fire Center, and determine long-term trends and problem areas.
3 The objectives of the form and process are:
- 4 • To provide immediate reporting and correction of unsafe situations or close
5 calls in wildland fire.
 - 6 • To provide a means of sharing safety information throughout the fire
7 community.
 - 8 • To provide long-term data that will assist in identifying trends.
 - 9 • Primarily intended for wildland and prescribed fire situations, however,
10 SAFENET can be used for training and all hazard events.

11
12 Individuals who observe or who are involved in an unsafe situation shall initiate
13 corrective actions if possible, and then report the occurrence using SAFENET.
14 You are encouraged, but not required, to put your name on the report.
15 Prompt replies to the originator (if name provided), timely action to correct the
16 problem, and discussion of filed SAFENETs at local level meetings encourage
17 program participation and active reporting.

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

- 24 • electronically at <http://safenet.nifc.gov>
- 25 • verbally by telephone at 1-888-670-3938.

26 27 **Accident/Injury Reporting**

28
29 The Occupational Safety and Health Administration (OSHA) mandates that all
30 accidents and injuries be reported in a timely manner. This is important for the
31 following reasons:

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

38
39 Employees are required to immediately report to their supervisor every job-
40 related accident. Managers and supervisors shall ensure that an appropriate
41 level of investigation is conducted for each accident and record all personal
42 injuries and property damage. Coordinate with your human resources office or
43 administrative personnel to complete appropriate Officer of Worker's
44 Compensation (OWCP) forms. Reporting is the responsibility of the injured
45 employee's home unit regardless of where the accident or injury occurred.

- 1 • *DOI- employees will report accidents using the Safety Management*
2 *Information System (SMIS) at <https://www.smis.doi.gov/>. Supervisors shall*
3 *complete SMIS report within six working days after the accident/injury.*
- 4 • *FS- employees will use the Safety and Health Information Portal System*
5 *(SHIPS) through the Forest Service Dashboard at*
6 *http://fsweb.asc.fs.fed.us/HRM/owcp/WorkersComp_index.php*

8 **Required Treatment for Burn Injuries**

9
10 The following standards will be used when any firefighter sustains burn injuries,
11 regardless of agency jurisdiction.

12
13 After on-site medical response, initial medical stabilization, and evaluation are
14 completed; the agency administrator or designee having jurisdiction for the
15 incident and/or firefighter representative (e.g. Crew Boss, Medical Unit Leader,
16 Compensations for Injury Specialist, etc.) should coordinate with the attending
17 physician to ensure that a firefighter whose injuries meet any of the following
18 burn injury criteria is immediately referred to the nearest regional burn center. It
19 is imperative that action is expeditious, as burn injuries are often difficult to
20 evaluate and may take 72 hours to manifest themselves. These criteria are based
21 upon American Burn Association criteria as warranting immediate referral to an
22 accredited burn center.

23
24 The decision to refer the firefighter to a regional burn center is made directly by
25 the attending physician or may be requested of the physician by the agency
26 administrator or designee having jurisdiction and/or firefighter representative.
27 The agency administrator or designee for the incident will coordinate with the
28 employee's home unit to identify a Workers Compensation liaison to assist the
29 injured employee with workers compensation claims and procedures.

30
31 Workers Compensation benefits may be denied in the event that the attending
32 physician does not agree to refer the firefighter to a regional burn center. During
33 these rare events, close consultation must occur between the attending physician,
34 the firefighter, the agency administrator or designee and/or firefighter
35 representative, and the firefighter's physician to assure that the best possible
36 care for the burn injuries is provided.

37 **Burn Injury Criteria**

- 39 • Partial thickness burns (second degree) involving greater than 5% Total
40 Body Surface Area (TBSA).
- 41 • Burns (second degree) involving the face, hands, feet, genitalia, perineum,
42 or major joints.
- 43 • Third-degree burns of any size are present.
- 44 • Electrical burns, including lightning injury are present.
- 45 • Inhalation injury is suspected.

- 1 • Burns are accompanied by traumatic injury (such as fractures).
- 2 • Individuals are unable to immediately return to full duty.
- 3 • When there is any doubt as to the severity of the burn injury, the
- 4 recommended action should be to facilitate the immediate referral and
- 5 transport of the firefighter to the nearest burn center.

6
7 A list of burn care facilities can be found at:
8 <http://www.blm.gov/nifc/st/en/prog/fire/im.html>.

9
10 For additional NWCG incident emergency medical information see:
11 <http://www.nwcg.gov/branches/pre/rmc/iems/index.html>

12 13 **Critical Incident Management**

14
15 The NWCG has published the *Agency Administrator's Guide to Critical*
16 *Incident Management* (PMS 926). This guide is designed as a working tool to
17 assist agency administrators with the chronological steps in managing a critical
18 incident. This document includes a series of checklists which outlines agency
19 administrators and other functional area's oversight and responsibilities. The
20 guide is not intended to replace local emergency plans or other specific guidance
21 that may be available, but should be used in conjunction with existing SOPs.
22 Local units should complete the guide and review and update at least annually.
23 This guide is only available electronically at:
24 <http://www.nwcg.gov/pms/pubs/pubs.htm>.

25 26 **Critical Incident Stress Management (CISM)**

27
28 A critical incident may be defined as a fatality or other event that can have
29 serious long term affects on the agency, its employees and their families or the
30 community. Such an event may warrant stress management assistance. The
31 local agency administrator may choose to provide CISM for personnel having
32 been exposed to a traumatic event.

33
34 The availability of CISM teams and related resources (e.g. defusing teams)
35 varies constantly - it is imperative that local units pre-identify CISM resources
36 that can support local unit needs. Some incident management teams include
37 personnel trained in CISM who can provide assistance. Further information is
38 provided in appendix Q.

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Chapter 08 Interagency Coordination & Cooperation

Introduction

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

National Wildland Fire Cooperative Agreements

USDOJ and USDA Interagency Agreement for Fire Management

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

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

DOI, USDA, and DOD Interagency Agreement

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

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

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

1 National Wildland Fire Management Structure

2

3 Wildland Fire Leadership Council (WFLC)

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

10

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

22

23 Fire Executive Council (FEC)

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

26

27 Members include the Director, USDA FS Fire & Aviation Management; the
28 Director, DOI Office of Wildland Fire Coordination; the BLM Assistant
29 Director, Office of Fire and Aviation Management; the NPS Associate Director,
30 Visitor and Resource Protection; the FWS Assistant Director, National Wildlife
31 Refuge System; the BIA Deputy Director, Trust and Services; the Associate
32 Director, DOI Aviation Management Division; the Administrator, DHS U. S.
33 Fire Administration; and the Chair, NWCG, in an ex officio capacity

34

35 Office of Wildland Fire Coordination (OWFC)

36 The OWFC is a Department of the Interior organization responsible for
37 managing, coordinating and overseeing the Department's wildland fire
38 management programs and policies. They include: smoke management,
39 preparedness, suppression, emergency stabilization and rehabilitation, rural fire
40 assistance, prevention, biomass, hazardous fuels, budget and financial
41 initiatives, and information technology. The OWFC also coordinates with
42 interagency partners including government and non-government groups.

43

44 National Wildfire Coordinating Group (NWCG)

45 The NWCG is made up of the USDA FS; four Department of the Interior
46 agencies: BLM, NPS, BIA, and the FWS; Intertribal Timber Council; U.S. Fire

1 Administration; and state forestry agencies through the National Association of
2 State Foresters (NASF). The mission of the NWCG is to provide leadership in
3 establishing and maintaining consistent interagency standards and guidelines,
4 qualifications, and communications for wildland fire management. Its goal is to
5 provide more effective execution of each agency's fire management program.
6 The group provides a formalized system to agree upon standards of training,
7 equipment, qualifications, and other operational functions.

8

9 **Multi-Agency Management and Coordination**

10

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

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

- 18 • Provide oversight of general business practices between the NMAC group
19 and the Geographic Area Multi-Agency Coordination groups.
- 20 • Establish priorities among geographic areas.
- 21 • Activate and maintain a ready reserve of national resources for assignment
22 directly by NMAC as needed.
- 23 • Implement decisions of the NMAC.

24

25 **Geographic Area Coordinating (GMAC) Groups**

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

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

35

36 **National Dispatch/Coordination System**

37

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

- 39 • National
- 40 • Geographic
- 41 • Local

42

43 Logistical dispatch operations occur at all three levels, while initial attack
44 dispatch operations occur primarily at the local level. Any geographic area or
45 local dispatch center using a dispatch system outside the three-tier system must

1 justify why a non-standard system is being used and request written
2 authorization from the DOI National Office or USFS Regional Office.

3

4 **National Interagency Coordination Center (NICC)**

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

13

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

19

20 **Geographic Area Coordination Centers (GACCs)**

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

26

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

32

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

37

38 **Local Dispatch Centers**

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

45

1 Local dispatch centers are also responsible for supplying intelligence
2 information relating to fires and resource status to their GACC and to their
3 agency managers and cooperators. Local dispatch centers may work for or with
4 numerous agencies, but should only report to one GACC.

5
6 Some local dispatch centers are also tasked with law enforcement and agency
7 administrative workloads for non-fire operations; if this is the case, a
8 commensurate amount of funding and training should be provided by the
9 benefiting activity to accompany the increased workload. If a non-wildland fire
10 workload is generated by another agency operating in an interagency dispatch
11 center, the agency generating the additional workload should offset this
12 increased workload with additional funding or personnel.

13 **Local and Geographic Area Drawdown**

14
15
16 Drawdown is the predetermined number and type of suppression resources that
17 are required to maintain viable initial attack (IA) capability at either the local or
18 geographic area. Drawdown resources are considered unavailable outside the
19 local or geographic area for which they have been identified. Drawdown is
20 intended to:

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

24
25 Although drawdown resources are considered unavailable outside the local or
26 geographic area for which they have been identified, they may still be
27 reallocated by the Geographic Area or National MAC to meet higher priority
28 obligations.

29 **Establishing Drawdown Levels**

30
31 Local drawdown is established by the local unit and/or the local MAC group and
32 implemented by the local dispatch office. The local dispatch office will notify
33 the Geographic Area Coordination Center (GACC) of local drawdown decisions
34 and actions.

35
36 Geographic area drawdown is established by the GMAC and implemented by
37 the GACC. The GACC will notify the local dispatch offices and the National
38 Interagency Coordination Center (NICC) of geographic area drawdown decision
39 and actions.

40 **National Ready Reserve (NRR)**

41
42
43 NRR is a means by which the NMAC identifies and readies specific categories,
44 types and quantities of fire suppression resources in order to maintain overall
45 national readiness during periods of actual or predicted national suppression
46 resource scarcity.

- 1 NRR implementation responsibilities are as follows:
- 2 • NMAC establishes national ready reserve requirements by resource
 - 3 category, type and quantity.
 - 4 • NICC implements NMAC intent by directing individual GACCs to place
 - 5 specific categories, types, and quantities of resources on national ready
 - 6 reserve.
 - 7 • GACCs direct local dispatch centers and/or assigned IMTs to specifically
 - 8 identify resources to be placed on national ready reserve.
 - 9 • GACCs provide NICC specific names of national ready reserve resources.
 - 10 • NICC mobilizes national ready reserve assets through normal coordination
 - 11 system channels as necessary.

12
13 National ready reserve resources must meet the following requirements:

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

22
23 NMAC will adjust ready reserve requirements as needed. Furthermore, in order

24 to maintain national surge capability, the NMAC may retain available resources

25 within a geographic area, over and above the established geographic area

26 drawdown level.

27 **National Interagency Mobilization Guide**

28
29
30 The *National Interagency Mobilization Guide* (NFES 2092) identifies standard

31 procedures which guide the operations of multi-agency logistical support

32 activity throughout the coordination system. The guide is intended to facilitate

33 interagency dispatch coordination, ensuring timely and cost effective incident

34 support. Local and Geographic Area Mobilization Guides should be used to

35 supplement the *National Interagency Mobilization Guide*.

36 **Interagency Incident Business Management Handbook**

37
38
39 All federal agencies have adopted the NWCG *Interagency Incident Business*

40 *Management Handbook* (IIBMH) as the official guide to provide execution of

41 each agency's incident business management program. Unit offices, geographic

42 areas, or NWCG may issue supplements, as long as policy or conceptual data is

43 not changed.

44

1 Since consistent application of interagency policies and guidelines is essential,
2 procedures in the IIBMh will be followed. Agency manuals provide a bridge
3 between manual sections and the IIBMh so that continuity of agency manual
4 systems is maintained and all additions, changes, and supplements are filed in a
5 uniform manner.

- 6 • **BLM** - *The IIBMh replaces BLM Manual Section 1111.*
- 7 • **FWS** - *Refer to Service Manual 095 FW 3 Wildland Fire Management.*
- 8 • **NPS** - *Refer to RM-18.*
- 9 • **FS** - *Refer to FSH 5109.34.*

10

11 **Standards for Cooperative Agreements**

12

13 **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.

18

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.

23

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.

27

28 All agreements must undergo periodic joint review; and, as appropriate,
29 revision.

30

31 Assistance in preparing agreements can be obtained from local or state office
32 fire and/or procurement staff.

33

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

- 36 • **BLM** - *BLM Manual 9200, Departmental Manual 620 DM, the Reciprocal*
37 *Fire Protection Act, 42 U.S.C. 1856, and the Federal Wildland Fire*
38 *Management Policy and Program Review.*
- 39 • **FWS** - *Service Manual, Departmental Manual 620 DM, and Reciprocal*
40 *Fire Protection Act, 42U.S.C. 1856.*
- 41 • **NPS** - *Chapter 2, Federal Assistance and Interagency Agreements*
42 *Guideline (DO-20), and the Departmental Manual 620 (DM-620). NPS-*
43 *RM-18, Interagency Agreements, Release Number 1, 02/22/99.*
- 44 • **FS** - *FSM 1580, 5106.2 and FSH 1509.11.*

45

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

12 Regional/State Interagency Agreements

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

16

17 Local Interagency Agreements

18 Local units are responsible for developing agreements with local agencies and
19 fire departments to meet mutual needs for suppression and/or prescribed fire
20 services.

21

22 Emergency Assistance

23 Approved, established reimbursable agreements are the appropriate and
24 recommended way to provide emergency assistance. If no agreements are
25 established, refer to your agency administrator to determine the authorities
26 delegated to your agency to provide emergency assistance.

27

28 Contracts

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

34

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

38

39 Elements of an Agreement

40

41 The following elements should be addressed in each agreement:

- 42 ● The authorities appropriate for each party to enter in an agreement.
- 43 ● The roles and responsibilities of each agency signing the agreement.
- 44 ● An element addressing the cooperative roles of each participant in
45 prevention, pre-suppression, suppression, fuels, and prescribed fire
46 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
10 to a single frequency or establish a common communications link as soon
11 as 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)
34 accept each other’s standards. Once jurisdiction is clearly established,
35 then the standards of the agency(s) with jurisdiction prevail.
36 ➤ Prior to the fire season, federal agencies should meet with their state,
37 local, and tribal agency partners and jointly determine the
38 qualification/ certification standards that will apply to the use of local,
39 non-federal firefighters during initial action on fires on lands under the
40 jurisdiction of a federal agency.
41 ➤ The Geographic Area Coordinating Group should determine the
42 application of 310-1 qualification/certification standards for
43 mobilization within the geographic area.
44 ➤ On a fire where a non-federal agency is also an agency with legal
45 jurisdiction, the standards of that agency apply.

1 The AOP should address qualification and certification standards applicable to
2 the involved parties.

3 • **Reimbursement/Compensation**

4 Compensation shall be as close to actual expenditures as possible. This
5 should be clearly identified in the AOP. Vehicles and equipment operated
6 under the federal excess property system will only be reimbursed for
7 maintenance and operating costs.

8 • **Cooperation**

9 The annual operating plan will be used to identify how the cooperators will
10 share expertise, training, and information on items such as prevention,
11 investigation, safety, and training.

12 • **Agency Reviews and Investigations**

13 Annual operating plans should describe processes for conducting agency
14 specific reviews and investigations.

15 • **Dispatch Centers**

16 Dispatch centers will ensure all resources know the name of the assigned IC
17 and announce all changes in incident command. Geographic Area
18 Mobilization Guides, Zone Mobilization Guides and Local Mobilization
19 Guides should include this procedure as they are revised for each fire
20 season.

21

22 **Fiscal Responsibility Elements of an AOP**

23 Annual Operating Plans should address the following:

- 24 • The level of communication required with neighboring jurisdictions
25 regarding the management of all wildland fires, especially those with
26 objectives that include benefit.
- 27 • The level of communication required with neighboring jurisdictions
28 regarding suppression resource availability and allocation, especially for
29 wildland fires with objectives that include benefit.
- 30 • Identify how to involve all parties in developing the strategy and tactics to
31 be used in preventing wildland fire from crossing the jurisdictional
32 boundary, and how all parties will be involved in developing mitigations
33 which would be used if a wildland fire does cross jurisdictional boundaries.
- 34 • Jurisdictions, which may include state and private lands, should identify the
35 conditions under which wildland fire may be managed to achieve benefit,
36 and the information or criteria that will be used to make that determination
37 (e.g. critical habitat, hazardous fuels and land management planning
38 documents).
- 39 • Jurisdictions will identify conditions under which cost efficiency may
40 dictate where suppression strategies and tactical actions are taken (i.e. it
41 may be more cost effective to put the containment line along an open
42 grassland than along a mid-slope in timber). Points to consider include loss
43 and benefit to land, resource, social and political values, and existing legal
44 statutes.

- 1 • The cost-sharing methodologies that will be utilized should wildfire spread
2 to a neighboring jurisdiction in a location where fire is not wanted.
- 3 • The cost-share methodologies that will be used should a jurisdiction accept
4 or receive a wildland fire and manage it to create benefit.
- 5 • Any distinctions in what cost-share methodology will be used if the reason
6 the fire spreads to another jurisdiction is attributed to a strategic decision,
7 versus environmental conditions (weather, fuels, and fire behavior) or
8 tactical considerations (firefighter safety, resource availability) that preclude
9 stopping the fire at jurisdictional boundaries. Examples of cost-sharing
10 methodologies may include, but are not limited to, the following:
 - 11 ➤ When a wildland fire that is being managed for benefit spreads to a
12 neighboring jurisdiction because of strategic decisions, and in a
13 location where fire is not wanted, the managing jurisdiction shall be
14 responsible for wildfire suppression costs.
 - 15 ➤ In those situations where weather, fuels, or fire behavior of the
16 wildland fire precludes stopping at jurisdiction boundaries cost-share
17 methodologies may include, but are not limited to:
 - 18 a) Each jurisdiction pays for its own resources – fire suppression
19 efforts are primarily on jurisdictional responsibility lands,
 - 20 b) Each jurisdiction pays for its own resources – services rendered
21 approximate the percentage of jurisdictional responsibility, but not
22 necessarily performed on those lands,
 - 23 c) Cost share by percentage of ownership,
 - 24 d) Cost is apportioned by geographic division. Examples of
25 geographic divisions are: Divisions A and B (using a map as an
26 attachment); privately owned property with structures; or specific
27 locations such as campgrounds,
 - 28 e) Reconciliation of daily estimates (for larger, multi-day incidents).
29 This method relies upon daily agreed to cost estimates, using Incident
30 Action Plans or other means to determine multi-Agency
31 contributions. Reimbursements can be made upon estimates instead
32 of actual bill receipts.

33
34 For further information, refer to *NWCG Memorandum #009-2009 Revisions to*
35 *the Annual Operating Plans for Master Cooperative Fire and Stafford Act*
36 *Agreements due to Implementation of Revised Guidance for the Implementation*
37 *of Federal Wildland Fire Management Policy, April 13, 2009*
38

39 **Domestic Non-Wildland Fire Coordination and Cooperation**

40 **Homeland Security Act**

41 The Homeland Security Act of 2002 (Public Law 107-296) established the
42 Department of Homeland Security (DHS) with the mandate and legal authority
43 to protect the American people from the continuing threat of terrorism. In the
44 act, Congress also assigned DHS as the primary focal point regarding natural
45 and manmade crises and emergency planning.
46

1 **Stafford Act Disaster Relief and Emergency Assistance**

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

13 **Homeland Security Presidential Directive-5**

14 Homeland Security Presidential Directive (HSPD-5), Management of Domestic
15 Incidents, February 28, 2003, is intended to enhance the ability of the United
16 States to manage domestic incidents by establishing a single, comprehensive
17 national incident management system. HSPD-5 designates the Secretary of
18 Homeland Security and the Principal Federal Official (PFO) for domestic
19 incident management and empowers the Secretary to coordinate Federal
20 resources used in response to or recovery from terrorist attacks, major disasters,
21 or other emergencies in specific cases.
22

23 **National Response Framework**

24 Federal disaster relief and emergency assistance are managed under the
25 Department of Homeland Security/Emergency Preparedness and
26 Response/Federal Emergency Management Agency (DHS/EPR/FEMA) using
27 the National Response Framework (NRF). The NRF, using the National
28 Incident Management System (NIMS), establishes a single, comprehensive
29 framework for the management of domestic incidents. The NRF provides the
30 structure and mechanisms for the coordination of federal support to state, local,
31 and tribal incident managers; and for exercising direct federal authorities and
32 responsibilities. Information about the National Response Framework can be
33 found at: <http://www.fema.gov/emergency/nrf/index.htm>
34

35 **National Incident Management System (NIMS)**

36 HSPD-5 directed that the DHS Secretary develop and administer a National
37 Incident Management System to provide a consistent, nationwide approach for
38 Federal, State, and local governments to work effectively and efficiently
39 together to prepare for, respond to, and recover from domestic incidents,
40 regardless of cause, size, or complexity. To provide for interoperability and
41 compatibility among federal, state, and local capabilities, the NIMS will include
42 a core set of concepts, principles, terminology, and technologies covering the
43 incident command system; multi-agency coordination systems; unified
44 command; training; identification and management of resources (including
45 systems for classifying types of resources); qualifications and certification; and

1 the collection, tracking, and reporting of incident information and incident
2 resources.

3

4 **Emergency Support Function (ESF) Annexes**

5 Emergency Support Function (ESF) Annex is the component of the NRF that
6 details the mission, policies, structures, and responsibilities of federal agencies.
7 They are utilized for coordinating resource and programmatic support to the
8 states, tribes, and other federal agencies or other jurisdictions and entities during
9 Incidents of National Significance. Each ESF Annex identifies the ESF
10 coordinator and the primary and support agencies pertinent to the ESF. The
11 primary agency serves as a federal executive agent under the Federal
12 Coordinating Officer to accomplish the ESF mission. Support agencies, when
13 requested by the DHS or the designated ESF primary agency, are responsible for
14 conducting operations using their own authorities, subject-matter experts,
15 capabilities, or resources. Except for Alaska, USDA-FS is the coordinator and
16 primary agency for ESF #4 - Firefighting. For ESF #4 operations that occur in
17 the State of Alaska, the operational lead is the Department of the Interior
18 (DOI)/Bureau of Land Management. See
19 <http://www.fema.gov/pdf/emergency/nrf/nrf-esf-04.pdf> for further information.

20

21 Other USDA-FS and DOI responsibilities are:

ESF Support Annex	USDA Role	DOI Role
#01 Transportation	Support	Support
#02 Communications	Support	Support
#03 Public Works and Engineering	Support	Support
#04 Firefighting	Coord. & Primary	Support
#05 Emergency Management	Support	Support
#06 Mass Care, Emergency Assistance, Housing, & Human Services	Support	Support
#07 Logistics Management and Resources Support	Support	
#08 Public Health and Medical Services	Support	
#09 Search and Rescue	Support	Primary
#10 Oil and HazMat Response	Support	Support
#11 Agriculture and Natural Resources		Primary
#12 Energy		Support
#13 Public Safety and Security	Support	Support
#14 Long-term Community Recovery		Support
#15 External Affairs		Support

22

1 Non-Stafford Act Non-Wildland Fire Coordination and Cooperation

2 In an actual or potential Incident of National Significance that is not
3 encompassed by the Stafford Act, the President may instruct a federal
4 department or agency, subject to any statutory limitations on the department or
5 agency, to utilize the authorities and resources granted to it by Congress. In
6 accordance with Homeland Security Presidential Directive-5, federal
7 departments and agencies are expected to provide their full and prompt support,
8 cooperation, available resources, consistent with their own responsibilities for
9 protecting national security.

10

11 International Wildland Fire Coordination and Cooperation

12

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

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

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

24

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

33

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

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

41

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

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

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

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

6 7 **International Disasters Support**

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

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

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

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Chapter 09

Fire Management Planning

Policy and Implementation

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

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

Purpose

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

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

For an example of FMP templates, see:

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

Wildland Fire Management Objectives

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

1 Concepts and Definitions

2

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

8

9 Land/Resource Management Plan

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

16

17 Fire Management Plan

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

24

25 Fire Management Unit

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

33

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

40

41 Wildland Fire

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

44

45

46

1 Fire Type

2 Wildland fires are categorized into two distinct types:

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

7 Response to Wildland Fire

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

12
13 Management response to a wildland fire on federal land is based on objectives
14 established in the applicable L/RMP and FMP. Initial response to human-
15 caused wildfires will be to suppress the fire at the lowest cost with the fewest
16 negative consequences with respect to firefighter and public safety.

17
18 Response to wildland fires is based on ecological, social and legal consequences
19 of the fire. The appropriate response to the fire is dictated by:

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

24 Initial Response

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

30 Initial Attack

31 This type of initial response is an aggressive action to put the fire out consistent
32 with firefighter and public safety and values to be protected.

34 Extended Attack

35 Suppression activity for a wildfire that has not been contained or controlled by
36 initial attack or contingency forces and for which more firefighting resources are
37 arriving, en route, or being ordered by the initial attack incident commander.

38 See *NWCG Glossary of Wildland Fire Terminology, November 2008*.

40 Wildfire Suppression

41 Management action to extinguish a fire or confine fire spread.

42
43 Human caused wildland fires will be suppressed in every instance and will not
44 be managed for resource benefits.

Chapter 10 Preparedness

Preparedness

Preparedness is the result of activities that are planned and implemented prior to wildland fire ignitions. Preparedness is a continuous process that includes developing and maintaining unit, state/regional, and national level firefighting infrastructure, predicting fire activity, hiring, training, equipping, and deploying firefighters, evaluating performance, correcting deficiencies, and improving overall operations. The preparedness process includes routine pre-season actions as well as incremental in-season actions conducted in response to increasing fire danger.

Preparedness actions are based on operational plans such as Fire Danger Operating Plans (FDOPs). FDOPs use information from decision support tools such as the National Fire Danger Rating System (NFDRS), the Canadian Forest Fire Danger Rating System (CFFDRS, used in interior Alaska), the Palmer Drought Index, live fuel moisture data, monthly or seasonal wildland fire outlooks, seasonal climate forecasts, and wildland fire risk analyses.

Fire Danger Operating Plan

A Fire Danger Operating Plan is a fire danger applications guide for agency users at the local level. A Fire Danger Operating Plan documents the establishment and management of the local unit fire weather station network and describes how fire danger ratings are applied to local unit fire management decisions. FDOPs should be prepared by individuals trained at the Intermediate NFDRS (S-491) level, and preferably the Advanced NFDRS level. FDOPs are generally prepared for local interagency areas, such as a zone-wide operating plan. Interagency FDOPs are an integral component of unit fire management plan(s). Fire Danger Operating Plans may be packaged as either stand-alone documents or as part of a larger planning effort; such as a fire management plan.

Fire Danger Operating Plans include, but are not limited to, the following components:

- **Roles and Responsibilities**
Defined for those responsible for maintenance and daily implementation of the plan, program management related to the plan, and associated training. Training for development of fire danger rating areas is available through NWCG-sponsored NFDRS courses.
- **Operational Procedures**
This section establishes the procedures used to gather and process data in order to integrate fire danger rating information into decision processes. The network of fire weather stations whose observations are used to

- 1 determine fire danger ratings is identified. Station maintenance schedules
2 are defined as appropriate.
- 3 ➤ NFDRS offers several choices of fuel model and output to the user.
4 Distinct selections of fuel model and index/component are appropriate
5 for different management decisions (such as internal readiness or
6 industrial and public restrictions). The choice of NFDRS fuel model
7 and index or component used to determine fire danger ratings to
8 support particular decisions is explained in this section.
- 9 ➤ NFDRS requires periodic management in order to produce appropriate
10 results that are applied in a timely manner. Some daily observation
11 variables (such as state of the weather, fuels, red flags) are entered
12 manually. This procedure (often called “taking the weather”) also
13 initiates the calculation of daily and forecasted outputs in the Weather
14 Information Management System (WIMS) and ensures data storage in
15 the National Interagency Fire Management Integrated Database
16 (NIFMID). These efforts are coordinated with the local National
17 Weather Service fire weather meteorologists and Geographic Area
18 Coordination Center (GACC) predictive services meteorologists to
19 provide timely forecasted NFDRS outputs. Observed (afternoon) and
20 forecasted (tomorrow) NFDRS outputs are communicated daily. Live
21 fuel moisture model inputs (such as herbaceous vegetation stage,
22 season code, greenness factor) are adjusted seasonally in WIMS
23 (<http://fam.nwcg.gov/fam-web/>) at appropriate times. Decision points
24 (such as percentiles discussed below) are determined in FireFamily
25 Plus and reviewed and adjusted annually or more often as appropriate
26 in WIMS and/or other fire danger platforms.
- 27 • **Fire Danger Rating Inventory**
28 Identifies basic components of the operating plan such as dispatch response
29 areas, protection units, administrative units, fire history, land management
30 planning direction, standards, and guidelines, etc. Fire danger rating
31 inventory incorporates NFDRS fuel models, slope classes (topography), and
32 weather/climatology into fire danger rating areas; validates the existing
33 weather station network and identifies any additional stations to support fire
34 danger rating needs.
- 35 • **Climatic Breakpoints and Fire Business Thresholds**
36 Climatological breakpoints and fire business thresholds are established to
37 provide NFDRS-based decision points for all appropriate management
38 responses in a fire danger rating area. Climatological breakpoints are points
39 on the cumulative distribution of one fire weather/danger index computed
40 from climatology without regard for associated fire occurrence/business.
41 For example, the value of the 90th percentile ERC is the climatological
42 breakpoint at which only 10 percent of the ERC values are greater in value.
43 The percentiles for climatological breakpoints predetermined by agency
44 directive are shown below.
- 45

- 1 ➤ BLM - 80th and 95th percentiles
- 2 ➤ FWS/NPS/FS - 90th and 97th percentiles

3
4 It is equally important to identify the period or range of data analysis used to
5 determine the agency percentiles. The percentile values for 12 months of data
6 will be different from the percentile values for the fire season. Year round data
7 should be used for percentiles for severity type decisions, and percentiles based
8 on fire season data for staffing levels and adjective fire danger.

9
10 Fire business thresholds are values of one or more fire weather/fire danger
11 indexes that have been statistically related to occurrence of fires (fire business).
12 Generally the threshold is a value or range of values where historical fire
13 activity has significantly increased or decreased. Assuming historical climate
14 and occurrence patterns can be applied today, fire business thresholds are
15 expected to more closely predict significant fire occurrence than climatological
16 breakpoints.

17
18 Climatological breakpoints or fire business thresholds are used to compute
19 staffing levels and adjective fire danger ratings.

20 21 **Staffing Level**

22 The Staffing Level is used to make daily internal fire operations decisions. A
23 unit can operate with anywhere from 3 to 9 levels of staffing. Most units
24 typically use 5 (1,2,3,4,5) or 6 (1,2,3L,3H,4,5) levels. Staffing Level is a direct
25 output of the danger rating processor and is based on one of the following:

- 26 • NFDRS (Burning Index, Energy Release Component, Spread Component,
27 or Ignition Component)
- 28 • Keetch-Byram Drought Index

29 30 **Additional Considerations:**

- 31 • Palmer Drought Index or other drought index
- 32 • Live Fuel Moisture (calculated or sampled)
- 33 • Canadian Forest Fire Danger Rating System
- 34 • Soil Moisture

35 36 **Adjective Fire Danger Rating**

37 Adjective Fire Danger Rating (low, moderate, high, very high, extreme) is based
38 on the NFDRS index or component used to compute staffing level and the
39 ignition component. It is a general description of fire danger for the purpose of
40 informing the public. Adjective ratings are computed automatically in the
41 WIMS based on NFDRS parameters provided by local fire managers.

42
43 Climatological breakpoints and fire business thresholds are developed with
44 NFDRS software, such as FIREFAMILY PLUS, and are applied to appropriate
45 NFDRS processors, such as WIMS, to determine daily staffing levels and

1 adjective ratings. Training for the FIREFAMILY PLUS program is available at
2 local, regional, and national NFDRS courses.

3

4 **Fire Danger Pocket Card for Firefighter Safety**

5

6 The Fire Danger Pocket Card is used to communicate information on fire danger
7 to firefighters. The prime objective of the fire danger rating is to provide a
8 measure of the seriousness of local burning conditions. The Pocket Card
9 provides a visual reference of those conditions and how they compare to
10 previous fire seasons. Pocket Cards are developed and implemented according
11 to NWCG guidelines posted at:
12 <http://fam.nwcg.gov/fam-web/pocketcards/default.htm>

13

14 **Preparedness Plan**

15

16 Preparedness plans provide management direction given identified levels of
17 burning conditions, fire activity, and resource commitment, and are required at
18 national, state/regional, and local levels. Preparedness Levels (1-5) are
19 determined by incremental measures of burning conditions, fire activity, and
20 resource commitment. The fire danger rating is a critical measure of burning
21 conditions. Refer to the National Interagency Mobilization Guide for more
22 information on preparedness plans.

23

24 **Preparedness Level/Step-up Plans**

25 Preparedness Level/Step-up Plans are designed to direct incremental
26 preparedness actions in response to increasing fire danger. Those actions are
27 delineated by “staffing levels.” Each Step-Up Plan should address the five
28 preparedness levels (1, 2, 3, 4, and 5) and the corresponding planned actions that
29 are intended to mitigate those fire danger conditions. Several assessment tools
30 are available to measure fire danger.

31

32 Outputs from the fire danger rating operating plan process, such as staffing
33 levels, are used to support the decisions found in staffing plans, step-up staffing
34 plans, preparedness levels, dispatch response plans, dispatch response levels,
35 etc. Increasing fire danger results in increasing staffing levels, suggesting a
36 corresponding increase in preparedness actions intended to mitigate those fire
37 danger conditions.

38

39 The Staffing Plan describes escalating responses that are pre-approved in the fire
40 management plan. Mitigating actions are designed to enhance the unit’s fire
41 management capability during short periods (one burning period, Fourth of July
42 or other pre-identified events) where normal staffing cannot meet initial attack,
43 prevention, or detection needs. The difference between preparedness level/step-
44 up and severity is that preparedness level/step-up actions are established in the
45 unit fire management plan, and implemented by the unit when those pre-

1 identified conditions are experienced. Severity is a longer duration condition
2 that cannot be adequately dealt with under normal staffing, such as a killing frost
3 converting live fuel to dead fuel or drought conditions. Severity is discussed
4 later in this chapter.

5

6 Mitigating actions identified in the fire management plan should include, but are
7 not limited to, the following items:

- 8 • Management direction and considerations
- 9 • Fire prevention actions, including closures/restrictions, media messages,
10 signing, and patrolling
- 11 • Prepositioning suppression resources
- 12 • Cooperator discussion and/or involvement
- 13 • Safety considerations: safety message, safety officer
- 14 • Augmentation of suppression forces
- 15 • Support function: consideration given to expanded dispatch activation,
16 initial attack dispatch staffing, and other support needs (procurement,
17 supply, ground support, and communication)
- 18 • Support staff availability outside of fire organization
- 19 • Communication of Fire Weather Watch and Red Flag Warning conditions
- 20 • Fire danger/behavior assessment
- 21 • Briefings for management and fire suppression personnel
- 22 • Fire information - internal and external
- 23 • Multi-agency coordination groups/area command activation
- 24 • Prescribed fire direction and considerations
- 25 • Increased detection activities

26

27 **Seasonal Risk Analysis**

28 A Seasonal Risk Analysis (SRA) requires fire managers to review current and
29 predicted weather and fuels information, compare this information with historic
30 weather and fuels records, and predict the upcoming fire season's severity and
31 duration for any given area. It is important to incorporate drought indices into
32 this assessment.

33

34 Information from a SRA can be used to modify the Annual Operating Plan
35 (AOP), step-up and pre-attack plans. It provides the basis for actions such as
36 prepositioning critical resources, requesting additional funding, or modifying
37 Memoranda of Understanding (MOU) to meet anticipated needs.

38 Each unit selects, and compares to normal, the current value and seasonal trend
39 of one or more of the following indicators which are most useful in predicting
40 fire season severity and duration in its area:

- 41 • NFDRS (or CFFDRS) index values (ERC, BI)
- 42 • Temperature levels
- 43 • Precipitation levels
- 44 • Humidity levels

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- 1 ● Palmer Drought or Standardized Precipitation Index
- 2 ● 1000-hour fuel moisture (timber fuels)
- 3 ● Vegetation moisture levels
- 4 ● Live fuel moisture (brush fuels)
- 5 ● Curing rate (grass fuels)
- 6 ● Episodic wind events (moisture drying days)
- 7 ● Unusual weather events (early severe frost)
- 8 ● Fires to date
- 9
- 10 The seasonal trend of each selected indicator is graphically compared to normal
- 11 and all-time worst. This comparison is updated regularly and posted in dispatch
- 12 and crew areas.

13

14 If the SRA suggests an abnormal fire season might be anticipated, a unit should
15 notify the state/regional office and request additional resources commensurate
16 with the escalated risk. SRA for each geographic area are prepared, issued, and
17 updated each year by GACC Predictive Service staffs. These analyses consider
18 detailed information for each of the Predictive Services Areas (PSA) within the
19 geographic area.

20

21 Seasonal Assessment Workshops are conducted to facilitate these seasonal
22 outlook reports. Local risk analyses should be compiled at the state/regional
23 office to determine the predicted fire season severity within the state/region, and
24 then forwarded to the respective national office for use in determining national
25 fire preparedness needs. Risk analysis is ongoing. It should be reviewed
26 periodically and revised when significant changes in key indicators occur. All
27 reviews of seasonal risk analysis, even if no changes are made, should be
28 documented.

29

30 **Fire Severity Funding**

31

32 Fire severity funding is the authorized use of suppression operations funds
33 (normally used exclusively for suppression operations and distinct from
34 preparedness funds) for extraordinary preparedness activities that are required
35 due to:

- 36 ● Preparedness plans (fire management plan, fire danger operating plan,
37 annual operating plan, etc.) indicate the need for additional
38 preparedness/suppression resources. The plan(s) should identify thresholds
39 for severity needs.
- 40 ● Anticipated fire activity will exceed the capabilities of local resources.
- 41 ● Fire seasons that either start earlier or last longer than planned in the fire
42 management plan.
- 43 ● An abnormal increase in fire potential or danger not planned for in existing
44 preparedness plans.

1 The objective of fire severity funding is to mitigate losses by improving
2 suppression response capability.

3

4 When suppression resources acquired through the approved fire planning
5 process (e.g. NFMAS, IIAA, FPA) are insufficient to meet the extraordinary
6 need, suppression resources may be requested through the severity funding
7 process. Fire severity funding is not intended to raise preparedness funding
8 levels to cover differences that may exist between funds actually appropriated
9 and those identified in the fire planning process.

