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

2011



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NATIONAL INTERAGENCY FIRE CENTER 3833 S. Development Avenue Boise, Idaho 83705-5354

January 1, 2011

To: Agency Personnel

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

Subject: Interagency Standards for Fire and Fire Aviation Operations

In 2004 the Federal Fire and Aviation Leadership Council chartered a task group to annually revise, publish and distribute the federal *Interagency Standards for Fire and Fire Aviation Operations.*

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

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

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

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

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

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

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

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

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

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FEDERAL WILDLAND FIRE MANAGEMENT POLICY OVERVIEW

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and desired future condition of the various public lands.

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1	3.	Fire Manager	nent Plans (FMPs), programs and activities support Land and
2		Resource Mar	nagement Plans and their implementation.
3	4.	Sound risk ma	anagement is a foundation for all fire management activities.
4		Risks and unc	ertainties relating to fire management activities must be
5		understood, a	nalyzed, communicated and managed as they relate to the cost
6			g or not doing an activity. Net gains to the public benefit will
7			nt component of decisions.
8	5.		nent programs and activities are economically viable, based
9			b be protected, costs and land and resource management
10			ederal agency administrators are adjusting and re-organizing
11			educe costs and increase efficiencies. As part of this process,
12			n fire management activities must be evaluated against other
13			ams in order to effectively accomplish the overall mission, set
14			term priorities, and clarify management accountability.
15	6.		ivities are based upon the best available science. Knowledge
16			e are developed among all wildland fire management
17			active fire research program combined with interagency
18		managers.	provides the means to make these tools available to all fire
19 20	7.		ivities incorporate public health and environmental quality
20	7.	consideration	
21	8.		, tribal, local, interagency and international coordination and
22	0.		re essential. Increasing costs and smaller work forces require
24			encies pool their human resources to successfully deal with
25			asing and more complex fire management tasks. Full
26			among federal agencies and between the federal agencies and
27			state, tribal, and local governments and private entities results
28		in a mobile fi	re management work force available for the full range of
29		public needs.	
30	9.		on of policies and procedures among federal agencies is an
31			ctive. Consistency of plans and operations provides the
32			blatform upon which federal agencies can cooperate, integrate
33			across agency boundaries and provide leadership for
34		cooperation w	vith state, tribal, and local fire management organizations.
35		D · 17	
36			Ipdate of the 1995 Federal Wildland Fire Management Policy
37		(January 200	()
38	FL	monts of the I	Fodoval Wildland Five Management Deliev
39 40	1.	Safety	Federal Wildland Fire Management Policy
40	1.		d public safety is the first priority. All FMPs and activities
41			his commitment.
43	2.		ment and Ecosystem Sustainability
44	-•		e of fire management activities will be used to help achieve
45			stainability, including interrelated ecological, economic, and
			ponta

46 social components.

01-2

5

3 3. Response to Wildland Fire

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

11 4. Use of Wildland Fire

- 12 Wildland fire will be used to protect, maintain and enhance resources and,
- as nearly as possible, be allowed to function in its natural ecological role.
- 14 Use of fire will be based on approved FMPs and will follow specific
- 15 prescriptions contained in operational plans.

16 5. Rehabilitation and Restoration

Rehabilitation and restoration efforts will be undertaken to protect and
 sustain ecosystems, public health, safety, and to help communities protect
 infrastructure.

20 6. Protection Priorities

- 21 The protection of human life is the single overriding suppression priority.
- 22 Setting priorities among protecting public communities and community
- 23 infrastructure, other property and improvements and natural and cultural
- resources will be done based on the values to be protected, public health
- and safety and the costs of protection. Once people have been committed to
 an incident, these human resources become the highest value to be
- 27 protected.

28 7. Wildland Urban Interface

- The operational roles of the federal agencies as partners in the wildland 29 urban interface are wildland firefighting, hazard reduction, cooperative 30 prevention, education, and technical assistance. Structural fire suppression 31 is the responsibility of tribal, state, or local governments. Federal agencies 32 may assist with exterior structural fire protection activities under formal fire 33 protection agreements that specify the mutual responsibilities of the 34 35 partners, including funding. (Some federal agencies have full structural protection authority for their facilities on lands they administer and may 36 also enter into formal agreements to assist state and local governments with 37 structural protection.) 38 8. Planning 39 Every area with burnable vegetation must have an approved FMP. FMPs 40 are strategic plans that define a program to manage wildland and prescribed 41 fires based on the area's approved land management plan (LMP). FMPs 42
- 43 must provide for firefighter and public safety; include fire management
- 44 strategies, tactics, and alternatives; address values to be protected, and
- 45 public health issues; and be consistent with resource management
- ⁴⁶ objectives, activities of the area and environmental laws and regulations.

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- 1
- 2
- 3 9. Science
- FMPs and fire programs will be based on a foundation of the best available science. Research will support ongoing efforts to increase our scientific
- 6 knowledge of biological, physical, and sociological factors. Information
- 7 needed to support fire management will be developed through an integrated
- 8 interagency fire science program. Scientific results must be made available
- y to managers in a timely manner and must be used in the development of
- 10 LMPs, FMPs and implementation plans.

11 10. Preparedness

- 12 Agencies will ensure their capability to provide safe, cost-effective fire
- 13 management programs in support of land and resource management plans
- 14 through appropriate planning, staffing, training, equipment, and
- 15 management oversight.

16 11. Suppression

Fires are suppressed at minimum cost, considering firefighter and public safety, benefits and all values to be protected consistent with resource

19 objectives.

20 12. Prevention

- 21 Agencies will work together with their partners, other affected groups, and
- 22 individuals to prevent unauthorized ignition of wildland fires.

23 13. Standardization

- 24 Agencies will use compatible planning processes, funding mechanisms,
- training and qualification requirements, operational procedures, values-to-
- ²⁶ be protected methodologies, and public education programs for all fire
- 27 management activities.

28 14. Interagency Cooperation and Coordination

- 29 Fire management planning, preparedness, prevention, suppression,
- 30 restoration and rehabilitation, monitoring, research and education will be
- conducted on an interagency basis with the involvement of cooperators and
- 32 partners.

33 15. Communication and Education

- 34 Agencies will enhance knowledge and understanding of wildland fire
- 35 management policies and practices through internal and external
- 36 communication and education programs. These programs will be
- 37 continuously improved through the timely and effective exchange of
- information among all affected agencies and organizations.

39 16. Agency Administrator and Employee Roles

- 40 Agency administrators will ensure their employees are trained, certified,
- and made available to participate in the wildland fire program locally,
- regionally, and nationally as the situation demands. Employees with
- 43 operational, administrative, or other skills will support the wildland fire
- 44 programs as necessary. Agency administrators are responsible and will be
- ⁴⁵ held accountable for making employees available.
- 46 17. Evaluation

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FEDERAL WILDLAND FIRE MANAGEMENT POLICY OVERVIEW

- Agencies will develop and implement a systematic method of evaluation to
- 2 determine effectiveness of projects through implementation of the 2001
- 3 Federal Wildland Fire Management Policy. The evaluation will assure
- accountability, facilitate resolution in areas of conflict and identify resource
 shortages and agency priorities.
- 6

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

9

Guidance for Implementation of Federal Wildland Fire Management Policy
 (February 13, 2009)

On February 13, 2009, the Fire Executive Council (FEC) approved guidance for
the implementation of federal wildland fire management policy. This guidance

- 15 provides for consistent implementation of the *Review and Update of the 1995*
- 16 Federal Wildland Fire Management Policy (January 2001), as directed by the
- 17 Wildland Fire Leadership Council.
- 18
- Guidance for Implementation of Federal Wildland Fire Management Policy
 (February 13, 2009), page 3.
- 21

38

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

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CHAPTER 01	FEDERAL WILDLAND FIRE MANAGEMENT POLICY OVERVIEW
	uman-caused wildfire will be to suppress the fire at the he fewest negative consequences with respect to blic safety
4 9. Managers will use	e a decision support process to guide and document nent decisions. The process will provide situational
7 document decision	ze hazards and risk, define implementation actions, and ns and rationale for those decisions.
 ⁸ ⁹ Guidance for Imp 10 (February 13, 200) 	<i>lementation of Federal Wildland Fire Management Policy</i> 09), page 7.
11 12 Fire Management Ob	ojectives
13	
	anagement programs should assist resource managers enhance federal lands in a cost effective manner. ment objectives are:
17 • Protect human life	e, property and natural/cultural resources, both within and y administered lands.
19 • Minimize damage	es and maximize overall benefits of wildland fire within land use objectives and Land/Resource Management
as expressed in the	and fire program in accordance with congressional intent e annual appropriations act and enabling legislation and icable departmental manual and agency policies and
 Employ strategies public safety, min 	gency approach to managing fires on an ecosystem basis. to manage wildland fires that provide for firefighter and imize cost and resource damage and are consistent with cted and management objectives.
-	bilitate resources and improvements lost or damaged by
	ere necessary, mitigate human-induced impacts to processes, or improvements attributable to wildland fire
 Promote public un Organize a fire stationality 	nderstanding of fire management programs and objectives. aff that can apply the highest standards of professional and
 technical expertise Encourage researce ecology, and man 	ch to advance the understanding of fire behavior, effects,
40 • Integrate fire man	agement through all levels of the planning process. tigate all unplanned human-caused fires.
42 43 44	
44 45	
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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

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

Fire Leadership 16

Leadership is the art of influencing people in order to achieve a result. The most 17 essential element for success in the wildland fire service is good leadership. 18

- Good leaders provide purpose, direction and motivation for wildland firefighters 19
- working to accomplish difficult tasks under dangerous, stressful circumstances.
- 20 Leaders often face difficult problems to which there are no simple, clear-cut, by-
- 21 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
- direct action in short, to provide leadership. All firefighters, regardless of 24
- position, must provide leadership. 25
- 26

Fire Suppression 27

- The purpose of fire suppression is to put the fire out in a safe, effective and 28
- efficient manner. Fires are easier and less expensive to suppress when they are 29
- small. When the management goal is full suppression, aggressive initial attack 30
- is the single most important method to ensure the safety of firefighters and the 31
- public and to limit suppression costs. Aggressive initial attack provides the 32
- Incident Commander maximum flexibility in suppression operations. 33
- 34 Successful initial attack relies on speed and appropriate force. All aspects of fire
- suppression benefit from this philosophy. Planning, organizing and 35
- implementing fire suppression operations should always meet the objective of 36
- directly, quickly and economically contributing to the suppression effort. Every 37
- firefighter, whether in a management, command, support, or direct suppression 38
- role, should be committed to maximizing the speed and efficiency with which 39
- the most capable firefighters can engage in suppression action. When the 40
- management goal is other than full suppression, or when conditions dictate a 41
- limited suppression response, decisiveness is still essential and an aggressive 42
- approach toward accomplishment of objectives is still critical. 43
- 44
- 45
- 46

01-8

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
- fire suppression operations is to achieve the suppression objectives that
- 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
- 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
- the likelihood of successful suppression actions.

29 3. Positioning

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

37 4. Simplicity

- 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

- The principle of safety maintains that ensuring the safety of firefighters and
- 43 other persons affected by fire operations is fundamental to successful
- suppression action. Safety not only contributes to successful actions, it isindispensable to them.
- 45 46

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CHAPTER 01 FEDERAL WILDLAND FIRE MANAGEMENT POLICY OVERVIEW

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.

Release Date: January 2011

1 2 3 4	Chapter 02 BLM Wildland Fire and Aviation Program Organization and Responsibilities
5	Introduction
6 7 8 9 10 11 12 13	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.
13	Fire and Aviation Directorate
 15 16 17 18 19 20 21 22 	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.
23	Program Manager Responsibilities
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	 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-
43 44 45	 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. Release Date: January 2011 02-1

	CHAPTER 02	BLM PROGRAM ORGANIZATION & RESPONSIBILITIES
1 2		or participates on Boards of Review concerning actions taken on wildland fires.
3 4 5	-	es cooperative agreements and/or modifications of existing national reements to improve fire and aviation management activities on ands
6 7 8 9	Reviews emergen	funding requests for severity, hazardous fuel reduction, and cy rehabilitation of Bureau lands damaged by wildland fires; makes lations on funding levels and recommends approval to the BLM
10 11 12 13 14	Treasury Assistan	s designated contact for the United States Department of the for the certification and revocation of Certifying Officers and t Disbursing Officers (CO/ADO) and Designated Officials for cy incident payments.
15	Equal Emple	oyment Opportunity Manager (EEO) (FA-102)
16 17	Manages	s the Equal Employment Opportunity (EEO) program in accordance al, regulatory, and policy requirements.
18 19 20 21	Manages Resolutio Opporture	s and directs the Counseling Program, and Alternative Dispute on (ADR) programs, in accordance with Equal Employment nity Commission (EEOC) regulations and BLM policy as well as NIFC agencies.
22 23 24	• Advises responsil formulat	managers and aggrieved persons of employee rights and bilities, procedural options and timeframes in conflict situations and es proposed resolutions.
25 26 27	informal	es with managers, aggrieved persons and their representatives to ly resolve EEO matters, and executes final settlement agreements. s the Affirmative Employment Program (AEP).
27 28 29 30	• Develops under Se	s and maintains the accessibility program for the disabled, required ection 504 of the Rehabilitation Act of 1973, as amended, and the ns with Disability Act (ADA of 1990).
31 32	• Conduct	s analyses to evaluate progress in meeting equal employment nity program goals.
33		ters training activities for the organization.
34 35		s managers and supervisors with guidance and advice on issues o EEO/civil rights program activities.
36 37 38	universit	nts the organization in meetings with public and private groups, ties, minority and women's organizations, other DOI components, r federal agencies.
39	~ ~ ~	
40		vices Division Chief (FA-200)
41 42		s all aspects of the responsibilities and programs under the ion of NIFC for the benefit of the BLM and cooperating agencies.
43 44 45	appropri	he accomplishment of the approved operating budget, exercising ate control to assure program quality goals are met according to red standards.
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- Interprets departmental and Bureau policies and directives as they affect 1 2
- NIFC programs.
- Participates in the BLM-wide and interagency task force activities as a . 3 leader or member. 4
- Responsible for the NIFC Site and Facilities Management, Business 5 .
- Practices, Human Resources, and Information Resource Management. 6
- Is a focal point and frequent spokesperson for the Bureau and the national 7 .
- level management, assures a public awareness of Bureau programs and 8 coordinates with key officials in affected federal agencies, states, and 9
- occasionally with other entities such as: foreign governments, private 10
- individuals, private organizations, vendors, suppliers, transportation groups, 11
- 12 airlines, and others.
- Supports the implementation of the BLM's Automation/Modernization/ 13 .
- Information Resource Management (IRM) initiatives as they apply to 14
- BLM/NIFC. 15
- 16

Fire Operations Division Chief (FA-300) 17

- Serves as the principal technical expert on fire operations to the Assistant 18 .
- Director, Deputy Assistant Director (FA) and to the BLM State Fire 19 Programs. 20
- Provides the Assistant Director and the Deputy Assistant Director (FA) 21 •
- technical advice, operational oversight, and leadership in all aspects of fire 22 operations. 23
- Performs annual fire program preparedness reviews. Evaluates compliance 24 . with policies, objectives, and standards. Assesses operational readiness and 25 provides technical assistance to solve identified problems. Performs other 26 operations reviews as required /requested. 27
- Assists the Assistant Director and Deputy Assistant Director (FA), in the 28 •
- formulation and establishment of national policies and programs pertinent 29
- to wildland fire preparedness, suppression, shared national resources, 30
- safety, training, and equipment. 31
- Serves as the BLM technical expert on national interagency mobilization 32 . and utilization of fire suppression resources. 33
- Develops national plans, standards, and technical guides for the BLM and 34 . interagency fire management operations. 35
- Develops and implements safety programs, accident investigation 36 .
- procedures, and safety trend analyses. 37
- 38 39

Budget and Evaluation Division Chief (FA-400)

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

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	CHAPTER 02	BLM PROGRAM ORGANIZATION & RESPONSIBILITIES
1	• Represents	BLM on the DOI Fire Budget Team and at other interagency
2	-	n regards to budget related policies, requirements, procedures,
3	and reports	
4		s all budget activities between Washington Office, Office of
5		Fire Coordination, and Fire and Aviation.
6		ational oversight for BLM Wildland Fire program budget
7		n, justification, and execution. Responsible for the development
8	1 1	ation of the budget justifications, Planning Target Allocation, ork Plan, capability statements, effects statements, and
9 10		nal responses.
10		IFC offices at mid-year, third quarter and end-of-year and
12		available funding in accordance with BLM policy.
13		versight of Casual Payment Center. Ensures all DOI casual
14		are processed in a timely and cost-effective manner adhering to
15		and practices set forth by the DOI agencies.
16	-	
17	Aviation Divis	ion Chief (FA-500)
18		principal aviation advisor to the Assistant Director, Deputy
19		Director (FA), other staffs, states, and to the DOI.
20		nd develops Bureau aviation policies, methods and procedures,
21		standardized technical specifications for a variety of specialized
22		g missions for incorporation into the directives system.
23		es aviation-related activities and services between the Washington
24 25		D), and states with other wildland firefighting, regulatory, ve, and military agencies.
26		s provision and use of aviation resources with business practices,
20		er staffs at the WO, and state office level.
28		the BLM at interagency meetings, in interagency committees
29		government-wide aviation policies, requirements, procedures
30	and reports	s, at aviation industry meetings and conventions.
31	• Develops a	nd implements aviation safety programs, accident investigation
32		, and aviation safety trend analyses.
33		conducts reviews and evaluations of state aviation programs.
34		conducts technical and managerial analyses relating to the
35		on of aviation organization and resources appropriate for agency
36		ffectiveness of aviation firefighting, other specialized missions,
37	related area	usition requirements, equipment developmental needs, and
38 39	Telated ale	15.
40	Planning and	Resources Division Chief (FA-600)
41		le for the development and implementation of the Bureau wide
42		ng program. Provides guidance and assistance in administering
43		al and operational aspects of BLM's fire planning program at the
44		ad agency levels for the accurate identification of program
	02.4	
	02-4	Release Date: January 2011

- funding needs. Checks for accuracy in computations with instructions and
 policies.
- Responsible for the development and coordination of the BLM's prescribed
 fire, fuels management, and fire prevention annual programs, and
- reason and the distribution of measure funds to regions
- 5 recommends the distribution of program funds to regions.
- 6 Tracks all fuels management fund distributions and prior year carryover
- funds. Develops and maintains a national database for fuels management
 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
- Bureauwide application. Examines and analyzes laws and regulations
- 12 pertaining to prescribed fire use/fuels management in the wildland urban
- 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

22 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.
- Responsible for coordination of the responses to: Office of Management
 and Budget (OMB), Government Accountability Office (GAO),
- 29 congressional, political and other external inquires between agencies and
- departments, establishing and maintaining cooperative relationships
- resulting in quality work products.
- 32 Serves as the manager of the External Affairs program for the NIFC.
- Develops recommendations pertaining to External Affairs aspects for BLM
 Fire and Aviation policies.
- 35 Initiates External Affairs policies and procedures pertaining to Fire and
- Aviation for adoption at the department level in conjunction with other 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

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CHAPTER 02	BLM Program Organization & Responsibilities
nature, pr	roviding analysis and advice on public reaction to major policy and
program	
• Coordina	te with legislative affairs on proposed legislation regarding FA.
National Rad	lio Communications Division (WO-410)
• The Nation	onal Radio Communications Division (NRCD) provides national
leadershi	p and policy development for national level cooperative
	nts and memorandums of understanding with cooperators and
partners t	to achieve radio interoperability, system sharing, and other areas of
mutual in	
• Provides	support regarding the national radio contracts (GSA, DOI, etc.) to
	conventional P-25 radio equipment requirements.
• Coordina	tes national level interagency sharing initiatives and develops long
term nati	onal overarching radio system plans to share radio backbone and
mountain	top facilities, frequencies and equipment with federal, state, and
local coo	perators. Process radio frequency authorizations (RFAs), and
performs	5-year radio frequency reviews to ensure compatible operation
and optin	nal use of the limited frequency spectrum resources.
• Leads/pa	rticipates in meetings and represent the Bureau's radio interests
with esta	blished federal, state, and local technical advisory groups. Manage
Bureau-v	vide radio equipment tracking systems, life cycle replacement
planning,	, and equipment replacement budget procedures.
 Develops 	s national policies and guidance for the BLM related to OSHA and
	eral laws and standards. Utilizes the BLM CASHE Audit program
	communication site inspections and facility assessments are
	d every five years in coordination with WO-360. Leads the
	nent of national training programs concerned with the
	zation, control, operation, testing and repair of communications
programs	
1 0	ble for reviews and investigation or reports related to safety issues
	o equipment. Works with the National Safety Manager (WO-740)
	shing radio related safety training. Develops safety handbooks and
	assessments analysis associated with the National Radio
	ications Program.
	ble for radio telecommunication systems security and ensures
-	curity encryption needs are established.
suong se	carry energy and needs are established.
State Directo)r
	ector is responsible for fire management programs and activities
	te. The State Director will meet the required elements outlined in
	cy Fire Program Management Qualifications Standards and Guide
	v.ifpm.nifc.gov/ and ensure training is completed to support
	b line managers and principal actings.
acregations to	nie managers and principal actings.
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- 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.	11. Annually convenes and participates in pre-and post season fire meetings.		Х
12.	Reviews critical operations and safety policies and procedures with fire and fire aviation personnel.	X	Х
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</i> <i>313, NFES 1831, Jan 2004.</i>		х
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</i> <i>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

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CHAPTER 02

	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 Agency Administrator's Guide to Critical Incident Management www.nwcg.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

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BLM PROGRAM ORGANIZATION & RESPONSIBILITIES

- 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 actings 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

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CHAPTER 02

	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
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	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.		Х
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	Х
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

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CHAPTER 02

	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 Agency Administrator's Guide to Critical Incident Management.	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

2 Delegation of Authority

3

1

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.
- Coordinate and establish priorities on uncommitted fire suppression
 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.
- Correct unsafe fire suppression activities.