10

11 **Typical Uses**

12 Severity funds are typically used to:

- 13 • Increase prevention activities
- 14 • Temporarily increase firefighting staffing
- 15 • Pay for standby
- 16 • Preposition initial attack suppression forces
- 17 • Provide additional aerial reconnaissance
- 18 • Provide for standby aircraft availability

19

20 **Authorization**

21 Authorization to use severity funding is provided in writing based on a written
22 request with supporting documentation. Authorization is on a line item basis
23 and comes with a severity cost code. Agencies will follow their administrative
24 procedures for issuing severity cost codes. Authorization is provided for a
25 maximum of 30 days per request; however, regardless of the length of the
26 authorization, use of severity funding must be terminated when abnormal
27 conditions no longer exist. If the fire severity situation extends beyond the 30
28 day authorization, the State/Region must prepare a new severity request.

29

30 **State/Regional Level Severity Funding**

31 Each fiscal year the national office will provide each state/region with funding
32 and a severity cost code for state/regional short-term severity needs (e.g., wind
33 events, cold dry front passage, lightning events, and unexpected events such as
34 off road rallies that are expected to last less than one week). Expenditure of
35 these funds is authorized by the state/regional directors at the written request of
36 the agency administrator. State/regional directors are responsible and
37 accountable for ensuring that these funds are used only to meet severity funding
38 objectives and that amounts are not exceeded. The national office will notify the
39 state/regional director, state/regional budget officer, and the state/regional FMO
40 when the severity cost code is provided.

- 41 • *FWS - Short-term severity or "step-up" cost codes are established yearly*
42 *(at the Regional level) as PER1, PER2, etc (numeric value indicates the*
43 *specific region utilizing short-term severity funding).*

- 1 • *NPS - Parks have the authority to approve “Step-up” actions only, as*
2 *defined in their fire management plan. Regional offices approve severity*
3 *(long term - up to 30 days) for parks up to \$100,000 per severity event.*
4 • *FS - Severity funding direction is found in FSM 5190.*

5
6 **National Level Severity Funding**

7 National Agency Fire Directors or their delegates are authorized to allocate fire
8 severity funding under specific conditions stated or referenced in this chapter.
9 Expenditure of these funds is authorized by the appropriate approving official at
10 the written request of the state/regional director. Approved severity funding will
11 be used only for the preparedness activities and timeframes specifically outlined
12 in the authorization, and only for the objectives stated above.

- 13 • *NPS- National office approves all requests over \$100,000.*
14 • *FWS- Additional information may be found on the FWS Sharepoint site.*

15
16 **Appropriate Severity Funding Charges- Labor**

17 Appropriate labor charges include:

- 18 • Regular pay for non-fire personnel
19 • Regular pay for seasonal/temporary fire personnel outside their normal fire
20 funded activation period
21 • Overtime pay for all fire and non-fire personnel
22 • Severity funded personnel and resources must be available for immediate
23 initial attack regardless of the daily task assignment
24 • Severity funded personnel and resources will not use a severity cost code
25 while assigned to wildfires. The wildfire firecode number will be used.

26
27 **Vehicles and Equipment**

- 28 • GSA lease rate and mileage
29 • Hourly rate or mileage for Agency owned vehicles
30 • Commercial rentals and contracts
31 • *FWS – Severity-related repair and maintenance of Fish and Wildlife*
32 *vehicles and equipment may be funded by severity because FWS does not*
33 *have a use rate covering these charges. These charges must be approved by*
34 *the National Office.*

35
36 **Aviation**

37 This includes:

- 38 • Contract extensions
39 • The daily minimum for call when needed (CWN) aircraft
40 • Preposition flight time
41 • Support expenses necessary for severity funded aircraft (facility rentals,
42 utilities, telephones, etc.)
43
44

1 Travel and Per Diem

2 Severity funded personnel in travel status are fully subsisted by the government
3 in accordance with their agency regulations. Costs covered include:

- 4 • Lodging
- 5 • Government provided meals (in lieu of per diem)
- 6 • Airfare (including returning to their home base)
- 7 • Privately owned vehicle mileage (with prior approval)
- 8 • Other miscellaneous travel and per diem expenses associated with the
9 assignment

10

11 Prevention Activities

12 These include:

- 13 • Funding Prevention Teams (Preventions teams will be mobilized as
14 referenced in the *National Mobilization Guide*, Chapter 20)
- 15 • Implementing local prevention campaigns, to include community risk
16 assessment, mitigation planning, outreach, and education
- 17 • Augmenting patrols
- 18 • Note: Non-fire funded prevention team members should charge base 8 and
19 overtime to the severity cost code for the length of the prevention activities
20 assignment. Fire funded personnel should charge overtime only to the
21 severity cost code for the length of the prevention activities assignment.

22

23 Inappropriate Fire Severity Funding Charges

- 24 • To cover differences that may exist between funds actually appropriated
25 (including rescissions) and those identified in the fire planning process
- 26 • Administrative surcharges, indirect costs, fringe benefits
- 27 • Equipment purchases
- 28 • Purchase, maintenance, repair, or upgrade of vehicles
- 29 • Purchase of radios
- 30 • Purchase of telephones
- 31 • Purchase of pumps, saws, and similar suppression equipment
- 32 • Aircraft availability during contract period
- 33 • Cache supplies which are normally available in fire caches
- 34 • Fixed ownership rate vehicle costs
- 35 • Equipment that has been solicited allows for use on nationwide fire
36 suppression, all-hazard incidents and severity. Pre-season EERAs / Incident
37 Only EERAs may not be used for severity use or hazardous fuels projects.
38 Long term rehabilitation projects require a separate solicitation for
39 equipment.

40

41 Interagency Requests

42 Agencies working cooperatively in the same geographic area must work
43 together to generate and submit joint requests, to minimize duplication of
44 required resources, reduce interagency costs and to utilize severity funded

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1 resources in an interagency manner. However, each agency should request
 2 funds only for its own agency specific needs. The joint request should be routed
 3 simultaneously through each agency's approval system, and the respective
 4 approving official will issue an authorization that specifies allocations by
 5 agency.

6

7 **Requesting Fire Severity Funding**

8 Each agency has established severity funding request protocols. The completed
 9 and signed request is submitted from the state/regional director to the
 10 appropriate approving official as per the sequence of action outlined below.

11 Authorizations will be returned in writing.

12 Severity funding request information for all agencies can be found at

13 www.nifc.gov/policies/severity.htm

14

15 **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

16

17 **Labor Cost Coding For Severity Funded Personnel**

18 Fire personnel outside their normal activation period, employees whose regular

19 salary is not fire funded, and Administratively Determined (AD) employees

1 hired under an approved severity request should charge regular time and
2 approved non-fire overtime to the severity suppression operations subactivity
3 and the requesting office's severity cost code.

4
5 Fire funded personnel should charge their regular planned salary (base-eight) to
6 their budgeted subactivity using their home unit's location code. Overtime
7 associated with the severity request should be charged to the severity
8 suppression operations subactivity and the requesting office's severity cost code.

9
10 Regular hours worked in suppression operations will require the use of the
11 appropriate fire subactivity with the appropriate firecode number. Overtime in
12 fire suppression operations will be charged to the suppression operations
13 subactivity with the appropriate firecode number.

14
15 Employees from non-federal agencies should charge their time in accordance
16 with the approved severity request and the appropriate local and statewide
17 agreements. A task order for reimbursement will have to be established and is
18 authorized under the Interagency Agreement for Fire Management.

19 20 **Documentation**

21 The state/regional and national office will document and file accurate records of
22 severity funding activity. This will include complete severity funding requests,
23 written authorizations, and expenditure records.

24 25 **Severity Funding Reviews**

26 State/regional and national offices should ensure appropriate usage of severity
27 funding and expenditures. This may be done as part of their normal agency fire
28 program review cycle.

29 30 **Fire Prevention/Mitigation**

31 32 **Wildland Fire Cause Determination & Fire Trespass**

33 Agency policy requires any wildfire to be investigated to determine cause,
34 origin, and responsibility.

35
36 For all human-caused fires where responsibility and negligence can be
37 determined, actions must be taken to recover the cost of suppression activities,
38 land rehabilitation, and damages to the resources and improvements.

39 40 **Wildland Fire Mitigation and Prevention**

41 Fire programs are required to fund and implement unit level Fire Prevention
42 Plans by completing a wildland mitigation/prevention assessment. The purpose
43 of this is to reduce undesirable human caused ignitions, to reduce damages and
44 losses caused by unwanted wildland fires, and to reduce the suppression costs of
45 wildland fires. As weather and fuel conditions move from average to above

1 average or severe, and/or human activity increases, mitigation and prevention
2 activities must be strengthened to maintain effectiveness.

3

4 Prevention includes education (sign posting plans, school programs, radio and
5 news releases, recreation contacts, local business contacts, exhibits), industrial
6 program monitoring (timber, mining, power line maintenance operations),
7 reconnaissance patrols, and other activities to prevent and mitigate wildfire
8 damage, and loss.

- 9 • *NPS- Only units that experience more than an average of 26 human caused*
10 *fires per ten-year period are required to develop a fire prevention plan.*
- 11 • *FS –Refer to FSM 5110 and 5300.*

12

13 **Professional Liability Insurance**

14

15 Public Law 110-161 provides for reimbursement for up to one half of the cost
16 incurred for professional liability insurance (including any administrative
17 processing cost charged by the insurance company) for temporary fire line
18 managers, management officials, and law enforcement officers.

19

20 To qualify for reimbursement, “temporary fire line managers” must meet one of
21 the following three criteria:

- 22 • Provide temporary supervision or management of personnel engaged in
23 wildland fire activities;
 - 24 • Provide analysis or information that affects a supervisor’s or manager’s
25 decision about a wildland fire;
 - 26 • Direct the deployment of equipment for a wildland fire, such as a base camp
27 manager, an equipment manager, a helicopter coordinator, or an initial
28 attack dispatcher.
- 29
- 30 • *DOI – see Personnel Bulletin No. 08-07, March 20, 2008*
 - 31 • *FS – refer to <http://fsweb.asc.fs.fed.us/HRM/benefits/PLI.php>*

1 **Chapter 11**
2 **Incident Management & Response**

3
4 **National Response Framework**

5
6 The National Response Framework presents the guiding principles that enable
7 all response partners to prepare for and provide a unified national response to
8 disasters and emergencies - from the smallest incident to the largest catastrophe.
9 The Framework establishes a comprehensive, national, all-hazards approach to
10 domestic incident response. Information about the National Response
11 Framework can be found at: <http://www.fema.gov/emergency/nrf/index.htm>

12
13 **National Interagency Incident Management System**

14
15 The National Interagency Incident Management System (NIIMS) is sponsored
16 by the National Wildfire Coordinating Group (NWCG). NIIMS is compliant
17 with the National Incident Management System (NIMS), which is a component
18 of the National Response Framework. NIIMS provides a universal set of
19 structures, procedures and standards for agencies to respond to all types of
20 emergencies. NIIMS will be used to complete tasks assigned to the
21 interagency wildland fire community under the National Response Framework.

22
23 **Incident Management and Coordination Components of NIIMS**

24 Effective incident management requires:

- 25 • Command organizations to manage on-site incident operations.
- 26 • Coordination and support organizations to provide direction and supply
27 resources to the on-site organization.

28
29 **Incident Command System (ICS)**

30
31 The ICS is the on-site management system used in NIIMS/NIMS. The ICS is a
32 standardized emergency management system specifically designed to provide
33 for an integrated organizational structure that reflects the complexity and
34 demands of single or multiple incidents, without being hindered by jurisdictional
35 boundaries. ICS is the combination of facilities, equipment, personnel,
36 communications and procedures operating within a common organizational
37 structure to manage incidents. ICS will be used by the agencies to manage
38 wildland fire operations and all risk incidents.

39
40 **Wildland Fire Complexity**

41
42 Wildland fires are typed by complexity, from type 5 (least complex) to type 1
43 (most complex). The ICS organizational structure develops in a modular
44 fashion based on the complexity of the incident. Complexity is determined by
45 completing an Incident Complexity Analysis - (Refer to samples in appendix F

1 & G). Units may develop their own Incident Complexity Analysis format to
2 replace appendix G.

3

4 **Organizational Needs Assessment**

5 The National Wildfire Coordinating Group has adopted the Organizational
6 Needs Assessment as a replacement for the Type 3, Type 2, and Type 1 Incident
7 Complexity Analysis. The Organizational Needs Assessment assists personnel
8 with evaluating the situation, objectives, risks, and management considerations
9 of a complex incident and determining the appropriate organization necessary to
10 manage the incident. The Organizational Needs Assessment will be incorporated
11 into the Wildland Fire Decision Support System (WFDSS) as development
12 allows. The Organizational Needs Assessment is available at:
13 <http://www.wfmrda.org/policy.php>

14

15 **Command Organizations**

16

17 **Incident Command**

18 All fires, regardless of complexity, will have an incident commander (IC). The
19 IC is a single individual responsible to the agency administrator(s) for all
20 incident activities. Incident Commanders are responsible for:

- 21 • Obtaining a Delegation of Authority and/or expectations to manage the
22 incident from the agency administrator. For type 3, 4, or 5 incidents,
23 delegations/expectations may be written or oral.
- 24 • Ensuring that safety receives priority consideration in all incident activities,
25 and that the safety and welfare of all incident personnel and the public is
26 maintained.
- 27 • Assessing the incident situation, both immediate and potential.
- 28 • Maintaining command and control of the incident management
29 organization.
- 30 • Ensuring transfer of command is communicated to host unit dispatch and to
31 all incident personnel.
- 32 • Developing incident objectives, strategies, and tactics.
- 33 • Developing the organizational structure necessary to manage the incident.
- 34 • Approving and implementing the Incident Action Plan, as needed.
- 35 • Ordering, deploying, and releasing resources.
- 36 • Ensuring incident financial accountability and expenditures meet agency
37 policy and standards.
- 38 • Ensuring incident documentation is complete.

39

40 For purposes of initial attack, the first IC on scene qualified at any level will
41 assume the duties of initial attack IC. The initial attack IC will assume the
42 duties and have responsibility for all suppression efforts on the incident up to
43 his/her level of qualification until relieved by an IC qualified at a level
44 commensurate with incident complexity.

1 As an incident escalates, a continuing reassessment of the complexity level
2 should be completed to validate the current command organization or identify
3 the need for a higher level of incident management.

4
5 An IC is expected to establish the appropriate organizational structure for each
6 incident and manage the incident based on his/her qualifications, incident
7 complexity, and span of control. If the incident complexity exceeds the
8 qualifications of the current IC, the IC must continue to manage the incident
9 within his/her capability and span of control until replaced.

11 **On-site Command Organizations**

12 Command organizations responsible for incident management include:

- 13 • Type 5 Incident Command
- 14 • Type 4 Incident Command
- 15 • Type 3 Incident Command
- 16 • Type 2 Incident Command
- 17 • Type 1 Incident Command
- 18 • Wildland Fire Management Teams
- 19 • National Incident Management Organizations (NIMO)
- 20 • Area Command
- 21 • Unified Command

23 **Type 5 Incidents**

25 **Type 5 Incident Characteristics**

- 26 • Ad hoc organization managed by a type 5 Incident Commander.
- 27 • Primarily local resources used.
- 28 • ICS command and general staff positions are not activated.
- 29 • Resources vary from two to six firefighters.
- 30 • Incident is generally contained within the first burning period and often
31 within a few hours after resources arrive on scene.
- 32 • Additional firefighting resources or logistical support are not usually
33 required.

35 **Type 5 Incident Command**

36 Type 5 Incident Commanders (ICs) are qualified according to the *NWCG*
37 *Wildland Fire Qualifications Systems Guide PMS 310-1 (NFES # 310-1)*. The
38 type 5 IC may assign personnel to any combination of ICS functional area duties
39 in order to operate safely and effectively. ICS functional area duties should be
40 assigned to the most qualified or competent individuals available.

- 41 • *FS - See FSH 5109.17 for additional standards.*

1 Type 4 Incidents

2

3 Type 4 Incident Characteristics

- 4 • Ad hoc organization managed by a type 4 Incident Commander.
- 5 • Primarily local resources used.
- 6 • ICS command and general staff positions are not activated.
- 7 • Resources vary from a single resource to multiple resource task forces or
- 8 strike teams.
- 9 • Incident is usually limited to one operational period in the control phase.
- 10 Mopup may extend into multiple operational periods.
- 11 • Written incident action plan (IAP) is not required. A documented
- 12 operational briefing will be completed for all incoming resources. Refer to
- 13 the *Incident Response Pocket Guide* for a briefing checklist.

14

15 Type 4 Incident Command

16 Type 4 Incident Commanders (ICs) are qualified according to the *NWCG*
17 *Wildland Fire Qualifications Systems Guide PMS 310-1*. The type 4 IC may
18 assign personnel to any combination of ICS functional area duties in order to
19 operate safely and effectively. ICS functional area duties should be assigned to
20 the most qualified or competent individuals available.

- 21 • *FS - See FSH 5109.17 for additional standards.*

22

23 Type 3 Incidents

24

25 Type 3 Incident Characteristics

- 26 • Ad hoc or pre-established type 3 organization managed by a type 3 Incident
- 27 Commander.
- 28 • The IC develops the organizational structure necessary to manage the
- 29 incident. Some or all of ICS functional areas are activated, usually at the
- 30 division/group supervisor and/or unit leader level.
- 31 • The Incident Complexity Analysis process is formalized and certified daily
- 32 with the jurisdictional agency. It is the IC's responsibility to continually
- 33 reassess the complexity level of the incident. When the complexity analysis
- 34 indicates a higher complexity level the IC must ensure that suppression
- 35 operations remain within the scope and capability of the existing
- 36 organization and that span of control is consistent with established ICS
- 37 standards.
- 38 • Local and non-local resources used.
- 39 • Resources vary from several resources to several task forces/strike teams.
- 40 • May be divided into divisions.
- 41 • May require staging areas and incident base.
- 42 • May involve low complexity aviation operations.
- 43 • May involve multiple operational periods prior to control, which may
- 44 require a written Incident Action Plan (IAP).

- 1 • Documented operational briefings will occur for all incoming resources and
- 2 before each operational period. Refer to the *Incident Response Pocket*
- 3 *Guide* for a briefing checklist.
- 4 • ICT3's will not serve concurrently as a single resource boss or have any non
- 5 incident related responsibilities.

6

7 **Type 3 Incident Command**

8 Type 3 Incident Commanders (ICT3s) are qualified according to the 310-1.

9 When ICT3s are required to manage an incident they must not have concurrent

10 responsibilities that are not associated with the incident and they must not

11 concurrently perform single resource boss duties.

12

13 Other than the Incident Commander, command and general staff positions have

14 not been established at the type 3 complexity level. However, a type 3 incident

15 may require additional functional positions to assist the Incident Commander.

16 The following table lists minimum qualification requirements for these

17 functional responsibilities.

18

Type 3 Functional Responsibility	Specific 310-1 or equivalent qualification standards required to perform ICS functions at type 3 level
Incident Command	Incident Commander Type 3 (ICT3)
Safety	Line Safety Officer
Operations	Task Force Leader
Division	Single Resource Boss Operational qualification must be commensurate with resources assigned (i.e. more than one resource assigned requires a higher level of qualification).
Plans	Local entities can establish level of skill to perform function.
Logistics	Local entities can establish level of skill to perform function.
Information	Local entities can establish level of skill to perform function.
Finance	Local entities can establish level of skill to perform function.

- 19 • **FS** - Refer to FSH 5109.17 for additional standards.
- 20
- 21 Type 3 experience that is input into the Incident Qualification and Certification
- 22 System (IQCS) will not exceed an individual's current Incident Qualification
- 23 Card.

Type 2 Incidents

2

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1 Type 1 Incident Command

2 Type 1 Incident Commanders are qualified according to the 310-1. These ICs
3 command pre-established Incident Management Teams that are configured with
4 ICS Command Staff, General Staff and other leadership and support positions.
5 Personnel performing specific type 1 command and general staff duties must be
6 qualified at the type 1 level according to the 310-1 standards.

- 7 • *FS - Refer to FSH 5109.17 for additional standards.*

8

9 Incident Management Teams

10

11 Type 2 Incident Management Teams

12 Most type 2 teams are managed by Geographic Area Multi-Agency
13 Coordinating Groups and are coordinated by the Geographic Area Coordination
14 Centers. Some type 2 teams are managed by non-federal agencies (e.g. state or
15 local governments) and availability of these teams is determined on a case by
16 case basis.

17

18 Type 1 Incident Management Teams

19 Type 1 teams are managed by Geographic Area Multi-Agency Coordinating
20 Groups and are mobilized by the Geographic Area Coordination Centers. At
21 national preparedness levels 4 and 5 these teams are managed by the National
22 Multi-Agency Coordinating Group (NMAC).

23

24 Wildland Fire Management Teams (WFMT)

25 Wildland Fire Management Teams provide land managers with skilled and
26 mobile personnel to assist with the management of wildfires and prescribed
27 fires. WFMT are available as an interagency resource for assignment to all
28 agencies and units.

29

30 National Incident Management Organization Teams

31 Four National Incident Management Organization (NIMO) teams are configured
32 as short Type I incident management teams. Each team has a full-time incident
33 commander and six full-time Command & General Staff. NIMO teams are
34 mobilized from Boise, Atlanta, Portland and Phoenix. The primary focus of the
35 National Incident Management Organization is management of complex
36 incidents.

37

38 In addition to complex incident management, these teams have year-round "non-
39 incident" duties in support of fire and aviation management, including training,
40 quality assurance activities, fuels management, fuels implementation, fire and
41 resource management support, NWCG projects, cost containment, and
42 leadership development.

43

44 Area Command

45 Area Command is an Incident Command System organization established to
46 oversee the management of large or multiple incidents to which several Incident

1 Management Teams have been assigned. Area Command may become Unified
2 Area Command when incidents are multi-jurisdictional. The determining factor
3 for establishing area command is the span of control of the agency
4 administrator.

5
6 National Area Command teams are managed by the National Multi-Agency
7 Coordinating Group (NMAC) and are comprised of the following:

- 8 • Area Commander (ACDR).
- 9 • Assistant Area Commander, Planning (AAPC).
- 10 • Assistant Area Commander, Logistics (AALC).
- 11 • Area Command Aviation Coordinator (ACAC).

12
13 Depending on the complexity of the interface between the incidents, specialists
14 in other areas such as aviation safety or information may also be assigned.

15
16 Area Command Functions include:

- 17 • Establish overall strategy, objectives and priorities for the incident(s) under
18 its command.
- 19 • Allocate critical resources according to priorities.
- 20 • Ensure that incidents are properly managed.
- 21 • Coordinate demobilization.
- 22 • Supervise, manage and evaluate Incident Management Teams under its
23 command.
- 24 • Minimize duplication of effort and optimize effectiveness by combining
25 multiple agency efforts under a single Area Action Plan.

26

27 **Unified Command**

28 Unified Command is an application of the Incident Command System used
29 when there is more than one agency with incident jurisdiction or when incidents
30 cross political jurisdictions. Under Unified Command, agencies work together
31 through their designated incident commanders at a single incident command
32 post to establish common objectives and issue a single Incident Action Plan.
33 Unified Command may be established at any level of incident management or
34 area command. Under Unified Command all agencies with jurisdictional
35 responsibility at the incident contribute to the process of:

- 36 • Determining overall strategies.
- 37 • Selecting alternatives.
- 38 • Ensuring that joint planning for tactical activities is accomplished.
- 39 • Maximizing use of all assigned resources.

40

41 Advantages of Unified Command are:

- 42 • A single set of objectives is developed for the entire incident.
- 43 • A collective approach is used to develop strategies to achieve incident
44 objectives.

- 1 • Information flow and coordination is improved between all jurisdictions and
2 agencies involved in the incident.
- 3 • All involved agencies have an understanding of joint priorities and
4 restrictions.
- 5 • No agency's legal authorities will be compromised or neglected.

7 **Coordination and Support Organizations**

8
9 Organizations that provide coordination and support to on-site command
10 organizations include:

- 11 • Initial Attack Dispatch
- 12 • Expanded Dispatch
- 13 • Buying/Payment Teams
- 14 • National and Geographic Area Coordination Centers (refer to Chapter 8)
- 15 • Local, Geographic Area, and National Multi-Agency Coordinating (MAC)
16 Groups

17 18 **Initial Attack Dispatch**

19 An initial attack dispatch organization is the primary unit responsible for
20 implementing the initial response to incidents upon report. It is integrated
21 within the fire organization and the decision for deployment of response
22 resources is made by an authorized individual.

23
24 Initial attack dispatch is also responsible for coordination of communications
25 and logistical support for incidents and field operations.

26 27 **Expanded Dispatch**

28 Expanded dispatch is the organization needed to support an incident which
29 expands along with the Incident Command System. Expanded dispatch is
30 established when a high volume of activity indicates that increased dispatch and
31 coordination capability is required.

32
33 The expanded dispatch coordinator facilitates accomplishment of goals and
34 direction of the agency administrator and, when activated, the Multi Agency
35 Coordinating Group. The position may be filled by the person normally
36 managing the day-to-day operations of the center or an individual from a higher
37 level of management. The expanded dispatch center coordinator is responsible
38 for:

- 39 • Filling and supervising necessary positions in accordance with coordination
40 complexity.
- 41 • Implementing decisions made by the Multi-Agency Coordination (MAC)
42 group.

43

1 Expanded dispatch facilities and equipment should be pre-identified, procured
2 and available for immediate setup. The following key items should be provided
3 for:

- 4 • Work space separate from, but accessible to, the initial attack organization.
- 5 • Adequate office space (lighting, heating, cooling, security).
- 6 • Communications equipment (telephone, fax, computer hardware with
7 adequate data storage space, priority use and support personnel).
- 8 • Area suitable for briefings (agency administrators, media).
- 9 • Timetable/schedule should be implemented and adhered to (operational
10 period changes, briefings, strategy meetings).
- 11 • A completed and authorized Continuation of Operations Plan (COOP).
- 12 • Qualified personnel on site to staff required operations.

13

14 **Buying/Payment Teams**

15 Buying/Payment Teams support incidents by procuring services, supplies,
16 renting land and equipment. These teams may be ordered when incident support
17 requirements exceed local unit capacity. These teams report to the agency
18 administrator or the local unit administrative officer. See the *Interagency*
19 *Incident Business Management Handbook* for more information.

20

21 **Multi-Agency Coordination (MAC)**

22 Multi-Agency Coordination Groups are part of the National Interagency
23 Incident Management System (NIIMS) and are an expansion of the off-site
24 coordination and support system. MAC groups are activated by the Agency
25 administrator(s) when the character and intensity of the emergency situation
26 significantly impacts or involves other agencies. A MAC group may be
27 activated to provide support when only one agency has incident(s). The MAC
28 group is made up of agency representatives who are delegated authority by their
29 respective agency administrators to make agency decisions and to commit
30 agency resources and funds. The MAC group relieves the incident support
31 organization (dispatch, expanded dispatch) of the responsibility for making key
32 decisions regarding prioritization of objectives and allocation of critical
33 resources. The MAC group makes coordinated agency administrator level
34 decisions on issues that affect multiple agencies. The MAC group is supported
35 by situation, resource status and intelligence units who collect and assemble data
36 through normal coordination channels.

37

38 MAC group direction is carried out through dispatch and coordination center
39 organizations. When expanded dispatch is activated, the MAC group direction
40 is carried out through the expanded dispatch organization. The MAC group
41 organization does not operate directly with Incident Management Teams or with
42 Area Command teams, which are responsible for on-site management of the
43 incident.

44

45 MAC groups may be activated at the local, state, regional, or national level.

46 National level and Geographic Area level MAC groups should be activated in

1 accordance with the preparedness levels criteria established in the National and
2 Geographic Area Mobilization Guides.

3

4 The MAC group coordinator facilitates organizing and accomplishing the
5 mission, goals and direction of the MAC group. The MAC group coordinator:

- 6 ● Provides expertise on the functions of the MAC group and on the proper
7 relationships with dispatch centers and incident managers.
- 8 ● Fills and supervises necessary unit and support positions as needed, in
9 accordance with coordination complexity.
- 10 ● Arranges for and manages facilities and equipment necessary to carry out
11 the MAC group functions.
- 12 ● Facilitates the MAC group decision process. Implements decisions made by
13 the MAC group.

14

15 Activation of a MAC group improves interagency coordination and provides for
16 allocation and timely commitment of multi-agency emergency resources.

17 Participation by multiple agencies in the MAC effort will improve:

- 18 ● Overall situation status information.
- 19 ● Incident priority determination.
- 20 ● Resource acquisition and allocation.
- 21 ● State and Federal disaster coordination.
- 22 ● Political interfaces.
- 23 ● Consistency and quality of information provided to the media and involved
24 agencies.
- 25 ● Anticipation of future conditions and resource needs.

26

27 **Wildland Fire Decision Support System (WFDSS)**

28

29 The Wildland Fire Decision Support System (WFDSS) is a web-based decision
30 support system that provides a single dynamic documentation system for use
31 beginning at the time of discovery and concluding when the fire is declared out.

32 It can be scaled and modified as the incident duration and complexity changes.

33 The WFDSS involves a linear process of fire documentation and analysis for the
34 agency administrator to describe the basic fire situation, create incident
35 objectives and requirements, develop a course of action, validate key
36 dependencies, and evaluate risks. To support the decision process, spatial data
37 within the WFDSS allows users to display the fire situation, quantify values at
38 risk, perform fire behavior predictions, and develop management strategies.

39 These combined features allow the agency administrator to make an informed
40 decision for management of the incident considering safety, complexity, risk and
41 economics.

42

43 WFDSS will be used for decision support documentation and all fires that
44 escape initial attack or exceed initial response will have a published decision
45 within WFDSS. A published WFDSS decision establishes a course of action

1 and rationale for incidents with varying duration, spread potential, costs, or other
2 considerations. Consider publishing a decision when a fire continues to actively
3 spread beyond a few burning periods, increases in complexity or cost, or has a
4 high relative risk. The level of documentation to publish a decision should be
5 commensurate to the incident duration, spread potential, cost or relative risk.
6 Agency-specific direction established in memos or other policy documents may
7 further define WFDSS documentation requirements.

8
9 Additional information about the WFDSS can be found in Appendix S or user
10 support information, training materials, and other resources can be found at the
11 WFDSS homepage. http://wfdss.usgs.gov/wfdss/WFDSS_Home.shtml

12 **WFDSS Support**

13 A National Fire Decision Support Center (NFDC) has been established to
14 support analysis used in wildland fire decision making and WFDSS. The
15 support provided by NFDC consists of developing, improving, and increasing
16 production and operational use of decision support products. As part of that
17 support NFDC will provide not only direct decision support but also mentoring
18 and training to develop and strengthen regional and unit level decision support
19 capacity. Information for requesting assistance from the NFDC can be found
20 at www.wfmrda.org by clicking on the NFDC tab or at the WFDSS homepage.

21

22 **WFDSS User Roles and Incident Privileges**

23 User Roles within WFDSS correspond to permissions which allow users to
24 perform certain tasks within the application, such as creating an incident or
25 conducting fire behavior analysis. Typical User Roles are Viewer, Dispatcher,
26 Author, Data Manager, and Fire Behavior Specialist.

27

28 Incident privileges are assigned at the time of (and are specific to) an incident.
29 These privileges allow you to Own, Edit, Review, or Approve a decision
30 document.

31

32 **Fire Modeling**

33 Fire modeling has been incorporated into WFDSS, in the form of the FIRE
34 Spread Probability model (FSPro), Basic Fire Behavior (Basic), Short Term Fire
35 Behavior (STFB) and Near Term Fire Behavior (NTFB). Comparison of
36 WFDSS short and basic models to stand alone FlamMap and other fire behavior
37 information can be found on the WFDSS homepage under the Related
38 Resources link, fire behavior section. Information for requesting assistance in
39 running these models for your incident can be found at the WFDSS homepage
40 through the National Fire Decision Support Center (NFDC).

41

42 **Relative Risk Assessment**

43 The Relative Risk assessment is required before publishing a decision for an
44 incident. Its purpose is to assist in planning for, assessing, and managing the
45 incident. It provides the Agency Administrator with a quick but comprehensive
46

1 assessment of the risk of the fire. An incident owner, editor, reviewer, or
 2 approver can perform the assessment.
 3
 4 This is a qualitative process that can be completed in less time than a
 5 quantitative long-term risk assessment. The relative risk assessment chart uses
 6 three risk components:
 7 • values
 8 • hazard
 9 • probability

10
 11 Each of these components is assessed independently. The three outputs are then
 12 evaluated in a final step that provides the relative risk rating for the fire. From
 13 the relative risk rating, guidance is provided within the system to assist the
 14 owner/author in determining the level of analysis needed, considerations for the
 15 incident and documentation of the decision.

16
 17 **WFDSS Decision Approval and Publication**

18 Decisions in WFDSS are approved and published by the appropriate line officer
 19 as defined in the table below. Incident privileges must be assigned within
 20 WFDSS to designate the approver. During the approval process, prior to
 21 publishing a decision, the timeframe for periodic assessment can be set (1-14
 22 days).

23
 24 It is imperative that a decision be reviewed carefully as once approved and
 25 published, a decision becomes a system of record and all WFDSS users can
 26 view the information. Additionally, the action CANNOT be undone. If there is
 27 an error in the information, or new information is added for documentation or
 28 update (i.e. fire behavior, Management Action Points) a new decision must be
 29 made to permanently update the record.

30
 31 **WFDSS Approval Requirements**

Cost Estimate	BIA	BLM	FWS	NPS	USFS
\$0-\$2M	Agency Supt	Field/ District Manager	Project Leader/ Refuge Manager	Park Supt	District Ranger
\$2M-\$5M	Regional Director	Field/ District Manager*	Regional Director	Park Supt*	Forest Supervisor
\$5M- \$10M	BIA Director	Field/ District Manager*	FWS Director	Park Supt*	Forest Supervisor

\$10M- \$50M	BIA Director	Field/ District Manager*	FWS Director	Park Supt*	Regional Forester
>\$50M	BIA Director	Field/ District Manager*	FWS Director	Park Supt*	USFS Chief

1

2 **BLM/NPS– All WFDSS decisions are approved in the application at the local*
3 *level by the Field Office Manager, District Manager or Park Superintendent.*

4 *When the cost thresholds described above are reached, certification by*
5 *respective BLM State Directors/Bureau Directors or NPS Regional*
6 *Director/National Director occurs through a process outside of the WFDSS*
7 *application. Certification from the higher level must be in writing.*

8

9

BLM/NPS WFDSS Approval and Cost Certification

<i>Cost Estimate (* Certification or recertification is required at the following thresholds)</i>	<i>Approving Official for WFDSS Decision</i>	<i>Certifying Official for Fire Cost</i>
<i><\$2M</i>	<i>District/Field Office Manager/Park Superintendent</i>	<i>District/Field Manager/Park Superintendent</i>
<i>>\$2M</i>	<i>District/Field Office Manager/Park Superintendent</i>	<i>BLM State Director/NPS Regional Director</i>
<i>>\$5M</i>	<i>District/Field Office Manager/Park Superintendent</i>	<i>BLM Director/NPS Director</i>

10

11 **Periodic Assessment**

12 The periodic assessment allows an approver to verify that the WFDSS decision
13 is still valid during the course of the incident. The periodic assessment must be
14 completed by the designated approver in the time frame set during the
15 publication process. The frequency of the Periodic Assessment is set at the time
16 the decision is published and can range from 1 to 14 days and the approver can
17 request a reminder email. It is important to document clear, concise information
18 about the incident when completing the periodic assessment as this information
19 will be part of the decision record.

20

21 **WFDSS Features**

22 The WFDSS has many tools within one system for documenting and supporting
23 decision making. Some features include:

- 24 • Fire Behavior

- 1 Modeling tools are available within the system to assist with informed
2 decision making. Fire modeling has been incorporated into WFDSS, in the
3 form of the FIRE Spread Probability model (FSPro), Basic Fire Behavior
4 (Basic), Short Term Fire Behavior (STFB) and Near Term Fire Behavior
5 (NTFB).
- 6 • Values Inventory –
7 There are numerous national and interagency geospatial layers that are
8 intended to help users visualize values data geographically. WFDSS Values
9 Inventory uses the geospatial data to quantify the values within a planning
10 area. This is intended as a strategic tool and is the fastest method to see and
11 quantify values within the fire planning area. The report is a tabular product
12 that gives the breakdowns of values in quantity, miles or acres, depending
13 on the value.
 - 14 • Values at Risk
15 WFDSS Values at Risk combines FSPro outputs with reference to value
16 layers to quantify the number, miles or acres of specific values within each
17 probability contour. No economic values are associated with the outputs.
 - 18 • Rapid Assessment Values at Risk (RAVAR)
19 The RAVAR analysis process is completed outside of the WFDSS and in
20 imported into the system once completed. To order a RAVAR analysis,
21 contact your Geographic Editor. RAVAR utilizes Fire Spread Probability
22 Model (FSPro) outputs and county assessor cadastral data for structural
23 property values as well as other Tier 1 (national) and Tier 2 (regional)
24 values at risk. The result of overlaying the values and the FSPro output is
25 both a map product and a tabular product that breaks down the values by
26 probability radii. This product is intended for strategic use and may lack
27 sufficient detail for use in making tactical decisions.
 - 28 • Stratified Cost Index
29 SCI is intended as a self assessment tool for cost per acre for fires larger
30 than 300 acres and is not dependant on any spatial information except the
31 latitude and longitude of the fire. The SCI tool is based on historical
32 suppression costs based on fire size, location (inside or outside wilderness
33 and distance to town), ERC percentile, fuel model, and the agency of
34 jurisdiction. There are separate models for the Department of Interior (DOI)
35 and USDA Forest Service.
 - 36 • Smoke Dispersion
37 Based on the lat/long of a fire, a smoke dispersion forecast can be obtained
38 in WFDSS through a web link found on the Situation Tab in the Info Tab..
39 The seven day forecast provides projections of Mixing Height, Transport
40 winds, Ventilation rates, Haines Indices, and PM2.5 values.
 - 41 • Wildland Fire Air Quality
42 Wildland fire Air Quality tools can be linked within the application under
43 the left menu – fire related links.
- 44
45
46

1 **Managing the Incident**

2

3 **Agency Administrator Responsibilities**

4 The agency administrator (AA) manages the land and resources on their
5 organizational unit according to the established land management plan. Fire
6 management is part of that responsibility. The AA establishes specific
7 performance objectives for the incident commander (IC) and delegates the
8 authority to the IC to take specific actions to meet those objectives. AA
9 responsibilities to a type 1 or 2 Incident Management Team (IMT) or Wildland
10 Fire Management Team (WFMT) include:

- 11 • Conduct an initial briefing to the Incident Management Team (appendix D).
- 12 • Provide an approved and certified WFDSS.
- 13 • *FS* - Ensure that significant decisions related to strategy and costs are
14 included in a key decision log or in WFDSS.
- 15 • Complete an Incident Complexity Analysis (appendix F & G) to accompany
16 the WFDSS
- 17 • Coordinate with neighboring agencies on multi-jurisdiction fires to issue a
18 joint delegation of authority and develop a single WFDSS document for the
19 management of unplanned ignitions.
- 20 • Issue a written Delegation of Authority (appendix H) to the type 1 or 2
21 Incident Commander and to other appropriate officials, agency
22 administrator representative, resource advisor and incident business advisor.
23 The delegation should:
 - 24 ➤ State specific and measurable objectives, priorities, expectations,
25 agency administrator's intent, constraints and other required direction.
 - 26 ➤ Establish the specific time for transfer of command.
 - 27 ➤ Assign clear responsibilities for initial attack.
 - 28 ➤ Define your role in the management of the incident.
 - 29 ➤ Conduct during action reviews with the IC.
 - 30 ➤ Assign a resource advisor(s) to the IMT.
 - 31 ➤ Define public information responsibilities.
 - 32 ➤ If necessary, assign a local government liaison to the IMT.
 - 33 ➤ Assign an Incident Business Advisor (IBA) to provide incident
34 business management oversight commensurate with complexity.
 - 35 ➤ Direct IMT to address rehabilitation of areas affected by suppression
36 activities.
- 37 • Coordinate mobilization with the Incident Commander:
 - 38 ➤ Negotiate filling of mobilization order with the IC.
 - 39 ➤ Establish time and location of agency administrator briefing.
 - 40 ➤ Consider approving support staff additional to the IMT as requested by
41 the IC.
 - 42 ➤ Consider authorizing transportation needs as requested by the IC.

43

44 In situations where one agency provides fire suppression service under
45 agreement to the jurisdictional agency, both jurisdictional and protecting

1 agencies will be involved in the development of and signatories to the delegation
2 of authorities and the WFDSS to the incident management teams.

3

4 **Agency Administrator Representative Responsibilities**

5 The agency administrator representative (the on-scene agency administrator) is
6 responsible for representing the political, social and economic issues of the
7 agency administrator to the Incident Commander. This is accomplished by
8 participating in the agency administrator briefing, in the IMT planning and
9 strategy meetings and in the operational briefings. Responsibilities include
10 representing the agency administrator to the IMT regarding:

- 11 • Compliance with the Delegation of Authority and the WFDSS.
- 12 • Public Concerns (air quality, road or trail closures, smoke management,
13 threats)
- 14 • Public safety (evacuations, access/use restrictions, temporary closures)
- 15 • Public information (fire size, resources assigned, threats, concerns, appeals
16 for assistance)
- 17 • Socioeconomic, political, or tribal concerns
- 18 • Land and property ownership concerns
- 19 • Interagency and inter-governmental issues
- 20 • Wildland urban interface impacts
- 21 • Media contacts

22

23 **Resource Advisor Responsibilities**

24 The Resource Advisor is responsible for anticipating the impacts of fire
25 operations on natural and cultural resources and for communicating protection
26 requirements for those resources to the Incident Commander. The Resource
27 Advisor should ensure IMT compliance with the Land Management Plan and
28 Fire Management Plan. The Resource Advisor should provide the Incident
29 Commander with information, analysis and advice on these areas:

- 30 • Rehabilitation requirements and standards
- 31 • Land ownership
- 32 • Hazardous materials
- 33 • Fuel breaks (locations and specifications)
- 34 • Water sources and ownership
- 35 • Critical watersheds
- 36 • Critical wildlife habitat
- 37 • Noxious weeds/aquatic invasive species
- 38 • Special status species (threatened, endangered, proposed, sensitive)
- 39 • Fisheries
- 40 • Poisonous plants, insects and snakes
- 41 • Mineral resources (oil, gas, mining activities)
- 42 • Archeological site, historic trails, paleontological sites
- 43 • Riparian areas
- 44 • Military issues

- 1 • Utility rights-of-way (power, communication sites)
- 2 • Native allotments
- 3 • Grazing allotments
- 4 • Recreational areas
- 5 • Special management areas (wilderness areas, wilderness study areas,
- 6 recommended wilderness, national monuments, national conservation areas,
- 7 national historic landmarks, areas of critical environmental concern,
- 8 research natural areas, wild and scenic rivers)

9
10 The Resource Advisor and agency administrator representative positions are
11 generally filled by local unit personnel. These positions may be combined and
12 performed by one individual. Duties are stated in the *Resource Advisor's Guide*
13 *for Wildland Fire (NWCG PMS 313, NFES 1831, Jan 2004)*.

14 15 **Use of Trainees**

16 Use of trainees is encouraged. On wildland fire incidents, trainees may supervise
17 trainees. However, when assigning trainees to positions where critical life-safety
18 decisions are affected, trainees must be directly supervised by a fully qualified
19 individual. For example:

- 20 • A Division Group Supervisor (DIVS) trainee may not work directly for an
21 Operations Section Chief without additional field supervision. The
22 potential for high hazard work with high risk outcomes calls for a fully
23 qualified DIVS to be assigned supervision of the DIVS trainee.
- 24 • A Supply unit Leader (SPUL) trainee may supervise a
25 Receiving/Distribution Manager (RCDM) trainee. In this case, supervision
26 may be successfully provided in a lower hazard environment with
27 appropriate risk mitigation.

28
29 For more information, refer to *NWCG Memorandum #018-2010 Assignment of*
30 *Trainees to Incident Positions (April 8, 2010)*

31 32 **Incident Action Plan**

33 When a written Incident Action Plan is required, suggested components may
34 include objectives, organization, weather forecast, fire behavior forecast,
35 division assignments, air operations summary, safety message, medical plan,
36 communications plan and incident map.

37 38 **Incident Status Reporting**

39 The Incident Status Summary (ICS-209), submitted to the GACC, is used to
40 report large wildland fires and any other significant events on lands under
41 federal protection or federal ownership. Lands administered by states and other
42 federal cooperators may also report in this manner.

43
44 Large fires are classified as 100 acres or larger in timber fuel types, 300 acres or
45 larger in grass fuel types, or when a type 1 or 2 Incident Management Team is
46 assigned. A report should be submitted daily until the incident is contained.

1 The agency administrator may require additional reporting times. Refer to local,
2 zone and/or GACC guidance for additional reporting requirements.

3

4 **Incident History and Financial Records**

5 Wildland fire incidents on Federal lands managed by the FS and DOI (except
6 BIA) require creation of an Incident History File (IHF) to document significant
7 events, actions taken, lessons learned and other information with long-term
8 value for managing natural resources. IHF contents and instructions and tools
9 for creating the IHF are found at
10 <http://www.nwcg.gov/policies/records/index.html>

11

12 The host unit will be responsible for retaining the incident documentation
13 package including the IHF and financial records.

14

15 **Document and Computer Security**

16 Precautions must be taken to secure incident information in its various formats.
17 All forms of information shall be treated as Controlled Unclassified Information
18 (CUI) and care must be exercised when handling the data to prevent the
19 inadvertent viewing or unauthorized disclosure of information. CUI paper copies
20 that compromise privacy and security shall be shredded before disposal when no
21 longer needed. All computers used at the incident must be patched and have
22 anti-virus software installed with recently updated definition files. All media
23 used to transfer information into the incident (for example, but not limited to:
24 USB flash drives, portable hard drives and CD/DVDs) must be scanned prior to
25 use. Autorun capabilities must be disabled to prevent the spread of malware. All
26 computers and storage devices shall be physically secured at all times.

27

28 **Transfer of Command**

29 The following guidelines will assist in the transfer of incident command
30 responsibilities from the local unit to incoming type 1 or 2 Incident Management
31 Team and back to the local unit.

- 32 • The local team or organization already in place remains in charge until the
33 local representative briefs their counterparts on the incoming team, a
34 delegation of authority has been signed and a mutually agreed time for
35 transfer of command has been established.
- 36 • The ordering unit will specify times of arrival and transfer of command and
37 discuss these timeframes with both the incoming and outgoing command
38 structures.
- 39 • Clear lines of authority must be maintained in order to minimize confusion
40 and maintain operational control.
- 41 • Transfers of command should occur at the beginning of an operational
42 period, whenever possible.
- 43 • All operational personnel will be notified on incident command frequencies
44 when transfer of command occurs.

45

46

1 Release of Teams

2 The release of a type 1 or 2 IMT should follow an approved transfer of
3 command process. The agency administrator must approve the date and time of
4 the transfer of command. The transition plan should include the following
5 elements:

- 6 • Remaining organizational needs and structure.
- 7 • Tasks or work to be accomplished.
- 8 • Communication systems and radio frequencies.
- 9 • Local safety hazards and considerations.
- 10 • Incident Action Plan, including remaining resources and weather forecast
- 11 • Facilities, equipment and supply status.
- 12 • Arrangement for feeding remaining personnel.
- 13 • Financial and payment processes needing follow-up.
- 14 • Complexity Analysis.

16 Team Evaluation

17 At completion of assignment, incident commanders will receive a written
18 performance evaluation from the agency administrators prior to the teams
19 release from the incident. Certain elements of this evaluation may not be able to
20 be completed at the closeout review. These include; accountability and property
21 control; completeness of claims investigation/documentation; and completeness
22 of financial and payment documentation.

23 The final evaluation incorporating all of the above elements should be sent to
24 the incident commander and the respective GACC within 60 days. See
25 appendix J for the IMT evaluation form.

26
27 The Delegation of Authority, the WFDSS documents and other documented
28 agency administrator's direction will serve as the primary standards against
29 which the IMT is evaluated.

30
31 The agency administrator will provide a copy of the evaluation to the IC and the
32 state/regional FMO, and retain a copy for the final fire package.

33
34 The state/regional FMO will review all evaluations and will be responsible for
35 providing a copy of evaluations documenting performance to the geographic
36 area board or agency managing the IMT.

38 Unit/Area Closures

39
40 Threats to public safety may require temporary closure of a unit/area, or a
41 portion of it. When a fire threatens escape from the unit/area, adjacent
42 authorities must be given as much advance notice as possible in order to achieve
43 orderly evacuation.

44
45

1 Incident Emergency Management Planning and Services

2

3 Refer to chapter 7 for further guidance.

4

5 Responding to Non-Wildland Fire Incidents

6

7 Wildland Urban Interface

8 The operational roles of the federal agencies as partners in the wildland urban
9 interface are wildland firefighting, hazard reduction, cooperative prevention and
10 education, and technical assistance. Structural fire suppression is the
11 responsibility of tribal, state, or local governments. Federal agencies may assist
12 with exterior structural fire protection activities under formal fire protection
13 agreements that specify the mutual responsibilities of the partners, including
14 funding. (Some federal agencies have full structural protection authority for
15 their facilities on lands they administer and may also enter into formal
16 agreements to assist state and local governments with structural protection.)

17

18 *Review and Update of the 1995 Federal Wildland Fire Management Policy,*
19 *January 2001, page 23.*

20

21 Although funding is not provided to prepare for or respond to emergency non-
22 wildland fire response activities such as structure fires, vehicle fires, dump fires,
23 hazardous materials releases, and emergency medical responses, managers must
24 ensure that fire management plans, interagency agreements, and annual
25 operating plans clearly state agency and cooperator roles and responsibilities for
26 non-wildland fire response activities that agency personnel are exposed to as a
27 result of working in the wildland urban interface environment.

28

29 Structure, Vehicle, Dumpster, Trash, and Landfill Fires

30 Firefighters will not take direct suppression action on structure, vehicle,
31 dumpster, trash, or landfill fires. Structure, vehicle, and landfill fire suppression
32 is not a functional responsibility of wildland fire resources. These fires have the
33 potential to emit high levels of toxic gases. This policy will be reflected in
34 suppression response plans.

35

36 Firefighters who encounter structure, vehicle, or landfill fires during normal
37 wildland fire suppression duties, or who are dispatched to such fires due to
38 significant threat to adjacent agency protected lands/resources, will not engage
39 in direct suppression action. Structure protection (not suppression) activities will
40 be limited to exterior efforts, and only when such actions can be accomplished
41 safely and in accordance with established wildland fire operations standards.

42

- 43 • *NPS– For structural fire (including vehicle, trash and dumpster fires)*
44 *response, training, medical examination, and physical fitness requirements,*
45 *and hazardous material response or control guidance, refer to chapter 3.*

46

1 **Public Emergency Medical Response**

2 Public emergency medical response is not a functional responsibility of wildland
3 fire resources, and should not be part of a preplanned response that requires
4 these duties. When wildland firefighters encounter emergency medical response
5 situations, their efforts should be limited to immediate care (e.g. first aid, first
6 responder) actions that they are trained and qualified to perform.

- 7 • *NPS– NPS employees who provide emergency medical services will adhere*
8 *to the requirements contained in Director’s Order and Reference Manual*
9 *#51, Emergency Medical Services.*

11 **Post Wildfire Activities**

12
13 Each wildland fire management agency is responsible for taking prompt action
14 to determine the need for, and to prescribe and implement, emergency
15 treatments to minimize threats to life or property or to stabilize and prevent
16 unacceptable degradation to natural and cultural resources resulting from the
17 effects of a fire on the lands they manage.

18 Post wildfire activities references can be found in *Interagency Burned Area*
19 *Emergency Response Guidebook, Interpretation of Department of the Interior*
20 *620 DM 3 and USDA Forest Service Manual 2523, For the Emergency*
21 *Stabilization of Federal and Tribal Trust Lands, Version 4.0 dated Feb. 2006*
22 *and Interagency Burned Area Rehabilitation Guidebook, Interpretation of*
23 *Department of the Interior 620 DM 3, For the Burned Area Rehabilitation of*
24 *Federal and Tribal Trust Lands, Version 1.3 dated October 2006.*
25 <http://www.fws.gov/fire/ifcc/Esr/home.htm>.

26
27 Damages resulting from wildland fires are addressed through four activities:

- 28 • **Wildfire Suppression Activity Damage Repair** - Planned actions taken to
29 repair the damages to resources, lands and facilities resulting from wildfire
30 suppression actions and documented in the Incident Action Plan. These
31 actions are usually implemented immediately after containment of the
32 wildfire by the Incident Management Organization.
- 33 • **Emergency Stabilization** - Planned actions to stabilize and prevent
34 unacceptable degradation to natural and cultural resources, to minimize
35 threats to life or property resulting from the effects of a wildfire, or to
36 repair/replace/construct physical improvements necessary to prevent
37 degradation of land or resources. Emergency stabilization actions must be
38 taken within one year following containment of a wildland fire and
39 documented in a Burned Area Emergency Response Plan.
- 40 • **Rehabilitation** - Efforts taken within three years of containment of a
41 wildland fire to repair or improve wildfire-damaged lands unlikely to
42 recover naturally to management approved conditions, or to repair or
43 replace minor facilities damaged by wildfire. These efforts are documented
44 in a separate Burned Area Rehabilitation Plan.
- 45 • **Restoration** - Continuing the rehabilitation beyond the initial three years or
46 the repair or replacement of major facilities damaged by the wildfire.

1

Post-Fire Activities Table

	Suppression Repair	Emergency Stabilization	Rehabilitation	Restoration
Objective:	Repair suppression damages	Protect life and property	Repair damages	Long Term Ecosystem Restoration
Damage due to:	Suppression activities	Post-fire events	Fire	Fire
Urgency:	Immediately after containment	1-12 months	1-3 years	3 + years
Responsibility	Incident commander	Agency administrator	Agency administrator	Agency administrator
Funding type:	Suppression (fire)	Emergency Stabilization	Rehabilitation	Regular program

2

3

Emergency Stabilization Approval Authorities Table

	BIA	BLM	FWS	NPS	FS
Local Approval Level	<\$250,000 Agency Supt.	\$0 Field/ District Manager	\$0 Refuge Manager	\$0 Park Supt.	\$0 District Ranger
					\$0 Forest Supervisor
Regional/ State Approval Level	\$250,000- \$500,000 Regional Director	<\$100,000 State Director	<\$500,000 Regional Director with Regional Fire Management Coordinator concurrence	<\$500,000 Regional Director	\$500,000 Western Regional Foresters
					\$100,000 Eastern Regional Foresters
National Approval Level	>\$500,000 Director of Fire Management	>\$100,000 Director	>\$500,000 Chief, Branch of Fire Management	>\$500,000 Fire Director	>\$100,000 or \$500,000 Chief

4

Burned Area Emergency Response (BAER) Teams

5 BAER Teams are a standing or ad hoc group of technical specialists (e.g.,
6 hydrologists, biologists, soil scientists, etc.) that develop and may implement
7 portions of the Burned Area Emergency Response Plans. They will meet the
8

- 1 requirements for unescorted personnel found in Chapter 07 under “Visitors to
2 the Fireline” when working within the perimeter of an uncontrolled wildfire.
3 The team’s skills and size should be commensurate with the size and complexity
4 of the wildfire.
- 5 ● It is the agency administrator’s responsibility to designate an
6 interdisciplinary BAER team. However, BAER teams must coordinate
7 closely with IC and Incident Management teams to work safely and
8 efficiently. Initial requests for funding for BAER should be submitted to
9 the appropriate agency administrator for approval within 7 calendar days
10 after the total containment of the fire. If additional time is needed,
11 extensions may be negotiated with those having approval authority.
 - 12 ● *DOI - The Department of the Interior maintains two standing National
13 BAER Teams with pre-identified positions listed in the National Interagency
14 Mobilization Guide and are comprised of personnel from the Bureau of
15 Indian Affairs, Bureau of Land Management, National Park Service, Fish
16 and Wildlife Service and Forest Service. The DOI-BAER Teams are
17 dispatched by the National Interagency BAER Team Dispatch Prioritization
18 Criteria Evaluation.*
19 *[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)*
20 *[BAERTeam%20call-out%20criteria.pdf](http://www.fws.gov/fire/ifcc/Esr/BAER/BAER_Team_Management/2006%20BAERTeam%20call-out%20criteria.pdf)*
 - 21 ● *DOI- The DOI-BAER Teams should be requested at least 10 days prior to
22 expected date of wildfire containment and ordered through the National
23 Mobilization Guide.*
 - 24 ● *FS - The Forest Service utilizes BAER Teams through a pool of resources
25 with the skills identified by the receiving unit. When needed, BAER
26 personnel from other units can either be contacted directly or through
27 dispatch. Placing a general fire resource order for BAER team members
28 via dispatch is not appropriate for ad hoc Forest Service teams. See FSM
29 2523 and FSH 2509.13 for agency specific policy and direction for BAER
30 team.*

31 **Incident Business Management**

- 32
33
34 Specific incident business management guidance is contained in the *Interagency*
35 *Incident business Management Handbook* (PMS 902). This handbook was
36 developed to assist participating agencies of the NWCG to constructively work
37 together to provide effective execution of each agency's incident management
38 program by establishing procedures for:
- 39 ● Uniform application of regulations on the use of human resources, including
40 classification, payroll, commissary, injury compensation, and travel.
 - 41 ● Acquisition of necessary equipment and supplies from appropriate sources
42 in accordance with applicable procurement regulations.
 - 43 ● Managing and tracking government property.
 - 44 ● Financial coordination with the protection agency and maintenance of
45 finance, property, procurement, and personnel records and forms.

- 1 • Use and coordination of incident business management functions as they
- 2 relate to sharing of resources among federal, state, and local agencies,
- 3 including the military.
- 4 • Investigation and reporting of accidents.
- 5 • Investigating, documenting, and reporting claims.
- 6 • Documenting costs and implementing cost-effective criteria for managing
- 7 incident resources.
- 8 • Non-fire incidents administrative processes.

9

10 **Cost Containment**

11 The primary criteria for choosing suppression strategies are to minimize costs
12 without compromising safety. Planned and actual suppression costs must be
13 commensurate with the values to be protected. They must be included and
14 displayed in the Wildland Fire Decision Support System (WFSS)
15 documentation. Indirect containment strategies are appropriate only if they are
16 the safest or least costly option. Selection of these strategies must be carefully
17 scrutinized when fire danger trends are rising. Long duration wildfires need to
18 be closely evaluated by cost containment teams to ensure that operations are not
19 occurring beyond the point of diminishing returns.

20 An Incident Business Advisor (IBA) must be assigned to any fire with costs of
21 \$5 million or more. The complexity of the incident and the potential costs
22 should be considered when assigning either an IBA1 or IBA2. If a qualified
23 IBA is not available, the approving official will appoint a financial advisor to
24 monitor expenditures.

25

26 Incident cost objectives will be included as a performance measure in Incident
27 Management Team evaluations.

28

29 **Large Fire Cost Reviews**

30 An Interagency Large Fire Cost Review will be conducted when an incident
31 (single fire or complex) meets or exceeds Federal combined expenditures of \$10
32 million.

33

34 A review may also be conducted when an incident (single fire or fire complex)
35 meets or is expected to meet one or more of the following criteria:

- 36 • The predicted time to achieve the fire management objective exceeds 21
- 37 days.
- 38 • There are significant political, social, natural resource, or policy concerns.
- 39 • There are significant and complicated cost-share or multi-jurisdictional
- 40 issues.
- 41 • The affected agency requests a review.

42

43 It is the responsibility of the agency administrator to monitor large fire costs and
44 advise the appropriate individual(s) within their agency of the need for a Large
45 Fire Cost Review. When a multi-jurisdictional fire requires review, the local

1 agency administrator will determine which agency will be designated as the lead
2 in the review process.
3
4 The Agency Director will provide a delegation of authority to the Cost Review
5 Team authorizing the implementation of a review.
6
7 The *Large Fire Cost Review Guidebook* and draft Delegation of Authority for
8 use by all federal wildland fire management agencies can be found at
9 <http://www.nwccg.gov/general/memos/nwccg-003-2009.html>.

10 **Cache Management**

12 Agencies often serve as interagency partners in national support caches and
13 local area support caches, and may operate single agency initial attack caches.
14 All caches will maintain established stocking levels, receive and process orders
15 from participating agencies and follow ordering and fire replenishment
16 procedures as outlined by the national and geographic area cache management
17 plans and mobilization guides.

- 18 • *FS - Refer to FSM 5160 for specific requirements.*

20 **National Interagency Support Caches**

21 There are eleven National Interagency Support Caches (NISCs); nine are
22 managed by the Forest Service, and two are managed by the BLM. The eleven
23 national caches are part of the National Fire Equipment System (NFES). Each
24 of these caches provides incident support in the form of equipment and supplies
25 to units within their respective geographic areas. The NFES cache system may
26 support other emergency, disaster, fire-related or land management activities,
27 provided that such support is permitted by agency policies and does not
28 adversely affect the primary mission. These national caches do not provide
29 supplies and equipment to restock local caches for non-incident requests. Non-
30 emergency (routine) orders should be directed to the source of supply, e.g., GSA
31 or private vendors. The Great Basin Cache at NIFC provides publications
32 management support to the National Wildfire Coordinating Group (NWCG).
33 Reference the *NWCG, National Fire Equipment System Catalog (NFES 0362)*
34 for more detailed information.

35
36
37 Forest Service National Symbols Program distribution is through the Northeast
38 Area National Interagency Support Cache. This material is coordinated by the
39 USDA Forest Service, under advisement of the National Association of State
40 Foresters' (NASF) Cooperative Forest Fire Prevention Committee (CFFP) and
41 the DOI Bureau of Land Management. Materials include Smokey Bear
42 prevention items and Junior Forest Ranger environmental educational materials.
43 Northeast Area National Interagency Support Cache also distributes DOI Fire
44 Education materials and provides resource kits for National Fire Prevention
45 Teams. The website at <http://www.symbols.gov/> contains the catalog of these
46 materials and offers information having to do with these programs.

1 **Local Area Interagency 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 **Initial Response 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 NISC's. Inventory management
18 processes should be implemented for all local interagency support and initial
19 action caches.

20

21 **Reporting Requirements**

22 By April 1st of each year, all local interagency support and initial action caches
23 will submit inventories to their servicing NISC.

24

25 All items reported will conform to refurbishment standards set forth in the *Fire*
26 *Equipment Storage and Refurbishment Standards (PMS 448)* available at
27 www.nwccg.gov. Those items not identified in this document will not be
28 refurbished.

29

30 **Accountability**

31 Fire loss/use rate is defined as all property and supplies lost, damaged or
32 consumed on an incident. It is reported as a percentage that is calculated in
33 dollars of items issued compared to items returned. The reasonable anticipated
34 fire loss/use rate for all items issued to an incident is 15 percent of trackable and
35 durable items. Consumable items are not included in this total. All items
36 stocked in agency fire caches will be categorized for return (loss tolerance/use
37 rate) and accountability purposes.

38

39 **Trackable Items**

40 Include items that a cache may track due to dollar value, sensitive property
41 classification, limited quantities available, or other criteria set by each NISC.
42 Items that are considered trackable are usually engraved or tagged with a cache
43 trackable identification number. These items must be returned to the issuing
44 cache at the end of the incident use, or documentation must be provided to the
45 issuing cache as to why it was not returned. All trackable items are also
46 considered durable. 100 percent accountability is expected on trackable items.

1 Durable Items

2 Include cache items considered to have a useful life expectancy greater than one
3 incident. High percentages of return for these items are expected. These items
4 are not specifically cache identified/tagged/engraved. Acceptable loss tolerance/
5 use rates for the following durable goods have been established:

- 6 • 10% for water handling accessories, helicopter accessories, tents and camp
7 items such as heaters, lights, lanterns, tables and chairs.
- 8 • 20% for hose, tools, backpack pumps, sleeping bags, pads and cots.
- 9 • 30% for personal protective equipment.

10

11 Consumable Items

12 Include items normally expected to be consumed during incident use.

13 Consumable items returned in unused condition are credited to the incident.

14 Examples of consumable items are: batteries, plastic canteens, cubitainers,
15 forms, MREs, fusees, hot food containers, petroleum products and medical
16 supplies.

17

18 Incident Management and Environmental Sustainability

19 Every incident should seek opportunities to reduce unnecessary waste and limit
20 impacts associated with management actions. This may be accomplished, for
21 example, by promoting recycling and encouraging the use of alternative energy
22 sources as long as such efforts do not compromise operational or safety
23 objectives.

24

25 Incident to Incident Transfer of Supplies and Equipment

26 Transfer of supplies and equipment between incidents is not encouraged, due to
27 the increased possibility of accountability errors. In instances when it is
28 determined to be economically feasible and operationally advantageous, the
29 following must be accomplished by the Supply Unit Leader from the incident
30 that is releasing the items.

31

32 Documentation will be completed on the *Interagency Incident Waybill (NFES*
33 *#1472)* and must include the following:

- 34 • NFES Number.
 - 35 • Quantity.
 - 36 • Unit of Issue.
 - 37 • Description.
 - 38 • Trackable ID number, if item is trackable.
 - 39 • Receiving incident name, incident number and resource request number.
 - 40 • The Supply Unit Leader will send the waybill transfer information to the
41 servicing NISC to maintain proper accountability recording.
- 42 Upon request, the servicing NISC can provide the Supply Unit Leader with and
43 Outstanding Items Report to facilitate accurate waybill documentation.

44

45

1 Fire Loss Tolerance Reporting for Type 1 and 2 Incidents

2 In order to help managers keep incident-related equipment and supply loss to a
3 minimum, incident management teams (IMT)'s are required to maintain
4 accountability and tracking of these items. Guidelines and procedures to assist
5 with this accountability are provided in Chapter 30 of the *Interagency Incident*
6 *Business Management Handbook*. To further facilitate these procedures and
7 provide oversight, a fire loss report has been developed that provides detailed
8 information regarding used and trackable item use. This report has been
9 accepted by NWCG for all wildland fire agencies and will be compiled for all
10 type 1 and type 2 incidents. Investigations may be conducted in those cases
11 where loss/use tolerances rates may have been exceeded.

12 These reports are compiled by the NISC servicing the particular incident.
13 Reports will then be forwarded to the responsible local office, with a copy to the
14 state/regional FMO, within 60 days of the close of the incident to meet these
15 time limits. The following steps must be followed to insure accurate reports:

- 16 • At the close of each incident, all property must be returned to the servicing
17 NFES cache.
- 18 • If accountable/trackable property has been destroyed or lost, appropriate
19 documentation must be provided to the cache for replacement and updating
20 property records.
- 21 • All property purchased with emergency fire funds for an incident must be
22 returned to the NFES cache system.
- 23 • All unused consumable and/or durable NFES items must be returned to the
24 servicing NFES cache within 30 days of control of the incident.
- 25 • Agency administrators/fire management officers must review the fire loss
26 report and recommend appropriate follow-up action if losses are excessive.
27 Those actions and recommendations should be documented and filed in the
28 final incident records.

29

30 Incident Supply and Equipment Return Procedures

31 Supplies and equipment ordered with suppression funds will be returned to the
32 ordering unit at the close of the incident and dispersed in one of three ways:

- 33 • Items meeting NFES standards will be returned to the local or geographic
34 area cache for reuse within the fire supply system.
- 35 • Items not meeting the prescribed NFES standards will be purchased with
36 project funds by the local unit if the items are needed for program use.
- 37 • Items will be delivered to the unit's excess property program for disposal.

38

39 Cache Returns and Restock Procedures

40 All returns for credit and restock of caches to specific incident charges should be
41 made within 30 days after the close of the incident. If that timeframe cannot be
42 met, it is required that returns and restock be made during the same calendar
43 year as items were issued. All returns should be tagged with appropriate
44 incident number, accompanied by an interagency waybill identifying the
45 appropriate incident number, or accompanied by issue documents to ensure

1 proper account credit is given. Any items returned after the calendar year of
2 issue will be returned to multiple-fire charges, unless specific incident charge
3 documentation (issues) can be provided with the return.

4

5 **Incident Replacement of Government Property**

6 Refer to the *IIBMH*, Chapter 30 for procedures governing property management
7 relating to incident activities. The agency administrator is responsible for
8 providing agency property management guidelines and/or procedures to incident
9 personnel.

10

11 Damage or Loss for assigned property is addressed under *IIBMH* Chapter 30,
12 35.4. Specialty or non-cache items originally provided by the home unit through
13 the use of preparedness funds will be replaced by home unit funds if the loss is
14 due to normal wear and tear. If the government property is damaged on the
15 incident due to a specific event, e.g., wind event damages tent, the incident may,
16 upon receipt of required documentation and proof of damage, authorize
17 replacement using the *Incident Replacement Requisition (OF315)*. Cache items
18 will be replaced at the incident if available. Cache items that are not available at
19 the incident may be authorized for restocking at the home unit via an authorized
20 *Incident Replacement Requisition*.

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Chapter 12 Suppression Chemicals & Delivery Systems

Policy for Use of Fire Chemicals

Use only products qualified and approved for intended use. Follow safe handling procedures, use personal protective equipment recommended on the product label and *Material Safety Data Sheet* (MSDS).

A current list of qualified products and approved uses can be found on the Wildland Fire Chemical Systems (WFCS) website:

- <http://www.fs.fed.us/rm/fire/wfcs/index.htm>
- Link to appropriate Qualified Products List (QPL)

Refer to local jurisdictional policy and guidance related to use of wildland fire chemicals for protection of historic structures.

Products must be blended or mixed at the proper ratio prior to being loaded into the aircraft. Quality control and safety requirements dictate that mixing or blending of wildland fire chemicals be accomplished by approved methods.

Types of Fire Chemicals

Long-Term Retardant

Long-term retardants contain fertilizer salts that change the way fuels burn. They are effective even after the water has evaporated. Retardants may be applied aerially by large air tanker, single engine airtanker (SEAT) and helicopter bucket. Some retardant products are approved for fixed tank helicopters. Some products are formulated specifically for delivery from ground sources. See the QPL for specific uses for each product.

Recommended coverage levels and guidelines for use can be found in the *10 Principles of Retardant Application*, NFES 2048, PMS 440-2 pocket card. Retardant mixing, blending, testing, and sampling requirements can be found at the WFCS website Lot Acceptance and Quality Assurance page: <http://www.fs.fed.us/rm/fire/wfcs/laqa.htm>.

Fire Suppressant Foam

Fire suppressant foams are combinations of wetting and foaming agents added to water to improve the effectiveness of the water. They are no longer effective once the water has evaporated. Foam may be applied by engines, portable pumps, helicopters and SEATs. Some agencies also allow application of foam from fixed-wing water scoopers. See the QPL for specific uses for each product.

1 **Wet Water**

2 Using foam concentrates at a mix ratio of 0.1 percent will produce a wet water
3 solution.

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 Policy for Delivery of Wildland Fire Chemicals near Waterways

19
20
21 Avoid aerial application of wildland fire chemicals within 300 feet of waterways
22 and any ground application of wildland fire chemicals into waterways. The
23 policy has been adopted from the *2000 Guidelines for Aerial delivery of*
24 *Retardant or Foam near Waterways* which were established and approved by
25 the FS, BLM, NPS, and FWS. It has been expanded to include all wildland fire
26 chemicals, including water enhancers.

27 This policy was updated in 2009 and can be found at.

28 [http://www.fs.fed.us/rm/fire/wfcs/Application_Policy-MultiAgency_042209-](http://www.fs.fed.us/rm/fire/wfcs/Application_Policy-MultiAgency_042209-UPDATE.pdf)
29 [UPDATE.pdf](http://www.fs.fed.us/rm/fire/wfcs/Application_Policy-MultiAgency_042209-UPDATE.pdf)

30 Exceptions:

- 31
- 32 • When alternative line construction tactics are not available due to terrain
33 constraints, congested area, life and property concerns or lack of ground
34 personnel, it is acceptable to anchor the wildland fire chemical application
35 to the waterway. When anchoring a wildland fire chemical to a waterway,
36 use the most accurate method of delivery in order to minimize placement of
37 wildland fire chemicals in the waterway (e.g., a helicopter rather than a
38 heavy airtanker).

39
40 When potential damage to natural resources outweighs possible loss of aquatic
41 life, the unit administrator may approve a deviation from these guidelines.

42 Definition of Waterway

43 Any body of water including lakes, rivers, streams and ponds whether or not
44 they contain aquatic life.

45
46

1 **Guidance for Pilots**

2 To meet the 300-foot buffer zone guideline, implement the following:

- 3 • **Medium/Heavy Airtankers:** When approaching a waterway visible to the
4 pilot, the pilot shall terminate the application of wildland fire chemical
5 approximately 300 feet before reaching the waterway. When flying over a
6 waterway, pilots shall wait one second after crossing the far bank or shore
7 of a waterway before applying wildland fire chemical. Pilots shall make
8 adjustments for airspeed and ambient conditions such as wind to avoid the
9 application of wildland fire chemical within the 300-foot buffer zone.
- 10 • **Single Engine Airtankers:** When approaching a waterway visible to the
11 pilot, the pilot shall terminate application of wildland fire chemical
12 approximately 300 feet before reaching the waterway. When flying over a
13 waterway, the pilot shall not begin application of wildland fire chemical
14 until 300 feet after crossing the far bank or shore. The pilot shall make
15 adjustments for airspeed and ambient conditions such as wind to avoid the
16 application of retardant within the 300-foot buffer zone.
- 17 • **Helicopters:** When approaching a waterway visible to the pilot, the pilot
18 shall terminate the application of wildland fire chemical 300 feet before
19 reaching the waterway. When flying over a waterway, pilots shall wait five
20 seconds after crossing the far bank or shore before applying the wildland
21 fire chemical. Pilots shall make adjustments for airspeed and ambient
22 conditions such as wind to avoid the application of wildland fire chemicals
23 within the 300-foot buffer zone.

24

25 This policy does not require the helicopter or airtanker pilot-in-command to fly
26 in such a way as to endanger his or her aircraft, other aircraft, structures or
27 compromise ground personnel safety.

28

29 **Reporting Requirements of Wildland Fire Chemicals into Waterways:**

30 Any fire chemicals aerially applied into a waterway or within 300 feet of a
31 waterway require prompt upward reporting to incident management and agency
32 administrator. Notifications will also be made for any spills or ground
33 applications of fire chemicals into waterways or with potential to enter the
34 waterway.

35

36 If it is believed that fire chemicals have been introduced into a waterway,
37 personnel should immediately inform their supervisor. The incident or host
38 authorities must immediately contact appropriate regulatory agencies and
39 specialists within the local jurisdiction.

40

41 Initial notifications of wildland fire chemical mishaps will be reported as soon as
42 possible to the WFCS Fire Chemical Project Leader in Missoula, Montana at
43 phone 406-329-4859 (if no answer please leave message) or to individuals listed
44 on website referenced below. Include the date, location, and extent of the
45 mishap.

46

- 1 All information, including reporting form and instructions, are posted on the
2 web site at: <http://www.fs.fed.us/rm/fire/wfcs/report.htm>.
- 3 • *FS - Additional Reporting Requirements for Threatened and Endangered*
4 *Species. Reporting is also required for all introductions of wildland fire*
5 *chemicals into habitat for those Threatened and Endangered species*
6 *identified by the U.S Fish and Wildlife Service (FWS). The list and other*
7 *information can be found at <http://www.fs.fed.us/fire/retardant/index.html>.*
8 *This requirement resulted from the Forest Service's acceptance of*
9 *Biological Opinions received from the National Marine Fisheries Service*
10 *(NMFS) and the U.S. Fish and Wildlife Service (FWS). When wildland fire*
11 *chemicals adversely affect any threatened, endangered, or proposed*
12 *species, or designated or proposed critical habitat, regardless of the 300'*
13 *waterway buffer zone, the Forest Service Line Officer must initiate*
14 *emergency consultation with the FWS and/or NMFS. The FS unit should*
15 *coordinate with the local FWS or NMFS office to monitor, determine*
16 *significance of effects, and design appropriate responsive measures. The*
17 *procedures, reporting form and instructions can be found at the same*
18 *website as listed above.*

20 **Endangered Species Act (ESA) Emergency Consultation**

21
22 The following provisions are guidance for complying with the emergency
23 section 7 consultation procedures of the ESA with respect to aquatic species.
24 These provisions do not alter or diminish an action agency's responsibilities
25 under the ESA.

26
27 Where aquatic threatened & endangered (T&E) species or their habitats are
28 potentially affected by aerial application of wildland fire chemical, the following
29 additional procedures apply:

- 30 • As soon as practicable after the aerial application of wildland fire chemical
31 near waterways, determine whether the aerial application has caused any
32 adverse effects to a T&E species or their habitat. This can be accomplished
33 by the following:
- 34 ➤ Aerial application of wildland fire chemical outside 300 ft of a
35 waterway is presumed to avoid adverse effects to aquatic species and
36 no further consultation for aquatic species is necessary.
 - 37 ➤ Aerial application of wildland fire chemical within 300 ft of a
38 waterway requires that the unit administrator determine whether there
39 have been any adverse effects to T&E species within the waterway.
- 40 • These procedures shall be documented in the initial or subsequent fire
41 reports:
- 42 ➤ If there were no adverse effects to aquatic T&E species or their
43 habitats, there is no additional requirement to consult on aquatic species
44 with Fish and Wildlife Service (FWS) or National Marine Fisheries
45 Service (NMFS).

- 1 ➤ If the action agency determines that there were adverse effects on T&E
2 species or their habitats then the action agency must consult with FWS
3 and/or NMFS, as required by 50 CFR 402.05 (Emergencies).
4 Procedures for emergency consultation are described in the *Interagency*
5 *Consultation Handbook*, Chapter 8 (March, 1998). In the case of a
6 long duration incident, emergency consultation should be initiated as
7 soon as practical during the event. Otherwise, post-event consultation
8 is appropriate. The initiation of the consultation is the responsibility of
9 the unit administrator.
10
- 11 Ground application of a wildland fire chemical into a waterway also requires
12 determining whether the application has caused any adverse effects to a T&E
13 species or their habitat. The procedures identified above also apply.
14
- 15 Each agency is responsible for ensuring that their appropriate agency specific
16 guides and training manuals reflect these standards.

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Chapter 13 Firefighter Training and Qualifications

Introduction

National Wildfire Coordinating Group (NWCG) sanctioned firefighters are trained and qualified according to the NWCG and other standards, as outlined below.