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CHAPTER 02 BLM PROGRAM ORGANIZATION & RESPONSIBILITIES

- Direct accelerated, aggressive initial attack when appropriate.
- 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.
- Give authorization to hire Emergency Firefighters in accordance with the
 DOI Pay Plan for Emergency Workers.
- Approve emergency fire severity funding expenditures not to exceed the
 agency's annual authority.
- 9 Appendix C provides a sample "Delegation of Authority".

10

1

2

- 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:
- Serve as the District Manager's authorized representative on operations
 groups and coordination groups, including MAC groups.
- Coordinate and establish priorities on uncommitted fire suppression
 resources during periods of shortages.
- 20 Coordinate logistics and suppression operations for the unit.
- Relocate agency pre-suppression/suppression resources within the unit
 based on relative fire potential/activity.
- 23 Correct unsafe fire suppression activities.
- 24 Direct accelerated, aggressive initial attack when appropriate.
- 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.
- Give authorization to hire Emergency Firefighters in accordance with the
 DOI Pay Plan for Emergency Workers.
- Approve emergency fire severity funding expenditures not to exceed the
 unit's approved authority.
- 32 Appendix C provides a sample "Delegation of Authority".
- 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 Operating41 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.

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- Keep unit agency administrators, suppression resources, and information
- 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.

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12 Incident Business

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- 14 Administrative guidance related to payroll operations, hiring authorities,
- 15 Emergency Support Functions, fire contracting, cost reviews, etc. can be found
- 16 on the BLM Fire & Aviation web site at:
- 17 http://web.blm.gov/internal/fire/budget/index.html

18

BLM Fire Management Position Titles and Fire Department CooperatorEquivalencies

21

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

24

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	Division Chief
Management Specialist, District Fuels Specialist	
Fire Operations Specialist, Fuels Specialist,	Battalion Chief
Assistant Center Manager, Prevention/Education	
Specialist	
Prevention Technician, Prevention/Education	Prevention officer
Specialist	
Hotshot Superintendent, Helicopter Manager	Superintendent
Engine Captain, Hotshot Foreman, Assistant	Captain
Helicopter Manager, Fuels Module Leader	
Fire Engine Operator	Engineer
Communications Technician	Comm.
Mechanic	Repair

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26

27

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1 Safety and Health Program

2

9

- 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.

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

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CHAPTER 02

	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.		Х	Х	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</i> <i>Pocket Guide, 1112-2</i> <i>Manual, Fireline</i> <i>Handbook 410-1</i>).			X	

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	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</i> <i>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.		Х	Х	
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	Х		X
14.	Personal Protective Equipment (PPE) supplied, is serviceable, and being utilized.		X	X	
15.	Ensures tailgate safety meetings are held and documented.			Х	

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CHAPTER 02

	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</i> <i>Safety</i> .		X		
17.	Procedures are in place for reporting unsafe and unhealthful working conditions.		X		Х
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</i> <i>1112 Safety</i>			X	X
19.	Injury data is monitored and reviewed to determine trends affecting the health and welfare of employees.		X		x

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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. 29 CFR 1960 and 485 DM, Chapter 5 requirements.	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
- means provided or directed by recognized authority at all times when
 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
- 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.

15 Emergency Notification

16

14

17 After emergency response actions deliver an injured employee to the immediate 18 medical care facility, prompt notification through the chain of command is

essential to ensure proper management support to the employee. For BLM fireoperations, 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
- 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

02-20

- 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

BLM Honor Guard

5 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,
- threatening, or offensive gestures.

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• Verbal or written misconduct - Inappropriate references to body parts; derogatory or demeaning comments, jokes, or personal questions; sexual innuendoes; offensive remarks about race, gender, religion, age, ethnicity,
or sexual orientation, obscene letters or telephone calls, catcalls, whistles or sexually suggestive sounds.
• Visual or symbolic misconduct - Display of nude pictures, scantily-clad,
or offensively-clad people; display of offensive, threatening, demeaning, or derogatory symbols, drawings, cartoons, or other graphics; offensive
 clothing or beverage containers, bumper stickers, or other articles. Hazing - Hazing is considered a form of harassment. "Hazing" is defined as
"any action taken, or situation created intentionally, to produce mental or physical discomfort, embarrassment, or ridicule."
• Alcohol - The use of alcohol during any work period is strictly prohibited. The performance of job duties while under the influence of alcohol is prohibited. Underage personnel alcohol use is prohibited at all times.
BLM Mobile Fire Equipment Policy
DEM Mobile File Equipment Foncy
Introduction
The following section represents a general overview of the BLM Mobile Fire
Equipment Policy. The policy can be found in it's entirety on the BLM National
Fire Equipment Program (NFEP) Website at:
http://web.blm.gov/internal/fire/fire_ops/EquipDev/index.htm
Policy and Guidance
The BLM fire equipment program is responsible for the design, development, and acquisition of specialized wildland fire equipment to meet the full range of
fire management requirements. The design and development is accomplished through the analysis of performance needs required by BLM field units and
working with industry to produce prototypes for testing and eventually
production units. Acquisition of equipment is accomplished primarily through
contracting. The BLM fire equipment program balances advanced technology
with overall cost efficiency to provide maximum safety for personnel while
effectively meeting fire management needs.
It is agency policy to maintain each piece of fire equipment at a high level of
performance and in a condition consistent with the work it has been designed to
perform. This shall be accomplished through application of a uniform
on assignment, and in accordance with all agency fiscal requirements. Repairs
shall be made as they are identified to keep the equipment functional and in peak
operating condition.
Fire Equipment Committees
There are three levels of fire equipment committees: National, State, and
Interagency. Fire equipment committees address the broad spectrum of
interagency. The equipment commutees 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

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- 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

5

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

19

- 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.

29

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.

35

- 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.

41

- 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.
- 45
- 46

02-24

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
- to disposal. Units acquiring this type of equipment continue payment of the FORand use rates.

17 a 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
- identified in Resource/Land management Plans and Fire ManagementPlans.
- 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

If any proposed changes in equipment result in additional overall costs to thegovernment, 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
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- 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 the3 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
- driver will be authorized by one state to operate with lights and sirens in another state.
- 24
- 25 See Instruction Memorandum No. FA IM-2009-022 for further information.
- 27 **BLM Firefighters**
- 28

26

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
- 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.
- Engine Crews Engine mobile firefighters that specialize in the use of
 engines for tactical operations.
- 44 Helitack Helicopter mobile firefighters that specialize in the use of
- 45 helicopters for tactical and logistical operations.

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

5 BLM Firefighter Priority for Use

- 6 Initial attack on lands for which the BLM has suppression responsibility.
- 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 11 m
- 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

- and suppression resources. Reasons to consider management or operationalsupport may include:
- 19 To improve BLM initial attack capability in areas during peak fire danger.
- To provide BLM employees training opportunities with different BLM
 management offices.
- To provide oversight for efficient utilization of BLM resources to support
 BLM fire management priorities.
- To provide management support to maintain adequate span of control for
 both management and suppression activities.
- 26

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

- Unit fire management identifies the need for support and notifies their state
 fire managers.
- The requesting State FOG representative, in conjunction with their local fire management, will determine the need, location, and timeframes for
- management and suppression resources assistance, based on current and expected state fire activity.
- The requesting State FOG representative will contact fellow Fire Operations Group (FOG) members to find qualified resources available to fill their
- 36 needs.
- 37 When resources are identified:
- The requesting State FOG representative will electronically sign and
 email a *BLM Detail Request Form* to the identified resources home
 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

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- 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
	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)
Agency Permanent, Career Seasonal, & Temporary Firefighters	Defensive Driving	Prior to operating motor vehicle for official purposes.
i n'engliter s		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	Defensive Driving (If operating GOV, including rental or leased, vehicle for official purposes, prior to operating vehicle).	Once every three years.
Determined (AD) and Emergency Firefighters (EFF)	First Aid/Cardiopulmonary Resuscitation (CPR)	Upon initial employment. Every 3 years or per certifying
r nengners (EFF)		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.

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BLM Firefighter Mandatory Physical Fitness Standards 1

The Wildland Fire Qualifications System Guide (PMS 310-1) establishes 2

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

9

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

13

14 BLM Firefighter Target Physical Fitness Standards

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

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

BLM National Fire Operations Fitness Challenge 24

- The BLM national fire operations fitness challenge encourages and recognizes 25
- ²⁶ achievement in physical fitness by BLM firefighters. The fitness challenge
- provides a common system by which BLM firefighters can measure current 27
- fitness, establish fitness goals, and track fitness improvement. The fitness 28
- challenge is voluntary, but BLM firefighters are encouraged to participate. The 29
- 30 fitness challenge tests participants in four basic exercises - push-ups, pull-ups,
- sit-ups and a timed run of either 1.5 or 3.0 miles. Test results are compiled into 31
- 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 **Release Date: January 2011**

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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
- experience requirements, 3) NWCG incident management qualifications, 4)
 additional required training.
- 13 Provides a "complexity rating for program management" table, which is
- used to determine overall complexity of the unit level fire program. This is
- used because qualification standards for some of the 13 identified positions
- are tied to fire program complexity.

17

4

- 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
- 21

22 BLM Hand Crews

23

24 BLM Hand Crew Standards (all crew types)

- 25 Language CRWB and FFT1: must be able to read and interpret the
- language of the crew as well as English.
- **Flight Weight** − 5300 pounds
- **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.
- 32
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02-30

1	BLM	Hand	Crew	Standards	by Type
---	-----	------	------	-----------	---------

Crew Type	Туре 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.

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

3

BLM IHC Locations 4

State	Crew	Location
AK	Chena	Fairbanks
	Midnight Sun	
СА	Diamond Mountain	Susanville
	Kern Valley	Bakersfield
СО	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

outlined in the Standards for Interagency Hotshot Crew Operations before 8

becoming available for assignment each spring. BLM specific direction is 9 outlined below: 10

• The superintendent will complete an appendix C from the Standards for 11 12 Interagency Hotshot Crew Operations with their local FMO and agency

administrator. 13

A copy of Appendix C will be sent to the BLM State Fire Management 14 • Officer for approval. 15

- The extent of the preparedness review required every 12 months by the \geq 16 Appendix C will be at the discretion of the State Fire Management 17 18
 - Officer, local Fire Management Officer, and crew superintendent.

The State Fire Management Officer will notify the appropriate Geographic Area 19

Coordination Center (GACC) of crew availability. 20

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
- their local GACG and have the crew typing amended to the appropriate level as 26
- listed in the BLM crew typing chart. 27
- 28

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- 1 Re-statusing the crew back to the IHC level will use ether 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.

7

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 transport12 and the crew size is greater than 20.
- 12 an

14 BLM IHC Status Reporting System

- BLM IHCs will report status through the BLM IHC Status Reporting
 System.
- BLM IHC superintendents will regularly update the system by contacting
 the BOI SMKJ Duty Officer with any change in crew status and/or current
 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)
 - > 208-387-5426 (work hours)
- 23 > 208-850-5144 (after hours)
- BLM IHC status will be posted at
- 25 http://www.nifc.gov/smokejumper/hotshotrpt.php

26

22

27 BLM IHC Training and Qualification Requirements

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

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Squad Boss	ICT5	All the a	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	STCR	All the a	All the above plus:		
Superintenden	t ICT4	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		
Superintenden	t TFLD	All the a	bove.		
-	ICT4				
	FIRB				

2 BLM Engines

3

1

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 the8 Type 4 level.

9

10 BLM Engine Ordering

BLM engines will status themselves with their local dispatch center in

- 12 accordance with local policy and procedure.
- Availability of BLM engines for off unit assignments rests with local unit
 fire management.
- BLM units needing engines from off their own unit for support will contact
 their state operations lead with a request.

The state operations lead will contact the FA Division of Operations or
 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 NWCC Fireling Handbook (PMS 410.1):

- 22 in the *NWCG Fireline Handbook (PMS 410-1):*
- 23
- 24
- 25
- 26

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CHAPTER 02

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

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BLM PROGRAM ORGANIZATION & RESPONSIBILITIES

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)	BLM Engine Driver Orientation (annual) ¹
	and	and
	Defensive Driving	Defensive Driving (every 3 years)
Engine Operator	BLM (ENOP)Engine Operator	BLM Engine Driver
and	Course or equivalent	Refresher
Engine Captain	and	(annual)
	CDL Permit	and
	(GVW 26,000 or greater)	Defensive Driving
	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

5 satisfy this refresher training requirement.

⁶ ² WCF class 650 and 668 driver and maintenance training will be conducted by

7 the FAD Division of Fire Operations National Fire Equipment Program

 8 annually. Travel, per-diem, vehicle operating charges, and fuel costs directly 02-36
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- 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 courses3 can be found at:

4 http://www.blm.gov/nifc/st/en/prog/fire/training/fire_training/projects/engine_tr 5 aning.html

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

14 BLM Engine Equipment Inventory

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

17

18 Fire Engine Maintenance Procedure and Record (FEMPR)

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

30 BLM Smokejumpers

31

29

- 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

41 BLM SMKJ Operations

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

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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.

9

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.

17

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.

24

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.

29

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.
- 41

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

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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.

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|--|

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
 national smokejumper physical fitness standards.
- 11 If an employee sustains an injury (verified by a licensed medical provider)
- during a test, the test will not count as an attempt. Once an injured
- 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.
- 38
- 39
- 40
- 41
- 42
- 43
- 43 44
- 44

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

Role	Min IOCS	& Composition Target IQCS	Target	Currency
Kült	Qualifications	Qualifications	Training	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

Operational Guidelines for Aquatic Invasive Species 4

5

3

2

In order to prevent the spread of aquatic invasive species, it is important that fire 6

personnel not only recognize the threat aquatic invasive species pose to 7

ecological integrity, but how our fire operations and resulting actions can 8

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

of aquatic invasive species and for equipment cleaning guidance specific to 12

those prevalent areas and associated species. To minimize the potential 13

transmission of aquatic invasive species, it is recommended that you: 14

Consult with local biologists, resource advisors (READ) and fire personnel • 15

for known aquatic invasive species locations in the area and avoid them 16 when possible. 17

18 . Avoid entering (driving through) water bodies or saturated areas whenever possible. 19

Avoid transferring water between drainages or between unconnected waters 20 . within the same drainage when possible. 21

Use the smallest screen possible that does not negatively impact operations 22 • and avoid sucking organic and bottom substrate material into water intakes 23

when drafting from a natural water body. 24

25 . Avoid obtaining water from multiple sources during a single operational

period when possible. 26

Remove all visible plant parts, soil and other materials from external 27 .

surfaces of gear and equipment after an operational period. If possible, 28

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CHAPTER 02	BLM PROGRAM ORGANIZATION & RESPONSIBILITIES
1	accessible surfaces with clean, hot water (ideally $> 140^{\circ}$ F) mated by a local READ.

2 3

1

- 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

4 Agency Administrator Roles

6 Director

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

11

1

2 3

5

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

15

16 Regional Director

- 17 The Regional Director is responsible to the Director for fire management
- 18 programs and activities within their region.
- 19
- 20 The Regional Director will meet the required elements outlined in the
- 21 Management Performance Requirements for Fire Operations and ensure
- 22 training is completed to support delegations to line managers and principal
- 23 actings.

24

25 Park Superintendent

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

32 33

Agency Administrator Management Performance Requirements for Fire

34 **Operations**

5	

	PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
1.	Take necessary and prudent actions to ensure firefighter and public safety.	Х	Х	Х
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.	Х	Х	Х

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CHAPTER 03

	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</i> <i>Management Qualification Standards</i> .	Х	Х	Х
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.	Х	Х	Х
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.			Х

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NPS PROGRAM ORGANIZATION & RESPONSIBILITIES

CHAPTER 03

	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.	Х	Х	Х
7.	Develop fire management standards and constraints that are in compliance with agency fire policies.		Х	Х
8.	Ensure use of fire funds is in compliance with Department and Agency policies.	Х	Х	Х
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.	Х	Х	Х
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.			Х
11	Ensure timely follow-up actions to program reviews, fire preparedness reviews, fire and fire aviation safety reviews, fire critiques and post-season reviews.	Х	Х	Х

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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.		Х	Х
 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. 		Х	Х
14. Meet annually with major cooperators and review interagency agreements to ensure their continued effectiveness and efficiency (may be delegated).		Х	Х
 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). 		Х	Х
16. Provide management oversight by personally visiting wildland and prescribed fires each year.			Х
17. Provide incident management objectives, written delegations of authority and Agency Administrator briefings to Incident Management Teams.			Х
18. Monitor wildfire potential and provide oversight during periods of critical fire activity/situations.	Х	X	X
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NPS PROGRAM ORGANIZATION & RESPONSIBILITIES

CHAPTER 03

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

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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.		Х	

2 Fire Management Staff Roles

3

1

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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1

3

2 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.	Х	Х	Х
2.	Ensure completion of a job hazard analysis (JHA) for fire and fire aviation activities so mitigation measures are taken to reduce risk.			Х
3.	Ensure work/rest and length of assignment guidelines are followed during all fire and fire aviation activities. Deviations must be approved and documented.	Х	Х	Х
4.	Ensure that only trained and qualified personnel are assigned to fire and fire aviation duties.	Х	Х	Х
5.	Develop, implement, evaluate and document fire and fire aviation training programs to meet current and anticipated needs.	Х	Х	Х
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.	Х	Х	Х
7.	Develop and maintain an open line of communication with the public and cooperators.	Х	Х	Х
8.	Ensure that the fire and fire aviation management staff understand their role, responsibilities, authority and accountability.	Х	Х	Х

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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	Х	Х
10. Ensure fire and fire aviation policies are understood, followed and coordinated with other agencies as appropriate.	Х	Х	Х
 Recognize when complexity levels exceed program capabilities. Increase managerial and operational resources to meet the need. 	X	Х	Х
12. Initiate, conduct and participate in fire management related reviews and investigations, including converted and prescribed fires.	X	Х	Х
13. Provide for and personally participate in periodic site visits to individual incidents and projects.	X	Х	Х
14. Utilize the incident complexity analysis to ensure the proper level of management is assigned to all incidents.		х	Х
15. Review and evaluate performance of the fire management organization and take appropriate actions.	X	Х	Х
16. Ensure incoming personnel and crews are briefed prior to fire and fire aviation assignments.		Х	Х
17. Ensure an appropriate level response plan is completed and approved for all fires according to policy.		Х	Х

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NPS PROGRAM ORGANIZATION & RESPONSIBILITIES

CHAPTER 03

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.	Х	Х	Х
19. Provide fire personnel with adequate guidance and decision-making authority to ensure timely decisions.		Х	Х
20. Ensure a written/approved burn plan exists for each prescribed fire project.			Х
21. Ensure effective transfer of command of incident management occurs and oversight is in place.	Х	Х	Х
22. Develop and maintain agreements, annual operating plans and contracts on an interagency basis to increase effectiveness and efficiencies.	Х	Х	Х
23. Provide the expertise and skills to fully integrate fire and fire aviation management into interdisciplinary planning efforts.	Х	Х	Х
24. Work with cooperators to identify processes and procedures for providing fire safe communities.	Х	Х	Х
25. Develop, maintain and annually evaluate the FMP to ensure accuracy and validity.		Х	Х
26. Ensure budget requests and allocations reflect analyzed anticipated workload.	Х	Х	Х
27. Develop and maintain current operational plans, e.g., dispatch, pre- attack, prevention.	Х	Х	Х
28. Ensure that reports and records are properly completed and maintained.	Х	Х	Х
29. Ensure fiscal responsibility and accountability in planning and expenditures.	Х	Х	Х

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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.		Х	х
31. Effectively communicate the "natural role" of wildland fire to internal and external agency audiences.	Х	Х	Х
32. Complete trespass actions when unplanned human-caused ignitions occur.		Х	Х
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.	Х	Х	Х

2 Requirements for Fire Management Positions

3

1

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.

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

8

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,

including temporary or administratively determined emergency hires, mustcomplete this training.

20

21 Refer to Chapter 13 of the Interagency Standards for Fire and Fire Aviation

22 Operations for specific requirements.

23

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NPS PROGRAM ORGANIZATION & RESPONSIBILITIES

- All wildland fires will be managed by an individual qualified and certified at the 1
- command level appropriate to the complexity level of the incident. 2
- 3 The qualification standards identified in the Interagency Fire Program 4
- Management Qualifications Standards will be required, in conjunction with 5
- specific agency requirements, when filling vacant fire program positions and as 6
- an aid in developing Individual Development Plans (IDPs) for employees. 7 8

9 Training

10

- **Training for Park Superintendents** 11
- The following training is required for park superintendents. 12
- Fire Management Leadership 13 •
- 14
- The national course is the preferred alternative to the regionally-sponsored 15
- course. The training should be completed within two years of appointment to a 16
- designated management position. 17
- 18

Training for Fire Management Officers 19

- The following training is required for fire management officers. 20
- Refer to the Interagency Fire Program Management (IFPM) Standards and 21 •
- Qualifications required coursework per fire program complexity level. 22
- M-3 Aviation Management for Supervisors (every 3 years). 23 .
- 24 25

NPS Firefighters General Training Requirements

,	The straining Requirements						
		One-Time Training	Recurring Training	Annual Training			
	All Firefighters	Hazardous Materials- First Responder Awareness Level	every 2 years. Defensive	RT-130 Annual Fireline Safety Training			
		Aviation B3:Helicopter/Airplane Safety–classroom	•	EEO, Discrimination & Whistleblowing in the Workplace (on- line)			
			years.	HazMat Refresher (on-line) Blood borne			
				Pathogen (on-line)			

26

- 27
- 28
- 29

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- 1 Structural Fire and Hazardous Materials Response
- 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

2

- 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

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NPS PROGRAM ORGANIZATION & RESPONSIBILITIES

- 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.

13 Delegation of Authority

14

12

- 15 Delegation for Regional Fire Management Officers
- ¹⁶ In order to effectively perform their duties, the RFMO must have certain
- 17 authorities delegated from the Regional Director. The delegation of authority
- 18 should include the following roles and responsibilities:
- 19 Serves as the Regional Director's authorized representative on Geographic
- 20 Area Coordination Groups, including MAC groups.
- 21 Coordinate and establish priorities on uncommitted fire suppression
- 22 resources during periods of shortages.
- 23 Coordinate logistics and suppression operations region-wide.
- Relocate agency pre-suppression/suppression resources within the region
 based on relative fire potential/activity.
- Correct unsafe fire suppression activities.
- 27 Direct accelerated, aggressive initial attack when appropriate.
- 28 Enter into agreements to provide for the management, fiscal and operational
- 29 functions of combined agency operated facilities.
- 30 Suspend prescribed fire activities when warranted.
- 31 Give authorization to hire Emergency Firefighters in accordance with the
- 32 DOI Pay Plan for Emergency Workers.
- Approve emergency fire severity funding expenditures not to exceed the
 Regional annual authority.
- 34 35

36 NPS Duty Officer (DO)

- 37 All Fire Management Officers are responsible to provide DO coverage during
- ³⁸ any period of predicted incident activities. DO's responsibilities may be
- 39 performed by any individual with a signed Delegation of Authority from the 40 local agency administrator. The required duties for all DOs are:
- 41 Monitor unit incident activities for compliance with NPS safety policies.
- 42 Coordinate and set priorities for unit suppression actions and resource
- 43 allocation.
- Keep agency administrators, suppression resources and Information
 Officers informed of the current and expected situation.

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- Plan for and implement actions required for future needs. .
- Document all decisions and actions. 2 .

3

1

DOs will provide operational oversight of these requirements as well as any 4

specific duties assigned by fire managers through the fire operating plan. DOs 5

- will not fill any ICS incident command functions connected to any incident. In 6
- the event that the DO is required to accept an incident assignment, the FMO will 7
- ensure that another authorized DO is in place prior to the departure of the 8
- outgoing DO. 9

10

Capital Equipment Committee 11

12

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

19

Vehicle Color and Marking 20

- Vehicles dedicated to wildland fire activities shall be white in color and have a 21
- single four-inch wide red reflective stripe placed according to NFPA 1906 22
- (NFPA 1906 7-6.2 1995 8.8.3, 2006 edition). The word "FIRE" red with white 23
- background color will be centered on the front fenders. "FIRE" will be placed 24
- on the front and rear of the vehicle. The NPS Arrowhead will be placed on the 25
- front doors. The size and placement of the arrowhead will be as specified in 26
- RM-9. An identifier will be placed on the vehicle according to local zone or 27
- GACC directions. Roof numbers will be placed according to local zone 28 procedures.
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- 45

03-14

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	- /
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 statused 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.

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- 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
- driver will be authorized by one state to operate with lights and sirens in anotherstate.

18

19 Working Capital Fund

20 Most wildland fire vehicles are funded and managed under the Working Capital

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

²⁸ is done through contracting with venders identified on GSA contracts.

29

30 Fire Equipment Development

³¹ The Fire Equipment and Facilities Specialist, located at NIFC, is responsible for ³² ordering, receiving, inspection and distribution of new fire equipment.

33

34 Upgrades and Accessories

- ³⁵ For equipment funded through the WCF, options added by parks that are not
- 36 part of the current agency standard (e.g. supplemental lighting, winches, special
- 37 paint, radios, etc.) are considered add-on items and are not funded with WCF
- ³⁸ funds. The cost of the modifications and optional equipment is the
- 39 responsibility of the regional or local office. It is the responsibility of the Fire
- 40 Equipment and Facilities Specialist to ensure that add-on equipment is safely
- 41 and professionally installed and that it does not compromise the designated
- 42 function, safety, or weight limits of the equipment/vehicle. Park units are not
- 43 permitted to add options to WCF vehicles without prior authorization from the
- 44 Fire Equipment and Facilities Specialist.
- 45

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- 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.

9

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
- 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.

22

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.

29

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 surplused
- 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

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1 Fitness Equipment and Facilities

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 for⁶ equipment purchase:
- 7

2

- 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,
- 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
- required for purchases in excess of that amount.
- Health club costs must be borne by park management for mandatory fitness
 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

03-18

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.

13

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
- uniform is identified at the local level as required for specified fire
- management staff, fire program management funds may be used to support uniform purchases in accordance with allowance limits identified in DO-43.
- 30 While Nomex outerwear (i.e., shirts, trousers, brush-coats), routinely issued
- as personal protective equipment, has become recognized as the uniform of
- the wildland firefighter as a matter of necessity, these apparel also have
- justifiable utility as a uniform standard at the park level for certain fire
- 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
- 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:

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- 1 Consult with local biologists, resource advisors (READ) and fire personnel
- for known aquatic invasive species locations in the area and avoid them
 when possible.
- Avoid entering (driving through) water bodies or saturated areas whenever
 possible.
- Avoid transferring water between drainages or between unconnected waters
 within the same drainage when possible.
- Use the smallest screen possible that does not negatively impact operations
 and avoid sucking organic and bottom substrate material into water intakes
- 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.

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Chapter 04

U.S. Fish & Wildlife Service Program Organization & Responsibilities

4 Introduction

5 6

1

23

- This document states, references, or supplements policy for the U.S. Fish and
- 7 Wildlife Service Wildland Fire Management Program. The standards provided
- 8 in this document are based on current U.S. Department of the Interior and
- 9 Bureau policy, and are intended to provide fire program guidance. The intent is
- 10 to ensure safe, consistent, efficient, and effective fire and aviation operations.
- 11 This document will be reviewed and updated annually.

13 Agency Administrator Roles

14

12

15 Director

- ¹⁶ The Director of the Fish and Wildlife Service has overall responsibility for the
- 17 service wildland fire management program. The Director will ensure that all
- 18 regional fire management activities are formally evaluated.

19

20 Chief, National Wildlife Refuge System

- 21 The National Wildlife Refuge System under the Chief provides leadership for
- 22 the wildland fire management program. The National Wildlife Refuge System
- 23 also formally evaluates all regional fire activities at least every five years. The
- 24 Assistant Director is authorized to promulgate and approve the Fire
- 25 *Management Handbook* and other fire related handbooks as needed to provide 26 guidance.

27

28 Regional Director

- ²⁹ The Regional Director is responsible to the Director for fire management
- 30 programs and activities within their region. The Regional Director will meet the
- 31 required elements outlined in the Management Performance Requirements for
- 32 Fire Operations and ensure training is completed to support delegations to line
- 33 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
- 42 district, and/or county.
- 43 Ensures that emergency stabilization and burned area rehabilitation plans
- with estimated costs< \$500,000 are consistent with Department and Service
 policy and guidelines.

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- 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
 - experts.
- 4 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
- 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
- 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.

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- . Developing and implementing emergency stabilization and burned area 1
- rehabilitation plans. 2
- Integrating the role and use of fire by establishing fire management direction 3 • to meet resource objectives in Comprehensive Conservation Plans (CCP) and 4
- Fire Management Plans (FMP). 5
- Ensuring that the prescribed fire burn plans and the personnel implementing 6 . them meet Interagency, Service wide and Regional requirements. 7
- Reporting all wildfires resulting from prescribed fire actions to the Regional 8 . Director within 24 hours of the wildfire declaration.
- Conducting reviews of all prescribed fires that are converted to wildfire 10 ٠ 11 status.
- Reporting the review results to the Regional Director within 60 days after the 12 • prescribed fire was declared a wildfire. 13
- Ensuring that fire management personnel are trained in the After Action 14 •
- Review (AAR) process and that they routinely complete AARs after fire 15 operations. 16

17

9

- For further guidance and performance criteria for the Project Leader/Refuge 18
- Manager, Agency Administrator checklists are available for use at: 19
- http://sharepoint.fws.net/Programs/nifc/operations/default.aspx 20
- 21

Management Performance Requirements for Fire Operations 22

	PERFORMANCE REQUIRED	FWS Director	Regional Director		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.	Х	Х	Х	Х
2.	Develops wildland fire standards that are compliant with agency fire policies.	X	Х	Х	Х
3.	Ensures use of fire funds is in compliance with department and agency policies.	Х	Х	Х	Х

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	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.	Х	Х	Х	Х
5.	Attends the <i>Fire Management</i> <i>Leadership Course</i> . Ensures that personnel delegated fire program responsibilities have completed the <i>Fire Management Leadership</i> <i>Course</i> .			Х	Х
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.		Х	Х	х
7.	Ensures that only trained, certified fire and non-fire personnel are available to support fire operations at the local and national level.	Х	Х	Х	х
8.	Ensures that master agreements with cooperators are valid and in compliance with agency policy, and that attached Annual Operating Plans are current.	Х	Х	Х	Х
9.	Personally visits at least one wildland and one prescribed fire each year.				Х

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PERFORMANCE REQUIRED		Regional Director	Regional Chief / Refuge Supervisor	Project Leader / Refuge Manager
10. Annually convenes and participates in pre-and post season fire meetings.			Х	Х
11. Reviews critical operations and safety policies and procedures with fire and fire aviation personnel.		Х	Х	Х
12. Ensures that fire and fire aviation preparedness reviews are conducted annually in all unit offices. Personally participates in at least one review annually.	Х	Х	Х	Х
13. Ensures that investigations are conducted for incidents with potential, entrapments, and serious accidents as per agency policy.	Х	Х	Х	х
14. Ensures timely follow-up to fire management program reviews.	X	X	Х	Х
 15. Provides a written delegation of authority, Wildland Fire Decision Support System (<u>WFDSS</u>) analysis, and an Agency Administrator Briefing to Incident Management Teams. 				Х
16. Ensures that resource advisors are identified, trained and available for incident assignment. Refer to <i>Resource Advisors Guide for</i> <i>Wildland Fire</i> PMS 313, NFES 1813, Jan 2004.				Х
17. Attends post fire closeout on Type 1 and Type 2 fires. (Attendance may be delegated.)			Х	
 Ensures that all wildfire management decisions are documented through the WFDSS process. 		Х	Х	Х

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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 FWS <i>Fire</i> <i>Trespass Handbook</i> .		Х	Х	Х
20. Ensures compliance with National and Regional Office policy for prescribed fire activities. Provides periodic reviews of the prescribed fire program.	Х	Х	Х	Х
21. Ensures that Prescribed Fire Plans are approved and meet agency policies.		Х	Х	Х
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.				Х
23. Ensures that a policy has been established for review and signing of the go-no/go checklist.				Х
24. Ensures Unit Safety Program is in place, has a current plan, has an active safety committee, and includes the fire program.	Х	Х	Х	Х
25. Annually updates and reviews the Agency Administrator's Guide to Critical Incident Management	Х	Х	Х	Х

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PERFORMANCE REQUIRED	FWS Director	Regional Director		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).				Х
 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 			Х	Х

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

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- 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 **R**

Refuge 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.
- Ensuring that the RXBP and the personnel implementing them meet Service
 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
- plans for approval by project leaders and regional fire and refuge staff (as
 determined by the region)
- 32 Responsible for the coordination of RAWS maintenance, up keep, sensor
- calibration, over sight of daily inputs in order to maintain a weather network
- which is used by many cooperating agencies, and the development of theRAWS operating plan.
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1	Fire Management Staff Performance Req	quirements for Fire Operations
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	PERFORMANCE REQUIRED	SFMC	RFMC	Zone/ District FMO
1.	Establishes and manages a safe, effective, and efficient fire program.	Х	Х	Х
2. 20	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. (Federal Wildland Fire Management Plan 01)	х	Х	Х
3.	Provides the expertise and skills to fully integrate fire and fire aviation management into interdisciplinary planning efforts. (When requested)	Х	Х	Х
4.	Ensures that only trained and qualified personnel are assigned to fire and fire aviation duties.	Х	Х	Х
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.		Х	Х
6.	Ensures compliance with work/rest guidelines during all fire and fire aviation activities.	Х	Х	Х
7.	Ensures that the fire and fire aviation management employees understand their role, responsibilities, authority, and accountability.	Х	Х	Х
8.	Organizes trains, equips, and directs a qualified work force. Establishes and implements performance review process.	Х	Х	Х
9.	Develops implements, evaluates, and documents fire and fire aviation training to meet current and anticipated needs.	Х	Х	Х
10.	Ensures fire and fire aviation policies are understood, implemented, and coordinated with other agencies as appropriate.	Х	Х	Х

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

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

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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).		Х	Х
33. Uses current National and Local Mobilization Guides and ensures that national, geographic and local mobilization standards are followed.	Х	Х	Х
34. Complies with established property control/management procedures.	Х	Х	Х

2 National Fire Leadership Team

1 2 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:
- Provide leadership, coordination, and guidance for the Service's fire
 management program.
- Identify potential fire management issues, and recommend strategies that will
 enhance the Service's ability to safely and effectively manage fire on Service
 lands.
- Develop and recommend common guidance and business rules as needed to
 manage fire management activities while recognizing individual regional
 needs.
- Provide a forum for the exchange of ideas, best management practices, and
 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
- collaboration and coordination within FWS and with our interagencypartners.
- Form task groups, working teams, or other collections of subject matter
- 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

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- 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

1

5 Delegation of Authority

6

7 Regional Fire Management Coordinator

- 8 In order to effectively perform their duties, a RFMC must have certain
- 9 authorities delegated from the Regional Director. This delegation is normally
- ¹⁰ placed in the regional office supplement to agency manuals. This delegation of
- 11 authority should include:
- 12 Serve as the Regional Director's authorized representative on geographic
- 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.
- Relocate agency pre-suppression/suppression resources within the region
 based on relative fire potential/activity.
- 19 Correct unsafe fire suppression activities.
- 20 Direct accelerated, aggressive initial attack when appropriate.
- 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.
- Give authorization to hire Emergency Firefighters in accordance with the
 DOI Pay Plan for Emergency Workers.
- Approve emergency fire severity funding expenditures not to exceed the
 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.

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

4

1

- **Fire Severity Funding**
- 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

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1 furnished to the RFMC's. Include weekend fire activity on Monday's report

2 unless there is significant fire activity.

3

5

4 Individual Fire Report

- 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
- fire exceeds prescription criteria, treat it as an unwanted wildfire, and file a separate report covering those acres by the unwanted wildland fire.
- 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

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

31

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

37

- 38 Fish and Wildlife Service Specific Qualifications
- ³⁹ Guidance regarding agency-specific qualifications (including ENOP, RXB3,
- 40 Faller ABC, RXCM, DZOP and TPOP) can be found at
- 41 http://sharepoint.fws.net/Programs/nifc/training/Shared%20Documents/

42

04-16

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

Introduction 5

6

1

2

3 4

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

Foundational Doctrine 15

16

The following collection of principles and beliefs form the foundational doctrine 17 for fire suppression in the U.S. Forest Service. These principles and beliefs 18

operate at multiple organizational levels, including: 19

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

24

The Operational Environment 25

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

32

- Mission 33
- Forest Service Wide • 34
- 2. The Forest Service is prepared and organized to support national and 35
- international emergencies with trained personnel and other assets when 36
- requested. 37

38

- 39 3. Agency employees respond when they come across situations where human
- life is immediately at risk or there is a clear emergency, and they are capable of 40
- assisting without undue risk to themselves or others. 41
- 42
- 4. In responding to emergencies, we will bring the same professionalism and
- 43 passion for safety as we do to non-emergency situations. 44
- 45

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

5 6

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

10

- Fire & Aviation Management 11 •
- 7. Fire management is central to meeting the Forest Service mission 12
- conserving natural resources, restoring ecological health, and protecting 13
- communities. 14

15

Fire Suppression 16 ٠

8. Successful fire suppression is essential to support the Forest Service mission. 17 18

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

21

Leadership and Accountability 22

Forest Service Wide 23 •

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

accountability. 25

26

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

29

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

32

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

37

Fire Suppression 38 •

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

41

42 **Roles and Relationships**

- Forest Service Wide • 43
- 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.

05-2

Fire & Aviation Management • 1

16. Line officers with fire management responsibilities will have knowledge and 2 3

understanding of fire program management.