Policy

Firefighters must meet standards identified in the NWCG publication *PMS 310-1 National Interagency Incident Management System Wildland Fire Qualifications System Guide*. The 310-1 may be found at <http://www.nwcg.gov/pms/docs/docs.htm>

- **FS** - See *FSH 5109.17* for additional requirements.

Certain firefighters must meet standards identified in the *Interagency Fire Program Management Qualifications Standards and Guide*. The *Interagency Fire Program Management Qualification Standards and Guide* may be found at <http://www.ifpm.nifc.gov>

Agency standards for training and qualifications may exceed the minimum standards established by National Wildfire Coordinating Group (NWCG). Such additional standards will be approved by the Fire Directors, and implemented through the Incident Qualifications and Certification System (IQCS). Standards which may exceed the minimum standards established by NWCG are identified in:

- **BLM** - *BLM Fire and Aviation Training Information Job Aid* which can be found at :
http://www.blm.gov/nifc/st/en/prog/fire/training/fire_training/publications/job_aid.html
- **FWS** - *The Fire Management Handbook*.
- **FS** - *The FSH 5109.17. AD hires sponsored by the Forest Service will meet FSH 5109.17 position qualification standards.*
- **NPS** - *L380 Fireline Leadership is recommended training for single resource bosses; L-381 Incident Leadership is recommended training for RXBI.*

Incident Qualifications and Certification System (IQCS)

The Incident Qualifications and Certification System (IQCS) is the fire qualifications and certification record keeping system. The Responder Master Record report provided by the IQCS meets the agency requirement for maintaining fire qualification records. The system is designed to provide managers at the local, state/regional, and national levels with detailed

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1 qualification, experience, and training information needed to certify employees
2 in wildland fire positions. The IQCS is a tool to assist managers in certification
3 decisions. However, it does not replace the manager's responsibility to validate
4 that employees meet all requirements for position performance based on their
5 agency standards.

6
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 **Incident Qualification Card**

25
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
33 Training, medical screening, and successful completion of the appropriate WCT
34 must be properly accomplished. All Incident Qualification Cards issued to
35 agency employees, with the exception of Emergency Firefighter (EFF-paid or
36 temporary employees at the FFT2 level), will be printed using the IQCS.
37 Incident Qualification Cards issued to EFF or temporary employees at the FFT2
38 level may be printed at the local level without use of the IQCS.

39
40 Each agency will designate employees at the national, regional/state, and local
41 levels as Fire Qualifications Administrators, who ensure all incident experience,
42 incident training, and position Task Books for employees within the agency are
43 accurately recorded in the IQCS. All records must be updated annually or
44 modified as changes occur.

45

- 1 • *NPS - Certification for Area Command and Type 1 Command and General*
2 *Staff (C&GS) position task books will be done at the national office level;*
3 *Type 2 C&GS, and any position task books issued to park fire management*
4 *officers will be certified at the regional office level. All other position task*
5 *books may be certified at the local unit level.*
- 6 • *NPS - It is NPS policy that two or more assignments be accomplished after*
7 *completing a Position Task Book, and receiving certification, before an*
8 *individual begins movement to the next higher level. It is also NPS policy to*
9 *require two or more qualified assignments be accomplished in a position*
10 *before an individual may become a position performance evaluator. The*
11 *only exceptions to this policy are unit leader positions leading to Planning*
12 *Section Chief, Logistics Section Chief, or Finance Section Chief.*
13 *Subordinate unit leader positions require a minimum of one assignment*
14 *after the PTB completion and position certification.*

16 Incident Qualification Card Expiration Dates

17 Incident Qualification Card positions requiring Work Capacity Tests (WCT) are
18 valid through the fitness expiration date listed on the card. Incident
19 Qualification Card positions that do not require WCT for issuance are valid for
20 12 months from the date the card was signed by a certifying official.

22 Universal Training Requirements

23
24 All personnel filling Incident Command System (ICS) positions on the fireline
25 must have completed:

- 26 • S-130 Firefighter Training
27 • S-190 Introduction to Wildland Fire Behavior
28 • L-180 Human Factors on the Fireline
29 • I-100 Introduction to ICS
30 • All Responders:
31 IS-700A NIMS: An Introduction¹
32 • Single Resource Personnel:
33 ICS-200 or equivalent
34 • Strike Team/Taskforce Leaders, Supervisors, and Branch Directors
35 IS-800B National Response Framework, An Introduction²
36 ICS-300 or equivalent
37 • Command and General Staff, Area Command and Emergency Managers:
38 IS-800B National Response Framework, An Introduction²
39 ICS-400 or equivalent

40
41 ¹IS-700A replaces IS-700. Either course meets the requirement

42 ²IS-800B replaces IS-800A. Either course meets the requirement.

- 43 • *FS - Forest Service direction is found in FSH 5109.17.*
44
45

1 Annual Fireline Safety Refresher Training

2

3 Annual Fireline Safety Refresher Training is required for all positions as
4 identified in the *Wildland Fire Qualifications System Guide* (NWCG 310-1)
5 Annual Fireline Safety Refresher Training must include the following core
6 topics:

- 7 • **Avoiding Entrapments** - Use training and reference materials to study the
8 risk management process as identified in the Incident Response Pocket
9 Guide as appropriate to the participants, e.g., LCES, Standard Firefighting
10 Orders, Eighteen Watch Out Situations, Wildfire Decision Support System
11 (WFDSS) direction, Fire Management Plan priorities, etc.
- 12 • **Current Issues** - Review and discuss identified “hot topics” as found on the
13 current Wildland Fire Safety Training Annual Refresher (WFSTAR)
14 website. Review forecasts and assessments for the upcoming fire season and
15 discuss implications for firefighter safety.
- 16 • **Fire Shelter** - Review and discuss last resort survival including escape and
17 shelter deployment site selection. Conduct “hands-on” fire shelter
18 inspections. Practice shelter deployments in applicable crew/module
19 configurations.
- 20 • **Other Hazards and Safety Issues** - Choose additional hazard and safety
21 subjects, which may include SAFENET, current safety alerts, site/unit
22 specific safety issues and hazards.

23

24 These core topics must be sufficiently covered to ensure that personnel are
25 aware of safety concerns and procedures and can demonstrate proficiency in fire
26 shelter deployment. The minimum refresher training hour requirements for each
27 agency is identified below. Training time may be extended in order to
28 effectively complete this curriculum or to meet local training requirements.

29

30 The Annual Fireline Safety Refresher Training course (RT-130) is not a self-
31 study course. Minimum requirements have been established for instructors for
32 Annual Fireline Safety Refresher Training. These requirements will ensure that
33 an appropriate level of expertise and knowledge is available to facilitate
34 refresher training exercises and discussions.

- 35 • Lead instructors must be a qualified single resource boss.
- 36 • Unit instructors must be qualified firefighter type one (FFT1).
- 37 • Adjunct instructors may be utilized to provide limited instruction in
38 specialized knowledge and skills at the discretion of the lead instructor.
39 They must be experienced, proficient and knowledgeable of current issues
40 in their field of expertise.

41

42 For additional information please refer to the current *NWCG Field Manager's*
43 *Course Guide* (PMS 901-1) at:

44 <http://www.nwcg.gov/pms/training/fmcg.pdf>.

45

- 1 • **BLM** - 4 hours
- 2 • **FWS/FS** - No minimum hourly requirement; core topics as shown above
- 3 will be covered.
- 4 • **NPS** - 8 hours
- 5
- 6 Annual Fireline Safety Refresher Training will have a 12-month currency.
- 7 Firefighters who receive initial fire training are not required to take Annual
- 8 Fireline Safety Refresher Training in the same calendar year. A web site,
- 9 <http://www.nifc.gov/wfstar/index.htm>, titled *Wildland Fire Safety Training*
- 10 *Annual Refresher (WFSTAR)* is available to assist in this training.
- 11 • **BLM** - The “Do What’s Right” training is required annual training but is
- 12 not a prerequisite for issuance of an Incident Qualification Card.
- 13
- 14 Entrapment avoidance and deployment protocols are identified in the *Incident*
- 15 *Response Pocket Guide (IRPG) (PMS No. 461/NFES No.1077)*. The guide
- 16 contains a specific “Risk Management Process” and “Last Resort Survival
- 17 Checklist”.
- 18

19 **Qualification and Certification Process**

- 20
- 21 Each unit with fire management responsibilities will establish an Incident
- 22 Qualification Card qualification and certification process. In areas cooperating
- 23 with other federal, state, or local agencies, an interagency qualification and
- 24 certification committee should include representatives from each unit. These
- 25 qualification and certification committees provide management oversight and
- 26 review of the wildland and prescribed fire positions under their jurisdiction. The
- 27 committee also:
- 28 • Ensures that qualifications generated by IQCS or other agency systems for
 - 29 employees are valid by reviewing the training and experience of each
 - 30 employee.
 - 31 • Determines whether each employee possesses the personal characteristics
 - 32 necessary to perform the wildland and prescribed fire positions in a safe and
 - 33 efficient manner.
 - 34 • Makes recommendations to the appropriate agency administrator or
 - 35 designee who is responsible for final certification signature.
 - 36 • Develops interagency training needs and sponsors courses that can be
 - 37 offered locally.
 - 38 • Ensures training nominees meet minimum requirements for attending
 - 39 courses.
 - 40

41 **Non-NWCG Agency Personnel Qualifications**

42 Personnel from non-NWCG agencies meeting *NWCG 310-1* prerequisites can

43 participate in and receive certificates for successful completion of agency taught

44 courses. Agency employees can complete the Task Blocks, Evaluation Record

45 and Verification/Certification sections of a cooperating organizations employee

1 Position Task Book. Agency employees will not initiate or complete the
2 Agency Certification sections of Position Task Book for non-agency employees.

3
4 Personnel from agencies that do not subscribe to the NWCG qualification
5 standards may be used on agency managed fires. Agency fire managers must
6 ensure these individuals are only assigned to duties commensurate with their
7 competencies, agency qualifications and equipment capabilities.

8
9 **Non-NWCG Agency Personnel Use on Prescribed Fire**

10 The NWCG 310-1 *Wildland Fire System Qualifications Guide* establishes the
11 minimum qualifications for personnel involved in prescribed fires on which
12 resources of more than one agency are utilized - unless local agreements specify
13 otherwise. This guide may be found at:
14 <http://www.nwcg.gov/pms/docs/docs.htm>.

15
16 **Physical Fitness**

17
18 **Physical Fitness and Conditioning**

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

25 Fitness conditioning periods may be identified and structured to include aerobic
26 and muscular exercises. Team sports are not authorized for fitness conditioning.
27 Chapters 5, 6, 7, 8, and 9 and appendices F, G, and H of *Fitness and Work*
28 *Capacity 2009 ed.* (PMS 304-2, NFES 1596) and the FireFit Program
29 (<http://www.nifc.gov/FireFit/index.htm>) provide excellent guidance concerning
30 training specifically for the pack test, aerobic fitness programs, and muscular
31 fitness training.

- 32 • *FS - Forest Service direction is found in FSH 5109.17. NFFE Partnership*
33 *bargaining unit employees may only be required to successfully complete*
34 *the WCT once per year.*
- 35 • *NPS – A fitness plan is required for all NPS personnel participating in a*
36 *fitness program (DO-57). For health and fitness purposes, those who are*
37 *fire-qualified at less than the Arduous fitness level are not required to meet*
38 *the mandatory fitness program requirements of DO-57 for wildland fire*
39 *management. They are strongly encouraged to participate in the voluntary*
40 *fitness program, and must still meet physical fitness/work capacity*
41 *requirements as outlined in Wildland Fire Qualifications System Guide*
42 *(310-1) for positions with Moderate and Light fitness requirements.*

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1 Medical Examinations

2 Agency administrators and supervisors are responsible for the occupational
3 health and safety of their employees performing wildland fire activities, and may
4 require employees to take a medical examination at any time.

5 Established medical qualification programs, as stated in 5 CFR 339, provide
6 consistent medical standards in order to safeguard the health of employees
7 whose work may subject them or others to significant health and safety risks due
8 to occupational or environmental exposure or demand.

9
10 Information on any medical records is considered confidential and must be kept
11 in the employee's medical file.

**13 Department of Interior Wildland Firefighter Medical Standards Program
14 (DOI/MSP)**

15 All permanent, career-seasonal, temporary, Student Career Experience Program
16 (SCEP) employees, and AD/EFF who participate in wildland fire activities
17 requiring a fitness level of arduous must participate in the DOI-MSP at the
18 appropriate level (see Medical Examination Requirements appendix N) and
19 must be medically cleared prior to attempting the WCT. Additional information
20 regarding the DOI-MSP can be obtained at
21 http://www.nifc.gov/medical_standards/.

- 22 • *FS - Refer to current agency direction.*

23
24 Under the DOI-MSP the Health Screen Questionnaire (HSQ) will only be
25 required for arduous duty AD/EFF hires less than 45 years of age. If the
26 AD/EFF answers "yes" to a HSQ question and is determined to be "agency
27 mission critical" (e.g. single resource boss) an annual exam may be requested
28 through the medical standards program. The HSQ is not required prior to taking
29 the WCT at the arduous level for all other employment categories (e.g.
30 permanent, seasonal/temporary, term).

31
32 Employees or applicants who fail to meet the Federal Interagency Wildland
33 Firefighter Medical Qualification Standards as a permanent, seasonal/temporary,
34 or term employee may not perform as an AD/EFF for arduous duty positions.

35
36 If a Department of the Interior arduous duty wildland firefighter (WLFF)
37 develops a change in medical status (injury or illness) between yearly medical
38 exams that prevents them from performing arduous duty lasting longer than
39 three consecutive weeks, the WLFF is required to report this change to his/her
40 supervisor who will then contact the DOI-MSP at wlfcsr@blm.gov or call 888-
41 286-2521. The DOI-MSP will consult with the respective Agency Fire Safety
42 Representative and could request that the contracted medical provider ask for
43 additional medical information from the WLFF and reevaluate the WLFF
44 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.*

9 **Agency Specific Medical Examinations**

10 This section applies to all employees required to complete a Health Screen
11 Questionnaire (HSQ).

12
13 The Health Screen Questionnaire (HSQ) will be utilized as a means to identify
14 individuals who may be at risk in taking the Work Capacity Test (WCT) and
15 recommend a medical examination prior to taking the WCT.

16
17 If any “Yes” answer is indicated on the HSQ, a medical examination is required
18 prior to the employee taking the WCT. If there is a known pre-existing medical
19 condition that is already being monitored under medical care (e.g., high blood
20 pressure), a medical clearance statement will be provided by the physician in
21 lieu of a medical examination prior to taking WCT.

22
23 Medical examinations will be performed utilizing the *Certificate of Medical*
24 *Exam, U.S. Office of Personnel Management OF-178*. Stress EKGs are not
25 required as part of the medical examination and will only be approved if
26 recommended and administered by the medical examining physician. Cost for
27 exams will be borne by the home unit. If medical findings during exam require
28 further evaluation, then the cost of any further evaluation or treatment is borne
29 by the employee/applicant. Costs for additional tests specifically requested by
30 the agency will be borne by the agency.

31
32 Standards for moderate and light OF-178s are available from agency Fire Safety
33 Program Managers or Servicing Personnel Offices.

34
35 The examining physician will submit the completed OF-178 (and applicable
36 supplements) to the employee’s servicing human resources office, where it will
37 be reviewed and retained in the employee’s medical file.

- 38 • *NPS - The law enforcement medical exam for NPS rangers, who are*
39 *collateral duty wildland firefighters, will suffice for MSP clearance.*

40 **Health Screen Questionnaire (HSQ)**

41
42 Title 5 CFR Part 339 - Medical Qualification Determinations, which provides a
43 determination of an individual’s fitness-for-duty, authorizes solicitation of this
44 information.

45
46 The approved OMB Health Screen Questionnaire (HSQ) may be found at:

1 http://www.fs.fed.us/fire/safety/wct/wct_index.html

2

3 The information on the HSQ is considered confidential and once reviewed by
 4 the test administrator to determine if the WCT can be administered, it must be
 5 kept in the employee’s medical file (EMF). This file may only be viewed by
 6 Human Resource Management (HRM) or Safety personnel.

- 7 • *FS - See Work Capacity Test Implementation Guide, see website:*
 8 *http://www.fs.fed.us/fire/safety/wct/wct_index.html*

9

10 **Work Capacity Test (WCT) Categories**

11 The *NWCG Wildland Fire Qualification System Guide, PMS 310-1* identifies
 12 fitness levels for specific positions. There are three fitness levels - Arduous,
 13 Moderate, and Light - which require an individual to demonstrate their ability to
 14 perform the fitness requirements of the position. Positions in the “no fitness
 15 level required” category are normally performed in a controlled environment,
 16 such as an incident base.

17

18 Law Enforcement physical fitness standard is accepted as equivalent to a “light”
 19 WCT work category.

20

21

Work Capacity Test Categories

WCT Category	Distance	Weight	Time
Arduous Pack Test	3 miles	45 lb	45 min.
Moderate Field Test	2 miles	25 lb	30 min
Light Walk Test	1 mile	None	16 min

22

- 23 • **Arduous** - Duties involve field work requiring physical performance with
 24 above average endurance and superior conditioning. These duties may
 25 include an occasional demand for extraordinarily strenuous activities in
 26 emergencies under adverse environmental conditions and over extended
 27 periods of time. Requirements include running, walking, climbing, jumping,
 28 twisting, bending, and lifting more than 50 pounds; the pace of the work
 29 typically is set by the emergency conditions.
- 30 • **Moderate** - Duties involve field work requiring complete control of all
 31 physical faculties and may include considerable walking over irregular
 32 ground, standing for long periods of time, lifting 25 to 50 pounds, climbing,
 33 bending, stooping, twisting, and reaching. Occasional demands may be
 34 required for moderately strenuous activities in emergencies over long
 35 periods of time. Individuals usually set their own work pace.
- 36 • **Light** - Duties mainly involve office type work with occasional field
 37 activity characterized by light physical exertion requiring basic good health.
 38 Activities may include climbing stairs, standing, operating a vehicle, and
 39 long hours of work, as well as some bending, stooping, or light lifting.
 40 Individuals can usually govern the extent and pace of their physical activity.

1 Work Capacity Test (WCT) Administration

2 The Work Capacity Test (WCT) is the official method of assessing wildland
3 firefighter fitness levels. General guidelines can be found in the “*Work*
4 *Capacity Tests for Wildland Firefighters, Test Administrator’s Guide*” PMS
5 307, NFES 1109.

6 WCT Administrators must ensure that WCT participants have been medically
7 cleared, either through Wildland Firefighter Medical Qualification Standards or
8 agency specific medical examination.

9
10 WCTs are administered annually to all employees, including AD/EFF who will
11 be serving in wildland fire positions that require a fitness level. The currency for
12 the WCT is 12 months.

13
14 The WCT Record (see appendix M) captures information that is covered under
15 the Privacy Act and should be maintained in accordance with agency Freedom
16 of Information Act (FOIA) guidelines.

17
18 Administration of the WCT of non-federal firefighters is prohibited for liability
19 reasons. Potential emergency firefighters who would be hired under Emergency
20 Hire authority by the agency must be in AD pay status or sign an agency
21 specific volunteer services agreement prior to taking the WCT.

22
23 A Job Hazard Analysis (JHA) shall be developed and approved for each field
24 unit prior to administering the WCT. See the sample JHA found in appendix U.
25 Administer the test using the JHA/RA as a briefing guide.

- 26 • **BLM** - A risk assessment shall be developed and approved for each field
27 unit prior to administering the WCT. A RA for the WCT can be found at:
28 [http://web.blm.gov/internal/wo-700/wo740/tools/RAWorksheets/](http://web.blm.gov/internal/wo-700/wo740/tools/RAWorksheets/RAWorksheet_Library.html)
29 [RAWorksheet_Library.html](http://web.blm.gov/internal/wo-700/wo740/tools/RAWorksheets/RAWorksheet_Library.html)

30
31 Field units need to prepare a medical response plan (such as ICS-206 form) and
32 evaluate options for immediate medical care and transport and identify closest
33 emergency medical services. A minimum of a qualified First
34 Responder/Emergency Medical Responder (EMR) must be on site during WCT
35 administration. Based upon your specific evaluation a higher level of
36 emergency medical qualifications on scene may be warranted e.g. EMT or
37 Paramedic. The need for Automated External Defibrillators (AEDs) may be
38 identified in the medical response plan and used in accordance with state and
39 local protocols.

40
41 Document the results using the WCT Record (see appendix M). This document
42 must be retained until the next testing. Units may also be requested to provide
43 data from these records to assist in the evaluation of the WCT process.

44
45 Personnel taking the WCT will only complete the level of testing (Pack, Field,
46 Walk) required by the highest fitness level identified for a position on their

1 Incident Qualification Card. Employees shall not take the WCT unless they have
2 an Incident Qualification Card qualification that requires it, and only at the
3 fitness level required by that position as identified in the NWCG 310-1 or
4 agency specific guidance or policy.

5

6 Treadmills are not approved for Work Capacity Testing.

7

8 Test results must also be entered in the IQCS annually to update the fitness level
9 and date that will appear on the Incident Qualification Card. Physical fitness
10 dates entered in IQCS will reflect the date the employee passed the fitness test.

- 11 • *FS –Forest Service direction on Work Capacity Testing is found in the*
12 *Work Capacity Test Implementation Guide found at*
13 *http://www.fs.fed.us/fire/safety/wct/wct_index.html*
- 14 • *FWS- Refuge Law Enforcement Officers are required to provide a copy of*
15 *the medical clearance for verification and tracking purposes to the*
16 *appropriate incident qualifications and certifications system (IQCS)*
17 *account manager. Account managers will reflect the appropriate*
18 *examination type and currency for the Refuge Law Enforcement Officer*
19 *examinations in the physical examinations portion of the IQCS system.*

20

21 **WCT Retesting**

22 Those who do not pass the WCT will be provided another opportunity to retest.
23 Employees will have to wait at least 48 hours before retaking the WCT. If an
24 employee sustains an injury (verified by a licensed medical provider) during a
25 test, the test will not count as an attempt. Once an injured employee has been
26 released for full duty, the employee will be given time to prepare for the test (not
27 to exceed 4 weeks). The numbers of retesting opportunities that will be allowed
28 include:

- 29 • Three opportunities for permanent employees required to pass a test for
30 duties in the fire program.
- 31 • One opportunity for temporary employees required to pass a test (a second
32 chance maybe provided at the discretion of fire management).

33

34 **Minimum Age Requirements for Hazardous Duty Assignments on Federal** 35 **Incidents**

36

37 Persons under 18 years old will not perform hazardous duties during wildland
38 fire management operations on federal jurisdictions.

39

40 **Engine Modules**

41

42 Staffing levels and specific requirements for engine personnel may be found in
43 Chapter 14, Fire Fighting Equipment.

44

45

46

1 Helicopter Modules

2

3 Staffing levels and specific requirements for helicopter personnel may be found
4 in Chapter 16, Aviation.

5

6 Smokejumpers (SMKJ)

7

8 Smokejumpers provide professional and effective fire suppression, fuels
9 reduction, and fire management services to help land managers meet objectives.

10

11 SMKJ Policy

12 Smokejumper operations are guided by direction in the interagency section of
13 the *Interagency Smokejumper Operations Guide (ISOG)*.

14

15 Each base will comply with smokejumper operations standards. The arduous
16 duties, specialized assignments, and operations in a variety of geographic areas
17 require smokejumpers to have uniform training, agency approved equipment,
18 communications, organization, and operating procedures.

19

20 SMKJ Communications

21 All smokejumpers carry programmable radios and are proficient in their use and
22 programming procedures.

23

24 SMKJ Training

25 To ensure proficiency and safety, smokejumpers complete annual training that
26 covers aspects of aviation, parachuting, fire suppression tactics, administrative
27 procedures, and safety related to the smokejumper mission and fire operations.

28 The training program for first-year smokejumpers is four weeks long.

29 Candidates are evaluated to determine:

30

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

36

36 SMKJ Qualifications

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

37

1 SMKJ Physical Fitness Standards

2 The national minimum standards for smokejumpers are:

- 3 • 1.5 mile run in 11:00 minutes or less
- 4 • 45 sit-ups
- 5 • 25 pushups
- 6 • 7 pull-ups
- 7 • 110 lb. packout over 3 miles/level terrain/90 minutes
- 8 • Successful completion of the WCT at the arduous level.

10 Interagency Hotshot Crews (IHC)

11
12 Interagency Hotshot Crews provide an organized, mobile, and skilled hand crew
13 for all phases of wildfire suppression.

15 IHC Policy

16 IHC standards provide consistent planning, funding, organization, and
17 management of the agency IHCs. The sponsoring unit will ensure compliance
18 with the established standards. The arduous duties, specialized assignments, and
19 operations in a variety of geographic areas required of IHCs dictate that training,
20 equipment, communications, transportation, organization, and operating
21 procedures are consistent for all agency IHCs.

22
23 As per agency policy all IHCs will be managed under the *Standards for*
24 *Interagency Hotshot Crew Operations (SIHCO)*.

- 25 • **BLM/NPS - BLM Preparedness Review Checklist #12 (Hotshot Crew)**
26 *supersedes the checklist found in the SIHCO.*

28 IHC Certification

29 The process for IHC certification is found in the *Standards for Interagency*
30 *Hotshot Crews (SIHCO)*, Chapter 5, page 14.

32 Annual Crew Pre-Mobilization Process

33 The superintendent of crews holding IHC status the previous season are required
34 to complete the Annual IHC Mobilization Checklist (SIHCO Appendix C) and
35 send the completed document to the local GACC prior to making the crew
36 available for assignment each season.

38 Annual IHC Readiness Review

39 On an annual basis the superintendent of crews holding IHC status the previous
40 season are required to complete the Annual IHC Preparedness Review (SIHCO
41 Appendix B). This process is designed to evaluate crew preparedness and
42 compliance with SIHCO. The annual review will be conducted while the crew
43 is fully staffed and operational. The review is not required prior to a crew being
44 made available for incident assignment at the beginning of their availability
45 period. When a review document is completed the document is kept on file at
46 the local host unit fire management office.

Release Date: January 2011

1 **IHC Organization**

2 Individual crew structure will be based on local needs using the following
3 standard positions: Superintendent, Assistant Superintendent, Squad Leader,
4 Skilled Firefighter, and Crewmember.

5
6 **IHC Availability Periods**

7 IHCs will have minimum availability periods as defined in the *SIHCO*.
8 Availability periods may exceed the required minimum availability period. The
9 Crew Superintendent will inform the local supervisor and the GACC of any
10 changes in the crew's availability.

11
12 **IHC Communications**

13 IHCs will provide a minimum of five programmable multi-channel radios per
14 crew as stated in the *SIHCO*.

15
16 **IHC Transportation**

17 Crews will be provided adequate transportation. The number of vehicles used to
18 transport a crew should not exceed five. All vehicles must adhere to the
19 certified maximum Gross Vehicle Weight (GVW) limitations.

20
21 **Other Hand Crews**

22
23 **Policy**

24 All crews must meet minimum crew standards as defined in appendix T as well
25 as any additional agency, state, or contractual requirements. Typing will be
26 identified at the local level with notification made to the local GACC.

27
28 **Crew Types**

- 29 • **Agency Crews**
30 Agency hand crews consist of qualified agency personnel and are organized
31 on a local basis. These crews are designated as Type 2 or Type 2 IA.
- 32 • **State Crews**
33 State crews are organized under the auspices of individual states. These
34 crews may be designated as Type 1, Type 2, or Type 2 IA. These crews
35 include organized state inmate crews.
- 36 • **Emergency Firefighter Crews (EFF)**
37 These crews are usually Type 2 crews consisting of agency sponsored on
38 call personnel who meet the requirements for Type 2 IA or Type 2 as
39 defined in appendix T.
- 40 • **Contract Crews**
41 These organized crews consist of personnel trained, equipped, and certified
42 by a private contractor and must meet the contractual specifications as
43 stated in their state or national crew contracts.

Wildland Fire Modules

- 1
2
3 Information on wildland fire modules can be found at:
4 <http://www.nwccg.gov/pms/pubs/pubs317/PMS-317.pdf>.
- 5 ● *NPS - The primary mission and priority of the modules is to provide skilled*
6 *and mobile personnel to assist with Wildland Fire Managed for Multiple*
7 *Objectives in the areas of planning, fire behavior monitoring, ignition, and*
8 *holding. Secondary priorities follow in the order below:*
 - 9 ➤ *Support burn unit preparation.*
 - 10 ➤ *Assist with fire effect plot work.*
 - 11 ➤ *Support mechanical hazardous fuel reduction projects.*
 - 12 ● *NPS - As an interagency resource, the modules are available nationally*
13 *throughout the fire season. Each module is comprised of a module leader,*
14 *assistant leader and three to eight module members. Modules are*
15 *mobilized and demobilized through established ordering channels through*
16 *the GACCs.*

Agency Certified Positions

- 17
18
19
20 As a supplement to the qualifications system, certain agencies have identified
21 the additional positions of Prescribed Fire Burn Boss 3 (RXB3) - see Chapter
22 17; Engine Operator (ENOP) - see Chapter 2; and Chainsaw Operators and
23 Fallers listed below.
- 24 ● *FWS - See the Fire Management Handbook for agency specific position*
25 *information.*

Chainsaw Operators and Fallers

- 26
27
28 The agencies have established the following minimum qualification and
29 certification process for Chainsaw Operators (Incident Qualification Card
30 certified as Faller A):
- 31 ● Agency employees who are chainsaw operators and fallers must be
32 minimally qualified as a FFT2 and meet the arduous fitness standards.
 - 33 ● Successful completion of S-212, including the field exercise, or those
34 portions of S-212 appropriate for Faller A duties.
 - 35 ● Agency administrator (or delegate) certification of qualifications after
36 verification that training is successfully completed.
 - 37 ● Documentation must be maintained for individuals.
 - 38 ● The individual tasks required for completion of the "A" Task Book and the
39 final evaluation for the "A" level saw operators must be verified or signed
40 by a qualified "B" or "C" level saw operator.
 - 41 ● The individual tasks required for completion of the "B" Task Book must be
42 evaluated by a qualified "B" or "C" level operator. The Final Evaluator
43 Verification for "B" level operators must be signed by a "C" level saw
44 operator.

- 1 ● The individual tasks required for completion of the “C” Task Book must be
2 evaluated by a qualified “C” level operator. The Final Evaluator
3 Verification for “C” level operators must be signed by a state approved “C”
4 level evaluator.
- 5 ● Each of the states/regions will certify and maintain a list of their current “C”
6 class saw operators who they approve to be “C” class evaluators.
- 7 ● The certification of “C” class evaluators will remain the responsibility of
8 the agency administrator or delegate.
- 9 ● All fire related (Incident Qualification Carded) saw operation qualifications
10 are maintained through the IQCS system and will have a currency of five
11 years.
- 12 ● **BLM/NPS/FWS** - Position task book found at:
13 *<http://www.nwcg.gov/pms/taskbook-agency/index.htm>*
- 14 ● **FWS** - See the *Fire Management Handbook* for additional direction.
15 Information regarding FWS required annual chainsaw refresher can be
16 found at: *<http://sharepoint.fws.net/Programs/nifc/operations/default.aspx>*.
- 17 ● **FS** - FS direction can be found in *FSH 5109.17* and *FSH 6709.11*.
- 18 ● **NPS** - Exceptions to the above policy are:
 - 19 ➤ *Size classes used in the Faller A, Faller B, and Faller C Position Task*
20 *Book are guidelines and are not the determining factor in the*
21 *complexity of a tree felling operation. The size classes are to be used as*
22 *an evaluation tool during trainee evaluation. Chainsaw operators are*
23 *expected to conduct a thorough size up of each individual tree and*
24 *determine the extent of qualification required to safely perform a*
25 *felling operation.*
 - 26 ➤ *The individual tasks required for completion of the “B” Task Book and*
27 *the final evaluation for the Class “B” saw operations must be verified*
28 *by a qualified Class “B” or “C” saw operator.*
 - 29 ➤ *The individual tasks required for completion of the “C” Task Book*
30 *must be verified by a qualified “C” level operator.*
 - 31 ➤ *Final evaluation of “C” level operators must be completed by a*
32 *regionally-approved “C” level evaluator.*

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 Engines

Operational Procedures

All engines will be equipped, operated, and maintained within guidelines established by the Department of Transportation (DOT), regional/state/local operating plans, and procedures outlined in *BLM Manual H-9216, Fire Equipment and Supply Management*, or agency equivalent. All personnel assigned to agency fire engines will meet all gear weight, cube, and manifest requirements specified in the *National Mobilization Guide*.

Fire Engine Staffing

An ENGB will be with every engine, and the minimum staffing is two individuals for Type 4, 5, 6, 7, engines.

For Type 3 engines, minimum staffing is three individuals, including an Engine Boss.

- *BLM - For BLM engine staffing requirements see Chapter 2.*
- *FWS - Minimum staffing for Type, 6 and 7 engines (on Refuge lands) is one ENOP and one FFT2. A minimum of one ICT5 must be available on the engine crew.*
- *NPS - For NPS engine staffing requirements see Chapter 3.*
- *FS - A Single Resource Boss may supervise a type 6 or 7 engine.*

1 Engine Typing

2 Engine Typing and respective standards are identified in the *NWCG Fireline Handbook, 410-1*.

- 3
4 • **FS** - See <http://www.fs.fed.us/fire/equipment/engine-models/models.html> for
5 description of Forest Service national engine standards.

6

7 Driving Standard

8 Refer to driving standards in Chapter 07.

9

10 Engine Water Reserve

11 Engine Operators will maintain at least 10 percent of the pumpable capacity of
12 the water tank for emergency engine protection and drafting.

13

14 Chocks

15 At least one set of wheel chocks will be carried on each engine and will be
16 properly utilized whenever the engine is parked or left unattended. This
17 includes engine operation in a stationary mode without a driver "in place."

18

19 Fire Extinguisher

20 All engines will have at least one 5 lb. ABC rated (minimum) fire extinguisher,
21 either in full view or in a clearly marked compartment.

22

23 Nonskid Surfaces

24 All surfaces will comply with National Fire Protection Association (*NFPA*)
25 *1906 Standard for Wildland Fire Apparatus* requirements.

26

27 First Aid Kit

28 Each engine shall carry, in a clearly marked compartment, a fully equipped 10-
29 person first aid kit.

30

31 Gross Vehicle Weight (GVW)

32 Each engine will have an annually certified weight slip in the vehicle at all
33 times. Weight slip will show individual axle weights and total GVW. Operators
34 of engines and water tenders must ensure that the maximum certified gross
35 vehicle and axle weight ratings are never exceeded, including gear, personnel
36 and fuel. The NFPA 1906 standard of 270 pounds per seat position for each
37 person and their personal gear will be used to calculate the loaded weight.

- 38 • **FS** - Refer to *FSH 7109.19, Chapter 30* for calculation of *Rough Road*
39 *Factor reduction for driving on rough or unsurfaced roads*.

- 40 • **NPS** - A copy of the annual certified weight slip must be sent to the *Fire*
41 *Equipment and Facilities Specialist at the FMPC in Boise* prior to the
42 *vehicle being put into service each season*.

43

44

1 Speed Limits

2 Posted speed limits will not be exceeded.

3

4 Lighting

5 Headlights and taillights shall remain illuminated at all times while the vehicle is
6 in motion. All new orders for fire engine apparatus will include an overhead
7 lighting package in accordance with agency standards. Lighting packages will
8 meet NFPA 1906 standards (6.8, 2006 edition). Engines currently in service
9 may be equipped with overhead lighting packages. A red, white, and amber
10 combination is the accepted color scheme for fire. Lighting packages containing
11 blue lights are reserved for law enforcement and are not allowed on fire
12 vehicles.

13

14 Emergency Light Use

15 Emergency lighting will be used only during on site wildland fire operations or
16 to mitigate serious safety hazards. Overhead lighting and other emergency
17 lighting must meet state code requirements, and will be illuminated whenever
18 the visibility is reduced to less than 300 feet.

- 19 • *DOI- See agency chapters or policy for specific guidance.*
- 20 • *FS- See FSM 5120 and 5135 for red lights and siren policy.*

21

22 Fuel Use, Storage and Transportation

23 Guidance and direction for the use, storage, and transportation of fuel can be
24 found in the *Interagency Transportation Guide for Gasoline, Mixed Gas, Drip*
25 *Torch Fuel, and Diesel* at:

26 <http://www.nwcg.gov/pms/pubs/442/pms442.pdf>

27

28 Fire Engine Maintenance Procedure and Record

29 Apparatus safety and operational inspections will be accomplished either on a
30 post-fire or daily basis. Offices are required to document these inspections.
31 Periodic maintenance (as required by the manufacturer) shall be performed at
32 the intervals recommended and properly documented. All annual inspections
33 will include a pump gallons per minute (GPM) test to ensure the pump/plumbing
34 system is operating at desired specifications.

35

36 Engine Inventories

37 An inventory of supplies and equipment carried on each vehicle is required to
38 maintain accountability and to obtain replacement items lost or damaged on
39 incidents. The standard inventory for engines is found in Appendix R

40

41 Water Tenders

42

43 Water Tender Staffing Standards

44

45 Water Tender (Non-Tactical)

Release Date: January 2011

- 1 • **Qualifications:** CDL (tank endorsement).
- 2 • **Staffing:** A water tender (non-tactical) may be staffed with a crew of one
- 3 driver/operator when it is used in a support role as a fire engine refill unit or
- 4 for dust abatement. These operators do not have to pass the Work Capacity
- 5 Test (WCT) but are required to take annual refresher training.

6

7 **Water Tender (Tactical)**

8 Tactical use is defined as “direct fire suppression missions such as pumping
9 hoses, live reel use, running attack, and use of spray bars and monitors to
10 suppress fires.”

- 11 • **Qualifications:** ENOP, CDL (tank endorsement)
- 12 • **Staffing:** Tactical water tenders will carry a minimum crew of two:
 - 13 ➤ One ENOP
 - 14 ➤ One Engine Module Member

15

16 **Dozers/Tractor Plows**

17

18 **Dozer/Tractor Plow Training and Qualifications**

19 Agency personnel assigned as dozer/tractor plow operators will meet the
20 training standards for a Firefighter 2 (FFT2). This includes all safety and annual
21 refresher training. While on fire assignments, all operators and support crew
22 will meet PPE requirements including the use of aramid fiber clothing, hard
23 hats, fire shelters, boots, etc.

24

25 **Dozer/Tractor Plow Physical Fitness Standards**

- 26 • **BLM/NPS** - All employee dozer/tractor plow operators will meet the WCT
- 27 requirements at the Moderate level before accepting fire assignments.
- 28 • **FWS** - See the Fire Management Handbook
- 29 • **FS** - FS dozer operators refer to FSM 5134.32.

30

31 **Dozer/Tractor Plow Operational Procedures**

- 32 • Agency owned and operated dozer/tractor plows will be equipped with
- 33 programmable two-way radios, configured to allow the operator to monitor
- 34 radio traffic.
- 35 • Agency dozer/tractor plows with non-red carded operators and all contract
- 36 dozer/tractor plows will have agency supplied supervision when assigned to
- 37 any suppression operations.
- 38 • Contract or offer-for-hire dozers must also be provided with radio
- 39 communications, either through a qualified dozer/tractor plow boss or an
- 40 agency-supplied radio. Contract dozer/tractor plows will meet the
- 41 specifications identified in their agreement/contract.
- 42 • Operators of dozer/tractor plows and transport equipment will meet DOT
- 43 certifications and requirements regarding the use and movement of heavy

1 equipment, including driving limitations, CDL requirements, and pilot car
2 use.

3 4 **All Terrain Vehicles (ATV)/Utility-Terrain Vehicles (UTV)**

5
6 The operation of ATV/UTV can be high risk. The use of ATV/UTVs should be
7 evaluated to ensure that use is essential to accomplish the mission, rather than
8 for convenience.

9
10 Because of the high risk nature, agencies have developed specific operational
11 policy (refer to current agency policy). Common policy requirements for
12 wildland fire operations are highlighted below:

- 13 ● A JHA/RA must be completed and approved by the supervisor prior to
14 vehicle operation.
- 15 ● All personnel authorized to operate an ATV/UTV must first complete
16 agency specific or manufacturer-provided training in safe operating
17 procedures and appropriate PPE.
- 18 ● Re-evaluation/Re-certification - Operators shall be re-evaluated every three
19 years. Infrequent users (less than 16 hours of riding a year) shall have a
20 check ride prior to scheduled use of an ATV/UTV.
- 21 ● Specific authorization for ATV/UTV use is required -- all ATV/UTV
22 operations must hold a valid Motor Vehicle Operator's Identification Card,
23 OF-346 or agency equivalent.
- 24 ● ATVs can only have a single rider – passengers are prohibited even if ATV
25 is designed for two riders.
- 26 ● UTVs passengers are limited to the number of seats installed by
27 manufacturer. The operator and passenger(s) must use seatbelts while the
28 vehicle is in motion.
- 29 ● Operators must use required PPE while loading/unloading ATV/UTV.
- 30 ● Cargo loads shall be loaded and secured as to not affect the vehicle's center
31 of gravity and shall not exceed manufacturer's recommendations for
32 maximum carrying capacity.
- 33 ● When transporting external fuel containers with a UTV, a 5 lb class BC fire
34 extinguisher must be secured to the UTV.

35 36 **Required PPE includes:**

37 **ATV Head Protection for Wildland Fire Operations:**

- 38 ● ATV Helmets must meet Snell SA2005 or SA2010 certification.
 - 39 ➤ A ¾ face model meeting Snell SA2005 or SA2010 certification is
40 acceptable for use.
 - 41 ➤ Use of half "shorty" helmets requires a JHA/RA for fireline use and
42 must include justification for its use. Refer to MTDC Tech Tip
43 publication, A Helmet for ATV Operators with Fireline Duties (0651-
44 2350-MTDC).

- 1 ● UTV Head Protection – Helmets must meet DOT, ANSI Z90.1; or Snell
2 SA2005 or SA2010 unless:
- 3 ➤ UTV is used for low speeds and smooth travel surfaces, administrative
4 use (e.g., campgrounds, incident base camps) UTV operators are not
5 required to wear hardhats or helmets.
- 6 ➤ **FWS**- Refer to 243 FW 6.
- 7 ➤ UTV is equipped with approved Rollover Protection System (ROPS),
8 and:
- 9 ➤ **BLM** – *A comprehensive and properly prepared RA of the specific*
10 *conditions demonstrates no more than a medium residual risk level,*
11 *then a hard hat meeting NFPA 1977 or ANSI Z 89.1 standards may be*
12 *worn with chin straps secured in place under chin.*
- 13 ➤ **NPS** - *Approved helmets are required for UTV operations that are*
14 *rated moderate (amber) or high (red) using the "ORV Risk Assessment*
15 *Tool" included in the NPS Off-Highway Vehicle Policy*
- 16 ➤ **FWS**- *A hard hat meeting NFPA 1977 or ANSI Z 89.1 standards may*
17 *be worn with chin straps secured in place.*
- 18 ➤ **FS**- *UTV Helmet (for fire use) – Helmets must have Snell SA*
19 *certification. Wearing hardhats while driving or riding on a UTV is not*
20 *allowed.*
- 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 ● If operating ATV/UTV on the fireline, the following are required:
27 ➤ Leather or leather/flammable resistant combination gloves. Flight gloves are
28 not approved for fireline use.
- 29 ➤ Yellow aramid shirt
30 ➤ Aramid trousers
31 ➤ Wildland fire boots
32 ➤ **FS**- *Shirt, trousers, and gloves used by USFS personnel must meet*
33 *Forest Service specification 5100-91(shirt), 5100-92 (trousers), and*
34 *6170-5 (gloves) or be certified to the National Fire Protection*
35 *Association (NFPA) 1977, Standard on Protective Clothing and*
36 *Equipment for Wildland Fire Fighting.*
- 37 ● ATV/UTV operator shall carry a personal communication device (e.g. two-
38 way radio, cellular phone, or satellite phone).
39
- 40 All other ATV/UTV specific guidance is found in the respective agency's
41 policy:
- 42 ● **BLM** - Refer to *BLM Manual 1112-1, Chapter 27 Off-Highway Vehicles.*
43 *<http://web.blm.gov/internal/wo-700/wo740/policy.html>*

- 1 • *FWS - Employees may only get an exception to PPE requirements with*
2 *concurrency from both the Regional Heavy Equipment Coordinator and*
3 *Regional Safety Manager. Exceptions will only be granted on a case-by-*
4 *case basis. The responsible Project Leader/supervisor must submit the*
5 *request specifically describing why use of the required PPE is unnecessary*
6 *or increases the health and safety risks of operators or passengers. The*
7 *request must include a Job Hazard Assessment.*
- 8 • *NPS - Refer to Reference Manual 50B Occupational Health and Safety,*
9 *Section 6.1 Off-Highway Vehicle Safety*
10 *<http://inside.nps.gov/waso/custommenu.cfm?lv=2&prg=46&id=5898>.*

11 **Vehicle Cleaning/Noxious Weed Prevention**

12
13
14 To reduce the transport, introduction, and establishment of noxious weeds or
15 other invasive species on the landscape due to fire suppression activities, all fire
16 suppression and support vehicles, tools, and machinery should be cleaned at a
17 designated area prior to arriving and leaving the incident. Onsite fire equipment
18 should be used to thoroughly clean the undercarriage, fender wells, tires,
19 radiator, and exterior of the vehicle. Firefighter personnel should clean personal
20 equipment, boots, clothing, etc. of weed or other invasive species materials,
21 including visible plant parts, soil and other materials as identified by the fire
22 resource advisor. The cleaning area should also be clearly marked to identify the
23 area for post fire control treatments, as needed.

24 **Incident Remote Automated Weather Stations**

25
26
27 Incident Remote Automated Weather Stations (IRAWS – NFES 5869) are
28 readily deployable, portable weather stations that may be utilized in unprepared
29 locations to monitor local weather conditions. IRAWS are intended for use on or
30 near the fireline or at other all-risk incidents, and are installed and operated as
31 desired by Fire Behavior Analysts (FBAN) and/or Incident Meteorologists
32 (IMET) to record and distribute real time weather data.

33 National resource IRAWS systems are cached at the National Interagency Fire
34 Center (NIFC) and may be ordered through standard equipment resource
35 ordering systems. Following release from an incident, these stations must be
36 returned to the Remote Sensing/Fire Weather Support Unit (RSFWSU) at NIFC
37 for maintenance, recalibration and redeployment.

- 38 • *XXX FWS- additional information can be found in the Fire Management*
39 *Handbook, chapter 14.*

40 **Aerial Ignition Devices**

41
42
43 Information on types of aerial ignition devices, operational guidelines and
44 personnel qualifications may be found in the *Interagency Aerial Ignition Guide*.

1 Ground Ignition Devices

2

- 3 Guidance and direction for drip torches that meet interagency standards, and the
4 transportation and dispensing of drip torch fuel can be found in the *Interagency*
5 *Transportation Guide for Gasoline, Mixed Gas, Drip Torch Fuel, and Diesel* at:
6 XXX <http://www.nwec.gov/pms/pubs/442/pms442.pdf>
7 • *FS* - direction is found in *FSH 5109.32a* and *6709.11*.

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.

Radio Communications

Radio communications provide for the flow of tactical information needed for the command/control of personnel and resources.

Radio Contracts

For information on contracts, software, hardware requirements and approved radios, contact your agency Telecommunications Department or the NIFC Communications Duty Officer at (208) 387-5644.

- *BLM - For information on BLM contracts, software, and hardware requirements and approved radios, contact the National Radio Communications Division (NRCD) at (208) 387-5830.*

Radio Frequency Management

FM frequencies are authorized and assigned by the designated Washington Office frequency manager and managed by the state and local Communications Officers.

1 Frequencies shall not be used without express permission from the local, state,
2 regional, or national level designated frequency management personnel.

3

4 **Daily Operational Frequency Management**

5 Frequency assignments for normal day to day and initial attack operations are
6 made on a permanent basis and are requested through the normal Radio
7 Frequency Authorization process from the local, state, regional or national level
8 designated frequency management personnel.

9

10 Air operations initial attack frequencies, both AM and FM, will be assigned by
11 the NIFC CDO. These assignments will be on an interagency basis and
12 coordinated with the GACCs.

13

14 **Mutual Aid Frequency Management**

15 Mutual-aid frequency sharing agreements can be made at the local level.
16 However, mutual-aid frequency sharing agreements are only valid in the specific
17 location where they originated. These agreements do not authorize the use of a
18 shared frequency other than in the specified local area.

19

20 NIFC national fire frequencies are not to be used for these agreements. The
21 only exception may occur when an agency holds a National
22 Telecommunications Information Agency (NTIA) Radio Frequency
23 Authorization (RFA) for a frequency that is included in the NIFC Channeling
24 Plan. If this occurs, notification and coordination with the NIFC CDO is
25 requested.

26

27 **Incident Frequency Management**

28 National level coordination and assignments of incident frequencies is the
29 responsibility of the National Interagency Incident Communications Division
30 (NIICD) and is managed by the NIFC CDO.

31

32 When communications requirements exceed normal operations the NIFC CDO
33 may request Geographic Area Coordination Centers (GACC) assign a
34 Communication Coordinator (COMC) to facilitate geographic area frequency
35 management. Additional information may be found in the *National Interagency*
36 *Mobilization Guide*.

- 37 • Type 1 and 2 incident frequencies are assigned by the NIFC CDO and are
38 managed by a qualified Communications Unit Leader (COML). The
39 COML will request, assign, and report all frequencies used on the incident
40 to the NIFC CDO/COMC. This will include the request and assignment of
41 all aircraft frequencies. Frequency use will be documented on the ICS-205
42 Incident Radio Communications Plan and on ICS-220 Air Operation
43 Summary forms. These completed forms will be made available to incident
44 personnel.

- 1 • Type 3 incidents, or other incidents that do not have an assigned COML,
2 will coordinate and request all frequency and communication equipment
3 needs through the COMC and/or the NIFC CDO.
4
- 5 If additional frequencies are required, the COML will order them through the
6 established ordering process.
7
- 8 Additional frequencies for any operation may be available on a temporary basis,
9 and may be requested by the NIFC CDO from the Washington Office
10 (Spectrum) managers when:
- 11 • The NIICD national frequencies are all committed within a specific
12 geographic area.
 - 13 • New incidents within a specific complex create a need for additional
14 frequencies.
 - 15 • The fire danger rating is extreme and the potential for additional new
16 incidents is high.
 - 17 • When there is frequency congestion due to significant numbers of incidents
18 in close proximity.
- 19

20 **Aviation Operations Frequency Management**

- 21 • Air to Air initial attack –AM frequencies are assigned yearly to the GACC’s
22 by the NIFC CDO in coordination with the Federal Aviation Administration
23 (FAA). Once assigned, management of those frequencies is the
24 responsibility of the GACC and may be allocated to zones. Frequencies
25 allocated to zones for initial attack are not to be dedicated for project fire
26 use. If additional frequencies are required, they must be requested from and
27 assigned by the NIFC CDO.
 - 28 • Air to Ground –FM frequencies will be assigned and coordinated by the
29 NIFC CDO and agency frequency managers.
- 30

31 Both AM and FM aviation frequency assignments will be used on an
32 interagency basis and a master record of these assignments is maintained by the
33 NIFC CDO. Updated frequency information is coordinated annually with the
34 GACC’s.

35

36 **Pre-assigned National Frequencies**

37 **National Air Guard Frequency**

38 **168.6250 MHz**

39 A National Interagency Air Guard frequency for aircraft will be used for
40 emergency aviation communications. Continuous monitoring of this frequency
41 in narrowband mode is mandatory by agency dispatch centers. Transmission on
42 this frequency must include the Continuous Tone Coded Squelch System
43 (CTCSS) tone of 110.9 Hz.
44
45

- 1 This frequency, 168.6250 MHz is restricted to the following use:
2 • Air-to-air emergency contact and coordination.
3 • Ground-to-air emergency contact.
4 • Initial call, recall, and re-direction of aircraft when no other contact
5 frequency is available.

6

7 National Flight Following Frequency**8 168.6500 MHz**

9 The National Flight Following Frequency is used to monitor interagency and
10 contract aircraft. This frequency is used for flight following and official aircraft
11 flying point to point; it is not to be used during mission flights or incident
12 operations.

13

14 All dispatch centers/offices will monitor the national flight following frequency
15 at all times. A CTCSS tone of 110.9 must be placed on the transmitter and
16 receiver of the National Flight Following frequency.

17

18 This frequency 168.6500 MHz is restricted to the following use:

- 19 • Flight following, dispatch, and/or re-direction of aircraft.
20 • Air-to-ground and ground-to-air administrative traffic.
21 • Not authorized for ground-to-ground traffic.

22

23 National Interagency Air Tactics Frequencies

24 **166.6750 MHz, 167.9500 MHz, 169.1500 MHz,**
25 **169.2000 MHz, 170.0000 MHz 166.6875 MHz, 171.1375 MHz**

26 These frequencies are used to support air-to-air or ground-to-air
27 communications on incidents west of the 95th meridian. These frequencies shall
28 be used for air-to-air and ground-to-air communications only. They are not for
29 use as ground tactical operational frequencies.

30

31 Transmitter power output of radios installed in aircraft utilizing these
32 frequencies shall be limited to 10 watts. Use of these frequencies in base stations
33 and repeaters is prohibited.

34

35 These frequencies will be assigned by the NIFC CDO or in coordination with
36 the local unit if a NTIA-RFA is in effect.

37

38 National Interagency Airtanker Base Frequency 123.9750 MHz

39 This frequency is assigned by the FAA to all airtanker bases (unless otherwise
40 notified) for exclusive use. Use of this frequency is restricted to a radius of 40
41 nautical miles and 10,000 feet MSL from the coordinates of the airtanker base.
42 No other use is authorized.

43

44

45

1 Government-wide Area Common User Frequencies**2 163.1000 MHz and 168.3500 MHz**

3 These frequencies are used on a non-interference basis and are not exclusive to
4 any user. These frequencies are not to be used for air-to-ground operations and
5 are prohibited by DOI and USDA from use as a frequency during operations
6 involving the protection of life and property.

- 7 • **NOTE:** When traveling between incidents, be sure to monitor for incident
8 radio traffic in the area before using these frequencies.

10 National Interagency Fire Tactical Frequencies

11 168.0500 MHz, 168.200 MHz, 168.6000 MHz, 168.2500 MHz,

12 164.1375 MHz, 166.7250 MHz, 166.7750 MHz

13 These frequencies are used to support ground tactical operations (line of sight)
14 on incidents.

15
16 They are not authorized for:

- 17 • Air to air communications
- 18 • Air to ground communications
- 19 • Mobile radios with more than 5 watts output power
- 20 • Base stations
- 21 • Repeater frequencies

22
23 Use of these frequencies will be coordinated between the COML and the NIFC
24 CDO/COMC. Power output is limited to 5 watts or less.

26 Incident Radio Support

27
28 All National Incident Radio Support Cache (NIRSC) communications
29 equipment will be returned to NIRSC at NIFC immediately after the incident is
30 turned over to the jurisdictional agency.

31
32 No cache communications equipment shall be moved from one incident to
33 another without being first returned to NIRSC for refurbishment. Unused and
34 red-sealed equipment may be moved, but only upon approval of the NUFC CDO
35 or COMC.

37 Military Communications on an Incident

38
39 Military units assigned to an incident have been assigned radios. Each battalion
40 has 80 handheld radios. Sixteen of these radios are used by military crew
41 liaisons. Intercrew communications within a military unit is provided by the
42 military on their radios using their frequencies. All frequency assignments at
43 the incident will be made by the COML in accordance with the ICS-205.

44
45 Some units have aviation VHF-FM radios compatible with civilian systems.
46 Other units are adapting their aircraft for the civilian radios and can be easily

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- 1 outfitted prior to dispatch to an incident. A limited number of wiring harnesses
- 2 are available at NIICD for those military aircraft not having civilian VHF-FM
- 3 capability. Wiring harnesses and radios will be resource ordered by the incident.
- 4 The resource order will include a request for qualified personnel from NIICD to
- 5 perform the installation of the equipment. Equipment will not be sent without
- 6 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

DOI

Aviation Management Directorate (AMD)

The Aviation Management Directorate of the National Business Center is responsible for the coordination of aviation policy development, aircraft acquisition, financial services, and maintenance management within the agencies of the Department of the Interior (DOI). AMD has no operational responsibility. AMD provides aviation safety program oversight, accident investigation, and inspection/approval of aircraft and pilots for DOI agencies.

Bureau of Land Management (BLM)

National Aviation Office (NAO) - NAO develops BLM policy, procedures, and standards. It also maintains functional oversight, and facilitates interagency coordination for all aviation activities. The principal goals are safety and cost-effectiveness. The NAO supports BLM aviation activities and missions. This includes fire suppression, through strategic program guidance, managing aviation programs of national scope, coordination with AMD, and interagency partners. The Fire and Aviation Directorate has the responsibility and authority, after consultation with State FMOs, 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 aircraft resources.

1 Refer to *BLM National Aviation Plan and Manual 9400* for aviation policy and
2 guides. (Refer to 112 DM 12 for a list of responsibilities.)

3

4 **Forest Service (FS)**

5 The FS has responsibility for all aspects of its aviation program, including
6 aviation policy development, aircraft acquisition, and maintenance management.
7 In addition, the FS has operational responsibility including development of
8 aviation procedures and standards, as well as functional oversight of aviation
9 assets and facilities, accident investigation, and aircraft and pilot inspection.

10

11 The Assistant Director, Aviation, is responsible to the Director of Fire and
12 Aviation Management for the management and supervision of the National
13 Headquarters Office in Washington DC, and the detached Aviation Unit in
14 Boise. The AD, Aviation provides leadership, support and coordination for
15 national and regional aviation programs and operations. (Refer to FSM 5704.22
16 for list of responsibilities.)

17 The Branch Chief, Aviation Operations reports to the AD, Aviation, and is
18 responsible for national aviation operational management and oversight.

19

20 The Branch Chief, Airworthiness reports to the AD, Aviation and is responsible
21 for national aircraft worthiness and maintenance program management and
22 oversight.

23

24 The Branch Chief, Aviation Risk Management reports to the AD, Risk
25 Management and Training and is responsible for the national aviation safety and
26 risk management program and oversight.

27

28 **State/Regional Office**

- 29 • *BLM - State FMOs are responsible for providing oversight for aircraft*
30 *hosted in their state. State FMOs have the authority and responsibility to*
31 *approve, with National Office concurrence, acquisition of supplemental*
32 *aircraft resources within their state. State FMOs have the authority to*
33 *prioritize the allocation, pre-positioning and movement of all aircraft*
34 *assigned to the BLM within their state. State Offices will coordinate with*
35 *the National Office on movement of their aircraft outside of their State. A*
36 *State Aviation Manager (SAM) is located in each state office. SAMs are*
37 *delegated as the Contracting Officers Representative (COR) for all*
38 *exclusive use aircraft hosted by their state. SAMs implement aviation*
39 *program objectives and directives to support the agency mission and state*
40 *objectives. A state aviation plan is required to outline the state aviation*
41 *program objectives and to identify state specific policy and procedures.*
- 42 • *NPS/FWS - A Regional Aviation Manager (RAM) is located in each*
43 *regional office. RAMs implement aviation program objectives and*
44 *directives to support the agency mission and region objectives. Several*
45 *regions have additional support staff, and/or pilots assigned to support*
46 *aircraft operations and to provide technical expertise. A regional aviation*

- 1 operations and management plan is required to outline the region's
2 aviation program objectives and to identify region-specific policy and
3 procedures.
- 4 • **FS - Regional Aviation Officers (RAOs)** are responsible for directing and
5 managing Regional aviation programs in accordance with the National and
6 Regional Aviation Management Plans, and applicable agency policy
7 direction. (Refer to FSM 5700 and FSH 5709.16 for list of responsibilities.).
8 RAOs report to Director of Fire and Aviation for their specific Region.
9 Regional Aviation Safety Managers (RASMs) are responsible for aviation
10 safety in their respective Regions, and work closely with the RAO to ensure
11 aviation safety is an organizational priority (refer to FSM 5700 and FSH
12 5709.16 for list of responsibilities). Most Regions have additional aviation
13 technical specialists and pilots who help manage and oversee the Regional
14 aviation programs. Most Regions also have Aviation Maintenance
15 Inspectors, Fixed-wing Program Managers, Helicopter Program Managers,
16 Helicopter Operations Specialists, Inspector Pilots, etc.

18 Local Office

- 19 Some areas have interagency aviation programs that utilize an Aviation Manager
20 for multiple units. Duties are similar as other local level managers.
- 21 • **BLM - Unit Aviation Managers (UAMs)** serve as the focal point for the
22 Unit Aviation Program by providing technical expertise and management of
23 aviation resources to support Field Office/District programs. Field/District
24 Offices are responsible for hosting, supporting, providing daily
25 management, and dispatching all aircraft assigned to their unit.
26 Field/District Offices have the authority to request additional resources; to
27 establish priorities, and make assignments for all aircraft assigned to the
28 BLM within their unit or zone.
 - 29 • **NPS - Organizational responsibility** refer to DO-60, RM-60.
 - 30 • **FS - Unit Aviation Officers (UAOs)/Forest Aviation Officers (FAOs)** have
31 the responsibility for aviation activities at the local level, including aviation
32 mission planning, risk management and safety, supervision, and evaluation.
33 UAOs/FAOs assist Line Officers with risk assessment/management and cost
34 analysis. (Refer to FSH 5709.16_10.42)

36 Aviation Information Resources

- 37
38 Aviation reference guides and aids for agency aviation management are listed
39 for policy, guidance, and specific procedural requirements.
- 40 • **BLM - 9400 Manual Appendix I, National Aviation Plan, State and Unit**
41 **Aviation Plans** (In all cases DOI policy Department Manuals [DMs],
42 **Operational Procedural Memoranda [OPMs], and BLM policy will take**
43 **precedence.**) IHOG, ISOG and Interagency Aerial Supervision Guide
44 (IASG).
 - 45 • **FWS - Service Manual 330-339, Aviation Management and IHOG.**
 - 46 • **NPS - RM-60 Aviation Management Reference Manual and IHOG & IASG.**

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16-3

- 1 • *FS - FSM 5700, FSH 5709.16 and applicable aviation guides as referenced*
2 *in policy.*
3
4 Safety alerts, operational alerts, instruction memoranda, information bulletins,
5 incident reports, and other guidance or information are issued as needed.
6
7 An up-to-date library with aviation policy and procedural references will be
8 maintained at all permanent aviation bases, dispatch, and aviation management
9 offices.

11 **Aviation Safety**

12
13 The FS and the BLM have adopted Safety Management Systems (SMS) as the
14 foundation to our aviation safety program. The four pillars of SMS are Safety
15 Policy, Safety Risk Management, Safety Assurance and Safety Promotion. SMS
16 is the standard for safety set by the International Civil Aviation Organization
17 (ICAO) and the Federal Aviation Administration (FAA).

18
19 SMS focuses on:

- 20 • Emphasis on proactive risk management
- 21 • Promotes a “Just” culture
- 22 • Addresses systemic safety concerns
- 23 • Holds the organization accountable
- 24 • Identifies “What” so we can manage the manageable
- 25 • Communicates the “Why” so the culture can learn from mistakes

26
27 The intent of SMS is to improve the aviation culture by increasing hazard
28 identification, reduce risk taking behavior, learn from mistakes and correct
29 procedures before a mishap occurs rather than after the accident. More
30 information on SMS is available at the Wildland Fire Lessons Learned Center
31 under the Lessons Learned in Link at wildfirelessons.net

33 **Risk Assessment and Risk Management**

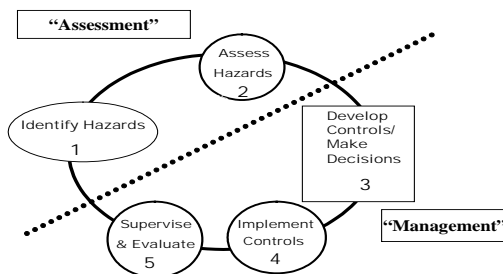
34 The use of Risk Management will help to ensure a safe and successful operation.
35 Risk is the probability that an event will occur. Assessing risk identifies the
36 hazard, the associated risk, and places the hazard in relationship to the mission.
37 A decision to conduct a mission requires weighing the risk against the benefit of
38 the mission and deciding whether the risks are acceptable.

39
40 Aviation missions always have some degree of risk. The four sources of hazards
41 are methods, medium, man, and machine. Managing risk is a 5-step process:

- 42 • Identify hazards associated with all specified and implied tasks for the
43 mission.
- 44 • Assess hazards to determine potential of occurrence and severity of
45 consequences.

- 1 • Develop controls to mitigate or remove risk, and make decisions based on
- 2 accepting the least risk for the best benefit.
- 3 • Implement controls - (1) education controls, (2) physical controls, and (3)
- 4 avoidance controls.
- 5 • Supervise and Evaluate - enforce standards and continuously re-evaluate
- 6 their effectiveness in reducing or removing risk. Ensure that controls are
- 7 communicated, implemented, and enforced.
- 8

THE RISK MANAGEMENT PROCESS



9

10 **How to Properly Refuse Risk (Aviation)**

11 Every individual (government and contracted employees) have the right and

12 obligation to report safety problems affecting his or her safety and has the right

13 to contribute ideas to correct the hazard. In return, supervisors are expected to

14 give these concerns and ideas serious consideration. When an individual feels

15 an assignment is unsafe, he or she also has the obligation to identify, to the

16 degree possible, safe alternatives for completing that assignment. Turning down

17 an assignment is one possible outcome of managing risk.

18

19 A “turn down” is a situation where an individual has determined he or she

20 cannot undertake an assignment as given and is unable to negotiate an

21 alternative solution. The turn down of an assignment must be based on

22 assessment of risks and the ability of the individual or organization to control or

23 mitigate those risks. Individuals may turn down an assignment because of

24 safety reasons when:

- 25 • There is a violation of regulated safe aviation practices.
- 26 • Environmental conditions make the work unsafe.
- 27 • They lack the necessary qualifications or experience.

28

29 Individuals will directly inform their supervisor that they are turning down the

30 assignment as given. The most appropriate means of documented turn down

31 criteria is using the Aviation Watch Out Situations (page 52IRPG).

32

1 Supervisors will notify the Air Operations Branch Director (AOBD) or unit
2 aviation leadership immediately upon being informed of a turn down. If there is
3 no AOBD, notification shall go to the appropriate Section Chief, the Incident
4 Commander or local fire and aviation staff. Proper handling of turn downs
5 provides accountability for decisions and initiates communication of safety
6 concerns within the incident organization.

7
8 If the assignment has been turned down previously and the supervisor asks
9 another resource to perform the assignment, he or she is responsible to inform
10 the new resource that the assignment had been turned down and the reasons
11 why. Furthermore, personnel need to realize that a “turn down” does not stop
12 the completion of the assigned operation. The “turn down” protocol is an
13 integral element that improves the effective management of risk, for it provides
14 timely identification of hazards within the chain of command, raises risk
15 awareness for both leaders and subordinates, and promotes accountability.

16
17 If an unresolved safety hazard exists the individual needs to communicate the
18 issue/event/concern immediately to his or her supervisor and document as
19 appropriate.

20

21 **Aviation Safety Support**

22

23 During high levels of aviation activity it is advisable to request an Aviation
24 Safety and Technical Assistance Team (ASTAT). An ASTAT’s purpose is to
25 enhance risk management, assist and review aviation operations on wildland
26 fires. An ASTAT should be requested through the agency chain of command
27 and operate under a Delegation of Authority from the appropriate State/Regional
28 Aviation Manager(s) or Multi Agency Coordinating Group. Formal written
29 reports shall be provided to the appropriate manager(s) as outlined at the in-
30 brief. A team should consist of the following:

- 31 • Aviation Safety Manager
- 32 • Operations Specialist (helicopter and/or fixed wing)
- 33 • Pilot Inspector
- 34 • Maintenance Inspector (optional)
- 35 • Avionics Inspector (optional)

36

37 **Aviation Safety Briefing**

38 Every passenger must receive a briefing prior to each flight. The briefing is the
39 responsibility of the Pilot in Command (PIC) but may be conducted by the pilot,
40 flight manager, helicopter manager, fixed-wing base manager, or an individual
41 with the required training to conduct an aviation safety briefing. The pilot
42 should also receive a mission briefing from the government aircraft manager
43 Refer to the *Incident Response Pocket Guide (IRPG)* and *IHOG* Chapter 10.

44

45

46

1 Aviation Hazard

2 An aviation hazard is any condition, act, or circumstance that compromises the
3 safety of personnel engaged in aviation operations. Pilots, flight crew personnel,
4 aviation managers, incident air operations personnel, and passengers are
5 responsible for hazard identification and mitigation. Aviation hazards may
6 include but are not limited to the following:

- 7 • Deviations from policy, procedures, regulations, and instructions.
- 8 • Improper hazardous materials handling and/or transport.
- 9 • Airspace conflicts/flight following deviation.
- 10 • Deviation from planned operations.
- 11 • Failure to utilize PPE or Aviation Life Support Equipment (ALSE).
- 12 • Failure to meet qualification standards or training requirements
- 13 • Extreme environmental conditions.
- 14 • Improper ground operations.
- 15 • Improper pilot procedures.
- 16 • Fuel contamination.
- 17 • Unsafe actions by pilot, air crew, passengers, or support personnel.

18
19 Aviation hazards also exist in the form of wires, low-flying aircraft, and
20 obstacles protruding beyond normal surface features. Each office will post,
21 maintain, and annually update a "Known Aerial Hazard Map" for the local
22 geographic area where aircraft are operated, regardless of agency jurisdiction.
23 This map will be posted and used to brief flight crews. Unit Aviation Managers
24 are responsible for ensuring the development and updating of Known Aerial;
25 Hazard Maps (IHOG Ch 3.V.J.1.c page 3-20)

27 Aerial Applications of Wildland Fire Chemical Safety

28 Chapter 12 contains information concerning the aerial application of wildland
29 fire chemicals.

31 SAFECOM

32
33 The DOI and the FS have an incident/hazard reporting form called The Aviation
34 Safety Communiqué (SAFECOM). The database, available at
35 <https://www.safecom.gov/> fulfills the Aviation Mishap Information System
36 (AMIS) requirements for aviation mishap reporting for the DOI agencies and the
37 FS. Categories of reports include: Accidents, Airspace, Hazards, Incidents,
38 Maintenance, Mishap Prevention and Kudos. The system uses the SAFECOM
39 Form AMD-34 or FS-5700-14 to report any condition, observation, act,
40 maintenance problem, or circumstance with personnel or aircraft that has the
41 potential to cause an aviation-related mishap. The SAFECOM system is not
42 intended for initiating punitive actions. Submitting a SAFECOM is not a
43 substitute for "on-the-spot" correction(s) to a safety concern. It is a tool used to
44 identify, document, track and correct safety related issues. A SAFECOM does
45 not replace the requirement for initiating an accident or incident report.

1 Any individual (including cooperators) with knowledge of an incident/hazard
2 should complete a SAFECOM. The SAFECOM form should be entered directly
3 on the internet at <https://www.safecom.gov/> or can be faxed to the Department
4 of the Interior's Aviation Management Directorate, Aviation Safety (208)433-
5 5069 or to the FS at (208) 387-5735 ATTN: SAFETY. Electronic cc copies are
6 automatically forwarded to the National, Regional, State, and Unit Aviation
7 Managers.

8
9 The agency with operational control of the aircraft at the time of the
10 hazard/incident/accident is responsible for completing the SAFECOM and
11 submitting it through agency channels.

12 **Aircraft Incidents/Accidents**

13
14
15 Notification to the FS or AMD and DOI agency Aviation Safety Managers is
16 required for any aircraft mishap involving damage or injury. Use the hotline
17 (888) 464-7427 or the most expeditious means possible. Initiate the appropriate
18 unit Aviation Mishap Response Plan.

19 **Low-level Flight Operations**

20
21
22 The only fixed-wing aircraft missions authorized for low-level fire operations
23 are:

- 24 • Para-cargo.
- 25 • Aerial Supervision Module (ASM) and Lead/ATCO operations.
- 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*. FS authority is granted under exemption 392, from *FAR 91.119*
39 *as referenced in FSM 5714*. When such operations are necessary, they may be
40 authorized subject to these limitations:

- 41 • Airtanker operations in congested areas may be conducted at the request of
42 the city, rural fire department, county, state, or federal fire suppression
43 agency.
- 44 • An ASM/Lead/ATCO is ordered to coordinate aerial operations.

- 1 • The air traffic control facility responsible for the airspace is notified prior to
2 or as soon as possible after the beginning of the operation.
- 3 • A positive communication link must be established between the aerial
4 supervision module ASM or Lead/ATCO, airtanker pilot(s), and the
5 responsible fire suppression agency official.
- 6 • The IC for the responsible fire agency or designee will advise the
7 ASM/leadplane/airtanker that all non-essential people and movable property
8 have been cleared prior to commencing retardant drops.

10 **Airspace Coordination**

11
12 The Interagency Airspace Program is an aviation safety program designed to
13 enhance aviation safety and reduce the risk of a mid-air collision. Guidance for
14 this program is found in the *Interagency Airspace Coordination Guide (IACG)*,
15 which has been adopted as policy by the DOI and FS. Additional guidance may
16 be found in the *National Interagency Mobilization Guide* and supplemented by
17 local Mobilization Guides.

18 www.airspacecoordination.net or <http://airspace.nifc.gov/>

19
20 All firefighting aircraft are required to have operative transponders and will use
21 a transponder code of 1255 when engaged in, or traveling to, firefighting
22 operations (excluding ferry flights), unless given a discrete code by Air Traffic
23 Control (ATC).

24
25 Flight planning and Temporary Flight Restriction (TFR) information on World
26 Aeronautical, Sectional and Global Navigational Charts has been made available
27 at the National Interagency Airspace System website <http://airspace.nifc.gov>. A
28 tactical chart with TFR specific information with incident names, frequencies
29 and altitudes are available. These charts can be found at
30 <http://airspace.nifc.gov/mapping/nifc/index.cfm>

31 Additional references can be found by contacting:

- 32 • **BLM** - *State Aviation Managers, National Airspace Program Manager*
- 33 • **NPS** - *Regional Aviation Managers*
- 34 • **FS** - *Regional Aviation Officers*
- 35 • **FWS** - *National Aviation Safety and Operations*

37 **Flight Request and Approval**

- 38 • **BLM** – *Reference the BLM National Aviation Plan, Chapter 3, available at:*
39 <http://www.blm.gov/style/medialib/blm/nifc/aviation/administration.Par.394>
40 [84.File.dat/NAP.pdf](#)
- 41 • **NPS** - *Reference RM 60, Appendix 3 & 4.*
- 42 • **FS** - *Refer to FSM 5711.3 for administrative use, FSM 5705 for point-to-*
43 *point and mission use for types of FS flights.*

44
45

1 Point-to-Point Flights

2 Point-to-point flights originate at one developed airport or permanent helibase,
3 with the direct flight to another developed airport or permanent helibase. These
4 flights require approved pilots, aircrew, and aircraft.

- 5 • A point-to point flight shall be conducted higher than 500 feet above ground
6 level (AGL).

7
8 Agency policy requires designating a Flight Manager for point-to-point flights
9 transporting personnel. The Flight Manager is a government employee that is
10 responsible for coordinating, managing and supervising flight operations. The
11 Flight Manager is not required to be on board for most flights. For those flights
12 that have multiple legs or are complex in nature a Flight Manager should attend
13 the entire flight. The Flight Manager will meet the qualification standard for the
14 level of mission assigned as set forth in the *Interagency Aviation Training Guide*
15 (IAT).

- 16 • **BLM** –Reference the *BLM National Aviation Plan, Chapter 3, available at:*
17 *<http://www.blm.gov/style/medialib/blm/nifc/aviation/administration.Par.394>*
18 *84.File.dat/NAP.pdf*
- 19 • **NPS** - Reference *RM-60, Appendix 3 for agency specific policy.*
- 20 • **FS** - Refer to *FSM 5711.3 for administrative use, FSM 5705 for point-to-*
21 *point and mission use for types of FS flights.*

23 Mission Flights

24 Mission flights are defined as flights not meeting the definition of point-to-point
25 flight. A mission flight requires work to be performed in the air (retardant or
26 water delivery, fire reconnaissance, smokejumper delivery), or through a
27 combination of ground and aerial work (delivery of personnel and/or cargo from
28 helibases to helispots or unimproved landing sites, rappelling or cargo let-down,
29 horse herding).

- 30 • PPE is required for any fixed wing mission flight conducted below
31 500' AGL. Flight helmets are not required for multi-engine airtanker crews,
32 smokejumper pilots and ASM flight/aircrew members.
- 33 • Required attire for ATGS and fire reconnaissance are:
 - 34 ➤ Leather shoes or boots
 - 35 ➤ Natural fiber shirt, full length cotton or nomex pants, or flight suit
- 36 • The use of PPE is required for all helicopter flight (point to point and
37 mission) and associated ground operations. The specific items to be worn
38 are dependent on the type of flight, the function an individual is performing,
39 or the ground operation being conducted. Refer to the tables in Chapter 9 of
40 the IHOG for specific requirements.
- 41 • All personnel will meet training and qualification standards required for the
42 mission.
- 43 • Agency FM radio capability is required for all mission flights.
- 44 • All passengers must be authorized and all personnel onboard must be
45 essential to the mission.

- 1 Mission flights for fixed-wing aircraft include but are not limited to the
2 following:
- 3 • Water or retardant application
 - 4 • Parachute delivery of personnel or cargo
 - 5 • Airtanker coordinator operations
 - 6 • Takeoff or landing requiring special techniques due to hazardous terrain,
7 obstacles, or surface conditions

- 8
- 9 Mission helicopter flights include but are not limited to the following:
- 10 • Flights conducted within 500 feet AGL
 - 11 • Water or retardant application
 - 12 • Helicopter coordinator and ATGS operations
 - 13 • Aerial ignition activities
 - 14 • External load operations
 - 15 • Rappelling
 - 16 • Takeoff or landing requiring special techniques due to hazardous terrain,
17 obstacles, pinnacles, or surface conditions
 - 18 • Free-fall cargo
 - 19 • Fire reconnaissance

21 **Flight-Following All Aircraft**

22

23 Flight-Following is mandatory for all flights. Refer to the *National Interagency*
24 *Mobilization Guide* for specific direction.