17. Contracted resources will meet identified standards for qualifications, 5

training, productivity, and efficiency necessary to meet emergency response 6 needs. 7

8

4

- 18. It is the Forest Service responsibility to initiate and participate in public 9
- education efforts to promote support for necessary fire management activities. 10

11

- Fire Suppression 12 ٠
- 19. Every Forest Service employee has a responsibility to support fire 13
- suppression emergencies in a manner that meets identified needs, and is within 14
- their qualifications and capabilities. 15

16

Operations 17

- Forest Service Wide 18 •
- 20. Employees are expected and empowered to be creative and decisive, to 19
- exercise initiative and accept responsibility, and to use their training, experience, 20
- and judgment in decision-making to carry out their leader's intent. 21

22

- 21. Employees are expected and empowered to make reasonable and prudent 23
- decisions to accomplish the agency mission while minimizing exposure to 24
- hazards. 25

26

22. Clear, uncomplicated plans and concise orders maximize effectiveness and 27 minimize confusion. 28

29

- Fire Suppression • 30
- 23. When it is time to fight fire, we do so in a manner that maximizes 31
- effectiveness of effort, has highest regard for firefighter and public safety, and 32
- controls costs. 33

34

24. Every fire suppression operation is directed toward clearly-defined, decisive, 35 and obtainable objectives. 36

37

- 25. Command and control must be decentralized to cope with the unpredictable 38
- nature of fire. To achieve their leader's intent and accomplish operational 39
- objectives, subordinate commanders are required to make decisions on their own 40
- initiative, and to coordinate their efforts. 41

42

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

44

45

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- 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 **F**

2 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

- Attend a regional or national Fire Management Leadership for Agency
 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 05-4

1 Line Officer Certification Program

2 The following principles will guide certification of agency administrators in fire3 management:

- 4 Regional Foresters are accountable for certification of line officers
- 5 Line officer evaluation includes standards for training, background and
- experience, and demonstrated ability, which will result in a qualitativeevaluation of readiness by the Regional Forester
- When the complexity level of a fire exceeds a line officer's certification, a
 coach will be assigned to advise (but not replace)
- This certification program will be periodically evaluated and updated as
 needed
- Decision Support Groups may be requested and would be assigned as fire
- 13 costs approach certain thresholds
- The Coaching/Shadowing program, to be administered by each region, is an
 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
- assign a line officer, the Regional Forester should consider the followingguidelines:
- 30 For individuals that do not meet at least the Working Level, a coach will be
- assigned to support that line officer in managing Type 3 or higher wildfire
 incidents.

33

- Working Level The line officer could manage a low to moderate complexityfire. The line officer should meet the following:
- Training: Fire Management Leadership or National Fire Management for
 Line Officers, and WFDSS Certification (*FSM 5130*)
- Background and Experience: Successful management of a minimum of
 one Type 3 or higher fire, or one successful higher complexity fire (Type 2
- one Type 3 or higher fire, or one successful higher complexity fire (Type 2
 or higher) quality shadow assignment (consider complexity and size of the
- fires). Management oversight of a low-complexity fire program and/or
- 41 intes). Management oversight of a low-complexity me program and/ 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.

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	CHAPTE	ER 05 USFS PROGRAM ORGANIZATION & RESPONSIBILITIES					
1							
2		edback from ICs or ACs) that the candidate has demonstrated					
3		derstanding and application of the responsibilities of an agency					
4		ministrator on smaller low-complexity fires with a basic understanding of					
5	the elements of the core competencies.						
6							
7		ey 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		aining: Fire Management Leadership or National Fire Management for ne Officers, and WFDSS Certification <i>(FSM 5130)</i> .					
11							
12	• Ba	ckground and Experience: Successful management of a minimum of one Type 2 or higher fire, or					
13		one successful higher complexity fire (Type I) quality shadow					
14 15		assignment, depending on fire experience (complexity and size of the					
15		fires should be considered).					
10	\triangleright	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	\triangleright	Applicable experience in all hazard or other incident oversight may					
21		also be considered in lieu of other guidelines.					
22	• De	monstrated Ability: Successful evaluation by a coach (including					
23		feedback from ICs or ACs) that the candidate has demonstrated					
24		derstanding and application of the responsibilities of an agency					
25		ministrator on moderate to large complex fires in the core competencies,					
26		d other elements that may be relevant.					
27							
28		ced Level - The line officer could manage a high complexity fire. The					
29		icer needs to be certified at the Journey Level and should meet the					
30	followi	•					
31		aining: Fire Management Leadership or National Fire Management for					
32		ne Officers, and WFDSS Certification (FSM 5130).					
33	• Ba	ckground and Experience:					
34	\succ	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	D	also be considered in lieu of other guidelines.					
40		monstrated 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		ministrator on large complex fires in the core competencies, and other ments that may be relevant.					
44	ele	ments that may be relevant.					
45 46							
40	05-6	Release Date: January 2011					
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- 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.
- 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.
- 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
- Assist in 420 simulation as a line officer
- 22 WFDSS training
- Include risk management and fire management topics to annual line officer
 meetings
- Attend staff rides (staff rides need to include a stand that portrays the line
 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
- 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.

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	CHAPTER 05 USFS PROGRAM ORGANIZATION & RESPONSIBILITIES
1 2 3	• Implement fire management strategies and integrate natural resource concerns into collaborative community protection and ecosystem restoration strategies on the unit.
4 5	 Manage a budget that includes fire preparedness, prevention, suppression, and hazardous fuels in an annual program of work for the unit. Perform duties of agency administrator and maintain those qualifications.
6 7 8 9	 Perform duties of agency administrator and maintain those qualifications. Provide a fully staffed, highly qualified, and diverse workforce in a "safety first" environment.
10 11 12 13	These standards are based on current policy and provide program guidance to ensure safe, consistent, efficient, and effective fire and aviation operations. This document will be reviewed and updated annually.
14 15	Specific Agency Administrator Performance Standards for Fire and Aviation at the Field Level
16 17	Preparedness
18 19	 Take all necessary and prudent actions to ensure firefighter and public 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.Ensure accurate position descriptions are developed and reflect the
23 24 25	• Ensure accurate position descriptions are developed and reflect the complexity of the unit. Individual Development Plans promote and enhance 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- Agency Coordinating (MAC) Group authority, as appropriate.
28 29	 Identify resource management objectives to maintain a current Fire
30 31	Management Plan (FMP) that identifies an accurate level of funding for personnel and equipment.
32 33	 Develop preparedness standards that are in compliance with agency fire policies.
34 35	 Management teams meet once a year to review fire and aviation policies, roles, responsibilities, and delegations of authority. Specifically address
35 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. Meet annually with cooperators and review interagency agreements to
40 41	• Meet annually with cooperators and review interagency agreements to ensure their continued effectiveness and efficiency.
42	 Convene and participate in annual conferences and fire reviews.
43 44	• Agency administrators, Fire Program Managers, and/or Safety and Health Program Managers shall conduct after action reviews on all Type 3 fires

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USFS PROGRAM ORGANIZATION & RESPONSIBILITIES

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

Suppression 4

1

2 3

5

- Ensure use of fire funds is in compliance with Agency policies.
- The WFDSS will be used and approved on all fires that escape initial attack. . 6
- WFDSS analysis that are expected to exceed \$10 million in suppression 7 • costs are forwarded to the Regional Office for review and approval. 8
- Personally attend reviews on Type 1 and Type 2 fires. 9 .
- Provide incident management objectives, written delegations of authority, 10 .
- and a complete agency administrator briefing to Incident Management 11
- Teams. 12
- Evaluate the need for resource advisors for all fires, and assign as 13 . appropriate. 14
- For all unplanned human-caused fires where responsibility can be 15 . determined, ensure actions are initiated to recover cost of suppression 16 17
 - activities, land rehabilitation, damages to the resource, and improvements.
- Ensure structure exposure protection principles are followed. • 18
- 19

35

36

37

Responsibilities and Oversight 20

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

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	CHAPTER 05	USFS PROGRAM ORGANIZATION & RESPONSIBILITIES				
1	Critical	long duration wildfire oversight roles include ensuring that:				
2	\triangleright	Up-to-date decision analyses are completed and documented in				
3		Wildland Fire Decision Support System (WFDSS).				
4	\triangleright	Hazards are identified and risk assessments are incorporated into				
5		decisions.				
6	\triangleright	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	- 11	expectations.				
11		This oversight role should address concerns of the states, cooperators, and				
12	the publ	ic including air quality impacts from multiple wildfires.				
13 14	Safety					
14		safety policies, procedures, and concerns with field fire and				
15		personnel.				
17		imely follow-up actions to program reviews, fire preparedness				
18		reviews, fire and aviation safety reviews, and management reviews.				
19		the fire situation and provide oversight during periods of critical				
20		vity and situations of high risk.				
21		here is adequate direction in fire management plans to maintain fire				
22		danger awareness.				
23						
24						
25		for incidents, entrapments, and serious accidents.				
26						
27	Prescribed 1	Fire				
28	• Ensure a	an approved burn plan is followed for each prescribed fire project,				
29		g follow-up monitoring and documentation to ensure management				
30	•	es are met.				
31		management oversight by personally visiting wildland and				
32		ed fire activities each year.				
33		compliance with National and Regional Office policy and direction				
34		cribed fire activities and ensure that periodic reviews and				
35		inspections of the prescribed fire program are completed.				
36		e Prescribed Fire Plans. Authority may be delegated to the Line				
37		as provided under specific directions.				
38		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 who was not involved in the plan preparation.					
41 42	who was	s not involved in the plan preparation.				
42 43	Fire Manag	ement Positions				
43 44		g standards show the minimum operational experience				
-++		is sumanas show the minimum operational experience				

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

05-10

USFS PROGRAM ORGANIZATION & RESPONSIBILITIES

- 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

8

Specific Fire Management Staff Performance Standards for Fire

7 Operations at the Field Level

9 Preparedness

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

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CHAPTER 05

2

3

5 6

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

7 Suppression

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

26 Safety

25

- Ensure work/rest and R&R guidelines are followed during all fire and
 aviation activities. Deviations are approved and documented.
- Initiate, conduct, and/or participate in fire management related reviews and
 investigations.
- 31 Monitor fire season severity predictions, fire behavior, and fire activity
- levels. Take appropriate actions to ensure safe, efficient, and effectiveoperations.
- 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.
- Provide the expertise and skills to fully integrate fire and aviation
 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

05-12

Structure Exposure Protection Principles

1 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
- weigh the risk versus gain, and operate within the intent of Agency policy anddoctrine.
- 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
- the concept that property owners have primary responsibility for reducing
- 27 wildfire risks to their lands and assets.
- The Forest Service will actively work toward applying Firewise concepts to
 all Forest Service owned structures, facilities, and permitted use to serve as
 a model to publics and communities.
- 31 The Forest Service will apply strategy and tactics to keep wildland fires
- from reaching structures, as prudent to do so, considering risk management
- 33 for firefighters and publics, fire behavior, values at risk including natural
- resources, availability of firefighting resources, and jurisdictional
- 35 authorities.
- The Forest Service will be proactive in developing agreements with
 interagency partners to clarify its structure protection policy.
- The Forest Service structure protection role is based on the assumption that
- ³⁹ other Departments and agencies will fulfill their primary roles and
- responsibilities. The Forest Service will not usurp individual, local, or state
 responsibility for structure protection.
- 42 Prior to task implementation, a specific structure protection role briefing
- 43 will be accomplished.
- 44
- 45

46

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CHAPTER 05

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

jurisdictional responsibility for the fire. This would include the use of watertenders, portable pumps, hose, tanks, and supporting draft sites.

To assist or supply foam or chemical suppressant capability with engines or
 aerial application.

42 • To assist local authorities in the event of evacuations.

To assist local authorities by assessing (triaging) structures for defensibility
 from wildfire.

To coordinate with local authorities on actions taken by Private Structure
 Protection Companies.

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USFS PROGRAM ORGANIZATION & RESPONSIBILITIES

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

- "Wrap" or set up and administer sprinklers around privately owned
 structures
- 4 Remove fuels immediately surrounding a structure such as brush,
- landscaping or firewood.

5 6

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

12

- 13 The Forest Service shall not:
- 14 Take direct suppression actions on structures other than those that tactically
- reduce the threat of fire spread to them.
- Enter structures or work on roofs of structures for the purpose of direct
 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:
- The first priority for all risk-decisions is human survival, both of firefighters
 and the public.
- Incident containment strategies specifically address and integrate protection
 of defendable improved property and wildland values.
- Direct protection of improved property is undertaken when it is safe to do
 so, when there are sufficient time and appropriate resources available, and
- when the action directly contributes to achieving overall incident objectives.
- Firefighter decision to accept direction to engage in structure protection
- actions is based on the determination that the property is defendable and the
 risk to firefighters can be safely mitigated under the current or potential fire
 conditions.
- A decision to delay or withdraw from structure protection operations is the appropriate course of action when made in consideration of firefighter
- safety, current or potential fire behavior, or defensibility of the structure or
 groups of structures.
- Firefighters at all levels are responsible to make risk-decisions appropriate
 to their individual knowledge, experience, training, and situational
- 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
- of their own knowledge, skills, and abilities, the presence of life threat or
- structures, fire behavior, availability of resources, social / political
- pressures, mission focus, and personal distractions such as home, work,
 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
- these limitations, and to apply experience, training and personal judgment
- 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
- information with supervisors, subordinates, and peers. Clear and concise
- 35 communication is essential to overcome limitations in situational
- 36 awareness.

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	RESERVED		CHAPTER 6
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22		This chapter is reserved.	

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Chapter 07 1 Safety and Risk Management 2 3 Introduction 4 5 The primary means by which we prevent accidents in wildland fire operations is 6 through aggressive risk management. Our safety philosophy acknowledges that 7 while the ideal level of risk may be zero, a hazard free work environment is not 8 a reasonable or achievable goal in fire operations. Through organized, 9 comprehensive, and systematic risk management, we will determine the 10 acceptable level of risk that allows us to provide for safety yet still achieve fire 11 operations objectives. Risk management is intended to minimize the number of 12 injuries or fatalities experienced by wildland firefighters. 13 14 Policy 15 16 Firefighter and public safety is our first priority. All Fire Management Plans 17 and activities must reflect this commitment. The commitment to and 18 accountability for safety is a joint responsibility of all firefighters, managers, 19 and administrators. Every supervisor, employee, and volunteer is responsible 20 for following safe work practices and procedures, as well as identifying and 21 reporting unsafe conditions. 22 23 Agency Specific Safety Policy Documents: 24 BLM - BLM Handbook 1112-1, 1112-2 25 . FWS - Service Manual 241 FW7, Firefighting . 26 NPS - DO-50 and RM-50 Loss Control Management Guideline 27 • 28 . FS - FSH-6709.11 Health and Safety Code Handbook 29 **Guiding Principles** 30 31 The primary means by which we implement command decisions and maintain 32 unity of action is through the use of common principles of operations. These 33 principles guide our fundamental wildland fire management practices, 34 behaviors, and customs, and are mutually understood at every level of 35 command. They include Risk Management, Standard Firefighting Orders and 36 Watch Out Situations, LCES and the Downhill Line Construction Checklist. 37 These principles are fundamental to how we perform fire operations, and are 38 intended to improve decision making and firefighter safety. They are not 39 absolute rules. They require judgment in application. 40 41 42 Goal 43

- 44 The goal of the fire safety program is to provide direction and guidance for safe
- 45 and effective management in all activities. Safety is the responsibility of

 ⁴⁶ everyone assigned to wildland fire, and must be practiced at all operational Release Date: January 2011 07-1

- 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).

11

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.

Risk: The likelihood or possibility of hazardous consequences in terms ofseverity 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.

22

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 management28 by:
- Establishing situation awareness.
- 30 Identifying hazards and assessing the risk.
- 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.

07-2

35

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

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

Work/Rest 10

11

9

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

15

- The authority to grant a day off with pay lies within 5 U.S.C. 6104, 5 CFR 16
- 610.301-306, and 56 Comp. Gen. Decision 393 (1977). 17
- Plan for and ensure that all personnel are provided a minimum 2:1 work to 18 rest ratio (for every 2 hours of work or travel, provide 1 hour of sleep and/or 19 rest). 20
- Work shifts that exceed 16 hours and/or consecutive days that do not meet 21 .
- the 2:1 work/rest ratio should be the exception, and no work shift should 22
- exceed 24 hours. However, in situations where this does occur (for 23
- example, initial attack), incident management personnel will resume 2:1 24
- work/rest ratio as quickly as possible. 25
- The incident commander or agency administrator must justify work shifts 26 .
- that exceed 16 hours and those that do not meet 2:1 work to rest ratio. 27
- Justification will be documented in the daily incident records. 28
- Documentation shall include mitigation measures used to reduce fatigue. 29
- The Time Officer's/Unit Leader's approval of the Emergency Firefighter 30 •
- Time Report (OF-288), or other agency pay document, certifies that the 31
- required documentation is on file and no further documentation is required 32
- for pay purposes. 33

34

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

38

Length of Assignment 39

40

Assignment Definition 41

- An assignment is defined as the time period (days) between the first full 42
- operational period at the first incident or reporting location on the original 43
- resource order and commencement of return travel to the home unit. 44
- 45

46

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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.

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

6

- 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 \succ A military battalion is assigned.
 - Replacement resources are unavailable, or have not yet arrived.

40 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

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- 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.

7

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.

21

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).

26

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
- in any 21-day period.

33 Driving Standard

34

32

- 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.

39

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.

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2

3

- All drivers whose job duties require the use of a motor vehicle will receive
- initial defensive driver training within three months of entering on duty and refresher driver training every three years thereafter.
- The operator and all passengers are required to wear seat belts and obey all
 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
- 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
- vehicle on official business, they are subject to disciplinary action asdetermined 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*
- vehicles, or privately-owned vehicles on official business. Individual office
 forms equivalent to the OF-345 and DI-131 are acceptable.
- FS Policy requires all operators of government owned, or leased vehicles
 to have a Forest Service issued Operator's Identification Card (OF-346)
- indicating the type of vehicles or equipment the holder is authorized and
 qualified to operate.
- 31 **BLM/FWS/NPS** The DOI has granted wildland fire agencies a waiver to
- allow employees between the ages of 18 and 21 to operate agency
- commercial fire vehicles using a state issued CDL under the specific
 conditions as stated below:
- Drivers with a CDL may only drive within the state that has issued the
 CDL and must comply with the state's special requirements and
 endorsements.
 These drivers must only drive vehicles that are equipped with visible
- These drivers must only drive vehicles that are equipped with visible
 and audible signals, and are easily recognized as fire fighting
 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.*
- Supervisors must annually establish and document that these drivers
 have a valid license (i.e. that the license has not been suspended,
 revoked, canceled, or that the employee has not been otherwise
 - 07-6

- 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
 - validate the employee's driving record (485 DM 16.3.B(4)).
- 4 5

1

6 Non-Incident Operations Driving

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

8

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.
- 13

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
- response will adhere to the current agency work/rest policy for determining
 length of duty day.
- No driver will drive more than 10 hours (behind the wheel) within any duty day.
- Multiple drivers in a single vehicle may drive up to the duty-day limitation
 provided no driver exceeds the individual driving (behind the wheel) time
 limitation of 10 hours.
- A driver shall drive only if they have had at least 8 consecutive hours off
 duty before beginning a shift. Exception to the minimum off-duty hour
 requirement is allowed when essential to:
 - Accomplish immediate and critical suppression objectives.
 - 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
- exceed 16 hour work shifts. This is required regardless of whether the
- driver was still compliant with the 10 hour individual (behind the wheel)driving time limitations.
- 37 FWS/NPS Program funds are authorized to pay for the cost of CDL
- *licensing fees and exams, necessary for employees to operate fire*
- *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.*
- 42

30

31

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 Release Date: January 2011 07-7

- 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

4

- 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.

11

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
- *funding (as determined by each region), toward the purchase of approved*
- 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
- *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
- must be available to perform those duties when assigned; if not routin
 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
- maintenance accounts, may also be used for purchase or to augment fire
- *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
- *repair.* Boots will be considered similar to uniform items and will not be
- subject to cache item return, due to health, sanitation, and individual sizing
 considerations.
- 41

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
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- 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

12

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

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
- Leather or leather/flame resistant combination gloves. Flight gloves are not
 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),
- 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

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- 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
- *NWCG National Fire Equipment System Catalog: Part 1, Fire Supplies and 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
- Wildland fire chemical mixing personnel
- 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.
- 45

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- Hearing Protection
- 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.
- 7 Pump operators.
- 8 Helibase and aircraft ramp personnel.
- 9 Wildland fire chemical mixing personnel.

10 • 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.
 13

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.

20

12

6

21 Neck Protection

22 Face and neck shrouds are not required PPE. The use of shrouds is not required

23 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

25 Standard on Protective Clothing and Equipment for Wildland Fire Fighting.
 26

27 Shrouds should be positioned in a manner that allows for immediate use. For

- 28 additional information see MTDC Tech Tip Improved Face and Neck Shroud
- 29 for Wildland Firefighters, 2004 (0451-2323-MTDC).