- 25 • Agency FM radio capability is required for all mission flights.
- 26 • For mission flights, there are two types of Agency Flight Following:
27 Automated Flight Following (AFF) and radio check-in. AFF is the preferred
28 method of agency flight following. If the aircraft and flight following office
29 have AFF capability, it shall be utilized. Periodic radio transmissions are
30 acceptable when utilizing AFF. Reference the AFF procedures section of
31 the *National Interagency Mobilization Guide* for more information.
- 32 • All dispatch centers designated for fire support shall have the ability to
33 monitor AFF as well as the capability to transmit and receive “National
34 Flight Following” and “Air Guard”
- 35 • If AFF becomes inoperable the aircraft will normally remain available for
36 service, utilizing radio/voice system for flight following. Each occurrence
37 must be evaluated individually and decided by the COR/CO.
- 38 • Helicopters conducting Mission Flights shall check-in prior to and
39 immediately after each takeoff/landing per IHOG 4.II.E.2

41 **Sterile Cockpit All Aircraft**

42

43 Sterile cockpit rules apply within a 5-mile radius of the airport. The flight crew
44 will perform no radio or cockpit communication during that time that is not
45 directly related to safe flight of the aircraft from taxi to 5 miles out and from 5

1 miles out until clearing the active runway. This would consist of reading
2 checklists, communication with Air Traffic Control (ATC), Flight Service
3 Stations, Unicom, or other aircraft with the intent of ensuring separation or
4 complying with ATC requirements. Communications by passengers or air crew
5 members can be accomplished when the audio panels can be isolated and do not
6 interfere with flight operations of the flight crew.

7
8 **Exception:** When conducting firefighting missions within 5 miles of an
9 uncontrolled airport, maintain sterile cockpit until departing the traffic pattern
10 and reaching final altitude. Monitor CTAF frequency if feasible while engaged
11 in firefighting activities. Monitor CTAF as soon as practical upon leaving the
12 fire and returning to the uncontrolled airport. When conducting firefighting
13 missions within Class B, C, or D airspace, notify dispatch that ATC
14 communications will have priority over dispatch communications.

16 Interagency Interim Flight and Duty Limitations

18 Phase 1 - Standard Flight and Duty Limitations (Abbreviated Summary)

- 19 • Fourteen (14) hour maximum duty day
- 20 • Eight (8) hours maximum daily flight time for mission flights
- 21 • Ten (10) hours for point-to-point, with a two (2) pilot crew
- 22 • Maximum cumulative flight hours of thirty-six (36) hours, up to forty-two
23 (42) hours in six (6) days
- 24 • Minimum of ten (10) hours uninterrupted time off (rest) between duty
25 periods

26
27 This does not diminish the authority or obligation of any individual COR
28 (Contracting Officer Representative) or Aviation Manager to impose shorter
29 duty days or additional days off at any time for any flight crew members for
30 fatigue. This is currently provided for in agency direction and contract
31 specifications.

33 Interim Flight and Duty Limitations Implementation

34 During extended periods of a high level of flight activity or maximum 14-hour
35 days, fatigue factors must be taken into consideration by Fire and Aviation
36 Managers. Phase 2 and/or Phase 3 Duty Limitations will be implemented for
37 specific Geographic Area's Aviation resources. The minimum scope of
38 operation should be by Geographic Area, i.e., Northwest, Great Basin, etc.

39
40 Implementation decisions will be made on a coordinated, interagency basis,
41 involving the GACC, NICC, NMAC and National Aviation Representatives at
42 NIFC.

43
44 Official notification of implementation should be made by the FS Regional
45 Aviation Officer (RAO) and DOI Aviation Managers through the GACC and,

1 for broader scope implementations, by National Aviation Management through
2 NIFC.

3

4 **Phase 2 - Interim Duty Limitations**

5 When Phase 2 is activated, pilots shall adhere to the flight and day-off
6 limitations prescribed in Phase 1 and the duty limitations defined under Phase 2.

7

8 Each flight crew member shall be given an additional day off each fourteen (14)
9 day period. Crews on a twelve (12) and two (2) schedule shall have three (3)
10 consecutive days off (11 and 3). Flight crews on six (6) and one (1) schedules
11 shall work an alternating weekly schedule of five (5) days on, two (2) days off,
12 then six (6) days on and one (1) day off.

13

14 Aircraft fixed daily rates and special rates, when applicable, shall continue to
15 accrue during the extra day off. Contractors may provide additional approved
16 crews to maximize utilization of their aircraft. All costs associated with
17 providing the additional crew will be at the contractor's expense, unless the
18 additional crew is requested by the Government.

19

20 **Phase 3 - Interim Duty Limitations**

21 When Phase 3 is activated, pilots shall adhere to the flight limitations of Phase 1
22 (standard), the additional day off of Phase 2, and the limitations defined under
23 Phase 3.

24

25 Flight crew members shall have a minimum of twelve (12) consecutive hours of
26 uninterrupted rest (off duty) during each duty day cycle. The standard duty day
27 shall be no longer than twelve (12) hours, except a crew duty day extension shall
28 not exceed a cumulative fourteen (14) hour duty day. The next flight crew rest
29 period shall then be adjusted to equal the extended duty day, i.e., thirteen (13)
30 hour duty day, thirteen (13) hours rest; fourteen (14) hour duty day, fourteen
31 (14) hours rest. Extended duty day applies only to completion of a mission. In
32 no case may standby be extended beyond the twelve (12) hour duty day.

33

34 Double crews (two (2) complete flight crews assigned to an aircraft), augmented
35 flight crews (an additional pilot-in-command assigned to an aircraft), and
36 aircraft crews that work a rotating schedule, i.e., two (2) days on, one (1) day
37 off, seven (7) days on, seven (7) days off, or twelve (12) days on, twelve (12)
38 days off, may be exempted from Phase 2 Limitations upon verification that their
39 scheduling and duty cycles meet or exceed the provisions of Paragraph a. of
40 Phase 2 and Phase 1 Limitations.

41 Exemptions of Phase 3 provisions may be requested through the local Aviation
42 Manager or COR, but must be approved by the FS RAO or DOI Area Aviation
43 Manager.

44

45

46

1 Aviation Assets

2

3 Typical agency aviation assets include: Helitack or Rappel, Aerial Supervision
4 (ATGS, Lead, and ASM), Large (multi-engine) Airtankers, Single Engine
5 Airtankers, and Smokejumpers.

- 6 • **BLM** - All BLM acquired aircraft, exclusive use On-Call, CWN and,
7 Variable Term, are available to move to areas of greatest Bureau need,
8 thereby maximizing efficiency and effectiveness. Specific authorities and
9 responsibilities for Field/State and National Offices are outlined earlier in
10 this chapter. Offices are expected to adhere to procedures established in
11 the National Aviation Plan for both acquisition and use reporting.

12

13

14 Helitack

15

16 Helitack crews perform suppression and support operations to accomplish fire
17 and resource management objectives.

18

19 Organization - Crew Size

- 20 • **BLM** - The standard BLM exclusive-use helitack crew size for a type 3
21 helicopter is a minimum of seven personnel (PFT supervisor, long-term
22 assistant, long-term squad boss and four temporaries). The standard BLM
23 exclusive-use helitack crew size for a type 2 helicopter is a minimum of ten
24 personnel (PFT supervisor, long-term assistant, long-term squad boss and
25 seven temporaries). BLM helicopters operated in Alaska need only be
26 staffed with a qualified Helicopter Manager (HMGB). Exceptions to these
27 minimum crew staffing standards must be exempted by the National
28 Aviation Office.
- 29 • **NPS** - Helicopter Exclusive Use modules will consist of a minimum of 8 fire
30 funded personnel. The NPS regions may establish larger crew size and
31 standards for their exclusive use helicopter crews based on the need for an
32 all hazard component (Fire, SAR, Law Enforcement, and EMT). Exception
33 to minimum helicopter crew staffing standards must be approved by the
34 National Aviation Office.
- 35 • **FS** - Regions may establish minimum crew size and standards for their
36 exclusive use helitack crews. Experience requirements for exclusive-use
37 helicopter positions are listed in FSH 5109.17, Chapter 40.

38

39 Operational Procedures

40 The Interagency Helicopter Operations Guide (IHOG) NFES 1885 is policy for
41 helicopter operations.

42

43 Communication

44 The helitack crew standard is one handheld programmable multi-channel FM
45 radio per every 2 crew persons, and one multi-channel VHF-AM programmable
46 radio in the primary helitack crew (chase) truck. Each helitack crew (chase)

1 vehicle will have a programmable VHF-FM mobile radio. Each permanent
 2 helibase will have a permanent programmable FM radio base station and should
 3 be provided a VHF-AM base station radio.

4
 5 **Transportation**

6 Dedicated vehicles with adequate storage and security will be provided for
 7 helitack crews. The required Gross Vehicle Weight (GVW) of the vehicle will
 8 be dependent upon the volume of equipment carried on the truck and the number
 9 of helitack crewmembers assigned to the crew.

- 10 • **BLM** - Minimum vehicle configuration for a seven person crew will consist
 11 of one Class 661 Helitack Support Vehicle and one Class 156, 6-Pack
 12 pickup or Class 166 carryall.

13
 14 **Training and Experience Requirements**

15 All helitack members will meet fire qualifications as prescribed by the *National*
 16 *Wildfire Coordinating Group (NWCG) 310-1* and their agency manual
 17 requirements. The following chart establishes experience and training
 18 requirements for FS, BLM, NPS, and FWS Exclusive Use, Fire Helicopter Crew
 19 Positions.

20
 21 Non-Exclusive Use HECM's and HMGB's should also meet the following
 22 currency requirements.

23

Exclusive Use Fire Helicopter Position Prerequisites			
POSITION ¹	MINIMUM PREREQUISITE EXPERIENCE ²	MINIMUM REQUIRED TRAINING ³	CURRENCY REQUIREMENTS
Fire Helicopter Crew Supervisor	One season ⁴ as an Assistant Fire Helicopter Crew Supervisor, ICT4, HMGB, HEB2		RT-372 ⁵
Assistant Fire Helicopter Crew Supervisor	One season as a Fire Helicopter Squad Boss, ICT4, HMGB, HEB2 (T)	I-200, S-200, S-215, S-230, S-234, S-260, S-270, S-290, S-371, S-372	RT-372 ⁵
Fire Helicopter Squad Boss	One season as a Fire Helicopter Crewmember, FFT1, ICT5	S-131, S-133, S-211, S-212	
Fire Helicopter Crewmember	One season as a FFT2, HECM(T)	I-100, S-130, S-190, S-271	

24 ¹ All Exclusive use Fire Helicopter positions require an arduous fitness rating.

- 1 ² Minimum experience and qualifications required prior to performing in the
2 Exclusive use position. Each level must have met the experience requirements of
3 the previous level(s).
- 4 ³ Minimum training required to perform in the position. Each level must have
5 met the training requirements of the previous level(s).
- 6 ⁴ A “season” is continuous employment in a primary wildland fire position for a
7 period of 90 days or more.
- 8 ⁵ After completing S-372, must attend Interagency Helicopter Manager
9 Workshop (RT-372) within three years and every three years thereafter.
- 10 • *FS- 5109.17_27.1 requires biennial attendance after certification for the*
11 *position occurs.*
- 12 **Note:** Exceptions to the above position standards and staffing levels may be
13 granted, on a case-by-case basis by the BLM National Aviation Office, NPS
14 Regional Office FWS Regional Office, or FS Regional Office as appropriate.
- 15 • Some positions may be designated as COR/Alternate-COR. If so, see
16 individual Agency COR training & currency requirements.
 - 17 • Fire Helicopter Managers (HMGB) are fully qualified to perform all the
18 duties associated with Resource Helicopter Manager.
- 19

20 Helicopter Rappel & Cargo Let-Down

- 21 Any rappel or cargo let-down programs must be approved by the appropriate
22 agency national headquarters.
- 23 • *BLM - BLM personnel involved in an Interagency Rappel Program must*
24 *have SAM approval.*
 - 25 • *NPS - Approval is required by the National Office.*
 - 26 • *FS - Approval is required by the National Office.*
- 27

28 All rappel and cargo let-down operations will follow the *Interagency Helicopter*
29 *Rappel Guide (IHRG)*, as policy. Any exemption to the guide must be by the
30 program through the state/region for approval by the National Aviation Office
31 (BLM), or Director of Fire and Aviation (FS).

32

33 Aerial Ignition

34
35 *The Interagency Aerial Ignition Guide (IAIG)* is policy for all aerial ignition
36 activities.

37

38 Aerial Supervision

39
40 Aerial supervision resources will be dispatched when available to
41 initial/extended attack incidents in order to enhance safety, effectiveness, and
42 efficiency of aerial/ground operations.

43

44 When aerial supervision resources (ATGS, Lead, or ASM) are collocated with
45 Airtankers, they should be launched together to maximize the safety of the flight

1 crews, the efficiency of chemical delivery, and the effectiveness of the fire
2 chemical.

3

4 Incidents with three or more aircraft over/assigned to them should also have
5 aerial supervision in the form of ATGS or ASM.

6

7 Policy dictates additional aerial supervision requirements which are referenced
8 in the *Interagency Aerial Supervision Guide* (NFES 2544).

9

10 **Air Tactical Group Supervisor (ATGS)**

11

12 The ATGS manages incident airspace and controls incident air traffic. Specific
13 duties and responsibilities are outlined in the *Fireline Handbook (PMS 410-1)*
14 and the *Interagency Aerial Supervision Guide*. The ATGS reports to the Air
15 Operations Branch Director (AOBD), or in the absence of the AOBD, to the
16 Operations Section Chief (OSC), or in the absence of the OSC, to the IC.

17

18 The following attire is required for all interagency ATGS operations:

- 19 • Leather shoes or boots
- 20 • Natural fiber shirt, full length cotton or nomex pants or flight suit.

21

22 **Operational Considerations**

- 23 • Relief aerial supervision should be ordered for sustained operations to
24 ensure continuous coverage over an incident.
- 25 • Personnel who are performing aerial reconnaissance and detection will not
26 perform aerial supervision duties unless they are fully qualified as an
27 ATGS.
- 28 • Air tactical aircraft must meet the avionics typing requirements listed in the
29 *Interagency Aerial Supervision Guide* and the pilot must be carded to
30 perform the air tactical mission. Rotor-wing pilots are not required to be
31 carded for air tactical missions.
- 32 • Ground resources will maintain consistent communication with Aerial
33 Supervision in order to maximize the safety, effectiveness, and efficiency of
34 aerial operations.

35

36 **Leadplane**

37

38 A leadplane is a national resource. The *Interagency Aerial Supervision Guide* is
39 agency policy and is available online at
40 http://www.blm.gov/nifc/st/en/prog/fire/Aviation/aerial_supervision.html.

41

42 Agency policy requires an ASM/or Lead/ATCO to be on order prior to aerial
43 applications over a congested area. Operations may proceed before the ASM/or
44 Lead/ATCO arrives, if communications are established with on-site resources,
45 authorization is granted from the IC, and the line is cleared prior to commencing
46 water/chemical application operations.

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16-17

Aerial Supervision Module (ASM)

The Aerial Supervision Module is crewed with both a Lead/ATCO qualified Air Tactical Pilot (ATP) and an Air Tactical Supervisor (ATS). These individuals are specifically trained to operate together as a team. The resource is primarily designed for providing both functions (Lead/ATCO and Air Attack) simultaneously from the same aircraft, but can also provide single role service, as well.

The Air Tactical Pilot is primarily responsible for aircraft coordination over the incident. The ATS develops strategy in conjunction with the Operations Section Chief.

- **BLM** - *The Interagency Aerial Supervision Guide is policy for BLM. The Interagency Aerial Supervision Guide is available online at http://www.blm.gov/nifc/st/en/prog/fire/Aviation/aerial_supervision.html*

Operational Considerations

The ASM is a shared national resource. Any operation that limits the national resource status must be approved by the agency program manager. Aerial or incident complexity and environmental considerations will dictate when the ASM ceases low level operations. The ASM flight crew has the responsibility to determine when the complexity level of the incident exceeds the capability to perform both ATGS and leadplane functions from one aircraft. The crew will request additional supervision resources, or modify the operation to maintain mission safety and efficiency.

Policy

Only those individuals certified and authorized by the BLM - National Aviation Office, or the FS - National Aviation Operations Officer, will function as an Air Tactical Supervisor (ATS) in an ASM mission profile.

Aerial Supervision Module Program Training and Qualifications

Training and qualification requirements for ASM crewmembers are defined in the *Interagency Aerial Supervision Guide* (NFES 2544).

Reconnaissance or Patrol flights

The purpose of aerial reconnaissance or detection flights is to locate and relay fire information to fire management. In addition to detecting, mapping and sizing up new fires, this resource may be utilized to provide ground resources with intelligence on fire behavior, provide recommendations to the IC when appropriate, and describe access routes into and out of fire areas for responding units. Only qualified Aerial Supervisors (ATGS, ASM, HLCO and Lead/ATCO) are authorized to coordinate incident airspace operations and give direction to aviation assets. Flights with a "Recon, Detection or Patrol"

1 designation should communicate with tactical aircraft only to announce location,
2 altitude and to relay their departure direction and altitude from the incident.

3

4 **Large (Multi-engine) Airtankers**

5

6 Airtankers are a national resource. Geographic areas administering these aircraft
7 will make them available for initial attack and extended attack fires on a priority
8 basis. The GACC will ensure that all support functions (e.g. dispatch centers and
9 tanker bases) are adequately staffed and maintained to support the mobilization
10 of aircraft during normal and extended hours.

11

12 For aviation safety and policy concerning wildland fire chemicals see chapter 12
13 (Suppression Chemicals and Delivery Systems)

14

15 Airtankers are operated by commercial vendors in accordance with FAR Part
16 137. The management of Large Airtankers is governed by:

- 17 • **BLM** - *The requirements of the DM and BLM Manual 9400*
- 18 • **FS** - *FS operates Large Airtankers under FSM 5703 and Grant of*
19 *Exemption 392 as referenced in FSM 5714.*

20

21 **Categories**

22 Airtanker types are distinguished by their retardant load:

- 23 • Type 1 - 3,000 gallons
- 24 • Type 2 - 1,800 to 2,999 gallons
- 25 • Type 3 - 800 to 1,799 gallons
- 26 • Type 4 - 799 gallons (single engine airtankers)

27

28 **Airtanker Base Operations**

29

30 Certain parameters for the operation of airtankers are agency-specific. For
31 dispatch procedures, limitations, and times, refer to geographic area
32 mobilization guides and the *Interagency Airtanker Base Operations Guide*
33 (*IATBOG*).

34

35 **Airtanker Base Personnel**

36 There is identified training for the positions at airtanker bases; the *IATBOG*
37 contains a chart of required training for each position. It is critical that reload
38 bases are prepared and staffed during periods of moderate or high fire activity at
39 the base. All personnel conducting airtanker base operations should review the
40 *IATBOG* and have it available.

41

42 **Startup/Cutoff Time for Multi Engine Airtankers**

43 Refer to the *Interagency Aerial Supervision Guide* (NFES 2544).

44

45

46

1 Single Engine Airtankers

2

3 Single Engine Airtanker (SEAT) Operations, Procedures and Safety

4 The *Interagency SEAT Operating Guide (ISOG)* (NFES #1844) defines
5 operating standards and is policy for both the DOI and FS.

6

7 SEAT Manager Position

8 In order to ensure adherence to contract regulations, safety requirements, and
9 fiscal accountability, a qualified SEAT Manager (SEMG) will be assigned to
10 each operating location. The SEMG's duties and responsibilities are outlined in
11 the *ISOG*. To maintain incident qualifications currency a SEAT Manager is
12 required to attend RT-273 every three years. Elements and criteria of RT-273
13 can be found in the *Field Managers Course Guide*, PMS 901-1.

14

15 Operational Procedures

16 Using SEATs in conjunction with other aircraft over an incident is standard
17 practice. Agency or geographical area mobilization guides may specify
18 additional procedures and limitations.

19

20 Depending on location, operator, and availability, SEATs are capable of
21 dropping suppressants, water, or approved chemical retardants. Because of the
22 load capacities of the SEATs (500 to 800 gallons), quick turn-around times
23 should be a prime consideration. SEATs are capable of taking off and landing
24 on dirt, gravel, or grass strips (pilot must be involved in selection of the site); a
25 support vehicle reduces turn-around times.

26

27 Reloading at established airtanker bases or reload bases is authorized. (SEAT
28 operators carry the required couplings). All BLM and FS Airtanker base
29 operating plans will permit SEAT loading in conjunction with Large Airtankers.

30

31 Smokejumper Pilots

32

33 The *Interagency Smokejumper Pilot Operations Guide (ISPOG)* serves as policy
34 for smokejumper pilots' qualifications, training and operations.

35

36 Military or National Guard Aircraft and Pilots

37

38 The *Military Use Handbook (NFES 2175)* will be used when planning or
39 conducting aviation operations involving regular military aircraft. Ordering
40 military resources is done through National Interagency Coordination Center
41 (NICC); National Guard resources are utilized through local or state
42 Memorandum of Understanding (MOU).

43

Chapter 17 Fuels Management

Introduction

The purpose of the Hazardous Fuels Reduction (HFR) programs within the Department of the Interior (DOI) and the Forest Service (FS) is to reduce hazardous fuels (HF) and risks to human communities and improve the health of the land.

The DOI and FS along with other federal, state, tribal, and local partners will work to ensure effective HFR treatment efforts are collectively planned and implemented. These efforts will be consistent with the direction provided in:

- *Review and Update of the 1995 Federal Wildland Fire Management Policy (January 2001)*
- *Guidance for Implementation of Federal Wildland Fire Management Policy (February 13, 2009)*

Policy

The federal fire agencies use the *Interagency Prescribed Fire Planning and Implementation Procedures Guide* (2008) to guide prescribed fire activities. This guide provides standardized procedures, specifically associated with the planning and implementation of prescribed fire.

Policy, project planning and implementation priorities and standards common to all agencies:

- The safety of firefighters and the public is the number one priority when planning and implementing HFR treatment projects.
- All HFR treatment projects will support resource management objectives as identified in their agency specific Land/Resource Management Plans.
- All HFR treatment projects will have plans that contain measurable objectives.
- All HFR treatment projects will comply with National Environmental Policy Act (NEPA) and all other regulatory requirements.
- All HFR management projects will be tracked and progress will be reported within required timeframes.
- All HFR treatment projects will be monitored to determine if treatment objectives were met and to document weather, fire behavior, fuels information, and smoke dispersion. Evaluation reports are to be completed and maintained in the project file.

Some programmatic differences are identified in the following agency specific documentation and serve as agency specific direction.

- **BLM** - Refer to (IM No. OF&A 2009-014)

- 1 • *FWS - Refer to Fire Management Handbook*
- 2 • *NPS - Refer to RM 18*
- 3 • *FS - Refer to FSM 5140*

5 **Reporting HFR Accomplishment**

6
7 The HF module of the National Fire Plan Operations and Reporting System
8 (NFPORS) is the national system for submitting proposed projects for approval,
9 tracking accomplishments of the program, reporting performance, measuring
10 accomplishments, and accountability.

12 **Policy Regarding Planned HF Treatments Burned in a Wildfire**

13
14 For DOI agencies, acres burned in a wildfire may only be reported in NFPORS
15 as prescribed fire if all the following conditions are met:

- 16 • The area burned was in a pre-existing NFPORS treatment unit
- 17 • NEPA is complete
- 18 • The planned objectives were met
- 19 • The accomplishment is approved by a Regional Fuels Specialist

20
21 FS provides direction for reporting accomplishment from unplanned ignitions in
22 the annual budget advice and by Washington Office interim direction letters.

24 **Prescribed Fire during Preparedness Levels 4 and 5**

25
26 Approval is required for implementation of prescribed fires at national
27 preparedness Levels 4 and 5 (Refer to NFES 2092 *National Mobilization Guide*
28 Sections 26.3.4 Preparedness Level 4 and 26.3.5 Preparedness Level 5).

30 **Federal Agencies Assistance**

31
32 Reference Section VI of the *Interagency Agreement For Wildland Fire*
33 *Management among the Bureau of Land Management, Bureau of Indian Affairs,*
34 *National Park Service, Fish and Wildlife Service, of the United States*
35 *Department Of The Interior and the Forest Service of the United States*
36 *Department Of Agriculture, effective May, 2010.*

37
38 Agencies will enter into separate agreements for personnel and other resources
39 provided for planning and implementation of (hazardous fuels management
40 program) treatments and activities. This may or may not result in an exchange
41 of funds subject to the applicable statutory authority used.

42
43
44
45

1 **Hazard Pay/Environmental Differential for Prescribed Fire**
2 **Implementation**

3
4 Current policy is that hazard pay will not be paid for any prescribed fire. Under
5 certain circumstances, hazard pay or environmental differential may be
6 warranted. Offices should contact their servicing personnel office with specific
7 questions.

8
9 **Use of Contractors for Prescribed Fire Implementation**

10
11 Agencies can contract to conduct all or part of the planning and implementation
12 of prescribed fire operations and/or all or part of mechanical treatments for HFR
13 projects.

14
15 If a contractor is actively involved in igniting, holding, or mopping up an agency
16 prescribed fire, a Contracting Officer's Authorized Representative (COAR) or
17 Project Inspector (PI) will be on the site (exceptions can be made for late stage
18 mop up and patrol) to ensure that the burn objectives are being met and that the
19 terms of the contract are adhered to. The agency administrator and/or FMO will
20 determine the qualifications required for the agency representative (COAR or
21 PI).

22
23 **Use of AD Pay Plan for the Hazardous Fuels Program**

24
25 Refer to the DOI Administratively Determined (AD) Pay Plan for Emergency
26 Workers (Casuals) for information regarding the use of emergency workers for
27 hazardous fuel reduction projects.

28
29 Forest Service does not have this authority.

30
31 **Activation of Contingency Resources**

32
33 In the event an agency activates the contingency resources in their burn plan,
34 sending units should respond and support the requesting agency immediately, to
35 ensure that the public and firefighter safety are not compromised.

36
37 **Non-Prescribed Fire HFR Activities**

38
39 For policy, guidance, and standards for implementation of non-prescribed fire
40 hazard fuel reduction treatments (e.g. mechanical, biological, chemical), refer to
41 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 the agency(ies) for accident prevention and safety purposes.

Multiagency Cooperation

Many reviews and investigations involve cooperation between Federal, State, County, and Municipal Agencies. To fulfill each agencies authorities, policies, and responsibilities a multi-agency review or investigation may be necessary.

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-agency cooperation and coordination. Reviews do not have to be associated with a specific incident. The purpose of a review is to ensure the effectiveness of the system element being reviewed, and to identify deficiencies and

1 recommend specific corrective actions. Established review types are described
2 below and include:

- 3 • Preparedness Review
- 4 • After Action Review
- 5 • Fire and Aviation Safety Team Review
- 6 • Aviation Safety and Technical Assistance Team Review
- 7 • Large Fire Cost Reviews
- 8 • Individual Fire Review
- 9 • Lessons Learned Review
- 10 • Escaped Prescribed Fire Review

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Review Types and Requirements

Type	When Conducted	Delegating or Authorizing Official
Preparedness Review	Annually, or management discretion	Local/State/Region/National
After Action Review	Management discretion	N/A
Fire and Aviation Safety Team Review	As fire activity dictates	Geographic Area Coordinating Group
Aviation Safety and Technical Assistance Team Review	As aviation activity dictates	State/Regional Aviation Manager or MACG
Large Fire Cost Review	Refer to NWCG Memorandum #003-2009	Agency Director
Individual Fire Review	Management discretion	Local/State/Region/National
Lessons Learned Review	Management discretion	Local/State/Region/National
Escaped Prescribed Fire Review	See <i>Interagency Prescribed Fire Planning and Implementation Procedures Guide</i> (2008)	

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Preparedness Reviews

14 Preparedness Reviews assess fire programs for compliance with established fire
15 policies and procedures outlined in the current *Interagency Standards for Fire*
16 *and Fire Aviation Operations* and other pertinent policy documents.

17

18 Preparedness Reviews identify organizational, operational, procedural,
19 personnel, or equipment deficiencies, and recommend specific corrective
20 actions. Interagency Preparedness Review Checklists can be found at:
21 http://www.nifc.gov/policies/preparedness_reviews/preparedness_reviews.htm
22

23

After Action Reviews (AAR)

24 An AAR is a learning tool intended for the evaluation of an incident or project
25 in order to improve performance by sustaining strengths and correcting
26

1 weaknesses. An AAR is performed as soon after the event as possible by the
2 personnel involved. An AAR should encourage input from participants that is
3 focused on:

- 4 • What was planned?
- 5 • What actually happened?
- 6 • Why it happened?
- 7 • What can be done the next time?

8
9 An AAR is a tool that leaders and units can use to get maximum benefit from
10 the experience gained on any incident or project. When possible, the leader of
11 the incident or project should facilitate the AAR process. However, the leader
12 may choose to have another person facilitate the AAR as needed and
13 appropriate. AARs may be conducted at any organizational level. However, all
14 AARs follow the same format, involve the exchange of ideas and observations,
15 and focus on improving proficiency. The AAR should not be utilized as an
16 investigational review. The format can be found in the *Interagency Response*
17 *Pocket Guide (IRPG), PMS #461, NFES #1007*

18 **Fire and Aviation Safety Team (FAST) Reviews**

19 Fire and Aviation Safety Teams assist agency administrators during periods of
20 high fire activity by assessing policy, rules, regulations, and management
21 oversight relating to operational issues. They can also do the following:

- 22 • Provide guidance to ensure fire and aviation programs are conducted safely.
- 23 • Assist with providing immediate corrective actions.
- 24 • Review compliance with OSHA abatement plan(s), reports, reviews and
25 evaluations.
- 26 • Review compliance with *Interagency Standards for Fire and Fire Aviation*
27 *Operations*.

28
29
30 FAST reviews can be requested through geographic area coordination centers to
31 conduct reviews at the state/regional and local level. If a more comprehensive
32 review is required, a national FAST can be ordered through the National
33 Interagency Coordination Center.

34
35 FASTs include a team leader, who is either an agency administrator or fire
36 program lead with previous experience as a FAST member, a safety and health
37 manager, and other individuals with a mix of skills from fire and aviation
38 management.

39
40 FASTs will be chartered by their respective Geographic Area Coordinating
41 Group (GACG) with a delegation of authority, and report back to the GACG.

42
43 Fast reports will include an executive summary, purpose, objectives,
44 methods/procedures, findings, recommendations, follow-up actions (immediate,
45 long-term, national issues), and a letter delegating authority for the review.

1 FAST reports should be submitted to the Geographic Area Coordinating Group
2 with a copy to the Federal Fire and Aviation Safety Team (FFAST) chair within
3 30 days. See Appendix O for sample FAST Delegation of Authority.

4 5 **Aviation Safety and Technical Assistance Team (ASTAT) Reviews**

6 Refer to Chapter 16 for ASTAT information.

7 8 **Large Fire Cost Reviews**

9 Information on large fire cost reviews can be found in Chapter 11 (Incident
10 Management), and at [http://www.nwcg.gov/general/memos/nwcg-003-](http://www.nwcg.gov/general/memos/nwcg-003-2009.html)
11 [2009.html](http://www.nwcg.gov/general/memos/nwcg-003-2009.html)

12 13 **Individual Fire Reviews**

14 Individual fire reviews examine all or part of the operations on an individual
15 fire. The fire may be ongoing or controlled. These reviews may be local,
16 state/regional, or national. These reviews evaluate decisions and strategies,
17 correct deficiencies, identify new or improved procedures, techniques or tactics,
18 determine cost-effectiveness, and compile and develop information to improve
19 local, state/regional or national fire management programs.

20 21 **Lessons Learned Reviews (LLRs)**

22 The purpose of a LLR is to focus on the near miss events or conditions in order
23 to prevent potential serious incident in the future. In order to continue to learn
24 from our near misses and our successes it is imperative to conduct a LLR in an
25 open, non-punitive manner. LLRs are intended to provide educational
26 opportunities that foster open and honest dialog and assist the wildland fire
27 community in sharing lessons learned information. LLRs provide an outside
28 perspective with appropriate technical experts assisting involved personnel in
29 identifying root causes and sharing findings and recommendations.

30
31 A LLR should be tailored to the event being reviewed and the extent of the
32 review should be commensurate with the severity of the incident. An LLR
33 should not be used in lieu of a Serious Accident Investigation (SAI) or Non-
34 Serious Accident Investigation (NSAI) if the SAI/NSAI criteria have been met.

- 35 • *FS- Facilitated Learning Analysis (FLA)/Accident Prevention Analysis*
36 *(APA) may be used for incidents meeting the NSAI criteria.*

37
38 A LLR will be led by a facilitator not involved in the event. A facilitator should
39 be an appropriate fire management expert who possesses skills in interpersonal
40 communications, organization, and be unbiased to the event. Personnel
41 involved in the event will be participants in the review process. Depending
42 upon the complexity of the event, the facilitator may request assistance from
43 technical experts (e.g., fire behavior, fire operations, etc.).

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- 1 The LLR facilitator will convene the participants and:
- 2 ● Obtain delegation of authority from appropriate agency level. See appendix
 - 3 K for a sample LLR Delegation of Authority.
 - 4 ● Identify facts of the event (and tables maybe helpful in the process) and
 - 5 develop a chronological narrative of the event.
 - 6 ● Identify underlying reasons for success or unintended outcomes.
 - 7 ● Identify what individuals learned and what they would do differently in the
 - 8 future.
 - 9 ● Identify any recommendations that would prevent future similar
 - 10 occurrences.
 - 11 ● Provide a final written report including the above items to the pertinent
 - 12 agency administrator(s) within two weeks of event occurrence unless
 - 13 otherwise negotiated. Names of involved personnel should not be included
 - 14 in this report (reference them by position).

15
16 A copy of the final report will be submitted to the respective agency's national
17 fire safety lead who will provide a copy to the Wildland Fire Lessons Learned
18 Center (WFLLC). Website: <http://wildfirelessons.net/Home.aspx>.

- 19 ● *FS - The Forest Service has developed two processes for conducting*
- 20 *Lessons Learned Reviews: the Facilitated Learning Analysis (FLA) and the*
- 21 *Accident Prevention Analysis (APA). Guides have been produced for these*
- 22 *processes and are available at:*
- 23 *http://www.wildfirelessons.net/documents/Organizational_Learning_APA_*
- 24 *[FLA_Guides_2010.pdf](http://www.wildfirelessons.net/documents/Organizational_Learning_APA_)*

25 26 **Escaped Prescribed Fire**

27 A prescribed fire which has exceeded or is expected to exceed its prescription.

28 29 **Escaped Prescribed Fire Reviews**

30 Escaped prescribed fire review direction is found in these agency documents:
31 *Interagency Prescribed Fire Planning and Implementation Procedures*
32 *Reference Guide (August 2008)*

- 33 ● *BLM - IM No. OF&A 2009-014*
- 34 ● *FWS - Fire Management Handbook*
- 35 ● *NPS - RM-18, Chapter 7 & 17*
- 36 ● *FS - FSM 5140*

37 38 **Investigations**

39
40 Investigations are detailed and methodical efforts to collect and interpret facts
41 related to an incident or accident, identify causes (organizational factors, local
42 workplace factors, unsafe acts), and develop control measures to prevent
43 recurrence.

1 **Wildland Fire Incident and Accident Definitions**

2

3 • **Serious Wildland Fire Accident**

4 An unplanned event or series of events that resulted in death; injury,
5 occupational illness, or damage to or loss of equipment or property. For
6 wildland fire operations, a serious accident involves any of the following:

- 7 ➤ One or more fatalities.
8 ➤ Three or more personnel who are inpatient hospitalized as a direct
9 result of or in support of wildland fire operations.
10 ➤ Property or equipment damage of \$250,000 or more.
11 ➤ Consequences that the Designated Agency Safety and Health Official
12 (DASHO) judges to warrant Serious Accident Investigation.

13 • **Non-Serious Wildland Fire Accident**

14 An unplanned event or series of events that resulted in injury, occupational
15 illness, or damage to or loss of equipment or property to a lesser degree than
16 defined in “Serious Wildland Fire Accident.”

17 • **Near-miss**

18 An unplanned event or series of events that could have resulted in death;
19 injury; occupational illness; or damage to or loss of equipment or property
20 but did not.

21 • **Entrapment**

22 A situation where personnel are unexpectedly caught in a fire behavior-
23 related, life-threatening position where planned escape routes or safety
24 zones are absent, inadequate, or compromised. Entrapment may or may not
25 include deployment of a fire shelter for its intended purpose. Entrapment
26 may result in a serious wildland fire accident, a non-serious wildland fire
27 accident, or a near-miss.

28 • **Fire Shelter Deployment**

29 The removing of a fire shelter from its case and using it as protection
30 against fire. Fire shelter deployment may or may not be associated with
31 entrapment. Fire shelter deployment may result in a serious wildland fire
32 accident, a non-serious wildland fire accident, or a near-miss.

33 • **Fire Trespass**

34 The occurrence of unauthorized fire on agency-protected lands where the
35 source of ignition is tied to some type of human activity.
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1 **Investigation Types and Requirements**

Wildland Fire Event	Investigation Type	Notification Requirement	Management level that determines review type and authorizes review*
Serious Wildland Fire Accident	Serious Accident Investigation (SAI)	National	National
Non Serious Wildland Fire Accident	Non-Serious Accident Investigation (NSAI) <i>FS only- APA/FLA may be used</i>	<i>BLM/NPS-National</i> <i>FS/FWS-Management Discretion</i>	Region/State/Local
Entrapment	SAI, NSAI, LLR, depending on severity	National	National
Fire Shelter Deployment	SAI, NSAI, LLR, depending on severity	National	National
Near-miss	LLR, AAR	Management Discretion	Region/State/Local
Fire Trespass	Fire Cause Determination & Trespass Investigation	Local	Local

2 * Higher level management may exercise their authority to determine the type of
 3 review or investigation.

4

5 **Investigation Processes**

6

7 **Processes Common to Serious and Non-Serious Wildland Fire**

8 **Investigations**

- 9 • **Site Protection** - The site of the incident should be secured immediately
 10 and nothing moved or disturbed until the area is photographed and visually
 11 reviewed. Exact locations of injured personnel, entrapments, injuries,
 12 fatalities, and the condition and location of personal protective equipment,
 13 property, and other equipment must be documented.
- 14 • **Management of Involved Personnel** - Treatment, transport, and follow-up
 15 care must be immediately arranged for injured and involved personnel. The
 16 agency administrator or delegate should develop a roster of involved
 17 personnel and supervisors and ensure they are available for interviews by
 18 the investigation team. The agency administrator should consider relieving
 19 involved supervisors from fireline duty until the preliminary investigation
 20 has been completed. Attempt to collect initial statements from the involved
 21 individuals prior to a Critical Incident Stress Management (CISM) session.

- 1 • **Critical Incident Stress Management (CISM)** - CISM is the
2 responsibility of local agency administrators, who should have individuals
3 pre-identified for critical incident stress debriefings. Also refer to The
4 Agency Administrator's Guide to Critical Incident Management (PMS 926),
5 available at: <http://www.nwcg.gov/pms/pubs/pms926.doc>. Individuals or
6 teams may be available through Employee Assistance Programs (EAPs) or
7 Geographic Area Coordination Centers (GACCs).
- 8 • **24-Hour-Preliminary Report** - This report contains known basic facts
9 about the accident. It will be completed and forwarded by the agency
10 administrator responsible for the jurisdiction where the accident occurred.
11 Names of injured personnel are not to be included in this report (reference
12 them by position).
- 13 • **72-Hour Expanded Report** - This report provides more detail about the
14 accident and may contain the number of victims, severity of injuries, and
15 information focused on accident prevention. It will be completed and
16 forwarded by the SAI Team. Names of injured personnel are not to be
17 included in this report (reference them by position).
- 18 • **24 and 72 Hour Reports** shall be sent to the respective agency's fire
19 safety/risk management lead for national distribution and potential posting
20 through NWCG Safety Alert System.