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

31

32 Leg Protection

- 33 All chainsaw operators will wear chainsaw chaps meeting the United States
- ³⁴ Forest Service Specification 6170-4F or 4G. All previous Forest Service
- 35 specification chainsaw chaps must be removed from service. Chainsaw chaps
- 36 shall be maintained in accordance with MTDC Publication, Inspecting and
- 37 Repairing Your Chainsaw Chaps User Instructions (0567-2816-MTDC)
- 38 http://www.fs.fed.us/t-d/pubs/htmlpubs/htm05672816/page01.htm

39

40 **Respiratory Protection**

- 41 Personal protective equipment, including respiratory protection, should only be
- 42 implemented once engineering and administrative controls are exhausted. The
- ⁴³ need for respiratory protection during wildland fire operations must be
- 44 determined by each agency. The requirements for respirator use are found in 29
- 45 CFR Part 1910.134.

46

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- 1 Only NIOSH-approved respirators shall be used. Several respiratory-type
- products are marketed to wildland firefighters but are not NIOSH-approved (e.g. 2 shrouds with filtration devices). 3
- FS FSM 5135.3 Self-Contained Breathing Apparatus Wildland . 4
- firefighters may use only SCBA which are compliant with NFPA 1981, 5
- Standard on Open-Circuit Self-Contained Breathing Apparatus (SCBA) for 6
- Emergency Services. SCBA may only be used when contaminants from 7
- vehicle, dump, structure, or other non-wildland fuel fire cannot be avoided 8
- while meeting wildland fire suppression objectives (29 CFR 1910.134, 9
- Respiratory Protection). If such an apparatus is not available, avoid 10
- exposure to smoke from these sources. The acquisition, training, proper 11
- use, employee health surveillance programs, inspection, storage, and 12
- maintenance of respiratory protection equipment must comply with 13
- applicable National Fire Protection Association standards and 29 CFR 14
- 1910.134, and be justified by a Job Hazard Analysis. Where the acquisition 15
- and use of an SCBA is approved, it may be carried only on a fire engine and 16
- its use must be consistent with FSM 5130. 17
- 18

Specialized or Non Standard Personal Protective Equipment (PPE) 19

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

- A JHA/Risk Assessment must be completed and reviewed by the Unit Safety 23
- Officer and the supervisor's approval is required. Items must meet agency and 24
- industry standards for specific intended use. Cold weather flame resistant outer 25
- wear shall be in compliance with NFPA 1977, Standard on Protective Clothing 26
- and Equipment for Wildland Fire Fighting. All cold weather inner wear should 27
- be composed of 100% or the highest possible content of natural fibers (cotton, 28
- wool or silk) or other flame resistant material such as aramid. 29
- 30

High Visibility Vests 31

- In order to meet 23 CFR 655, high visibility apparel should be worn whenever a 32
- firefighter is working on or in the right of way of a public roadway. 33
- The high visibility safety apparel should not be worn if: 34
- There is a reasonable chance that the employee may be exposed to flames, 35 high heat or hazardous materials. 36
- The high visibility garment hinders an employee's ability to do their job 37 .
- because it prevents necessary motion or because it limits access to 38
- necessary equipment such as radios or fire shelters. 39
- 40
- Employees must wear high visibility safety apparel that meets ANSI/ISEA 107-41
- 2004, Class 2 or 3, or ANSI/ISEA 207-2006. 42
- 43
- Apparel, including vests, that meets ANSI/ISEA 107-2004 and ANSI/ISEA 207-44
- 2006 currently does not meet the flame resistance requirements of the NFPA 45
- Standard on Protective Clothing and Equipment for Wildland Fire Fighting. 46 07-12 Release Date: January 2011

1 Fireline Safety

2

5

3 Incident Briefings

4 Fire managers must ensure that safety briefings are occurring throughout the fire

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:
- A fire escapes initial attack or when extended attack is probable.
- 25 There is complex or critical fire behavior.
- There is a complex air operation.
- 27 The fire is in an urban intermix/interface.
- 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

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- 1 Transportation for all personnel
- 2 Accountability for all personnel
- Those individuals not meeting 310-1 qualifications will be considered
 escorted visitors as addressed elsewhere in this chapter.
- escorted visitors as addressed elsewhere in this ch
 FS - Plans at a minimum shall also include:
- **FS FS** Plans, at a minimum shall also include:
- 6 *ICP protection strategy referenced in the IAP.*
 - Live-ability considerations including air quality, functionality of location and facilities, and safety factors for post burn conditions.
- 10 Emergency Medical Planning and Services
- 11

7 8

9

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-
- 18 025-2010.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.
- 21

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.

27

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

37

- 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_
- 42 medical_units.pdf

43

- 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

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- 1 first aid/CPR) may do so; however, certification and credentialing must follow
- 2 respective state laws and protocols.
- 3 4

Standard Safety Flagging

6 The NWCG recommends the following Safety Zone/Escape Route flagging for7 wildland fire activities:

- 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).
- 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
- 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.
- Contact appropriate personnel. Generally, this is the Hazardous Materials
 Coordinator for the local office.
- Firefighters need to immediately report H₂S or potential exposure and seek
 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.

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- The following general safety rules shall be observed when working with 1
- chemicals: 2
- Read and understand the Material Safety Data Sheets. 3 •
- Keep the work area clean and orderly. . 4
- Use the necessary safety equipment. . 5
- Label every container with the identity of its contents and appropriate 6 . hazard warnings. 7
- Store incompatible chemicals in separate areas. 8 .
- Substitute less toxic materials whenever possible. . 9
- Limit the volume of volatile or flammable material to the minimum needed • 10 for short operation periods. 11
- Provide means of containing the material if equipment or containers should . 12
- break or spill their contents. 13
- 14

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

- For those offices with oil and gas operations within their fire suppression 16
- jurisdiction, the following is the minimum standard operating procedures to help 17 ensure the health and safety of wildland firefighters:
- 18 Firefighters shall receive annual oil and gas hazard recognition and • 19
- mitigation training. 20
- Local unit shall complete a JHA/RA for wildland fire suppression activities 21 .
- in oil and gas areas and provide a copy with a briefing to all local and 22 incoming resources. See WFSTAR website for example of a RA. 23
- http://www.nifc.gov/wfstar/index.htm. 24
- Establish Response Protocols which includes notification procedures to 25 . respective oil and gas company(s).
- 26
- Ensure oil and gas resource advisors are consulted. 27 .
- Ensure that at least one member of each squad or engine crew is . 28
- knowledgeable in the use and data interpretation of the Hydrogen Sulfide 29 gas monitor. Training on the device will include at a minimum: 30
- Equipment charging and maintenance of sensors 31 \geq
- \triangleright Startup, zeroing, calibration and bump testing procedures as 32 recommended by the manufacturer. 33
- \geq How the monitor elicits a warning alarm (visual, auditory, vibration) 34
- Understand Peak Reading, Short Term Exposure Limits (STEL), and Time 35 • Weighted Averages. 36
- Understand how to set the monitors alarm threshold. \geq 37
- The monitor's alarm shall be set at the current American Conference on 38 .
- Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (10 39 PPM 2008) and STEL (15 PPM 2008). 40
- If hydrogen sulfide gas (H₂S) is encountered, immediately disengage and 41 ٠ leave area. 42
- Do not establish incident base camps or staging areas in or near oil and gas 43 .
- operations. 44

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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

- 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

management control does not adequately protect employees. To meet thisrequirement:

- 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
- chemicals would require the use of self-contained breathing apparatus.
- 26 Managers will avoid giving the appearance that their wildland fire
- suppression resources are trained and equipped to perform structure,
- vehicle, and dump fire suppression, to respond to hazardous materials
- 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.

3435 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

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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

Recommended field attire for visits to incident base camps and other non-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.

15 Visits to the Fireline/RX Burns

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

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

19

14

20 Required PPE:

- 21 Yellow long-sleeved aramid shirts.
- 22 Aramid trousers.
- 23 Hard hat with chinstrap.
- Leather or leather/flame resistant combination gloves. Flight gloves are not
 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
- natural fibers, aramid, or other flame-resistant materials.

32

- 33 Required equipment/supplies:
- 34 Hand tool.
- 35 Water canteen.

37 Visits to the Fireline

38

36

- 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:

07-18

- Introduction to Fire Behavior (S-190).
- Firefighter Training (S-130).
- Annual Fireline Safety Refresher Training.
- 4 Deviation from this requirement must be approved by the IC for other non-
- 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.

1

2

3

5

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

11

12 Escorted Visits

- All non-incident, non-agency, visitors lacking the above training and physical
 requirements must be escorted while on the fireline.
- Visitors must receive training in the proper use of PPE.
- 16 Requirement for hand tool and water to be determined by escort.
- Visitors must be able to walk in mountainous terrain and be in good
 physical condition with no known limiting conditions.
- Physical condition with no known mining conditions.
 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:
- \sim Flight helmet
- 27 ➤ Leather boots
 - Flame-resistant clothing
 - All leather or leather and aramid gloves

29 30

28

- 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
- 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

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- 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:
- To provide immediate reporting and correction of unsafe situations or close
 calls in wildland fire.
- To provide a means of sharing safety information throughout the fire
 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.

- 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:
- 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.

07-20

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

8 Required Treatment for Burn Injuries

9

The following standards will be used when any firefighter sustains burn injuries,
 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

38 Burn Injury Criteria

- Partial thickness burns (second degree) involving greater than 5% Total
 Body Surface Area (TBSA).
- Burns (second degree) involving the face, hands, feet, genitalia, perineum,
 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.

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- 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
 - recommended action should be to facilitate the immediate referral and
- 5 transport of the firefighter to the nearest burn center.

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

8 http://www.blm.gov/nifc/st/en/prog/fire/im.html.

9

4

6

- 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.htm.

25

26 Critical Incident Stress Management (CISM)

27

- 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 1 **Interagency Coordination & Cooperation** 2 3 Introduction 4 5 Fire management planning, preparedness, prevention, suppression, restoration 6 and rehabilitation, monitoring, research, and education will be conducted on an 7 interagency basis with the involvement of cooperators and partners. The same 8 capabilities used in wildland fire management will also be used, when 9 appropriate and authorized, on non-fire incidents in the United States and on 10 both wildland fires and non-fire incidents internationally. 11 12 **National Wildland Fire Cooperative Agreements** 13 14 **USDOI and USDA Interagency Agreement for Fire Management** 15 The objectives of the Interagency Agreement for Fire Management Between the 16 Bureau of Land Management (BLM), Bureau of Indian Affairs (BIA), National 17 Park Service (NPS), Fish and Wildlife Service (FWS) of the United States 18 Department of the Interior (DOI) and the Forest Service (FS) of the United 19 States Department of Agriculture are: 20 To provide a basis for cooperation among the agencies on all aspects of 21 . 22 wildland fire management and as authorized in non-fire emergencies. To facilitate the exchange of personnel, equipment (including aircraft), 23 . supplies, services, and funds among the agencies. 24 25 **DOI, USDA, and DOD Interagency Agreement** 26 The purpose of the Interagency Agreement for the Provision of Temporary 27 Support During Wildland Firefighting Operations among the United States 28 Department of the Interior, the United States Department of Agriculture, and the 29 United States Department of Defense is: 30 To establish the general guidelines, terms and conditions under which the 31 . 32 National Interagency Fire Center (NIFC) will request, and DOD will provide, temporary support to NIFC in wildland fire emergencies occurring 33 within all 50 States, the District of Columbia, and all U.S. Territories and 34 Possessions, including fires on State and private lands. It is also intended to 35 provide the basis for reimbursement of DOD under the Economy Act. 36 37 These and other agreements pertinent to interagency wildland fire management 38 can be found in their entirety in Chapter 40 of the National Interagency 39 Mobilization Guide online at: 40 41 http://www.nifc.gov/nicc/mobguide/CHAPTER40.pdf 42 43 44 45 46

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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

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INTERAGENCY COORDINATION & COOPERATION

- 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.
- Activate and maintain a ready reserve of national resources for assignment
 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:
- 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.
- 36 National Dispatch/Coordination System
- 37

35

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

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- 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.
- 23 F
- 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

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INTERAGENCY COORDINATION & COOPERATION

- 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

14 Local and Geographic Area Drawdown

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

- local or geographic area for which they have been identified. Drawdown isintended to:
- Ensure adequate fire suppression capability for local and/or geographic area
 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

30 Establishing Drawdown Levels

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

the Geographic Area Coordination Center (GACC) of local drawdown decisionsand 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.

39 40

41 National Ready Reserve (NRR)

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.

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- 1 NRR implementation responsibilities are as follows:
- 2 NMAC establishes national ready reserve requirements by resource
- 3 category, type and quantity.
- NICC implements NMAC intent by directing individual GACCs to place
 specific categories, types, and quantities of resources on national ready
 reserve.
- GACCs direct local dispatch centers and/or assigned IMTs to specifically
 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.

- 13 National ready reserve resources must meet the following requirements:
- May be currently assigned to ongoing incidents.
- Must be able to demobe and be enroute to new assignment in less than 2
 hours.
- Resources must have a minimum of 7 days left in 14 day rotation
 (extensions will not be factored in this calculation).
- May be assigned to incidents after being designated ready reserve, in
 coordination with NICC.
- 21 Designated ready reserve resources may be adjusted on a daily basis.
- 23 NMAC will adjust ready reserve requirements as needed. Furthermore, in order
- 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

28 National Interagency Mobilization Guide

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

37 Interagency Incident Business Management Handbook

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.
- 43 1101 011

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- 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 a5 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
- All appropriate agreements and operating plans will be provided to the servicing dispatch center. The authority to enter into interagency agreements is extensive.
- **BLM -** BLM Manual 9200, Departmental Manual 620 DM, the Reciprocal
- *Fire Protection Act, 42 U.S.C. 1856, and the Federal Wildland Fire*
- 38 Management Policy and Program Review.
- FWS Service Manual, Departmental Manual 620 DM, and Reciprocal
 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

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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.
- An element addressing the cooperative roles of each participant in
- 45 prevention, pre-suppression, suppression, fuels, and prescribed fire46 management operations.

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- 1 Reimbursements/Compensation All mutually approved operations that
- 2 require reimbursement and/or compensation will be identified and agreed to
- by all participating parties through a cost-share agreement. The mechanism
- and timing of the funding exchanges will be identified and agreed upon.
- Appropriation Limitations Parties to this agreement are not obligated to
 make expenditures of funds or reimbursements of expenditures under terms
- of this agreement unless the Congress of the United States of America
- 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
- for compensation for any loss, damage, personal injury, or death occurring
 as a consequence of the performance of this agreement unless gross
- 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.
- A signature page identifying the names of the responsible officials shall be
 included in the agreement.
- 19
- *NPS* Refer to DO-20 for detailed instructions and format for developing 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
- involved in emergency operations and unable to provide mutual aid. In this
- 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
- 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.
- In all cases, the identity of the IC must be made known to all fireline and
- 45 support personnel.

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	<u>Сн</u>	PTER 08 INTERAGENCY COORDINATION & CO	DOPERATION
1	•	Communications	
2		In mutual aid situations, a common designated radio frequency id	lentified in
3		the AOP should be used for incident communications. All incide	nt
4		resources should utilize and monitor this frequency for incident	
5		information, tactical use, and changes in weather conditions or ot	
6		emergency situations. In some cases, because of equipment avail	
7		capabilities, departments/ agencies may have to use their own fre	-
8		for tactical operations, allowing the "common" frequency to be the	
9		between departments. It is important that all department /agencie	
10		to a single frequency or establish a common communications link as practical. Clear text should be used. Avoid personal identifier	
11 12		names. This paragraph in the AOP shall meet Federal Communic	
12		Commission (FCC) requirements for documenting shared use of	
14		frequencies.	luulo
15	•	Distance/Boundaries	
16		Responding and requesting parties should identify any mileage li	mitations
17		from mutual boundaries where "mutual aid" is either pay or non-	
18		Also, for some fire departments, the mileage issue may not be on	e of initial
19		attack "mutual aid," but of mutual assistance. In this situation, ye	ou may
20		have the option to make it part of this agreement or identify it as	
21		where the request would be made to the agency having jurisdiction	on, which
22		would then dispatch the fire department.	
23	•	Time/Duration	(11
24		Responding and requesting parties should identify time limitation	
25		24 hours) for resources in a non-reimbursable status, and "reimbursable status" when the resources are in a reimbursable status.	irsable
26	•		
27 28	•	Qualifications/Minimum Requirements As per the NWCG memorandum <i>Qualification Standards During</i>	- Initial
28 29		Action, March 22, 2004 and the PMS 310-1 Wildland Fire Quali	·
30		System Guide:	leanon
31		The 310-1 qualification/certification standards are mandator	rv onlv for
32		national mobilization of wildland fire fighting resources.	5 5
33		> During initial action, all agencies (federal, state, local and tr	ribal)
34		accept each other's standards. Once jurisdiction is clearly es	
35		then the standards of the agency(s) with jurisdiction prevail.	
36		Prior to the fire season, federal agencies should meet with the	ieir state,
37		local, and tribal agency partners and jointly determine the	<u>.</u>
38		qualification/ certification standards that will apply to the us	
39		non-federal firefighters during initial action on fires on land	s under the
40		jurisdiction of a federal agency.The Geographic Area Coordinating Group should determine	atha
41 42		The Geographic Area Coordinating Group should determine application of 310-1 qualification/certification standards for	
42 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.	0

08-10

- 1 The AOP should address qualification and certification standards applicable to
- 2 the involved parties.
- 3 Reimbursement/Compensation
- Compensation shall be as close to actual expenditures as possible. This
- should be clearly identified in the AOP. Vehicles and equipment operated
- 6 under the federal excess property system will only be reimbursed for
- maintenance and operating costs.

8 • Cooperation

- 9 The annual operating plan will be used to identify how the cooperators will
- share expertise, training, and information on items such as prevention,
- investigation, safety, and training.
- 12 Agency Reviews and Investigations
- Annual operating plans should describe processes for conducting agency
 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

4

5

7

22 Fiscal Responsibility Elements of an AOP

23 Annual Operating Plans should address the following:

- 24 The level of communication required with neighboring jurisdictions
- regarding the management of all wildland fires, especially those withobjectives that include benefit.
- The level of communication required with neighboring jurisdictions
 regarding suppression resource availability and allocation, especially for
 wildland fires with objectives that include benefit.
- 30 Identify how to involve all parties in developing the strategy and tactics to
- 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.
- Jurisdictions, which may include state and private lands, should identify the
- conditions under which wildland fire may be managed to achieve benefit,
- and the information or criteria that will be used to make that determination
 (e.g. critical habitat, hazardous fuels and land management planning
- 37 (e.g. critical38 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.

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1		will be utilized should wildfire spread
2	8 81	
3		vill be used should a jurisdiction accept
4		methodology will be used if the reason
5 6		on is attributed to a strategic decision,
7		
8		afety, resource availability) that preclude
9		
10		1 0
11		ng managed for benefit spreads to a
12	2 neighboring jurisdiction because	e of strategic decisions, and in a
13		d, the managing jurisdiction shall be
14	1 11	
15		
16		g at jurisdiction boundaries cost-share
17		
18		its own resources – fire suppression
19	1 5 5	
20		its own resources – services rendered f jurisdictional responsibility, but not
21		
22 23		
23 24		graphic division. Examples of
25		isions A and B (using a map as an
26		property with structures; or specific
27	1	
28		mates (for larger, multi-day incidents).
29	9 This method relies upon daily	agreed to cost estimates, using Incident
30	0 Action Plans or other means to	o determine multi-Agency
31		ts can be made upon estimates instead
32	2 of actual bill receipts.	
33		
34	,	
35	1 0 5	
36		v 1
37	1	бису, Арги 15, 2009
38 39		ation and Cooperation
39 40		
40		
42		blic Law 107-296) established the
43		,
44		
45	5 act Congress also assigned DHS as the r	•

- 45 act, Congress also assigned DHS as the primary focal point regarding natural
- 46 and manmade crises and emergency planning.

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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."

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

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- 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

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22

- Non-Stafford Act Non-Wildland Fire Coordination and Cooperation 1
- In an actual or potential Incident of National Significance that is not 2
- encompassed by the Stafford Act, the President may instruct a federal 3
- department or agency, subject to any statutory limitations on the department or 4
- agency, to utilize the authorities and resources granted to it by Congress. In 5
- accordance with Homeland Security Presidential Directive-5, federal 6
- departments and agencies are expected to provide their full and prompt support, 7
- cooperation, available resources, consistent with their own responsibilities for 8
- protecting national security. 9

- **International Wildland Fire Coordination and Cooperation** 11
- 12
- **U.S. Mexico Cross Border Cooperation on Wildland Fires** 13
- In June of 1999, the Department of Interior and the Department of Agriculture 14 signed a Wildfire Protection Agreement with Mexico. The agreement has two 15 purposes: 16
- To enable wildfire protection resources originating in the territory of one 17 •
- country to cross the United States-Mexico border in order to suppress 18
- wildfires on the other side of the border within the zone of mutual 19
- 20 assistance (10 miles/16 kilometers) in appropriate circumstances.
- To give authority for Mexican and U.S. fire management organizations to 21 .
- cooperate on other fire management activities outside the zone of mutual 22 assistance.
- 23
- 24
- National Operational Guidelines for this agreement are located in Chapter 40 of 25
- the National Interagency Mobilization Guide available online. These guidelines 26
- cover issues at the national level and also provide a template for those issues that 27
- need to be addressed in local operating plans. The local operating plans identify 28
- how the agreement will be implemented by the GACCs (and Zone Coordination 29
- Centers) that have dispatching responsibility on the border. The local operating 30
- plans will provide the standard operational procedures for wildfire suppression 31
- resources that could potentially cross the U.S. border into Mexico. 32
- 33

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

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

41

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

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

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- 1 another during severe fire seasons. It also contains the AOP that provides more
- 2 detail on the procedures, responsibilities, and requirements used during
- 3 activation.
- 4

5 International Non-Wildland Fire Coordination and Cooperation
--

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:
- USG agencies charged with the responsibility to coordinate USG responses
 to international disaster.
- The purpose, organizational structure, and operational procedures of a
 DART.
- 20 How the DART relates to other international organizations and countries
- during an assignment. Requests for these assignments are coordinated
- through the FS International Programs, Disaster Assistance SupportProgram (DASP).
- 24 DART assignments should not be confused with technical exchange
- 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 1 **Fire Management Planning** 2 3 **Policy and Implementation** 4 5 Every area with burnable vegetation must have an approved Fire Management 6 Plan (FMP). FMPs are strategic plans that define a program to manage planned 7 and unplanned ignitions based on the area's approved Land or Resource 8 Management Plan (L/RMP). FMPs must provide for firefighter and public 9 safety; include fire management strategies, tactics, and alternatives; address 10 values to be protected and public health issues; and be consistent with resource 11 12 management objectives, activities of the area, and environmental laws and regulations. 13 14 For complete historical interagency policy and implementation guidance, see 15 http://www.nwcg.gov/branches/ppm/fpc/archives/fire policy/index.htm 16 http://www.nifc.gov/policies.htm 17 18 Purpose 19 20 The fire management planning process and requirements may differ among 21 agencies. However, for all agencies, the FMP contains strategic and operational 22 23 elements that describe how to manage applicable fire program components such as: response to unplanned ignitions, hazardous fuels and vegetation 24 management, burned area emergency stabilization and rehabilitation, prevention, 25 community interactions and collaborative partnerships roles, and monitoring and 26 evaluation programs. 27 28 The FMP includes a concise summary of information organized by fire 29 management unit (FMU) or units. Each FMP should be updated as new 30 information becomes available, as conditions on the ground necessitate updates, 31 or when changes are made to the L/RMP. 32 33 34 For an example of FMP templates, see: DOI- http://www.nwcg.gov/branches/ppm/ifpc/library.htm 35 • FS- http://fsweb.wo.fs.fed.us/fire/fmp/ 36 • 37 Wildland Fire Management Objectives 38 39 A wildland fire may be concurrently managed for one or more objectives as 40 specified in the L/RMP and FMP. Objectives can change as the fire spreads 41 across the landscape and are affected by changes in fuels, weather, topography; 42 varying social understanding and tolerance; and involvement of other 43 governmental jurisdictions having different missions and objectives. 44 45 46

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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

09-2

- 1 Fire Type
- 2 Wildland fires are categorized into two distinct types:
 - Wildfires- <u>Unplanned</u> ignitions or prescribed fires that are declared wildfires.
 - Prescribed fires- <u>Planned</u> ignition.
- 5 6

4

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 consequences19 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

23

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.

29

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.

33

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.

39

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.

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Chapter 10 1 Preparedness 2 3 Preparedness 4 5 Preparedness is the result of activities that are planned and implemented prior to 6 wildland fire ignitions. Preparedness is a continuous process that includes 7 developing and maintaining unit, state/regional, and national level firefighting 8 infrastructure, predicting fire activity, hiring, training, equipping, and deploying 9 firefighters, evaluating performance, correcting deficiencies, and improving 10 overall operations. The preparedness process includes routine pre-season 11actions as well as incremental in-season actions conducted in response to 12 increasing fire danger. 13 14 Preparedness actions are based on operational plans such as Fire Danger 15 Operating Plans (FDOPs). FDOPs use information from decision support tools 16 such as the National Fire Danger Rating System (NFDRS), the Canadian Forest 17 Fire Danger Rating System (CFFDRS, used in interior Alaska), the Palmer 18 Drought Index, live fuel moisture data, monthly or seasonal wildland fire 19 outlooks, seasonal climate forecasts, and wildland fire risk analyses. 20 21 **Fire Danger Operating Plan** 22 23 A Fire Danger Operating Plan is a fire danger applications guide for agency 24 users at the local level. A Fire Danger Operating Plan documents the 25 establishment and management of the local unit fire weather station network and 26 describes how fire danger ratings are applied to local unit fire management 27 28 decisions. FDOPs should be prepared by individuals trained at the Intermediate 29 NFDRS (S-491) level, and preferably the Advanced NFDRS level. FDOPs are generally prepared for local interagency areas, such as a zone-wide operating 30 plan. Interagency FDOPs are an integral component of unit fire management 31 plan(s). Fire Danger Operating Plans may be packaged as either stand-alone 32 documents or as part of a larger planning effort; such as a fire management plan. 33 34 Fire Danger Operating Plans include, but are not limited to, the following 35 components: 36 **Roles and Responsibilities** 37 • Defined for those responsible for maintenance and daily implementation of 38 39 the plan, program management related to the plan, and associated training. Training for development of fire danger rating areas is available through 40 NWCG-sponsored NFDRS courses. 41 **Operational Procedures** 42 . This section establishes the procedures used to gather and process data in 43 order to integrate fire danger rating information into decision processes. 44

45 The network of fire weather stations whose observations are used to

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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 appropriat	:
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 appropriat	•
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), an	1
32	weather/climatology into fire danger rating areas; validates the existing	
33	weather station network and identifies any additional stations to support fir	•
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 point	5
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		
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- ≻ BLM - 80th and 95th percentiles
- \triangleright FWS/NPS/FS - 90th and 97th percentiles

It is equally important to identify the period or range of data analysis used to 4

determine the agency percentiles. The percentile values for 12 months of data 5

will be different from the percentile values for the fire season. Year round data

should be used for percentiles for severity type decisions, and percentiles based 7

on fire season data for staffing levels and adjective fire danger. 8

1

2 3

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

16 17

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

20

Staffing Level 21

- The Staffing Level is used to make daily internal fire operations decisions. A 22
- unit can operate with anywhere from 3 to 9 levels of staffing. Most units 23
- typically use 5 (1,2,3,4,5) or 6 (1,2,3L,3H,4,5) levels. Staffing Level is a direct 24
- output of the danger rating processor and is based on one of the following: 25
- NFDRS (Burning Index, Energy Release Component, Spread Component, 26
- or Ignition Component) 27
- Keetch-Byram Drought Index . 28

29

Additional Considerations: 30

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

35

Adjective Fire Danger Rating 36

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

42

- Climatological breakpoints and fire business thresholds are developed with 43
- NFDRS software, such as FIREFAMILY PLUS, and are applied to appropriate 44
- NFDRS processors, such as WIMS, to determine daily staffing levels and 45 Release Date: January 2011 10-3

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

- 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-

10-4

- 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.

- 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,
- signing, and patrolling
- 11 Prepositioning suppression resources
- 12 Cooperator discussion and/or involvement
- 13 Safety considerations: safety message, safety officer
- Augmentation of suppression forces
- 15 Support function: consideration given to expanded dispatch activation,
- initial attack dispatch staffing, and other support needs (procurement,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

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

26

- 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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- Palmer Drought or Standardized Precipitation Index
- 2 1000-hour fuel moisture (timber fuels)
- 3 Vegetation moisture levels
- 4 Live fuel moisture (brush fuels)
- Curing rate (grass fuels)
- 6 Episodic wind events (moisture drying days)
- 7 Unusual weather events (early severe frost)
- 8 Fires to date

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

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

- 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
- 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).

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3

5

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

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.
- Appropriate Severity Funding Charges- Labor
- 17 Appropriate labor charges include:
- 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
- Severity funded personnel and resources must be available for immediate
 initial attack regardless of the daily task assignment
- 24 Severity funded personnel and resources will not use a severity cost code
- 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
- 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

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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
- 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

5

11 Prevention Activities

- 12 These include:
- Funding Prevention Teams (Preventions teams will be mobilized as
- referenced in the *National Mobilization Guide*, Chapter 20)
- Implementing local prevention campaigns, to include community risk
 assessment, mitigation planning, outreach, and education
- 17 Augmenting patrols
- 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

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
- 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
- required resources, reduce interagency costs and to utilize severity funded
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 10

- 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

10-10

- 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.

- 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.
- 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
- funding and expenditures. This may be done as part of their normal agency fireprogram review cycle.
- ²⁸ program review cycle

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

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

³⁴ 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.
- *NPS-* Only units that experience more than an average of 26 human caused
 fires per ten-year period are required to develop a fire prevention plan.
- *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;
- Provide analysis or information that affects a supervisor's or manager's
 decision about a wildland fire;
- ²⁶ Direct the deployment of equipment for a wildland fire, such as a base camp
- manager, an equipment manager, a helicopter coordinator, or an initial
 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

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Chapter 11 1 **Incident Management & Response** 2 3 **National Response Framework** 4 5 The National Response Framework presents the guiding principles that enable 6 all response partners to prepare for and provide a unified national response to 7 disasters and emergencies - from the smallest incident to the largest catastrophe. 8 The Framework establishes a comprehensive, national, all-hazards approach to 9 domestic incident response. Information about the National Response 10 Framework can be found at: http://www.fema.gov/emergency/nrf/index.htm 11 12 National Interagency Incident Management System 13 14 The National Interagency Incident Management System (NIIMS) is sponsored 15 by the National Wildfire Coordinating Group (NWCG). NIIMS is compliant 16 with the National Incident Management System (NIMS), which is a component 17 of the National Response Framework. NIIMS provides a universal set of 18 structures, procedures and standards for agencies to respond to all types of 19 emergencies. NIIMS will be used to complete tasks assigned to the 20 interagency wildland fire community under the National Response Framework. 21 22 23 **Incident Management and Coordination Components of NIIMS** Effective incident management requires: 24 Command organizations to manage on-site incident operations. 25 . Coordination and support organizations to provide direction and supply . 26 resources to the on-site organization. 27 28 **Incident Command System (ICS)** 29 30 The ICS is the on-site management system used in NIIMS/NIMS. The ICS is a 31 32 standardized emergency management system specifically designed to provide 33 for an integrated organizational structure that reflects the complexity and demands of single or multiple incidents, without being hindered by jurisdictional 34 boundaries. ICS is the combination of facilities, equipment, personnel, 35 communications and procedures operating within a common organizational 36

- structure to manage incidents. ICS will be used by the agencies to manage 37
- wildland fire operations and all risk incidents. 38

39

Wildland Fire Complexity 40

41

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

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- 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
- incident from the agency administrator. For type 3, 4, or 5 incidents,
- 23 delegations/expectations may be written or oral.
- Ensuring that safety receives priority consideration in all incident activities,
- and that the safety and welfare of all incident personnel and the public ismaintained.
- 27 Assessing the incident situation, both immediate and potential.
- Maintaining command and control of the incident management
 organization.
- Ensuring transfer of command is communicated to host unit dispatch and to
 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.
- Ordering, deploying, and releasing resources.
- Ensuring incident financial accountability and expenditures meet agency
 policy and standards.
- 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.

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- 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.
- 10

11 On-site Command Organizations

- 12 Command organizations responsible for incident management include:
- 13 Type 5 Incident Command
- Type 4 Incident Command
- 15 Type 3 Incident Command
- 16 Type 2 Incident Command
- 17 Type 1 Incident Command
- Wildland Fire Management Teams
- 19 National Incident Management Organizations (NIMO)
- 20 Area Command
- 21 Unified Command

23 Type 5 Incidents

24

22

25 Type 5 Incident Characteristics

- ²⁶ Ad hoc organization managed by a type 5 Incident Commander.
- Primarily local resources used.
- 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.
- 34

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.
- 42
- 43
- 44
- 45

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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.
- Resources vary from a single resource to multiple resource task forces or
 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

- Ad hoc or pre-established type 3 organization managed by a type 3 Incident
 Commander.
- 28 The IC develops the organizational structure necessary to manage the
- incident. Some or all of ICS functional areas are activated, usually at the
 division/group supervisor and/or unit leader level.
- 31 The Incident Complexity Analysis process is formalized and certified daily
- with the jurisdictional agency. It is the IC's responsibility to continually
- reassess the complexity level of the incident. When the complexity analysis
- indicates a higher complexity level the IC must ensure that suppression
- 35 operations remain within the scope and capability of the existing
- organization and that span of control is consistent with established ICS
 standards.
- Local and non-local resources used.
- 39 Resources vary from several resources to several task forces/strike teams.
- May be divided into divisions.
- 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).

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- 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.
- ICT3's will not serve concurrently as a single resource boss or have any non
 incident related responsibilities.

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.
- 24
- 25
- 26

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1 Type 2 Incidents

2

5

3 Type 2 Incident Characteristics

- 4 Pre-established incident management team managed by type 2 Incident
- Commander.
- 6 ICS command and general staff positions activated.
- 7 Many ICS functional units required and staffed.
- 8 Geographic and/or functional area divisions established.
- 9 Complex aviation operations.
- ¹⁰ Incident command post, base camps, staging areas established.
- 11 Incident extends into multiple operational periods.
- 12 Written incident action plan required for each operational period.
- Operations personnel often exceed 200 per operational period and total
 personnel may exceed 500.
- 15 Requires WFDSS or other decision support document.
- 16 Requires a written Delegation of Authority to the Incident Commander.

17

18 Type 2 Incident Command

- 19 Type 2 Incident Commanders are qualified according to the 310-1. These ICs
- 20 command pre-established Incident Management Teams that are configured with
- 21 ICS Command Staff, General Staff and other leadership and support positions.
- 22 Personnel performing specific type 2 command and general staff duties must be
- ²³ qualified at the type 1 or type 2 level according to the *310-1* standards.
- **FS** *Refer to FSH 5109.17 for additional standards.*

2526 Type 1 Incidents

27

28 Type 1 Incident Characteristics

- Pre-established incident management team managed by type 1 Incident
 Commander.
- 31 ICS command and general staff positions activated.
- 32 Most ICS functional units required and staffed.
- 33 Geographic and functional area divisions established.
- May require branching to maintain adequate span of control.
- 35 Complex aviation operations.
- ³⁶ Incident command post, incident camps, staging areas established.
- 37 Incident extends into multiple operational periods.
- ³⁸ Written incident action plan required for each operational period.
- Operations personnel often exceed 500 per operational period and total
 personnel may exceed 1000.
- 41 Requires WFDSS or other decision support document.
- 42 Requires a written Delegation of Authority to the incident commander.
- 43 44

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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.
- **FS** Pafar to FSH 5100 17 for additional standards
- 7 **FS** Refer to FSH 5109.17 for additional standards.

9 Incident Management Teams

10

8

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

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- 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:
- Establish overall strategy, objectives and priorities for the incident(s) under
 its command.
- 19 Allocate critical resources according to priorities.
- Ensure that incidents are properly managed.
- 21 Coordinate demobilization.
- Supervise, manage and evaluate Incident Management Teams under its
 command.
- Minimize duplication of effort and optimize effectiveness by combining
 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:
- **•** Determining overall strategies.
- 37 Selecting alternatives.
- 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.

11-8

- 1 Information flow and coordination is improved between all jurisdictions and
- agencies involved in the incident.
- All involved agencies have an understanding of joint priorities and
 restrictions.
- 5 No agency's legal authorities will be compromised or neglected.

7 Coordination and Support Organizations

8

6

2

9 Organizations that provide coordination and support to on-site command10 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

Initial attack dispatch is also responsible for coordination of communicationsand logistical support for incidents and field operations.

25 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:
- Filling and supervising necessary positions in accordance with coordination
 complexity.
- Implementing decisions made by the Multi-Agency Coordination (MAC)
 group.
- 43

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- 1 Expanded dispatch facilities and equipment should be pre-identified, procured
- 2 and available for immediate setup. The following key items should be provided3 for:
- Work space separate from, but accessible to, the initial attack organization.
- 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.

5

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 11-10 Release Date: January 2011

- 1 accordance with the preparedness levels criteria established in the National and
- 2 Geographic Area Mobilization Guides.
- 3 4

7

- The MAC group coordinator facilitates organizing and accomplishing the
- 5 mission, goals and direction of the MAC group. The MAC group coordinator:
- Provides expertise on the functions of the MAC group and on the proper relationships with dispatch centers and incident managers.
- 8 Fills and supervises necessary unit and support positions as needed, in
- 9 accordance with coordination complexity.
- Arranges for and manages facilities and equipment necessary to carry out
 the MAC group functions.
- 12 Facilitates the MAC group decision process. Implements decisions made by
- 13 the MAC group.

14

- Activation of a MAC group improves interagency coordination and provides for
 allocation and timely commitment of multi-agency emergency resources.
- 17 Participation by multiple agencies in the MAC effort will improve:
- Overall situation status information.
- 19 Incident priority determination.
- 20 Resource acquisition and allocation.
- 21 State and Federal disaster coordination.
- 22 Political interfaces.
- Consistency and quality of information provided to the media and involved
 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
- 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

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- 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

13 WFDSS Support

- 14 A National Fire Decision Support Center (NFDSC) has been established to
- 15 support analysis used in wildland fire decision making and WFDSS. The
- 16 support provided by NFDSC consists of developing, improving, and increasing
- 17 production and operational use of decision support products. As part of that
- 18 support NFDSC will provide not only direct decision support but also mentoring
- 19 and training to develop and strengthen regional and unit level decision support
- 20 capacity. Information for requesting assistance from the NFDSC can be found
- 21 at www.wfmrda.org by clicking on the NFDSC tab or at the WFDSS homepage.
- 22

23 WFDSS User Roles and Incident Privileges

- 24 User Roles within WFDSS correspond to permissions which allow users to
- 25 perform certain tasks within the application, such as creating an incident or
- 26 conducting fire behavior analysis. Typical User Roles are Viewer, Dispatcher,
- 27 Author, Data Manager, and Fire Behavior Specialist.
- 28
- 29 Incident privileges are assigned at the time of (and are specific to) an incident.
- 30 These privileges allow you to Own, Edit, Review, or Approve a decision
- 31 document.

32

33 Fire Modeling

- 34 Fire modeling has been incorporated into WFDSS, in the form of the FIRE
- 35 Spread Probability model (FSPro), Basic Fire Behavior (Basic), Short Term Fire
- 36 Behavior (STFB) and Near Term Fire Behavior (NTFB). Comparison of
- 37 WFDSS short and basic models to stand alone FlamMap and other fire behavior
- ³⁸ information can be found on the WFDSS homepage under the Related
- 39 Resources link, fire behavior section. Information for requesting assistance in
- 40 running these models for your incident can be found at the WFDSS homepage
- 41 through the National Fire Decision Support Center (NFDSC).

42

43 Relative Risk Assessment

- 44 The Relative Risk assessment is required before publishing a decision for an
- ⁴⁵ incident. Its purpose is to assist in planning for, assessing, and managing the
- ⁴⁶ incident. It provides the Agency Administrator with a quick but comprehensive

11-12

- 1 assessment of the risk of the fire. An incident owner, editor, reviewer, or
- 2 approver can perform the assessment.

- 4 This is a qualitative process that can be completed in less time than a
- quantitative long-term risk assessment. The relative risk assessment chart usesthree 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

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\$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

3 *BLM/NPS- All WFDSS decisions are approved in the application at the local

4 level by the Field Office Manager, District Manager or Park Superintendent.

5 When the cost thresholds described above are reached, certification by

6 respective BLM State Directors/Bureau Directors or NPS Regional

7 Director/National Director occurs through a process outside of the WFDSS

8 application. Certification from the higher level must be in writing.