21 **Wildland Fire Serious Accident Investigation Process**

22 **Fire Director Responsibilities**

23 The Fire Director(s) or designee(s) of the lead agency, or agency responsible for
24 the land upon which the accident occurred, will:

- 25 • Notify the agency safety manager and Designated Agency Safety and
26 Health Official (DASHO).
- 27 • Immediately appoint, authorize, and deploy an accident investigation team.
- 28 • Provide resources and procedures adequate to meet the team's needs.
- 29 • Receive the factual and management evaluation reports and take action to
30 accept or reject recommendations.
- 31 • Forward investigation findings, recommendations, and corrective action
32 plan to the DASHO (the agency safety office is the "office of record" for
33 reports).
- 34 • Convene an accident review board/ board of review (if deemed necessary)
35 to evaluate the adequacy of the factual and management reports and suggest
36 corrective actions.
- 37 • Ensure a corrective action plan is developed, incorporating management
38 initiatives established to address accident causal factors.
- 39 • Ensure Serious Accident Investigations remain independent of other
40 investigations.
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1 **Agency Administrator Responsibilities**

- 2 ● Develop local preparedness plans to guide emergency response.
3 ● Identify agencies with jurisdictional responsibilities for the accident.
4 ● Provide for and emphasize treatment and care of survivors.
5 ● Ensure the Incident Commander secures the accident site.
6 ● Conduct an in-briefing to the investigation team.
7 ● Facilitate and support the investigation as requested.
8 ● Determine need and implement Critical Incident Stress Management
9 (CISM).
10 ● Notify home tribe leadership in the case of a Native American fatality.
11 ● Prepare and issue required 24 Hour Preliminary Report.

12
13 **Notification**

14 Agency reporting requirements will be followed. As soon as a serious accident
15 is verified, the following groups or individuals should be notified:

- 16 ● Agency administrator
17 ● Public affairs
18 ● Agency Law Enforcement
19 ● Safety personnel
20 ● County sheriff or local law enforcement as appropriate to jurisdiction
21 ● National Interagency Coordination Center (NICC)
22 ● Agency headquarters
23 ● OSHA (within 8 hours if the accident resulted in one or more fatalities or if
24 three or more personnel are inpatient hospitalized)

25
26 Notification to the respective agency's fire national safety/risk management lead
27 is required.

28
29 **Designating the Investigation Team Lead**

30 The 1995 Memorandum of Understanding between the U.S. Department of the
31 Interior and the U.S. Department of Agriculture states that serious wildland fire-
32 related accidents will be investigated by interagency investigation teams.
33 Following initial notification of a serious accident, the National Fire Director(s)
34 or their designee(s) will designate a Serious Accident Investigation Team
35 Lead(s) and provide that person(s) with a written delegation of authority to
36 conduct the investigation and the means to form and deploy an investigation
37 team.

38
39 Accidents involving more than one agency will require a collaboratively
40 developed delegation of authority that is signed by each of the respective
41 agencies.

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1 **Serious Accident Investigation Team Composition**

2 • **Team Leader (Core Team Member)**

3 A senior agency management official, at the equivalent associate/assistant
4 regional/state/area/division director level. The team leader will direct the
5 investigation and serve as the point of contact to the Designated Agency
6 Safety and Health Official (DASHO).

7 • **Chief Investigator (Core Team Member)**

8 A qualified accident investigation specialist is responsible for the direct
9 management of all investigation activities. The chief investigator reports to
10 the team leader.

11 • **Accident Investigation Advisor/Safety Manager (Core Team Member)**

12 An experienced safety and occupational health specialist or manager who
13 acts as an advisor to the team leader to ensure that the investigation focus
14 remains on safety and health issues. The accident investigation
15 advisor/safety manager also works to ensure strategic management issues
16 are examined.

17 • **Interagency Representative**

18 An interagency representative will be assigned to every fire-related Serious
19 Accident Investigation Team. They will assist as designated by the team
20 leader and will provide outside agency perspective.

21 • **Technical Specialists**

22 Personnel who are qualified and experienced in specialized occupations,
23 activities, skills, and equipment, addressing specific technical issues such as
24 specialized fire equipment, weather, and fire behavior.

25 • **Public Affairs Officer**

26 For investigations with high public visibility and significant news media
27 interest, a public affairs officer (PAO) should be considered to be part of the
28 team. The PAO generally should not be affiliated with the home unit. The
29 PAO should develop a communications plan for the team, be a designated
30 point of contact for news media, and oversee all aspects of internal and
31 external communications. Ideally, the PAO should be qualified as a Type 1
32 or Type 2 public information officer and be familiar with SAI team
33 organization and function.

34 • **BLM** - All media related documents (news releases, talking points, etc.)
35 should be cleared through NIFC Public Affairs prior to external release.

36 • **BLM** - Coordination and mobilization is done by Fire and Aviation
37 Directorate's Safety and Health Manager.

38
39 Core SAI Team members will be required to take the Interagency Serious
40 Accident Investigation Course 1112-05 prior to serious accident investigation
41 assignment. This training is also required every 5 years for recurrency.

42
43 **SAIT Final Report**

44 Within 45 days of the incident, a final report consisting of a Factual Report (FR)
45 and a Management Evaluation Report (MER) will be produced by the

1 investigation team to document facts, findings, and recommendations and
2 forwarded to the Designated Agency Safety and Health Official (DASHO)
3 through the agency Fire Director(s).

4
5 Factual and Management Evaluation Report formatting can be found on the
6 NIFC website at: http://www.nifc.gov/safety/accident_resources.htm

7 8 **Factual Report**

9 This report contains a brief summary or background of the event, and facts
10 based only on examination of technical and procedural issues related to
11 equipment and tactical fire operations. It does not contain opinions,
12 conclusions, or recommendations. Names of injured personnel are not to be
13 included in this report (reference them by position). Post-accident actions
14 should be included in this report (emergency response attribute to survival of a
15 victim, etc).

16
17 Factual Reports will be submitted to Wildland Fire Lessons Learned Center
18 (LLC) by the respective agency's fire safety/risk management leads.
19 <http://iirdb.wildfirelessons.net/main/Reviews.aspx>.

20 21 **Management Evaluation Report (MER)**

22 The MER is intended for internal use only and explores management policies,
23 practices, procedures, and personal performance related to the accident. The
24 MER categorizes findings identified in the factual report and provides
25 recommendations to prevent or reduce the risk of similar accidents.

26 27 **Accident Review Board/Board of Review**

28 An Accident Review Board/Board of Review is used by some agencies to
29 evaluate recommendations, and develop a corrective action plan. Refer to
30 respective agency's Safety and Health policy.

31 32 **Wildland Fire Non-Serious Accident Investigation Process**

33 34 **Notification**

35 Agency specific reporting requirements shall be followed. In most instances,
36 supervisors will notify unit fire management officer, who will then make
37 notification through chain of command.

38 39 **Investigation Team Membership**

40 Investigation team membership should be commensurate with the complexity
41 and/or severity of the accident. For complex investigations, the team should
42 consist of a chief investigator, a safety advisor/manager, and one technical
43 specialist. Team members may have dual roles (e.g., chief investigator/safety
44 advisor). More complex accidents may require the need for a Team Leader and
45 multiple technical specialists.

46

1 **Final Report**

2 Within 45 days of the accident, a final report detailing the accident to include
3 facts, findings, and recommendations shall be submitted to the senior manager
4 dependent upon the level of investigation (e.g., Local agency administrator,
5 State/Regional Director, and Agency Fire Director or their designee). If a lower
6 level investigation is conducted, a courtesy copy of the final report shall be sent
7 to the respective agency's fire safety/risk management lead.

8
9 The Final Report (minus names of employees- they should be referenced by
10 position) will be submitted to Wildland Fire Lessons Learned Center (LLC) by
11 the respective agency's National Fire Safety Leads. Website:
12 <http://iirdb.wildfirelessons.net/main/Reviews.aspx>.

13
14 **Non-Serious Accident Investigation Report Standard Format**

- 15 ● **Executive Summary** - A brief narrative of the facts involving the accident
16 including dates, locations, times, name of incident, jurisdiction(s), number
17 of individuals involved, etc. Names of injured personnel or personnel
18 involved in the accident are not to be included in this report (reference them
19 by position).
- 20 ● **Narrative** - A detailed chronological narrative of events leading up to and
21 including the accident, as well as rescue and medical actions taken after the
22 accident. This section will contain who, what, and where.
- 23 ● **Investigation Process** - A brief narrative stating the team was assigned to
24 investigate the accident. It should include a standard statement that human,
25 material, and environmental factors were considered. If one of these factors
26 is determined to be noncontributing to the accident it should be addressed
27 first and discounted. For example, if the investigation revealed that there
28 were no environmental findings that contributed to the accident, simply note
29 the fact and move on to the next factor. Human factors or material factors
30 paragraphs should not be formulated so as to draw conclusions, nor should
31 they contain adjectives or adverbs that describe and thus render an opinion
32 into pertinent facts.
- 33 ● **Findings** - Findings are developed from the factual information. Each
34 finding is a single event or condition. Each finding is an essential step in
35 the accident sequence, but each finding is not necessarily causal. Do not
36 include any more information in each finding than is necessary to explain
37 the event occurrence. Findings must be substantiated by the factual data
38 and listed in chronological order within the report.
- 39 ● **Discussion** - Provide a brief explanation of factual and other pertinent
40 information that lead to the finding(s).
- 41 ● **Recommendations** - Recommendations are the prevention measures that
42 should be taken to prevent similar accidents. Provide recommendations that
43 are consistent with the findings and identify at which level the action needs
44 to occur.
- 45 ● **Conclusions and Observations** - Investigation team's opinions and
46 inferences may be captured in the section.

- 1 • **Maps/Photographs/Illustrations** - Graphic information used to document
2 and visually portray facts.
- 3 • **Appendices** - Reference materials (e.g., fire behavior analysis, equipment
4 maintenance reports, agreements).
- 5 • **Records** - Factual data and documents used to substantiate facts involving
6 the accident.

8 **Fire Cause Determination and Trespass Investigation**

10 **Introduction**

11 Agency policy requires any wildfire to be investigated to determine cause,
12 origin, and responsibility. Accurate fire cause determination is a necessary first
13 step in a successful fire investigation. Proper investigative procedures, which
14 occur concurrent with initial attack, more accurately pinpoint fire causes and can
15 preserve valuable evidence that would otherwise be destroyed by suppression
16 activities.

17
18 The agency or its employees must pursue cost recovery or document why cost
19 recovery is not initiated for all human caused fires on public and/or other lands
20 under protection agreement.

21
22 Fire trespass refers to the occurrence of unauthorized fire on agency-protected
23 lands where the source of ignition is tied to some type of human activity.

25 **Policy**

26 The agency must pursue cost recovery, or document why cost recovery is not
27 required, for all human-caused fires on public lands. The agency will also
28 pursue cost recovery for other lands under fire protection agreement where the
29 agency is not reimbursed for suppression actions, if so stipulated in the
30 agreement.

31
32 For all human-caused fires where negligence can be determined, trespass actions
33 are to be taken to recover cost of suppression activities, land rehabilitation, and
34 damages to the resource and improvements. Only fires started by natural causes
35 will not be considered for trespass and related cost recovery.

36
37 The determination whether to proceed with trespass action must be made on
38 “incident facts,” not on “cost or ability to pay.” Trespass collection is both a
39 cost recovery and a deterrent to prevent future damage to public land. It is
40 prudent to pursue collection of costs, no matter how small. This determination
41 must be documented and filed in the unit office’s official fire report file.

42
43 The agency administrator has the responsibility to bill for the total cost of the
44 fire and authority to accept only full payment. On the recommendation of the
45 State/Regional Director, the Solicitor/Office of General Counsel may
46 compromise claims of the United States, up to the monetary limits (\$100,000)

1 established by law 31 U.S.C. 3711[a], 4 CFR 103-104, and 205 DM 7.1 and 7.2.
2 The Solicitor/Office of General Counsel will refer suspension or termination of
3 the amount, in excess of \$100,000, exclusive of interest, penalties, or
4 administrative charges, to the Department of Justice.

5
6 Unless specified otherwise in an approved protection agreement, the agency that
7 has the land management jurisdiction/administration role is accountable for
8 determining the cause of ignition, responsible party, and for obtaining all
9 billable costs, performing the billing, collection, and distribution of the collected
10 funds. The agency with the fire protection responsibility role must provide the
11 initial determination of cause to the agency with the land management
12 jurisdiction/administration role. The agency providing fire protection shall
13 provide a detailed report of suppression costs that will allow the jurisdictional
14 agency to proceed with trespass procedures in a timely manner.

15
16 Each agency's role in fire trespass billing and collection must be specifically
17 defined in the relevant Cooperative Fire Protection Agreement. The billing and
18 collection process for federal agencies is:

- 19 • For example, a federal agency fire occurs on another federal agency's land
20 and is determined to be a trespass fire. BLM provides assistance, and
21 supplies costs of that assistance to the federal agency with jurisdictional
22 responsibility for trespass billing. The responsible federal agency bills and
23 collects trespass, and BLM then bills the federal agency and is reimbursed
24 for its share of the collection.
- 25 • For example, where BLM administered land is protected by a state agency,
26 the billing and collection process is:
 - 27 ➤ The state bills BLM for their suppression costs. The BLM will pursue
28 trespass action for all costs, suppression, rehabilitation, and damages,
29 and deposits the collection per BLM's trespass guidance.

30
31 All fires must be thoroughly investigated to determine cause. Initiation of cause
32 determination must be started with notification of an incident. The initial attack
33 incident commander and the initial attack forces are responsible for initiating
34 fire cause determination and documenting observations starting with their travel
35 to the fire. If probable cause indicates human involvement, an individual trained
36 in fire cause determination should be dispatched to the fire.

37
38 Agency references:

- 39 • *BLM - 9238-1*
- 40 • *FWS - Fire Management Handbook*
- 41 • *NPS - RM-18, Chapter 8 and RM-9*
- 42 • *FS - FSM 5130 and FSM 5300*

43
44
45
46

1 **Related Policy Documents**

2
 3 These documents provide specific direction related to incident and accident
 4 investigations.

5

	Safety	Prescribed Fire
DOI	485 DM Chapter 7	
BLM	Manual 1112-2, 1112-1	
FWS	Service Manual 095	
NPS	DO/RM-50B, RM-18 Chapter 3	RM-18, Chapter 7
FS	FSH-6709.11	FSM-5140
	FSM-5100 and FSH-6709.11 FSM 5720 (Aviation), FSM 5130 (Ground Operations), FSM 6730 (Specific policy), FSH 6709.12, Chapter 30 (General guidance), and most recent <i>Accident Investigation Guide</i> , for specific guidance.	
Interagency	Information on accident investigations may be found at: http://www.nifc.gov/safety/accident_resources.htm . For reporting use <i>PMS 405-1, Wildland Fire Fatality and Entrapment Initial Report</i> ,: http://www.nwcg.gov/pms/forms_otr/pms405-1.pdf .	

6

**Sample Questions
For Fire Site Visits
By Agency Administrators**

Management Direction

- ___ Who is the incident commander? If the fire is being managed under Unified Command, are all commanders present? Is the incident operating smoothly?
- ___ What is the incident organization?
- ___ What is the current situation? What has been damaged or is at risk?
- ___ Have you received adequate direction for the management of the incident? Is a Wildfire Decision Support System required/still valid?
- ___ What are the incident management objectives? Constraints? Probability of success?
- ___ Are the tactics in the Incident Action Plan realistic and achievable with current resources?
- ___ Is a resource advisor needed?
- ___ What are your estimates of suppression costs?
- ___ What are the incident commander's concerns?
- ___ What are the local, social, economic, and political issues?
- ___ Are there rehabilitation needs?
- ___ What can I, as the agency administrator, do to help?

Safety

- ___ What are your safety concerns?
- ___ Are these concerns resolved? If not, what needs to be done?
- ___ What is the general safety attitude and emphasis?
- ___ Have you assessed the potential hazardous situations and determined if the fire can be fought safely?
- ___ Have you applied the Fire Orders, Watchout Situations, Lookout, Communication, Escape Routes, Safety Zones (LCES) process in selecting safe and effective strategies and tactics?
- ___ Have you effectively briefed firefighters on hazards, safety zones, escape routes, and current and expected weather and fire behavior?
- ___ Is the safety officer position filled? If not, how is this function being addressed?
- ___ Are you monitoring work schedules to ensure adequate rest? Are you meeting the standard work/rest guidelines?
- ___ Have you provided for adequate rest, food, water, and health services for all personnel?
- ___ Are all the fire personnel qualified for the positions they hold, and are they physically able to perform?
- ___ Have you had any injuries or accidents?

Fire Suppression Operations

- ___ What is the fire weather forecast (present and extended)?
- ___ What is the fire behavior potential?
- ___ Are fire personnel briefed on incident objectives, strategies, tactics, organization, communications, hazards, and safety principles?
- ___ Are the strategy and tactics based on current and forecasted weather?
- ___ Are the strategy and tactics safe, effective, and consistent with management's objectives and accepted fire policies and procedures?
- ___ Do you have effective communication on the incident and with dispatch?
- ___ Are you monitoring weather and fire behavior to make needed adjustments to strategy and tactics?
- ___ Are you using tactical aircraft? Do you have an assigned air tactical group supervisor?
- ___ Is aircraft use safe, effective, and efficient? Do you have a TFR?
- ___ If the fire escapes initial attack, what will your role be in developing the Wildfire Decision Support System?

Administration

- ___ Do you have any administrative concerns?
- ___ What arrangements have you made to complete time reports, accident forms, fire report, etc.?
- ___ Did all orders and procurement go through dispatch?
- ___ Do you have any outstanding obligations?
- ___ Are all rental agreements and use records properly completed?
- ___ How did the fire start? If human-caused, has an investigation been initiated to determine the cause and develop a trespass case?
- ___ Do you know of any current or potential claims?

Dispatch Office

- ___ Is the incident receiving fire weather and fire behavior information?
- ___ Is the incident getting the resources ordered in a timely manner?
- ___ Is dispatch adequately staffed?
- ___ What are the local, area, and National Preparedness Levels? How do they affect this fire?
- ___ Are the elements identified at the various Preparedness Levels being considered?
- ___ What are the current local, area and national fire situations?
- ___ What is the priority of existing fires and how are the priorities being determined.

Manager's Supplement for Post Incident Review

Incident Commander _____
Incident Name and No. _____
Start Date and Duration of Incident _____
Date of Incident Debriefing _____
List of Debriefing Attendees:

Brief synopsis of fire behavior and narrative of the incident:

Fire Size-up:

- Gave an accurate sizeup of the fire to dispatch upon arrival?
- Managed fire suppression resources in accordance with the management objectives for the area and availability of resources?
- Did the unit support organization provide timely response and feedback to your needs? (Appendix A)
- Were there any radio communication issues?

Provide for the Safety and Welfare of Assigned Personnel:

- Gave operation briefing prior to firefighters being assigned to incident operations.
- How were incoming resources debriefed; via radio, personal contact?
- Were agency work/rest guidelines followed? Was adequate food and water provided to firefighters?

Fire Suppression Operations:

- Explain how the strategies and tactics used met management objectives, without compromising adherence to the Fire Orders, Watch Out Situations, and LCES?
- How were weather conditions monitored: daily weather briefings, spot weather forecasts or other?
- Were there adjustments needed to strategy and tactics?
- What were the potentially hazardous situations, and their mitigations?
- How were projected changes in the weather, tactics, hazards and fire behavior communicated to fire personnel?
- Were communications effective with dispatch and supervisor?
- Were all interested parties kept informed of progress, problems, and needs. Was aviation support used? If so, was it effective?
- Were there any injuries, close calls, or safety issues that should be discussed? Were these documented?

Administrative Responsibilities:

- Submitted complete documentation to supervisor for time, accidents, incident status, unit logs, evaluations, and other required or pertinent reports?
- Provided timely and effective notification of the fire status and unusual events or occurrences to dispatch and management.
- As requested, provided effective input into the Wildfire Decision Support System.
- If necessary, provided team transition briefing as assigned.
- Form ICS 201 was completed in accordance with local policy.

Release Date: January 2011

APPENDIX B-1

Delegation for Unit Fire Management Officers

_____, Fire Management Officer for the _____ (Unit) is delegated authority to act on my behalf for the following duties and actions:

- 1. Represent the _____ (Agency) in the _____ Multi-Agency Coordinating Group in setting priorities and allocating resources for fire emergencies.
2. Coordinate all prescribed fire activities in the _____ (Unit) and suspending all prescribed fire and issuance of burning permits when conditions warrant.
3. Ensure that only fully qualified personnel are used in wildland fire operations.
4. Coordinate, preposition, send, and order fire and aviation resources in response to current and anticipated zone fire conditions.
5. Oversee and coordinate the _____ Interagency Dispatch Center on behalf of the _____ (Agency).
6. Request and oversee distribution of severity funding for Unit Fire and Aviation.
7. Approve Fire Program requests of overtime, hazard pay, and other premium pay.
8. Ensure all incidents are managed in a safe and cost-effective manner.
9. Coordinate and provide all fire and prevention information needs to inform internal and external costumers with necessary information.
10. Coordinate all fire funding accounts with the Budget Officer to assure unit fiscal guidelines are adhered to and targets are met.
11. Approve and sign aviation request forms.
12. Approve Red Cards in accordance with agency policy.
13. Authorized to hire Emergency Firefighters in accordance with the Emergency Worker Pay Plan.

Fire Management Officer

Date

Agency Administrator

Date

Air Operations
Effectiveness
Hazards
Air Space Restrictions
Airports, Heliports, Helispots
Suppression Policies
Other
Environmental, Social, Political, Economic, and Cultural Resource Considerations
Environmental
Social
Political
Economic
Cultural Resource
Communications
Radio
Telephone
Electronic (Computers)
Expanded Dispatch
Procurement Arrangements
Agreements
Tribal Government
Infrared Status

Security Considerations
Incident Management Direction and Considerations
Wildfire Decision Support System
Delegation of Authority
Agency Administrator's Representative
Incident Business Advisor
Resource Advisor
Suppression Priorities
Forest Supervisor/Incident Commander Contact
Time
Process
News Media and Incident Information Management
Training Considerations
Interagency/Private Property Considerations (costs, etc.)
Mop Up Standards
Rehabilitation Considerations
Initial Attack Responsibility
Support to Other Incidents
Disposition of Unit Resources on the Incident
Close Out and Debriefing

Human Welfare
Safety
Health
Civil Rights
Distribute Support Documents
Wildfire Decision Support System (Common WFDSS if Unified Command)
Delegation of Authority Letter
Map & Photos
Fire Management, Pre-Attack, Land Management Plans
Weather Forecast
Special Management Area Documents
Phone Directory, Fax Number
Agreements
Incident Status Summary (ICS - 209)
Business Management Documents
Payments (Vendors and Casuals)
Claims
Injury Compensation
Incident Business Guidelines (ISOPS)

Spot Weather Observation and Forecast Request Instruction & Notes

Spot Weather Forecasts should be requested for fires that will exceed initial attack, have potential for extreme fire behavior, or are located in areas where Red Flag Warnings or Fire Weather Watches have been issued. This form is primarily for field use documentation of weather observations and/or forecasts. Whenever possible, a copy of the actual fire Weather Forecast should be used for operational briefings and/or included in the fire documentation.

Instructions

1. **Name of Fire/Incident:** Use incident or project name.
2. **Control Agency:** Agency with primary responsibility for managing the incident.
3. **Request Made:** Put date and time (use 24-hour clock).
4. **Location:** Use an on-site legal description specific to the nearest ¼ section.
5. **Drainage Name:** Use the closest drainage name or landmark from a topographical map.
6. **Exposure:** Use one of the 8 major cardinal points (N, SE, NW, etc.) to designate general aspect.
7. **Size of Project:** In acres.
8. **Elevation:** Designate elevation in feet; Top and Bottom refer to elevation of fire. (For a group of lightning fires specify "Concentration" then give number of fires and size of largest; request forecast for each drainage.)
9. **Fuel Type:** Use a fuel model number or a name description.
10. **Project On:** Projects may be on the ground or crowning.
11. **Weather Conditions at Project or from Nearby RAWS:** In the Place column, put On-site (which refers to the legal description used in Number 4); if the observations are taken off-site, specify the Township, Range, and Section to the nearest ¼ or the location of the RAWS used. In the Elevation column, put the actual elevation for the observations (may or may not be the same as in Number 8).
12. **Send Forecast To:** Specify how the forecast will be broadcast or sent, especially if it differs from normal radio relay or faxing procedures (i.e., having copies faxed to mobile units, office, or stations), and also the name of the contact who will be receiving the request (may differ from the person making the forecast request).
13. **Forecast and Outlook:** Document name of forecaster and office forecast originated from.
14. **Forecast Received:** Document name of person receiving forecast, date, time and location and received (to verify or update information in Number 12).

Notes

Under the Remarks column in Number 11, put the estimated ignition time for Rx projects. For Rx projects, fire weather forecasters can work with you ahead of time and either do some "practice" forecasts or provide you with weather information for planning.

For better service, do not send a request in just prior to Rx ignition (turn-around time is typically 1 to 2 hours). Most fire weather forecasters work early shifts, and usually leave around 1600 to 1700.

If the fire weather forecaster does not hear from you, they assume the forecast was accurate. If the forecast does not match what is actually occurring, let the fire weather forecaster know. Feedback is crucial for improving forecast accuracy. Forecasts can be updated. If at anytime you do not understand what the forecast is telling you, or you have questions about its content for whatever reason, do not hesitate to call the fire weather forecaster and discuss the matter.

Spot Weather Observation and Forecast Request (See reverse for instructions)									
Requesting Agency will Furnish Information for Blocks 1-12									
1. Name of Incident or Project				2. Control Agency			3. Request Made		
							Time:		Date:
4. Location (Designate Township, Range, and Section (include ¼ section):					5. Drainage Name		6. Exposure/Aspect:		
7. Size of Incident or Project (acres):				8. Elevation		9. Fuel Type:		10. Project On:	
				Top		Bottom		<input type="checkbox"/> Ground <input type="checkbox"/> Crowning	
11. Weather Conditions at Incident or Project or from RAWS:									
Place	Elevation	Observation Time	Wind Direction/Velocity		Temperature		No entry necessary. To be completed by the Fire Weather Forecaster.		Remarks <small>(Indicate precipitation, cloud type and % cover, wind and frontal conditions, etc.)</small>
			20-Foot:	Eye Level:	Dry Bulb:	Wet Bulb:	Rh	Dp	
12. Send Forecast To (Person):			Send Forecast To (Location):				Send Forecast Via:		Send Copy To:
The Fire Weather Forecaster will Furnish the Information for Block 13:									
13. Discussion and Outlook:								Date and Time:	
Burn Period	Sky Cover	Temperature	Humidity	Wind		Indices			
				Eye Level	20-Foot				
<input type="checkbox"/> Today (sunrise to dusk) <input type="checkbox"/> This Afternoon (noon until dusk) <input type="checkbox"/> This Evening (1600 until dusk) <input type="checkbox"/> Tonight (sunset until sunset)	<input type="checkbox"/> Mostly Sunny/Clear <input type="checkbox"/> Fair <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Mostly Cloudy <input type="checkbox"/> Cloudy <input type="checkbox"/> Variable	°F _____ <input type="checkbox"/> High <input type="checkbox"/> Low <input type="checkbox"/> Range	_____% <input type="checkbox"/> Maximum <input type="checkbox"/> Minimum <input type="checkbox"/> Range	<input type="checkbox"/> Upslope <input type="checkbox"/> Downslope Direction _____ Velocity _____ mph Gusts _____ mph	<input type="checkbox"/> Upslope <input type="checkbox"/> Downslope Direction _____ Velocity _____ mph Gusts _____ mph	Haines: LAL: BI: CI:			
<input type="checkbox"/> Today (sunrise to dusk) <input type="checkbox"/> This Afternoon (noon until dusk) <input type="checkbox"/> This Evening (1600 until dusk) <input type="checkbox"/> Tonight (sunset until sunset)	<input type="checkbox"/> Mostly Sunny/Clear <input type="checkbox"/> Fair <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Mostly Cloudy <input type="checkbox"/> Cloudy <input type="checkbox"/> Variable	°F _____ <input type="checkbox"/> High <input type="checkbox"/> Low <input type="checkbox"/> Range	_____% <input type="checkbox"/> Maximum <input type="checkbox"/> Minimum <input type="checkbox"/> Range	<input type="checkbox"/> Upslope <input type="checkbox"/> Downslope Direction _____ Velocity _____ mph Gusts _____ mph	<input type="checkbox"/> Upslope <input type="checkbox"/> Downslope Direction _____ Velocity _____ mph Gusts _____ mph	Haines: LAL: BI: CI:			
Outlook for (Date): _____ _____	<input type="checkbox"/> Mostly Sunny/Clear <input type="checkbox"/> Fair <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Mostly Cloudy <input type="checkbox"/> Cloudy <input type="checkbox"/> Variable	°F _____ <input type="checkbox"/> High <input type="checkbox"/> Low <input type="checkbox"/> Range	_____% <input type="checkbox"/> Maximum <input type="checkbox"/> Minimum <input type="checkbox"/> Range	<input type="checkbox"/> Upslope <input type="checkbox"/> Downslope Direction _____ Velocity _____ mph Gusts _____ mph	<input type="checkbox"/> Upslope <input type="checkbox"/> Downslope Direction _____ Velocity _____ mph Gusts _____ mph	Haines: LAL: BI: CI:			
Name of Fire Weather Forecaster:					Fire Weather Office Issuing Forecast:				
14. Forecast Received by (Name):				Date:	Time:		Forecast Received at (Location) Via:		

**Guide to Completing the Incident Complexity Analysis.
(Type 1, 2)**

- If positive responses exceed, or are equal to, negative responses within any primary factor (A through G), the primary factor should be considered as a positive response.
- If any three of the primary factors (A through G) are positive responses, this indicates the fire situation is or is predicted to be of Type 1 complexity.
- Factor H should be considered after numbers 1–3 are completed. If more than two of the items in factor H are answered yes, and three or more of the other primary factors are positive responses, a Type 1 team should be considered. If the composites of H are negative, and there are fewer than three positive responses in the primary factors (A-G), a Type 2 team should be considered. If the answers to all questions in H are negative, it may be advisable to allow the existing overhead to continue action on the fire.

Incident Complexity Analysis Type 1 & 2	YES	NO
A. Fire Behavior (Observed or Predicted)		
1. Burning index (from on-site measurement of weather conditions) predicted to be above the 90% level using the major fuel model in which the fire is burning.		
2. Potential exists for extreme fire behavior (fuel moisture, winds, etc.).		
3. Crowning, profuse or long-range spotting.		
4. Weather forecast indicating no significant relief or worsening conditions.		
Total		
B. Resources Committed		
1. 200 or more personnel assigned.		
2. Three or more divisions.		
3. Wide variety of special support personnel.		
4. Substantial air operation which is not properly staffed.		
5. Majority of initial attack resources committed.		
Total		

C. Resources Threatened		
1. Urban interface.		
2. Developments and facilities.		
3. Restricted, threatened, or endangered species habitat.		
4. Cultural sites.		
5. Unique natural resources, special-designation areas, wilderness.		
6. Other special resources.		
Total		
D. Safety		
1. Unusually hazardous fireline construction.		
2. Serious accidents or fatalities.		
3. Threat to safety of visitors from fire and related operations.		
4. Restrictions and/or closures in effect or being considered.		
5. No night operations in place for safety reasons.		
Total		
E. Ownership		
1. Fire burning or threatening more than one jurisdiction.		
2. Potential for claims (damages).		
3. Different or conflicting management objectives.		
4. Disputes over suppression responsibility.		
5. Potential for unified command.		
Total		
F. External Influences		
1. Controversial fire policy.		
2. Pre-existing controversies/relationships.		
3. Sensitive media relationships.		
4. Smoke management problems.		
5. Sensitive political interests.		
6. Other external influences.		
Total		

G. Change in Strategy		
1. Change in strategy to control from confine or contain		
2. Large amounts of unburned fuel within planned perimeter.		
3. Wildfire Decision Support System invalid or requires updating.		
Total		
H. Existing Overhead		
1. Worked two operational periods without achieving initial objectives.		
2. Existing management organization ineffective.		
3. Overhead overextended mentally and/or physically.		
4. Incident action plans, briefings, etc. missing or poorly prepared.		
Total		

NOTE:

The National Wildfire Coordinating Group has adopted the Organizational Needs Assessment to assist managers and firefighters with determining the type of organization necessary to manage an incident. Personnel should utilize the Organizational Needs Assessment in addition to this complexity analysis.

The Organizational Needs Assessment can be found at:
<http://www.wfmrda.org/policy.php>

Incident Complexity Analysis (Type 3, 4, 5)		
Fire Behavior	Yes	No
Fuels extremely dry and susceptible to long-range spotting or you are currently experiencing extreme fire behavior.		
Weather forecast indicating no significant relief or worsening conditions.		
Current or predicted fire behavior dictates indirect control strategy with large amounts of fuel within planned perimeter.		
Firefighter Safety		
Performance of firefighting resources affected by cumulative fatigue.		
Overhead overextended mentally and/or physically.		
Communication ineffective with tactical resources or dispatch.		
Organization		
Operations are at the limit of span of control.		
Incident action plans, briefings, etc. missing or poorly prepared.		
Variety of specialized operations, support personnel or equipment.		
Unable to properly staff air operations.		
Limited local resources available for initial attack.		
Heavy commitment of local resources to logistical support.		
Existing forces worked 24 hours without success.		
Resources unfamiliar with local conditions and tactics.		
Values to be protected		
Urban interface; structures, developments, recreational facilities, or potential for evacuation.		
Fire burning or threatening more than one jurisdiction and potential for unified command with different or conflicting management objectives.		
Unique natural resources, special-designation areas, critical municipal watershed, T&E species habitat, cultural value sites.		
Sensitive political concerns, media involvement, or controversial fire policy.		

If you have checked "Yes" on 3 to 5 of the analysis boxes, consider requesting the next level of incident management support. **SEE NEXT PAGE**

Release Date: January 2011

APPENDIX G-1

NOTE:

The National Wildfire Coordinating Group has adopted the Organizational Needs Assessment to assist managers and firefighters with determining the type of organization necessary to manage an incident. Personnel should utilize the Organizational Needs Assessment in addition to this complexity analysis for Type 1, 2, and 3 incidents.

The Organizational Needs Assessment can be found at:
<http://www.wfmrda.org/policy.php>

Local Incident Commander Briefing

The Incident Briefing, ICS-201 form provides the basis for the local incident commander to brief the incoming team.

Briefing Information

Forms Available or Attached:		Other Attachments:
<input type="checkbox"/> ICS 201	<input type="checkbox"/> ICS 215	<input type="checkbox"/> Map of Fire
<input type="checkbox"/> ICS 207	<input type="checkbox"/> ICS 220	<input type="checkbox"/> Aerial Photos
<input type="checkbox"/> ICS 209		<input type="checkbox"/> Weather Forecast
Fire Start Date:		
Time:		
Fire Cause:		
Fuels Ahead of Fire:		
Fuels at Fire:		
Fire Behavior:		
Fire Spread:		
Natural Barriers:		
Anchor Points:		
Perimeter Secured, Control/Mitigation Efforts Taken, and Containment Status:		
Life, Improvements, Resources and Environmental Issues:		

Weather Forecast:		
	Established	Possible
ICP:	<input type="checkbox"/>	<input type="checkbox"/>
Base:	<input type="checkbox"/>	<input type="checkbox"/>
Camp(s):	<input type="checkbox"/>	<input type="checkbox"/>
Staging Area(s):	<input type="checkbox"/>	<input type="checkbox"/>
Copy Machine Available		<input type="checkbox"/> Yes <input type="checkbox"/> No
Safety Issues:	EMS in Place:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Air Operations Effectiveness to Date:		
Air Related Issues and Restrictions:		
Hazards (Aircraft and People):		
Access from Base to Line:		
Personnel and Equipment on Incident (Status and Condition):		
Personnel and Equipment Ordered:		
Cooperating and Assisting Agencies on Scene:		
Helibase/Helispot Location:		

Crash Fire Protection at Helibase:
Medivac Arrangement:
Communication System in Use: <input type="checkbox"/> Radio <input type="checkbox"/> Telephone <input type="checkbox"/> Cell Phone
Water Availability:
Review of Existing Plans for Control in Effect; Copy of Approved Wildfire Decision Support System.
Smoke Conditions:
Local Political Issues:
Damage Assessment Needs:
Security Problems:

Incident Management Team Performance Evaluation						
Team IC		Incident Type				
Incident Name		Incident Number				
Assignment Dates		Total Acres				
Host Agency		Evaluation Date				
Administrative Unit		Sub-Unit				
<p>At the conclusion of each incident management team (IMT) assignment, the agency administrator or representative should complete this initial performance evaluation (sections 1 - 5). This evaluation should be discussed directly with the incident commander. The initial performance evaluation should be delivered by the agency administrator without delay to the incident commander, the state/regional fire management officer, and the chair of the IMT's home geographic area multi-agency coordination group to ensure prompt follow-up to any issues of concern.</p>						
<p>Complete the follow evaluation narratives and rating for each question 0 - did not achieve expectations, 3 - met expectations, 5 - excelled</p>						
<p>1. How well did the Team accomplish the objectives described in the Wildland Fire Decision Support System (WFDSS) the Delegation of Authority, and the Agency Administrator Briefing?</p>						
Circle one	0	1	2	3	4	5
<p>(Explain)</p>						
<p>2. How well did the Team manage the cost of the incident? Did the team follow agency incident operating guidelines? Were follow-up issues identified and documented for the Agency Administrator ie; invoices, OWCP and vendor issues?</p>						
Circle one	0	1	2	3	4	5
<p>(Explain)</p>						

3. How did the Team demonstrate sensitivity to resource limits/constraints and environmental concerns?						
Circle one	0	1	2	3	4	5
(Explain)						
4. How well did the Team deal with sensitive political and social concerns?						
Circle one	0	1	2	3	4	5
(Explain)						
5. Was the Team professional in the manner in which they assumed management of the incident and how they managed the total incident? How did the Team handle transition either to another IMT or in returning the incident the hosting agency?						
Circle one	0	1	2	3	4	5
(Explain)						
6. How well did the Team anticipate and respond to changing conditions, was the response timely and effective?						
Circle one	0	1	2	3	4	5
(Explain)						
7. How well did the Team place the proper emphasis on safety?						
Circle one	0	1	2	3	4	5
(Explain)						

8. Did the Team activate and manage the mobilization/demobilization in a timely and cost effective manner?						
Circle one	0	1	2	3	4	5
(Explain)						
9. How well did the Team use local resources, trainees, and closest available forces?						
Circle one	0	1	2	3	4	5
(Explain)						
10. How did the Team notify the incident agency regarding triggers for initiating a cost share agreement or large fire cost review? How were those recommendations implemented?						
Circle one	0	1	2	3	4	5
(Explain)						
11. Was the IC engaged and in charge of the Team and the Incident? How well did the IC function and operate as a leader?						
Circle one	0	1	2	3	4	5
(Explain)						

12. How timely was the IC in assuming responsibility for the incident and initiating action?						
Circle one	0	1	2	3	4	5
(Explain)						
13. How did the IC show sincere concern and empathy for the hosting unit and local conditions?						
Circle one	0	1	2	3	4	5
(Explain)						
14. Was the agency administrator or designee made aware that the Time Unit closed out/transitioned per unit operating guidelines? Example: AD time complete per payment center and agency requirements, cooperators given appropriate documents per agreements, OF 288's complete and returned.						
Circle one	0	1	2	3	4	5
(Explain)						
15. Other comments:						
Agency Administrator or Representative:					Date:	
Incident Commander:					Date:	

1 Memorandum

2

3 To: LLR Facilitator; Title of Person/Office This is Meant For

4

5 From: Delegating Official

6

7 Subject: Delegation of Authority - (Incident Name) LLR

8

9

10 Situation Summary:

11

12 You are hereby designated the authority to lead and conduct an LLR for
13 (Incident Name). The review process will begin at (Identify LLR start time,
14 date, and location). The Fire Staff and Fire Management Office have identified
15 the group of employees who will also be participating. That information will be
16 provided to you upon your arrival.