9 10

BLM/NPS WFDSS Approval and Cost Certification

Cost Estimate (*Certification or recertification is required at the following thresholds)	Approving Official for WFDSS Decision	Certifying Official for Fire Cost
<\$2M	District/Field Office	District/Field
	Manager/Park	Manager/Park
	Superintendent	Superintendent
>\$2M	District/Field Office	BLM State Director/NPS
	Manager/Park	Regional Director
	Superintendent	
>\$5M	District/Field Office	BLM Director/NPS
	Manager/Park	Director
	Superintendent	

11

12 Periodic Assessment

13 The periodic assessment allows an approver to verify that the WFDSS decision

14 is still valid during the course of the incident. The periodic assessment must be

¹⁵ completed by the designated approver in the time frame set during the

16 publication process. The frequency of the Periodic Assessment is set at the time

17 the decision is published and can range from 1 to 14 days and the approver can

18 request a reminder email. It is important to document clear, concise information

¹⁹ about the incident when completing the periodic assessment as this information

20 will be part of the decision record.

21

22 WFDSS Features

The WFDSS has many tools within one system for documenting and supportingdecision making. Some features include:

25 • Fire Behavior

11-14

- 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

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
- area. This is intended as a strategic tool and is the fastest method to see and
- 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
- WFDSS Values at Risk combines FSPro outputs with reference to value
 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
- property values as well as other Tier 1 (national) and Tier 2 (regional)
- 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
- than 300 acres and is not dependant on any spatial information except the
- 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
- and distance to town), ERC percentile, fuel model, and the agency of
- jurisdiction. There are separate models for the Department of Interior (DOI)
- 35 and USDA Forest Service.
- 36 Smoke Dispersion
- Based on the lat/long of a fire, a smoke dispersion forecast can be obtained
- 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
- Wildland fire Air Quality tools can be linked within the application under
 the left menu fire related links.
- 44
- 45
- 46

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^{5 (}NTFB).

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:
- Conduct an initial briefing to the Incident Management Team (appendix D).
- Provide an approved and certified WFDSS.
- FS Ensure that significant decisions related to strategy and costs are
 included in a key decision log or in WFDSS.
- Complete an Incident Complexity Analysis (appendix F & G) to accompany
 the WFDSS
- Coordinate with neighboring agencies on multi-jurisdiction fires to issue a
 joint delegation of authority and develop a single WFDSS document for the
 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,
 - 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 \succ 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.
- Assign an Incident Business Advisor (IBA) to provide incident
 business management oversight commensurate with complexity.
- Direct IMT to address rehabilitation of areas affected by suppression
 activities.
- 37 Coordinate mobilization with the Incident Commander:
- 38 > Negotiate filling of mobilization order with the IC.
 - Establish time and location of agency administrator briefing.
- Consider approving support staff additional to the IMT as requested by
 the IC.
- 42 \blacktriangleright Consider authorizing transportation needs as requested by the IC.
- 43

39

25

- 44 In situations where one agency provides fire suppression service under
- 45 agreement to the jurisdictional agency, both jurisdictional and protecting

11-16

- 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:
- Compliance with the Delegation of Authority and the WFDSS.
- Public Concerns (air quality, road or trail closures, smoke management,
 threats)
- 14 Public safety (evacuations, access/use restrictions, temporary closures)
- Public information (fire size, resources assigned, threats, concerns, appeals
 for assistance)
- 17 Socioeconomic, political, or tribal concerns
- 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)
- 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
- Mineral resources (oil, gas, mining activities)
- 42 Archeological site, historic trails, paleontological sites
- 43 Riparian areas
- 44 Military issues

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- 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,
- 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 <u>directly</u> 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.
- 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.
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- 1 The agency administrator may require additional reporting times. Refer to local,
 - zone and/or GACC guidance for additional reporting requirements.
- 2 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
- responsibilities from the local unit to incoming type 1 or 2 Incident ManagementTeam 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
- delegation of authority has been signed and a mutually agreed time for
- ³⁵ transfer of command has been established.
- The ordering unit will specify times of arrival and transfer of command and discuss these timeframes with both the incoming and outgoing command
- 38 structures.
- Clear lines of authority must be maintained in order to minimize confusion
 and maintain operational control.
- Transfers of command should occur at the beginning of an operational
 period, whenever possible.
- All operational personnel will be notified on incident command frequencies
 when transfer of command occurs.
- 45
- 46

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Release of Teams 1

- The release of a type 1 or 2 IMT should follow an approved transfer of 2
- command process. The agency administrator must approve the date and time of 3
- the transfer of command. The transition plan should include the following 4
- elements: 5
- Remaining organizational needs and structure. 6
- Tasks or work to be accomplished. 7 .
- Communication systems and radio frequencies. . 8
- Local safety hazards and considerations. 9 •
- Incident Action Plan, including remaining resources and weather forecast 10 .
- Facilities, equipment and supply status. 11 •
- Arrangement for feeding remaining personnel. 12 .
- Financial and payment processes needing follow-up. 13 .
- Complexity Analysis. 14

15

Team Evaluation 16

- At completion of assignment, incident commanders will receive a written 17
- performance evaluation from the agency administrators prior to the teams 18
- release from the incident. Certain elements of this evaluation may not be able to 19
- be completed at the closeout review. These include; accountability and property 20
- control; completeness of claims investigation/documentation; and completeness 21
- of financial and payment documentation. 22
- The final evaluation incorporating all of the above elements should be sent to 23
- the incident commander and the respective GACC within 60 days. See 24
- appendix J for the IMT evaluation form. 25

26

- The Delegation of Authority, the WFDSS documents and other documented 27
- 28 agency administrator's direction will serve as the primary standards against
- which the IMT is evaluated. 29

30

- The agency administrator will provide a copy of the evaluation to the IC and the 31
- state/regional FMO, and retain a copy for the final fire package. 32

33

- The state/regional FMO will review all evaluations and will be responsible for 34
- providing a copy of evaluations documenting performance to the geographic 35
- area board or agency managing the IMT. 36

37

Unit/Area Closures 38

39

- Threats to public safety may require temporary closure of a unit/area, or a 40
- portion of it. When a fire threatens escape from the unit/area, adjacent 41
- 42 authorities must be given as much advance notice as possible in order to achieve orderly evacuation.
- 43
- 44 45

11-20

1 Incident Emergency Management Planning and Services

- ³ Refer to chapter 7 for further guidance.
- 5 Responding to Non-Wildland Fire Incidents
- 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

2

4

6

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

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CHAPTER 11

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
 - to the requirements contained in Director's Order and Reference Manual
 - #51, Emergency Medical Services.
- 9 10

8

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:

- Wildfire Suppression Activity Damage Repair Planned actions taken to
- 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
- threats to life or property resulting from the effects of a wildfire, or to
- ³⁶ repair/replace/construct physical improvements necessary to prevent
- degradation of land or resources. Emergency stabilization actions must be
- 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.
- Restoration Continuing the rehabilitation beyond the initial three years or
 the repair or replacement of major facilities damaged by the wildfire.
- 11-22 Release Date: January 2011

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

1

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
		Wanager			\$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

5 Burned Area Emergency Response (BAER) Teams

6 BAER Teams are a standing or ad hoc group of technical specialists (e.g.,

hydrologists, biologists, soil scientists, etc.) that develop and may implement 7

8 portions of the Burned Area Emergency Response Plans. They will meet the

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- 1 requirements for unescorted personnel found in Chapter 07 under "Visitors to
- 2 the Fireline" when working within the perimeter of an uncontrolled wildfire.
- The team's skills and size should be commensurate with the size and complexity 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
- after the total containment of the fire. If additional time is needed,
- 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
- and Wildlife Service and Forest Service. The DOI-BAER Teams are
- dispatched by the National Interagency BAER Team Dispatch Prioritization
 Criteria Evaluation.
- http://www.fws.gov/fire/ifcc/Esr/BAER/BAER_Team_Management/2006%2
 0BAERTeam%20call-out%20criteria.pdf.
- 21 **DOI-** The DOI-BAER Teams should be requested at least 10 days prior to
- expected date of wildfire containment and ordered through the National
 Mobilization Guide.
- FS The Forest Service utilizes BAER Teams through a pool of resources
 with the skills identified by the receiving unit. When needed, BAER
- 26 personnel from other units can either be contacted directly or through
- dispatch. Placing a general fire resource order for BAER team members
- 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*.

3132 Incident Business Management

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:
- Uniform application of regulations on the use of human resources, including
 classification, payroll, commissary, injury compensation, and travel.
- 41 Acquisition of necessary equipment and supplies from appropriate sources
- 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.

11-24

- 1 Use and coordination of incident business management functions as they
- relate to sharing of resources among federal, state, and local agencies, including the military.
- 4 Investigation and reporting of accidents.
- 5 Investigating, documenting, and reporting claims.
- Documenting costs and implementing cost-effective criteria for managing
 incident resources.
- 8 Non-fire incidents administrative processes.

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 (WFDSS)
- 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

2

3

- 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

- A review may also be conducted when an incident (single fire or fire complex) meets or is expected to meet one or more of the following criteria:
- The predicted time to achieve the fire management objective exceeds 21 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.
- 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

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- 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.

- 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.nwcg.gov/general/memos/nwcg-003-2009.html.

10

11 Cache Management

- 12
- 13 Agencies often serve as interagency partners in national support caches and
- 14 local area support caches, and may operate single agency initial attack caches.
- 15 All caches will maintain established stocking levels, receive and process orders
- 16 from participating agencies and follow ordering and fire replenishment
- 17 procedures as outlined by the national and geographic area cache management
- 18 plans and mobilization guides.
- 19 FS Refer to FSM 5160 for specific requirements.

20

21 National Interagency Support Caches

- 22 There are eleven National Interagency Support Caches (NISCs); nine are
- 23 managed by the Forest Service, and two are managed by the BLM. The eleven
- 24 national caches are part of the National Fire Equipment System (NFES). Each
- ²⁵ of these caches provides incident support in the form of equipment and supplies
- 26 to units within their respective geographic areas. The NFES cache system may
- 27 support other emergency, disaster, fire-related or land management activities,
- ²⁸ provided that such support is permitted by agency policies and does not
- ²⁹ adversely affect the primary mission. These national caches do not provide
- 30 supplies and equipment to restock local caches for non-incident requests. Non-
- 31 emergency (routine) orders should be directed to the source of supply, e.g., GSA
- ³² or private vendors. The Great Basin Cache at NIFC provides publications
- 33 management support to the National Wildfire Coordinating Group (NWCG).
- 34 Reference the NWCG, National Fire Equipment System Catalog (NFES 0362)
- 35 for more detailed information.

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.

11-26

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.nwcg.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.

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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:
- 10% for water handling accessories, helicopter accessories, tents and camp items such as heaters, lights, lanterns, tables and chairs.
- 20% for hose, tools, backpack pumps, sleeping bags, pads and cots.
- 9 30% for personal protective equipment.

10 C

6

7

- 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.
- Trackable ID number, if item is trackable.
- 39 Receiving incident name, incident number and resource request number.
- 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

11-28

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 complied 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:
- At the close of each incident, all property must be returned to the servicing
 NFES cache.
- 18 If accountable/trackable property has been destroyed or lost, appropriate
- documentation must be provided to the cache for replacement and updatingproperty records.
- All property purchased with emergency fire funds for an incident must be returned to the NFES cache system.
- All unused consumable and/or durable NFES items must be returned to the 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.
 - Those actions and recommendations should be documented and filed in the final incident records.
- 28 29

27

1

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
- 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

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- 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.

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

2 3 4 5

1

- Policy for Use of Fire Chemicals
- ⁶ Use only products qualified and approved for intended use. Follow safe
- 7 handling procedures, use personal protective equipment recommended on the
- 8 product label and *Material Safety Data Sheet* (MSDS).

9

- 10 A current list of qualified products and approved uses can be found on the
- 11 Wildland Fire Chemical Systems (WFCS) website:
- 12 http://www.fs.fed.us/rm/fire/wfcs/index.htm
- 13 Link to appropriate Qualified Products List (QPL)
- 14
- 15 Refer to local jurisdictional policy and guidance related to use of wildland fire

16 chemicals for protection of historic structures.

17

- 18 Products must be blended or mixed at the proper ratio prior to being loaded into
- 19 the aircraft. Quality control and safety requirements dictate that mixing or
- 20 blending of wildland fire chemicals be accomplished by approved methods.

21

22 Types of Fire Chemicals

23

24 Long-Term Retardant

- 25 Long-term retardants contain fertilizer salts that change the way fuels burn.
- ²⁶ They are effective even after the water has evaporated. Retardants may be
- 27 applied aerially by large air tanker, single engine airtanker (SEAT) and
- 28 helicopter bucket. Some retardant products are approved for fixed tank
- 29 helicopters. Some products are formulated specifically for delivery from ground
- 30 sources. See the QPL for specific uses for each product.

31

- 32 Recommended coverage levels and guidelines for use can be found in the 10
- 33 Principles of Retardant Application, NFES 2048, PMS 440-2 pocket card.
- 34 Retardant mixing, blending, testing, and sampling requirements can be found at
- 35 the WFCS website Lot Acceptance and Quality Assurance page:
- 36 http://www.fs.fed.us/rm/fire/wfcs/laqa.htm.

37

38 Fire Suppressant Foam

- ³⁹ Fire suppressant foams are combinations of wetting and foaming agents added
- 40 to water to improve the effectiveness of the water. They are no longer effective
- 41 once the water has evaporated. Foam may be applied by engines, portable
- 42 pumps, helicopters and SEATs. Some agencies also allow application of foam
- 43 from fixed-wing water scoopers. See the QPL for specific uses for each
- 44 product.
- 45

46

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CHAPTER 12

1 Wet Water

2 Using foam concentrates at a mix ratio of 0.1 percent will produce a wet water

3 solution.

- 5 Water Enhancer (Gel)
- ⁶ Water enhancers, such as fire fighting gels, are added to water to improve the
- 7 viscosity and adhesion of water. They are not effective once the water has
- 8 evaporated. These products may be used in structure protection within the
- 9 wildland interface or on wildland fuels. They are fully approved for use in
- 10 helicopter bucket and engine application. Many are also approved, at specific
- 11 mix ratios, for use in SEATs, and fixed tank helicopters. See the QPL for
- 12 specific uses for each product.

13

14 Safety Information

15

16 Personnel Safety

17 All qualified wildland fire chemicals meet minimum requirements (June 2007)

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
- $_{\rm 27}$ 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,
- should be labeled to alert personnel that they do not contain only water and thecontents 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

12-2

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.

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

4

- 9 During training or briefings, inform all fire personnel of environmental
- guidelines and requirements for fire chemicals application and avoid contactwith waterways.

12

13 Avoid dipping from rivers or lakes with a helicopter bucket containing residual

14 fire chemicals without first cleaning/washing down the bucket.

15

16 Consider setting up an adjacent reload site and manage the fire chemicals in

17 portable tanks or terminate the use of chemicals for that application.

18

19 Policy for Delivery of Wildland Fire Chemicals near Waterways

20

- 21 Avoid aerial application of wildland fire chemicals within 300 feet of waterways
- 22 and any ground application of wildland fire chemicals into waterways. The
- 23 policy has been adopted from the 2000 Guidelines for Aerial delivery of

24 Retardant or Foam near Waterways which were established and approved by

25 the FS, BLM, NPS, and FWS. It has been expanded to include all wildland fire

- 26 chemicals, including water enhancers.
- 27 This policy was updated in 2009 and can be found at.

28 http://www.fs.fed.us/rm/fire/wfcs/Application Policy-MultiAgency 042209-

29 UPDATE.pdf

30

31 Exceptions:

- 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
- to the waterway. When anchoring a wildland fire chemical to a waterway,
- 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

43 **Definition of Waterway**

44 Any body of water including lakes, rivers, streams and ponds whether or not

45 they contain aquatic life.

46

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CHAPTER 12

1 Guidance for Pilots

² To meet the 300-foot buffer zone guideline, implement the following:

- Medium/Heavy Airtankers: When approaching a waterway visible to the
 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.

Single Engine Airtankers: When approaching a waterway visible to the
 pilot, the pilot shall terminate application of wildland fire chemical

- pilot, the pilot shall terminate application of wildland fire chemical
 approximately 300 feet before reaching the waterway. When flying over a
- 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
- adjustments for airspeed and ambient conditions such as wind to avoid the
- application of retardant within the 300-foot buffer zone.
- 17 Helicopters: When approaching a waterway visible to the pilot, the pilot
- shall terminate the application of wildland fire chemical 300 feet before
- 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
- 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.

12-4

46

SUPPRESSION CHEMICALS & DELIVERY SYSTEMS

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*
- *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
- 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

19

- 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

42

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
- near waterways, determine whether the aerial application has caused any
- adverse effects to a T&E species or their habitat. This can be accomplished
 by the following:
- Aerial application of wildland fire chemical outside 300 ft of a
 waterway is presumed to avoid adverse effects to aquatic species and
 no further consultation for aquatic species is necessary.
- Aerial application of wildland fire chemical within 300 ft of a
 waterway requires that the unit administrator determine whether there
- ³⁹ have been any adverse effects to T&E species within the waterway.
- These procedures shall be documented in the initial or subsequent fire
 reports:
 - ➢ 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
- with Fish and Wildlife Service (FWS) or National Marine Fisheries
 Service (NMFS).

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	CHAPTE	R 12 SUPPRESSION CHEMICALS & DELIVERY SYSTEMS
1	\triangleright	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 <i>Interagency</i>
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		ning 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	Fach ag	ency is responsible for ensuring that their appropriate agency specific

15 Each agency is responsible for ensuring that their appropriate agency specific16 guides and training manuals reflect these standards.

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Chapter 13 1 **Firefighter Training and Qualifications** 2 3 Introduction 4 5 National Wildfire Coordinating Group (NWCG) sanctioned firefighters are 6 trained and qualified according to the NWCG and other standards, as outlined 7 below. 8 9 Policy 10 11 Firefighters must meet standards identified in the NWCG publication PMS 310-12 1 National Interagency Incident Management System Wildland Fire 13 Qualifications System Guide. The 310-1 may be found at 14 http://www.nwcg.gov/pms/docs/docs.htm 15 FS - See FSH 5109.17 for additional requirements. 16 . 17 Certain firefighters must meet standards identified in the Interagency Fire 18 Program Management Qualifications Standards and Guide. The Interagency 19 20 Fire Program Management Qualification Standards and Guide may be found at http://www.ifpm.nifc.gov 21 22 Agency standards for training and qualifications may exceed the minimum 23 standards established by National Wildfire Coordinating Group (NWCG). Such 24 additional standards will be approved by the Fire Directors, and implemented 25 through the Incident Qualifications and Certification System (IQCS). Standards 26 which may exceed the minimum standards established by NWCG are identified 27 in: 28 **BLM** - BLM Fire and Aviation Training Information Job Aid which can be 29 . 30 *found at :* http://www.blm.gov/nifc/st/en/prog/fire/training/fire training/publications/j 31 32 ob aid.html FWS - The Fire Management Handbook. 33 . FS - The FSH 5109.17. AD hires sponsored by the Forest Service will meet 34 . FSH 5109.17 position qualification standards. 35 NPS - L380 Fireline Leadership is recommended training for single 36 . resource bosses; L-381 Incident Leadership is recommended training for 37 RXB1. 38 39 **Incident Qualifications and Certification System (IQCS)** 40 41 The Incident Qualifications and Certification System (IQCS) is the fire 42 qualifications and certification record keeping system. The Responder Master 43 Record report provided by the IQCS meets the agency requirement for 44 maintaining fire qualification records. The system is designed to provide 45 managers at the local, state/regional, and national levels with detailed 46

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CHAPTER 13 Firefighter Training & Qualifications qualification, experience, and training information needed to certify employees 1 in wildland fire positions. The IQCS is a tool to assist managers in certification 2 decisions. However, it does not replace the manager's responsibility to validate 3 that employees meet all requirements for position performance based on their 4 agency standards. 5 6 A hard copy file folder will be kept for each employee. The contents will 7 include, but are not limited to: training records for all agency required courses, 8 evaluations from assignments, position task book verification, yearly updated 9 IQCS forms, and the Responder Master Record (RPTC028) from IQCS. All 10 records will be stored and/or destroyed in accordance with agency policies. 11 **BLM** - These policies can be found at . 12 http://www.blm.gov/wo/st/en/info/regulations/combined record schedules. 13 html 14 *NPS* - *IQCS* Account Managers should have an *IQCS* Delegation of 15 . Authority if they are serving as the Certifying Official. Delegation of 16 Authority can be found at: http://iqcs.nwcg.gov/main/requestAccount.html 17 18**Certification of Non-Agency Personnel** 19 Non-agency firefighters will be certified by state or local fire departments, or 20 private training providers approved by a Memorandum of Understanding 21 (MOU) through their local GACC. Agencies will not assist in the 22 administration, or sponsor the Work Capacity Test (WCT), as the certifying 23 agency. 24 25 **Incident Qualification Card** 26 The agency administrator (or delegate) is responsible for annual certification of 27 all agency and Administratively Determined (AD) personnel serving on wildfire, 28 prescribed fire, and all hazard incidents. This responsibility includes monitoring 29 medical status, fitness, training, performance, and ensuring the responder meets 30 all position performance requirements. 31 32 Training, medical screening, and successful completion of the appropriate WCT 33 must be properly accomplished. All Incident Qualification Cards issued to 34 agency employees, with the exception of Emergency Firefighter (EFF-paid or 35 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 level may be printed at the local level without use of the IQCS. 38 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

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1

Firefighter Training & Qualifications

- 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.
- *NPS* It is NPS policy that two or more assignments be accomplished after
 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
- *after the PTB completion and position certification.*

15

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.