17

18 You have the authority to tailor your team and the LLR process to fit the
19 situation and your style of facilitation. However, I would like you to utilize the
20 guidance outlined in the *Interagency Standards for Fire and Fire Aviation*
21 *Operations Chapter 18*, while conducting the LLR. This includes:

- 22 • convening the participants;
- 23 • identifying facts of the event and developing a chronological narrative of
24 the event;
- 25 • identifying underlying reasons for success or failure;
- 26 • identifying what was learned and what should/could be done differently in
27 the future;
- 28 • identify any recommendations that would prevent future similar
29 occurrences; and
- 30 • providing a final, written report covering the above items, which is due to
31 me within two weeks of the event occurrence.

32

33 If you need any assistance, your primary contact will be:

34

35 Thank you for your time and assistance.

1 **Interim NWCG Minimum Standards of Incident Emergency Medical Services 2008**

Incident Size	Initial Attack	<250	250 to 500	> 500
Medical Unit Leader (MEDL)	No	TBD by IC and jurisdictional agency	YES (1)	YES (1)
First Responder or Basic FA	Yes	Yes	N/A	N/A
MEDL EMTs	No	No	1	2
EMTs	No	To be determined by the IC or jurisdictional agency.	1	2
MEDL Quals	N/A	N/A	310-1 Basic EMT	310-1 Basic EMT
Med Unit EMT Quals	N/A	Basic EMT	310-1 Basic EMT	310-1 Basic EMT
EMTs per Division	N/A	To be determined in consultation with Operations and/or Medical Unit		
Establish Local Medical Direction	N/A	To be determined by the IC or jurisdictional agency.	Yes	Yes
First Aid Kits	Pocket & Vehicle First Aid Kits	Pocket, Vehicle & Crew First Aid Kits	Pocket, Vehicle & Crew First Aid Kits	Pocket, Vehicle & Crew First Aid Kits
100 person First Aid Kit	No	To be determined by the IC or jurisdictional agency.	Yes	No
500 person First Aid Kit	No	No	No	Yes
AED	No	To be determined by the IC or jurisdictional agency.	Yes	Yes
Oxygen	No	No	TBD	Yes
OTC Meds	No	To be determined in consultation with Safety Officer, Medical Unit Leader, and Finance Section Chief		
Emergency Transport	N/A	Method to provide transport to the nearest medical facility is to be identified in the Incident Action Plan		

2 **NOTE:** Regional differences/protocols exist: e.g., Northern Rockies (Incident
 3 Medical Specialist Program), Pacific Northwest (Incident Medical Specialist Program)
 4 and Alaska (Firemedic Program) that are different from these guidelines and may require
 5 a higher level of EMS service.

WORK CAPACITY TEST RECORD

Units will document the administration of the WCT to all employees and job applicants. This documentation must be retained until the next WCT is administered. Units may also be requested to provide data from these records to assist in the evaluation of the WCT process.

Privacy Act - No employee may disclose records subject to the Privacy Act unless the disclosure is permitted under 43 CFR 2.56 or to the individual to whom the record pertains. The Privacy Act contains a criminal penalty for unauthorized disclosure of records. (5 U.S.C. 552a)

To be completed by employee:

Name (Last, First): _____ Where employed: _____

Date test taken: _____ Test administered by: (Print Name) _____

ICS position for which test is required (highest needed) _____

Performance level needed (circle one):

Arduous Moderate Light

Type of test taken (circle one):

Pack Test Field Test Walk Test

Work Capacity Test Descriptions:

	Pack Test	Field Test	Walk Test
Pack weight	45 lbs.	25 lbs	None
Distance	3 miles	2 miles	1 mile
Time	45 minutes	30 minutes	16 minutes

To be completed by test administrator:

Test result time:

Employee passed test (circle one): Yes / No

I certify that the work capacity test was administered according to agency guidelines.

(Signature of Test Administrator) (Title) (Date)

**APPENDIX N (DOI only)
Medical Examination Requirement**

Employment Category	Fitness Requirement	Clearance Process	
		MSP	HSQ
	Arduous	MSP	HSQ
Permanent, Career-Seasonal & TERM	Arduous	X	
	Moderate/Light		X
Temporary Seasonal	Arduous	X	
	Moderate/Light		X
AD/EFF Under Age 45	Arduous		X
	Moderate/Light		X
AD/EFF Age 45 and Older	Arduous	X (annual)	
	Moderate/Light		X

Note: MSP: Medical Standards Program
HSQ: Health Screen Questionnaire

Permanent, Career-Seasonal and TERM Employees

- Baseline exam in the first year.
- A “Periodic Exam” every 5th year when under age 45.
- A “Periodic Exam” every 3rd year when age 45 and older.
- An “Annual Exam” in intervening years.
- Exit exam upon retirement or removal/reassignment from arduous level.

Seasonal Employees

- Annual Exam every year when under age 45.
- Periodic Exam at age 45 and every 3rd year thereafter.
- Annual Exam in intervening years when over age 45.

AD/EFF

- An “Annual Exam” when age 45 and older.
- A HSQ when under age 45 or annual exam if “yes” answers on HSQ and determined as agency mission critical.

Delegation of Authority - Template
_____ Geographic Area
Fire & Aviation Safety Team (FAST)

Situation Summary (Issues and Concerns/ Reason for ordering the FAST)

Objectives (Measurable)

Team Skills Required (Per Objectives listed above.)

The final team composition will be determined at time of dispatch and members named on the resource order.

Mission

The FAST is to conduct an independent assessment and evaluation of operational and managerial activities (related to the specific objectives stated above) at the following locations (mission segments):

The team may determine visits to other incidents/organizations/operations as appropriate, and may do so after coordination with the GMAC. The FAST will contact the GMAC Coordinator (describe frequency of contact):

The FAST is to provide technical or managerial assistance when requested and where necessary to immediately correct an identified, critical problem. The FAST may also provide short-term assistance in managing situations or incidents when requested by the incident, organization, or operation.

Protocols

The FAST will organize and conduct an entry briefing with the appropriate managers of the locations/incidents identified previously. The entry briefing will provide the objectives and operational parameters of the mission.

Once the mission segment is completed, the FAST will organize and conduct an exit briefing with the same officials or their designees, during which a draft of the mission-segment report will be presented and discussed. Components of this report will include:

- Purpose and Objectives
- Findings, Commendations, and Recommendations
- Follow-up Actions Needed

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- Immediate
- Long-term
- Scope [local, area, national]
- Copy of the DoA

The FAST will contact the GMAC Coordinator_____.

FAST will provide a final written report to the GMAC Coordinator upon completion of all mission segments. This report will include:

- FAST Final Report Outline
- Executive Summary
- Purpose and Objectives
- Summary (Findings, Recommendations, Commendations, Assistance Provided)
- Critical and Immediate Follow-up Actions Required
- Introduction
- Methods and Procedures
- Mission Segments (Summary of Incidents, Organizations, Operations Reviewed. Include copies of Mission Segment Reports).
- Analysis
- Findings and Trends, Commendations, and Recommendations
- Follow-up Actions Needed
- Immediate
- Long-term
- Scope [local, area, national]
- A copy of the DoA

The _____ Multi-Agency Coordination Group hereby charters and delegates the preceding authority to _____, FAST Leader, effective on _____.

/s/

Chair, _____ Coordinating Group

Date: _____

Dispatch Center Annual Operating Plan Elements

Organization

Chain-of-command/table of organization for local agencies and cooperators
Notification process/procedures; Roles/responsibilities etc.

Dispatch Operations

General information; Dispatcher roles and responsibilities; Dispatcher training and qualifications; Procedures for dispatch of resources off unit.

Daily Duties

Check-in/out of administrative/fire personnel; Intelligence; Weather/briefings; Verify initial attack response levels; Status suppression resources; Preparedness level establishment and verification.

Initial Attack/Response Plan Elements

Preplanned dispatch plans, Run-cards, Dispatch procedures, Notification of a reported fire; Procedures for identifying preparedness levels; Fire weather; Identification of fire danger; Process for assessing the appropriate response; Identification and notification of resources to respond (Local units will establish standard response times for all initial attack/response resources); Appropriate management notification; Cooperator support and planned response; Communications procedures; Procedures to follow when activity exceeds the initial attack/response plan; Aviation procedures.

Emergency Operations (Fire/Non-fire)

Notification of a reported incident; Jurisdiction verification; Response plan activation; Agency and area notification; Move-up and cover procedures; Call-back procedures; Evacuation of incident area; Closing public/private roads; Ordering additional personnel, equipment, and aircraft; Fire Weather Watch and Red Flag Warning notification; Temporary Flight Restrictions (TFRs) ; Agency duty officers (roles and responsibilities) ; Aircraft pre-accident plan; Utility company notification (power and gas) ; Law enforcement dispatching procedures/requirements; HazMat/spill response notification procedures; Local government requesting all-risk assistance; Search and Rescue; Identify the incident commander.

Local Agreements

Copies of all interagency or inter-unit agreements and associated annual operating plans that govern the use of fire management resources. Maps delineating areas of responsibility for fire suppression coverage.

Communications

Procedures for assigning/managing local radio frequencies; Procedures for obtaining additional frequencies; maps of repeater sites; instructions for using local dispatch radio consoles, phones, computers, fax machines, paging systems, etc.

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Weather

Processing of weather observations via Weather Information Management System (WIMS); Daily posting and briefing procedures; Broadcasts of fire weather forecasts to local fire suppression personnel; Procedures for processing spot weather forecast requests and disseminating spot forecasts to the field; Procedures for immediate notification to fire suppression personnel of Fire; Weather Watches and Red Flag Warnings.

Fire Danger

Remain aware of locally significant fire danger indices and record those values daily; Update and post monthly the seasonal trends of those values versus seasonal averages.

Information to be provided by dispatch for Suppression/Support Resource availability, radio frequencies to be used; burning conditions/fuel types; weather forecast updates; local fire activity; agency policies, etc. For management: fire activity, incident updates, weather updates, resource status.

Briefings

Time frames and frequencies/locations for daily briefings must be clearly specified in the local dispatch SOP. A method should also be identified for documenting briefings (time given, content of briefing, and person(s) conducting and receiving briefing).

Preparedness Levels

General information relating to the local preparedness plan:

- Procedures for identifying preparedness level.
- Notification to management.
- Dispatching roles and responsibilities at each preparedness level.

Trigger Points

Specific triggers should be incorporated into preparedness plans that cause the preparedness level to move up or down. These triggers could be related to number/size of fires, amount and type of resources available/committed, regional/national fire situation, condition of local fuels, observed fire behavior, human-caused risk or predicted lightning activity level, etc. Specific actions should also be tied to each preparedness level, such as prepositioning of suppression resources (crews, engines, airtankers, smokejumpers, etc.), the activation of local Multi-Agency Coordination (MAC) groups, making contact with other agencies, and hiring of call when needed (CWN) aircraft, emergency equipment rental agreements (EERA), or administratively determined (AD) pay plan crews.

Aviation

Ordering/scheduling requirements and procedures; special use airspace:

- Special use mission requirements.
- Incident/accident reporting and documentation procedures.
- Flight management/tracking procedures.

Dispatch Center Staffing Plan

Call-out procedures for additional personnel in emergency situations:

- Designation of duty officer for dispatch center.
- Shift limitations and day off/EFF hiring.

Expanded Dispatch Plan

Indicators for considering establishment of expanded dispatch:

- Recommended organization and points of contact.
- Overhead positions to order.
- Location/facilities, equipment/supplies, support needs.
- Procurement or buying unit team considerations.
- Service and supply plan.

Administrative Items

Funding; travel; time sheets; fire reports, etc.

Accident/Incident

Criteria/definitions; agency notification and documentation requirements:

- Procedures for mobilization of critical incident stress debriefing teams.

Medical Plan

- Activation/evacuation information.
- Medical facility locations and phone numbers.
- Air and ground transport (Medivac) capability.
- Burn center information.

Media Plan

General procedures; notification requirements to agency external affairs personnel; routing for media calls.

CRITICAL INCIDENT STRESS MANAGEMENT**Introduction**

Critical Incident Stress Management (CISM) provides an organized approach to the management of stress responses for personnel having been exposed to a traumatic event in the line of duty. The use of CISM may decrease post-traumatic stress disorder, acute stress disorder, workman's compensation claims, fatalities, injuries, and suicide. The use of CISM does not prevent an employee from seeking individual consultation through the Employee Assistance Program or a trained Peer Supporter.

Agency Administrator Responsibilities**Identification of Event**

The agency administrator of the unit where the incident occurred is responsible for identifying an event as a critical incident. The agency administrator is the highest ranking line officer, regardless of agency, with direct responsibility for the personnel involved in the incident.

Request CISM

The agency administrator or designee is responsible for requesting CISM services from the CISM Coordinator as soon as possible after the event. The general accepted method for contacting a CISM Coordinator is through the local dispatch office or appropriate Coordination Center.

Provide Information/Pay Codes

The agency administrator or designee is responsible for providing the CISM Coordinator with information about the incident. The agency administrator is responsible for providing the CISM Coordinator with a budget code for expenses associated with CISM response.

Local Dispatch Responsibilities**Request CISM**

When the agency administrator has deemed an incident as a Critical Incident, attempt to fill CISM Response resources locally before placing the order at the appropriate Coordination Center. In the event the local dispatch center does not have local resources available, an order for a CISM Coordinator (THSP) will be placed with the local GACC within one hour of receiving an order from the agency administrator.

Identify a Logistic Support for CISM

The local dispatch center will identify a person to work with the CISM Coordinator to provide logistical support such as rooms, office space, etc.

Coordination Center Responsibilities**Request CISM**

Coordination Centers are responsible for contacting the CISM Coordinator and requesting CISM services within 1 hour of receiving the local Dispatch Center order. In the event the CISM Coordinator or qualified CISM Leader from that area is unavailable, the Coordination Center will pass the request on to another center or the National Interagency Coordination Center (NICC).

CISM Coordinator Responsibilities

- Decides on the size and make up of the group.
- Sets time frames for CISM activities with the CISM Leader.
- Provides follow up to the CISM Leader throughout the CISM Groups activities.
- Does an AAR with the CISM Leader at the close of CISM activities.

Definitions

Critical Incident: Any event which has a stressful impact sufficient enough to overwhelm the usually effective coping skills of either an individual or group. Critical incidents are typically sudden, powerful events which are outside the range of ordinary human experiences.

Critical Incident Stress Management (CISM): A wide range of programs and services designed to prevent and mitigate the effects of traumatic stress.

Initial Incident Stress Defusing: This is a shorter and less structured version of a Critical Incident Stress Debriefing (CISD) that usually occurs within a few hours of a critical incident. The main purpose of a Defusing is to stabilize the affected personnel so that they can return to work if necessary or go home without unusual stress. Defusings allow for initial venting of reactions to the incident, and provides stress coping information to affected personnel. A Defusing may eliminate the need for a formal CISD or enhance a subsequent CISD.

Critical Incident Stress Debriefing (CISD): A structured group meeting that emphasizes venting or show of emotions and other reactions to a critical incident. It also emphasizes educational and informational elements which are of assistance to employees in understanding and dealing with the stress generated by the event. Debriefings generally occur within 24 – 72 hours of the critical incident.

Individual Crisis Debriefing: One-on-one confidential assistance with any issue by trained peer supporter or mental health professional.

Peer Support: Personnel trained to assist their fellow employees by listening without judgment and maintaining confidentiality. They are also trained in positive coping strategies for stress, and to help others validate their thoughts and emotions about an overwhelming trauma or loss.

The following chart shows the NUS minimum stocking levels required for agency engines.
BLM units see the agency specific NUS on the NFEP website.

Category	Item Description	NFES #	Type	
			3, 4, & 5	6
Fire Tools & Equip	McLeod	0296	1	
	Combination Tool	1180	1	1
	Shovel	0171	3	2
	Pulaski	0146	3	2
	Backpack Pump	1149	3	2
	Fusees (case)	0105	1	½
	Foam, concentrate, Class A (5-gallon)	1145	1	1
	Chainsaw (and chaps)		1	1
	Chainsaw Tool Kit	0342	1	1
	Drip Torch	0241	2	1
	Portable Pump		*	*
	Medical	First Aid Kit, 10-person	1143	1
Burn Kit			1	1
Body Fluids Barrier Kit		0640	1	1
General Supplies	Flashlight, general service	0069	1	1
	Chock Blocks		1	1
	Tow Chain or Cable	1856	1	1
	Jack, hydraulic (comply w/GVW)		1	1
	Lug Wrench		1	1
	Pliers, fence		1	1
	Food (48-hour supply)	1842	1	1
	Rags	3309	*	*
	Rope/Cord (feet)		50	50
	Sheeting, plastic, 10' x 20'	1287	1	1
	Tape, duct	0071	1	1
	Tape, filament (roll)	0222	2	2
	Water (gallon/person) minimum		2	2
	Bolt Cutters		1	1
	Toilet Paper (roll)	0142	*	*
	Cooler or Ice Chest	0557	*	*
	Hand Primer, Mark III	0145	*	*
	Hose Clamp	0046	2	1
	Gaskets (set)		1	1
	Pail, collapsible	0141	1	1
Hose Reel Crank		*	*	

Safety	Fire Extinguisher (5 lb)	2143	1	1
	Flagging, Pink (roll)	0566	*	*
	Flagging, Yellow w/Black Stripes (roll)	0267	*	*
	Fuel Safety Can (Type 2 OSHA, metal, 5-gallon)	1291	*	*
	Reflector Set		*	*
Vehicle & Pump Support	General Tool Kit (5180-00-177-7033/GSA)		1	1
	Oil, automotive, quart		4	2
	Oil, penetrating, can		1	1
	Oil, automatic transmission, quart		1	1
	Brake Fluid, pint		1	1
	Filter, gas		1	1
	Fan Belts		1	1
	Spark Plugs		1	1
	Hose, air compressor w/adapters		1	0
	Fuses (set)		1	1
	Tire Pressure Gauge		1	1
	Jumper Cables		1	1
	Battery Terminal Cleaner		*	*
	Tape, electrical, plastic	0619	1	1
Tape, Teflon		1	1	
Personal Gear (Extra Supply)	File, mill, bastard	0060	*	*
	Head Lamp	0713	1	1
	Hard Hat	0109	1	1
	Goggles	1024	2	2
	Gloves		*	*
	First Aid Kit, individual	0067	1	1
	Fire Shirt		*	*
	Fire Shelter w/case & liner	0169	2	1
	Packsack	0744	2	1
	Batteries, headlamp (pkg)	0030	6	4
	Ear Plugs (pair)	1027	3	3
Radio	Portable		1	1
	Mobile		1	1
	Batteries (for portable radio)		2	2
Hose	Booster (feet/reel)	1220	100	100
	Suction (length, 8' or 10')		2	2
	1" NPSH (feet)	0966	300	300
	1 1/2" NH (feet)	0967	300	300
	3/4" NH, garden (feet)	1016	300	300
	1 1/2" NH, engine protection (feet)		20	20
	1 1/2" NH, refill (feet)		15	15

Nozzle	Forester, 1" NPSH	0024	3	2
	Adjustable, 1" NPSH	0138	4	2
	Adjustable, 1 1/2" NH	0137	5	3
	Adjustable, 3/4" NH	0136	4	2
	Foam, 3/4" NH	0627	1	1
	Foam 1 1/2" NH	0628	1	1
	Mopup Wand	0720	2	1
	Tip, Mopup Wand	0735	4	2
	Tip, Forester, Nozzle, fog	0903	*	*
	Tip, Forester Nozzle, straight stream	0638	*	*
Wye	1" NPSH, Two-Way, Gated	0259	2	1
	1 1/2" NH, Two-Way, Gated	0231	4	2
	3/4" NH w/Ball Valve, Gated	0739	6	4
Adapter	1" NPSH-F to 1" HN-M	0003	*	*
	1" NH-F to 1" NPSH-M	0004	1	1
	1 1/2" NPSH-F to 1 1/2" NH-M	0007	1	1
	1 1/2" NH-F to 1 1/2" NPSH-M	0006	*	*
Increaser	3/4" NH-F to 1" NPSH-M	2235	1	1
	1" NPSH-F to 1 1/2" NH-M	0416	2	1
Coupling	1" NPSH, Double Female	0710	1	1
	1" NPSH, Double Male	0916	1	1
	1 1/2" NH, Double Female	0857	2	2
	1 1/2" NH, Double Male	0856	1	1
Reducer/ Adapter	1" NPSH-F to 3/4" NH-M	0733	3	3
	1 1/2" NH-F to 1 NPSH-M	0010	6	4
	2" NPSH-F to 1 1/2" NH-M	0417	*	*
	2 1/2" NPSH-F to 1 1/2" NH-M	2229	*	*
Reducer	1 1/2" NH-F to 1" NH-M	0009	1	1
	2 1/2" NH-F to 1 1/2" NH-M	2230	1	1
Tee	1" NPSH-F x 1" NPSH-M x 1" NPSH-M, w/cap	2240	2	2
	1 1/2" NH-F x 1 1/2" NH-M x 1" NPSH-M w/cap	0731	2	2
	1 1/2" NH-F x 1 1/2" NH-M x 1" NPSH-M w/valve	0230	2	2
Valve	1 1/2" NH-F, Automatic Check and Bleeder	0228	1	1
	3/4" NH, Shut Off	0738	5	5
	1" Shut Off	1201	1	1
	1 1/2" Shut Off	1207	1	1
	Foot, w/strainer		1	1

Injector	1" NPSH x 1/12" NH, Jet Refill	7429	*	*
Wrench	Hydrant, adjustable, 8"	0688	1	1
	Spanner, 5", 1" to 1 1/2" hose size	0234	4	1
	Spanner, 11", 1 1/2" to 2 1/2" hose size	0235	2	2
	Pipe, 14"	0934	1	1
	Pipe, 20"		1	1
Engine	Fireline Handbook	0065	1	1
	GPS Unit		1	1
	Belt Weather Kit	1050	1	1
	Binoculars		1	1
	Map Case w/ maps		1	1
	Inventory List		1	1
	Current <i>Interagency Standards for Fire and Fire Aviation Operations</i>		1	1
* No minimums – carried by engines as an option, within weight limitations				
NPS – Additional or differing items recommended by NPS				
Fire Tools & Equip ¹	Flapper (NPS)		*	*
	Council Rake (NPS)	1807	*	*
	Leaf blower		*	*
	Shovel	0171	2	1
	Extra Quart, 2 cycle mix		2	1
	Portable Pump		1	*
General Supplies	Chock Blocks		1	1
	Tape, filament (roll)	0222	2	1
	Bolt Cutters		*	*
	Hose Clamp	0046	2	2
Safety	Reflector Set		1	1
Vehicle & Pump Support	Oil, automotive, quart		2	1
	Power steering Fluid		1	1
	Antifreeze (seasonal)		*	*
	Filter, air for engine and pump		*	*
	Filter, oil w/ wrench		*	*
Personal Gear (Extra Supply)	File, mill, bastard	0060	*	*
	Fire Shelter w/case & liner	0925/0975	1	1
	Packsack	0744	2	1
Radio	Batteries (for portable radio)		2	2
Hose	2 1/2" Refill Hose, Water tender		*	*
Nozzle	Adjustable, 1 1/2" NH	0137	3	3
Wyes	3/4" NH w/Ball Valve, Gated	0739	6	2
Coupling	1" NPSH, Double Male	0916	2	1
	1" NH, Double Male	0856	2	2

Reducer / Adapter	1" NPSH-F to ¾" NH-M	0733	3	2
	1 ½" NH-F to 1 NPSH-M	0010	6	3
Tee	1" NPSH-F x 1" NPSH-M x 1" NPSH-M, w/cap	2240	2	*
Valve	1 ½" NH-F, Automatic Check and Bleeder	0228	1	*
	¾" NH, Shut Off	0738	4	2
Wrench	Pipe, 20"		1	*
Engine	Accident Forms (Vehicle & Personnel)		1	1
	Compass		1	1
<p>¹ A minimum of eight tools for type 3, 4, 5 engines and a minimum of five tools for type 6 engines is required. The listed numbers of tools in each box are required to be on the engine. Beyond that, the tools listed as optional or additional required tools can make up the rest of the minimum number required for engines.</p> <p>* No minimums – carried by engines as an option, within weight limitations</p>				

Wildland Fire Decision Support System Information

WFDSS Subsections

The decision support system is divided into 8 subsections within WFDSS. These sections are: Information, Situation, Objectives, Courses of Action, Validation, Decisions, Periodic Assessment, and Reports.

Information

Basic information for an incident is found in this section, which includes: Incident Name, Point of Origin, Unique Fire Identifier, Fire Code, Final Fire Perimeter / Incident Size, Discovery Date, Containment Date, Controlled Date, Out Date, Geographic Area, Responsible Unit at Point of Origin, Incident Cause and Responsible Agency. Updating this information is essential for ongoing incidents (especially acreages and dates) as this information is automatically populated into a WFDSS Decision Document. It is also important that the incident owner(s) are available when the incident is updated or transferred. Incident ownership may be associated with an individual or group, depending on fire complexity, jurisdictions involved, and other considerations.

Situation

The Situation section provides a map interface displaying a variety of incident and reference information. It reduces the need for paper maps by giving users a dynamic and intuitive interface in which information needed for decision support is timely and easily accessible from anywhere with an internet connection.

The Map tab has several spatial layers available:

- Base Layers- WFDSS Topos, Google Maps, Google Physical
- Incident - Planning Areas, Fire Perimeters, Management Action Points, Points of Interest, Incident Objectives;
- Analysis - Ignitions, Barriers, Landscape Masks, Basic Fire Behavior, Short Term Fire Behavior, Near Term Fire Behavior, FSPro (Values at Risk);
- Fire-Related – Active MODIS, Historical Fires, Incidents, RAWs Stations;
- Reference - Admin Boundaries, Counties, Designated Areas, FMU, Geographic Areas, Landscape Extent, Major Roads;
- Values - Building Clusters, Class 1 Airshed, Communication Towers, Critical Habitat, Electric Sub Stations, Mines, NAA Ozone, NAA Particulates, NPS Buildings, Oil/Gas Pipelines, Power Plants, Transmission Lines, USFS Buildings).

Within the Info tab on the Situation page, the user can access: Feature Information, Fire Danger (ERC charts), Smoke Dispersion, Strategic Objectives, Fire Weather Forecasts. Additionally users can access basic information about the underlying landscape file: Source, Elevation, Aspect, Slope, Fuel Model, Canopy Cover, Bulk Density, Stand Height, Base Height.

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1 In addition to viewing the above information, users can also create a Map
2 Capture (screen capture) of the map to be saved for later incorporation into the
3 decision document. Within this section is the ability to create new shape files,
4 view values and boundaries, and conduct basic and short term fire analyses.

5
6 Users can also calculate the Relative Risk as part of their situation assessment.
7 Relative risk is available in the left hand menu. It is a series of four graphs:
8 Hazards, Values, Probability and the summary graph – Relative Risk. As the
9 graphs are completed, there is a text box to document the thoughts/reasons for
10 the inputs. The information from the text box automatically populates in the
11 WFDSS Decision Document. At this time, the graphs themselves do not appear
12 in the decision document. These graphs can be visited pre-season to define some
13 local inputs.

14 **Objectives**

15 Strategic and Management Requirements are automatically loaded in to the
16 program based on those entered from your approved plans (Land & Resource
17 Management Plans, Fire Management Plans) and the location of the fire. Within
18 this section incident requirements and incident objectives are created which are
19 tiered from these overarching Strategic Objectives and Management
20 Requirements. A user can then control the active or deactivated status of these
21 incident objectives and incident requirements based on location of the fire and
22 activity to include them or exclude them from the next decision.

23 **Courses of Action**

24 Documentation for strategic direction and associated cost is completed in this
25 section. Again, the user can edit, include or exclude the strategic direction each
26 time a decision is made. Several methods for determining cost can be found
27 here; follow your agency direction and include a summary of how the cost was
28 constructed.

29
30 Cost can be developed using the Stratified Cost Index (SCI) located in the left
31 hand menu. The SCI is available for USFS and DOI. The correct model is
32 automatically chosen by the Unit ID in the Unique Fire Identifier. The model
33 requires input of the estimated final acreage of the incident. Users can input up
34 to four different acreages.

35
36 It may be helpful to develop Management Action Points (MAPs) at this time
37 which can be done from the left hand menu. MAPs require a Condition when to
38 implement and an Action to implement. They can be defined using the left hand
39 menu and be linked to geospatial MAPs drawn in the situation tab.

40 **Validation**

41 Decisions are validated and documented in this section, prior to publication. It
42 is important to document your justification in the comment section as
43 completely as possible for answering the question - "Will the Incident and

1 Strategic Objectives be satisfied with the proposed Course of Action?" WFDSS
2 users should consider the following when writing this justification:

- 3 • Are there adequate resources to achieve your COA?
- 4 • Has the cost been developed to achieve the COA?
- 5 • Does the current fire behavior and weather assessment support the COA?
- 6 • Have you completed the Relative Risk Assessment and assessed the value
7 inventory?
- 8 • Have you checked your Relative Risk Advice considerations?

9
10 This information will be viewable throughout the decision process and will be
11 automatically populated in the WFDSS Decision Document.

12

13 **Decisions**

14 Within this section is the ability to create, view, edit, and download published
15 decisions. It is important in this area that owners, editors, and reviewers become
16 familiar with their role and understand what they can and can't do with the
17 incident information. Additionally knowing and understanding how and where
18 to save information as agreed upon by the incident owner are essential. From
19 this tab an owner of the incident starts the review and approval process.

20 Incident decisions can be edited by incident owners or by those users who have
21 been granted access through incident privileges: Edit, Review, Approve. Users
22 will access the decision editor by checking the radio button next to the pending
23 decision, then clicking EDIT. Once editing is completed, users will click the
24 Check-In button to allow access by others.

25

26 The WFDSS Decision Document is outlined into several sections: Assessment
27 (Information, Weather, and Other content), Objectives (includes all FMUs,
28 Strategic Objectives and Management Requirements included in the planning
29 area as well as all included Incident Objectives and Incident Requirements),
30 Course of Action (includes MAPs), Validation (Includes the Relative Risk text)
31 and Rationale. Multiple editors can be working on different sections of the
32 WFDSS Decision Document with a little coordination and using the edit /
33 check-in process. Additional information that supports the decision should be
34 added to each of these sections.

35

36 The users who are editing the decision document should include Maps captured
37 or uploaded images that support the decision or help tell the story of the incident
38 and the decision. These images can be added to any section of the document as
39 needed. Additionally, the editors should also include all support information:
40 cost development summary, relative risk, social/political concerns, fire behavior
41 models, values at risk, long term assessment information.

42

43 The WFDSS Decision Document replaces the WFSA, WFIP and Long Term
44 Implementation Plans. Information from the planning documents of the past,
45 that supports the decision, now must be included in the decision document. It is
46 typically added in the Assessment portion of the decision document. This

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1 information should also be summarized and referenced in the Rationale portion
2 of the decision document.

3
4 Once a decision document has all the sections completed, it can be submitted for
5 the Review and Approve process. If a decision has not been published it can also
6 be deleted, however once a decision has been published it is part of that incident
7 record and cannot be removed.

8
9 The Incident Objectives, Incident Requirements, Course of Action and Planning
10 Area cannot be viewed by users who do not have incident ownership or
11 privileges until a decision is published. A new decision must be made if
12 updated information or findings are to be documented.

13 14 **Periodic Assessment**

15 This is the section where the approver will complete the periodic assessment and
16 view the previous actions and comments. The periodic assessment must be
17 completed based on the timeframe specified. Depending upon the complexity
18 and activity on the incident, the timeframe can be set 1-14 days while publishing
19 the decision or during the periodic assessment process. It is beneficial to
20 document clear, concise information about the incident when completing the
21 periodic assessment. This periodic assessment information will be part of the
22 project record and a way for someone to gather situational awareness of the
23 incident. It should be useful information not only during the incident but for
24 years to come when reviewing incidents. This comment section is especially
25 pertinent because it outlines the thought process and reasons for either
26 continuing a current decision or requiring a new one.

27 28 **Reports**

29 This section allows you to create custom reports from documentation and
30 information within your incident that you can view, edit, publish or download
31 but is NOT where you look for a report on a published decision. (Reports on
32 published decisions can be found in the Decisions tab by using the download
33 button.) When creating a report the user can decide on a custom or a
34 Management Action Point report. Both reports give the user the ability to select
35 pertinent information from the incident for the report they are constructing.

MINIMUM CREW STANDARDS FOR NATIONAL MOBILIZATION

Minimum Standards	Type 1	Type 2 with IA Capability	Type 2
Fireline Capability	Initial attack/can be broken up into squads, fire line construction, complex firing operations(backfire)	Initial attack/can be broken up into squads, fireline construction, firing to include burnout	Initial attack, fireline construction, firing as directed
Crew Size	18-20		
Leadership Qualifications	Permanent Supervision Supt: TFLD, ICT4,FIRB Asst Supt: STCR, ICT4 3 Squad Bosses: ICT5 2 Senior Firefighters: FFT1	Crew Boss: CRWB 3 Squad Bosses: ICT5	Crew Boss: CRWB 3 Squad Bosses: FFT1
Language Requirement	All senior leadership including Squad Bosses and higher must be able to read and interpret the language of the crew as well as English.		
Experience	80% 1 season	60% 1 season	20% 1 season
Full Time Organized Crew	Yes (work and train as a unit 40 hrs per week)	No	No
Communications	5 programmable radios	4 programmable radios	
Sawyers	3 agency qualified	3 agency qualified	None
Training	As required by the Interagency Hotshot Crew Guide or agency policy prior to assignment	Basic firefighter training and/or annual firefighter safety refresher prior to assignment	Basic firefighter training and/or annual firefighter safety refresher prior to assignment
Logistics	Crew level agency purchasing authority	No purchasing authority	No purchasing authority
Maximum Weight	5100 lbs		
Dispatch Availability	Available nationally	Available nationally	Variable
Production Factor	1.0	.8	.8
Transportation	Own transportation	Transportation needed	Transportation needed
Tools & Equipment	Fully equipped	Not equipped	Not equipped
Personal Gear	Arrives with: Crew First Aid kit, personal first aid kit, headlamp, 1 qt canteen, web gear, sleeping bag		
PPE	All standard designated fireline PPE		
Certification	Must be annually certified by the local host unit agency administrator or designee prior to being made available for assignment.	N/A	N/A

JOB HAZARD ANALYSIS		Date:	New: <input type="checkbox"/> Revised: <input type="checkbox"/>
		Page 1 of 3	Reviewed by (Safety Mgr)
Field Office/Work Group		Supervisor:	Qual, Trng, Experience Reqd:
This JHA must be reviewed, approved, and signed by the Agency Administrator: Name: _____ Title: _____ Date: _____			
Basic Job Steps	Potential Hazards	Safe Job Procedures	
Work Capacity Testing	Physical Overexertion	Provide prospective test participants information about the test course and review WCT level requirements (e.g., arduous, moderate, light).	
		Test participants complete the Health Screen Questionnaire or provide documentation of clearance for Medical Standards Program (MSP). Only appropriate responses of the prospective subjects to the Health Screen will result in administering the Work Capacity Test.	
		Test Administrators monitor subjects for distress during test. Test Administrator is to terminate test if indicated by level of subject distress.	
		Ensure test participants understand they are to discontinue the test and seek assistance from test administrator and/or on-site medical personnel if they begin to experience adverse discomfort or illness during the test.	
		Schedule tests when environmental conditions are most favorable.	
		Have a person currently qualified as an EMT (with supplies and equipment) onsite when testing is done.	
		Have unit medivac plan and make sure Test Administrators know how to activate it.	
		Make sure test participants do not exceed a walking pace.	
		Ensure test participants are properly hydrated.	
Work Capacity Testing	Strains and Sprains	Ensure test participants properly warm up and stretch just prior to beginning the test. This is especially important to stretch the lower legs.	

		Encourage participants to apply ice and massage to lower legs in the event of lower leg pain (shin splints).
		Give test participants time to properly adjust packs for comfort and positioning prior to beginning the test.
		Test administrator and on site medical personnel shall monitor test participants for indications of distress and terminate the test for them.
		Ensure test participants have comfortable footwear and socks that provides adequate support and protection to feet and ankles.
		Have test participants cool down and stretch after the test.
		Make sure the test participants do not exceed a walking pace.
Work Capacity Testing	Heat Stress	Make sure Test Administrators understand the effects of exercising in heat, can recognize the symptoms of heat stress, and how to treat it.
		Where possible, schedule tests for the most favorable environmental conditions. Use the Heat Stress chart, Fitness and Work Capacity, 2nd Edition (p. 29). Avoid the "High" range.
		Inform prospective test participants on how to dress for the conditions and include the information in the pre-test briefing.
		Make sure test participants are aware of the need for acclimatization. Provide time for employees to become acclimatized if conditions of their employment permit.
		Test Administrators include heat stress information in the test briefing if appropriate.
		Provide water at key point along the test course if conditions dictate.
		Test Administrators monitor all test participants for signs of heat stress, terminate test if stress is indicated, and are prepared to provide treatment needed.
Work Capacity Testing	Cold Temperature	Make sure Test Administrators know symptoms of cold-related physical effects and are prepared to treat them.

		Inform prospective test participants on how to dress for the conditions and include information in the pre-test briefing.
		Locate an indoor facility suitable for testing if conditions warrant.
		Postpone testing if conditions warrant.
Work Capacity Testing	Slippery Course Conditions (ice, snow, mud)	Locate a suitable test surface. Consider indoor facility, plowed airport, plowed road or other safe area.
		Postpone testing if conditions warrant.
		Test participants should wear footwear with good traction.
Work Capacity Testing	Traffic	Select test course without traffic.
		Arrange for traffic control to eliminate traffic hazard.
		Make sure test participants are briefed about traffic hazard and controls implemented prior to the test.
Work Capacity Testing	Pack Rubbing, Chafing, or Straining Subjects	Make sure test participants have practiced with a pack and have become work hardened to carry a pack.
		Recommend upper body clothing that protects from pack rubbing.
		Make sure subjects have an opportunity prior to testing to adjust and try out pack.
		Terminate testing for subjects struggling to carry the pack or maintain a pace adequate to complete the test successfully.
		Permit subjects to use a self-provided pack that meets the applicable weight requirement.