21

22 Universal Training Requirements

23

All personnel filling Incident Command System (ICS) positions on the fireline 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-700Å 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
- Command and General Staff, Area Command and Emergency Managers:
 IS-800B National Response Framework, An Introduction²
- IS-800B National Response Framework, A
 ICS-400 or equivalent
- 39 40
 - US 700 A replaced IS 700 Either course most the re
- ⁴¹ IS-700A replaces IS-700. Either course meets the requirement
 ⁴² IS-800B replaces IS-800A. Either course meets the requirement.
- 42 IS-800B replaces IS-800A. Either course meets the requireme
- **FS** Forest Service direction is found in FSH 5109.17.
- 44
- 45

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CHAPTER 13	Firefighter Training &
Qualifications	
Annual Fireline Safety Refresher Traini	ing
A musel Finaline Sefete Definal on Tarining	:
Annual Fireline Safety Refresher Training identified in the <i>Wildland Fire Qualification</i>	
Annual Fireline Safety Refresher Training	
topics:	must menude the following core
1	and reference materials to study the
 Avoiding Entrapments - Use training risk management process as identified 	
Guide as appropriate to the participant	
Orders, Eighteen Watch Out Situation	
(WFDSS) direction, Fire Management	
	identified "hot topics" as found on the
current Wildland Fire Safety Training	
	nents for the upcoming fire season and
discuss implications for firefighter saf	
• Fire Shelter - Review and discuss las	
shelter deployment site selection. Con	
inspections. Practice shelter deployment	
configurations.	
• Other Hazards and Safety Issues - (Choose additional hazard and safety
subjects, which may include SAFENE	ET, current safety alerts, site/unit
specific safety issues and hazards.	
These core topics must be sufficiently cove	
aware of safety concerns and procedures a	
shelter deployment. The minimum refreshe	
agency is identified below. Training time r	
effectively complete this curriculum or to	meet local training requirements.
	$(\mathbf{DT}, 120)$; (16)
The Annual Fireline Safety Refresher Trai	
study course. Minimum requirements have Annual Fireline Safety Refresher Training	
an appropriate level of expertise and know	
refresher training exercises and discussion	
 Lead instructors must be a qualified si 	
 Lead instructors must be a qualified si Unit instructors must be qualified fire: 	
 Adjunct instructors may be utilized to 	
specialized knowledge and skills at the	
They must be experienced, proficient	
in their field of expertise.	and has wreagened of current issues
in their new of expertise.	
For additional information please refer to t	the current NWCG Field Manager's
<i>Course Guide</i> (PMS 901-1) at:	
http://www.nwcg.gov/pms/training/fmcg.r	df

44 http://www.nwcg.gov/pms/training/fmcg.pdf.

45

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- BLM 4 hours
- FWS/FS No minimum hourly requirement; core topics as shown above 2 will be covered. 3
- NPS 8 hours

- Annual Fireline Safety Refresher Training will have a 12-month currency. 6
- Firefighters who receive initial fire training are not required to take Annual 7
- Fireline Safety Refresher Training in the same calendar year. A web site, 8
- http://www.nifc.gov/wfstar/index.htm, titled Wildland Fire Safety Training 9
- Annual Refresher (WFSTAR) is available to assist in this training. 10
- BLM The "Do What's Right" training is required annual training but is • 11 12
 - not a prerequisite for issuance of an Incident Qualification Card.
- Entrapment avoidance and deployment protocols are identified in the Incident 14
- Response Pocket Guide (IRPG) (PMS No. 461/NFES No. 1077). The guide 15
- contains a specific "Risk Management Process" and "Last Resort Survival 16
- Checklist". 17
- 18

13

Oualification and Certification Process 19

20

- Each unit with fire management responsibilities will establish an Incident 21
- Qualification Card qualification and certification process. In areas cooperating 22
- with other federal, state, or local agencies, an interagency qualification and 23
- certification committee should include representatives from each unit. These 24
- qualification and certification committees provide management oversight and 25
- review of the wildland and prescribed fire positions under their jurisdiction. The 26 27 committee also:
- Ensures that qualifications generated by IQCS or other agency systems for 28 employees are valid by reviewing the training and experience of each 29 employee. 30
- Determines whether each employee possesses the personal characteristics 31 ٠
- necessary to perform the wildland and prescribed fire positions in a safe and 32 efficient manner. 33
- Makes recommendations to the appropriate agency administrator or 34 . 35 designee who is responsible for final certification signature.
- Develops interagency training needs and sponsors courses that can be 36 . offered locally. 37
- Ensures training nominees meet minimum requirements for attending 38 . courses. 39

40

Non-NWCG Agency Personnel Qualifications 41

- Personnel from non-NWCG agencies meeting NWCG 310-1 prerequisites can 42
- 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

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Qualifications	

- Position Task Book. Agency employees will not initiate or complete the
- 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
- bargaining unit employees may only be required to successfully complete
 the WCT once per year.
- 35 NPS A fitness plan is required for all NPS personnel participating in a
- *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
- 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.
- 43
- 44
- 45
- 46 1**3-6**
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Firefighter Training & Qualifications

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.

12

Department of Interior Wildland Firefighter Medical Standards Program (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 wlffcsr@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.

NPS - The law enforcement medical exam for NPS rangers, who are collateral duty wildland firefighters, will suffice for MSP clearance.

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Qualifications NPS - Medical clearance must be entered into IQCS. • 1 FWS- Periodicity requirements for Refuge law enforcement examinations 2 . will be applied to arduous duty wildland fire positions. Law enforcement 3 officers wishing to perform in NWCG PMS 310-1 or USFWS agency 4 specific wildland fire positions with an arduous fitness requirement must 5 pass the arduous work capacity test on an annual basis. The HSQ will be 6 used for off exam years prior to arduous work capacity testing. 7 8 **Agency Specific Medical Examinations** 9 This section applies to all employees required to complete a Health Screen 10 Questionnaire (HSQ). 11 12 The Health Screen Questionnaire (HSQ) will be utilized as a means to identify 13 individuals who may be at risk in taking the Work Capacity Test (WCT) and 14 recommend a medical examination prior to taking the WCT. 15 16 If any "Yes" answer is indicated on the HSQ, a medical examination is required 17 prior to the employee taking the WCT. If there is a known pre-existing medical 18 condition that is already being monitored under medical care (e.g., high blood 19 pressure), a medical clearance statement will be provided by the physician in 20 lieu of a medical examination prior to taking WCT. 21 22 Medical examinations will be performed utilizing the Certificate of Medical 23 Exam, U.S. Office of Personnel Management OF-178. Stress EKGs are not 24 required as part of the medical examination and will only be approved if 25 recommended and administered by the medical examining physician. Cost for 26 exams will be borne by the home unit. If medical findings during exam require 27 further evaluation, then the cost of any further evaluation or treatment is borne 28 by the employee/applicant. Costs for additional tests specifically requested by 29 the agency will be borne by the agency. 30 31 Standards for moderate and light OF-178s are available from agency Fire Safety 32 Program Managers or Servicing Personnel Offices. 33 34 The examining physician will submit the completed OF-178 (and applicable 35 36 supplements) to the employee's servicing human resources office, where it will be reviewed and retained in the employee's medical file. 37 **NPS** - The law enforcement medical exam for NPS rangers, who are 38 collateral duty wildland firefighters, will suffice for MSP clearance. 39 40 Health Screen Questionnaire (HSQ) 41 Title 5 CFR Part 339 - Medical Qualification Determinations, which provides a 42 determination of an individual's fitness-for-duty, authorizes solicitation of this 43 information. 44 45 The approved OMB Health Screen Questionnaire (HSQ) may be found at: 46 13-8 Release Date: January 2011

Firefighter Training &

CHAPTER 13

Firefighter Training & Qualifications

- 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:
- http://www.fs.fed.us/fire/safety/wct/wct index.html
- 8 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,

- 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,

- bending, stooping, twisting, and reaching. Occasional demands may be
- required for moderately strenuous activities in emergencies over long

35 periods of time. Individuals usually set their own work pace.

Light - Duties mainly involve office type work with occasional field

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.

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- 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
- the Privacy Act and should be maintained in accordance with agency Freedomof Information Act (FOIA) guidelines.
- 10
- 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.

- 23 A Job Hazard Analysis (JHA) shall be developed and approved for each field
- 24 unit prior to administrating 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/
- 29 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
 13-10
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- 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.

- Treadmills are not approved for Work Capacity Testing.
- 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
- ⁹ and date that will appear on the meldent Quannearbin Card. Thysical interess 10 dates entered in IQCS will reflect the date the employee passed the fitness test.
- **FS** Forest Service direction on Work Capacity Testing is found in the
- *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 (IOCS)
- 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.*
- 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:
- Three opportunities for permanent employees required to pass a test for duties in the fire program.
- One opportunity for temporary employees required to pass a test (a second
- 32 chance maybe provided at the discretion of fire management).
- 33

20

Minimum Age Requirements for Hazardous Duty Assignments on Federal 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 in43 Chapter 14, Fire Fighting Equipment.
- 44
- 45
- 46

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CHAPTER 13 Qualifications Helicopter Modules

Helicopter Modules

1 2 3

Staffing levels and specific requirements for helicopter personnel may be foundin Chapter 16, Aviation.

Smokejumpers (SMKJ)

6 7

5

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.

2324 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 Level of physical fitness
- 31 Ability to learn and perform smokejumper skills
- 32 Ability to work as a team member
- 33 Attitude
- 34 Ability to think clearly and remain productive in a stressful environment

35

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	

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SMKJ Physical Fitness Standards

- ³ The national minimum standards for smokejumpers are:
- 4 1.5 mile run in 11:00 minutes or less
- 5 45 sit-ups
- 6 25 pushups
- 7 7 pull-ups
- 110 lb. packout over 3 miles/level terrain/90 minutes
- 9 Successful completion of the WCT at the arduous level.

10 11

8

Interagency Hotshot Crews (IHC)

12

- 13 Interagency Hotshot Crews provide an organized, mobile, and skilled hand crew
- 14 for all phases of wildfire suppression.

15

16 IHC Policy

- 17 IHC standards provide consistent planning, funding, organization, and
- 18 management of the agency IHCs. The sponsoring unit will ensure compliance
- 19 with the established standards. The arduous duties, specialized assignments, and
- 20 operations in a variety of geographic areas required of IHCs dictate that training,
- 21 equipment, communications, transportation, organization, and operating
- 22 procedures are consistent for all agency IHCs.

23

- 24 As per agency policy all IHCs will be managed under the Standards for
- 25 Interagency Hotshot Crew Operations (SIHCO).
- 26 **BLM/NPS -** BLM Preparedness Review Checklist #12 (Hotshot Crew)
- supersedes the checklist found in the SIHCO.

28

29 IHC Certification

- 30 The process for IHC certification is found in the Standards for Interagency
- 31 Hotshot Crews (SIHCO), Chapter 5, page 14.
- 32

33 Annual Crew Pre-Mobilization Process

- 34 The superintendent of crews holding IHC status the previous season are required
- 35 to complete the Annual IHC Mobilization Checklist (SIHCO Appendix C) and
- ³⁶ send the completed document to the local GACC prior to making the crew
- 37 available for assignment each season.

38

39 Annual IHC Readiness Review

- 40 On an annual basis the superintendent of crews holding IHC status the previous
- 41 season are required to complete the Annual IHC Preparedness Review (SIHCO
- 42 Appendix B). This process is designed to evaluate crew preparedness and
- 43 compliance with SIHCO. The annual review will be conducted while the crew
- 44 is fully staffed and operational. The review is not required prior to a crew being
- ⁴⁵ made available for incident assignment at the beginning of their availability

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CHAPTER 13 Qualifications

- period. When a review document is completed the document is kept on file at
- 2 the local host unit fire management office.

3 IHC Organization

- 4 Individual crew structure will be based on local needs using the following
- 5 standard positions: Superintendent, Assistant Superintendent, Squad Leader,
- 6 Skilled Firefighter, and Crewmember.

7

8 IHC Availability Periods

- 9 IHCs will have minimum availability periods as defined in the SIHCO.
- 10 Availability periods may exceed the required minimum availability period. The
- 11 Crew Superintendent will inform the local supervisor and the GACC of any
- 12 changes in the crew's availability.

13

14 **IHC Communications**

15 IHCs will provide a minimum of five programmable multi-channel radios per 16 crew as stated in the *SIHCO*.

17

18 IHC Transportation

- 19 Crews will be provided adequate transportation. The number of vehicles used to
- 20 transport a crew should not exceed five. All vehicles must adhere to the
- 21 certified maximum Gross Vehicle Weight (GVW) limitations.

22

23 Other Hand Crews

24

- 25 Policy
- 26 All crews must meet minimum crew standards as defined in appendix T as well
- 27 as any additional agency, state, or contractual requirements. Typing will be
- ²⁸ identified at the local level with notification made to the local GACC.

29

30 Crew Types 31 • Agency Crews

- Agency hand crews consist of qualified agency personnel and are organized on a local basis. These crews are designated as Type 2 or Type 2 IA.
- 34 State Crews
- 35 State crews are organized under the auspices of individual states. These
- crews may be designated as Type 1, Type 2, or Type 2 IA. These crews
- ³⁷ include organized state inmate crews.

38 • Emergency Firefighter Crews (EFF)

- These crews are usually Type 2 crews consisting of agency sponsored on call personnel who meet the requirements for Type 2 IA or Type 2 as
- 41 defined in appendix T.

42 • Contract Crews

- 43 These organized crews consist of personnel trained, equipped, and certified
- 44 by a private contractor and must meet the contractual specifications as
- 45 stated in their state or national crew contracts.

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1	
2	
3	
4	Wildland Fire Modules
5	Information on wildland fire modules can be found at:
6 7	http://www.nwcg.gov/pms/pubs/pubs317/PMS-317.pdf.
8	• NPS - The primary mission and priority of the modules is to provide skilled
9	and mobile personnel to assist with Wildland Fire Managed for Multiple
10	<i>Objectives in the areas of planning, fire behavior monitoring, ignition, and</i>
11	holding. Secondary priorities follow in the order below:
12	Support burn unit preparation.
13	Assist with fire effect plot work.
14	Support mechanical hazardous fuel reduction projects.
15	• NPS - As an interagency resource, the modules are available nationally
16	throughout the fire season. Each module is comprised of a module leader,
17	assistant leader and three to eight module members. Modules are
18	mobilized and demobilized through established ordering channels through
19	the GACCs.
20	
21	Agency Certified Positions
22	
23 24	As a supplement to the qualifications system, certain agencies have identified the additional positions of Prescribed Fire Burn Boss 3 (RXB3) - see Chapter
24 25	17; Engine Operator (ENOP) - see Chapter 2; and Chainsaw Operators and
26	Fallers listed below.
20	• <i>FWS</i> - See the Fire Management Handbook for agency specific position
28	information.
29	J
30	Chainsaw Operators and Fallers
31	The agencies have established the following minimum qualification and
32	certification process for Chainsaw Operators (Incident Qualification Card
33	certified as Faller A):
34	• Agency employees who are chainsaw operators and fallers must be
35	minimally qualified as a FFT2 and meet the arduous fitness standards.
36	• Successful completion of S-212, including the field exercise, or those
37	portions of S-212 appropriate for Faller A duties.
38	• Agency administrator (or delegate) certification of qualifications after
39	verification that training is successfully completed.
40	• Documentation must be maintained for individuals.
41	• The individual tasks required for completion of the "A" Task Book and the
42	final evaluation for the "A" level saw operators must be verified or signed
43	by a qualified "B" or "C" level saw operator.

- 43 by a qualified "B" or "C" level saw operator.
- The individual tasks required for completion of the "B" Task Book must be
 evaluated by a qualified "B" or "C" level operator. The Final Evaluator

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1	Verification for "B" level operators must be signed by a "C" level saw	
2	operator.	
3	• The individual tasks required for completion of the "C" Task Book must b	e
4	evaluated by a qualified "C" level operator. The Final Evaluator	
5	Verification for "C" level operators must be signed by a state approved "C	,,
6	level evaluator.	
7	• Each of the states/regions will certify and maintain a list of their current "C	_ "
8	class saw operators who they approve to be "C" class evaluators.	
9	• The certification of "C" class evaluators will remain the responsibility of	
10	the agency administrator or delegate.	
11	 All fire related (Incident Qualification Carded) saw operation qualification 	S
12	are maintained through the IQCS system and will have a currency of five	
13	years.	
14	• BLM/NPS/FWS - Position task book found at:	
15	http://www.nwcg.gov/pms/taskbook-agency/index.htm	
16	• FWS - See the Fire Management Handbook for additional direction.	
17	Information regarding FWS required annual chainsaw refresher can be	
18	found at: http://sharepoint.fws.net/Programs/nifc/operations/default.aspx.	
19	• FS - FS direction can be found in FSH 5109.17 and FSH 6709.11.	
20	• NPS - Exceptions to the above policy are:	
21	Size classes used in the Faller A, Faller B, and Faller C Position Task	5
22	Book are guidelines and are not the determining factor in the	
23	complexity of a tree felling operation. The size classes are to be used a	
24	an evaluation tool during trainee evaluation. Chainsaw operators are	?
25	expected to conduct a thorough size up of each individual tree and	
26	determine the extent of qualification required to safely perform a	
27	felling operation.	
28	The individual tasks required for completion of the "B" Task Book an	
29	the final evaluation for the Class "B" saw operations must be verified	[
30	by a qualified Class "B" or "C" saw operator.	
31	The individual tasks required for completion of the "C" Task Book	
32	must be verified by a qualified "C" level operator.	
33	Final evaluation of "C" level operators must be completed by a	
34	regionally-approved "C" level evaluator.	

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FIREFIGHTING EQUIPMENT CHAPTER 14 Chapter 14 1 **Firefighting Equipment** 2 3 Introduction 4 5 The agency wildland fire program equipment resources include engines, dozers, 6 water tenders, and other motorized equipment for fire operations. 7 8 9 Policy 10 Each state/region will comply with established standards for training, 11 equipment, communications, organization, and operating procedures required to 12 effectively perform arduous duties in multi-agency environments and various 13 geographic areas. 14 15 Approved foam concentrate may be used to improve the efficiency of water, 16 except near waterways where accidental spillage or over spray of the chemical 17 could be harmful to the aquatic ecosystem, or other identified resource concerns. 1819 **Firefighting Engines** 20 21 **Operational Procedures** 22 All engines will be equipped, operated, and maintained within guidelines 23 established by the Department of Transportation (DOT), regional/state/local 24 operating plans, and procedures outlined in BLM Manual H-9216, Fire 25 Equipment and Supply Management, or agency equivalent. All personnel 26 assigned to agency fire engines will meet all gear weight, cube, and manifest 27 requirements specified in the National Mobilization Guide. 28 29 **Fire Engine Staffing** 30 An ENGB will be with every engine, and the minimum staffing is two 31 individuals for Type 4, 5, 6, 7, engines. 32 33 For Type 3 engines, minimum staffing is three individuals, including an Engine 34 35 Boss. • **BLM** - For BLM engine staffing requirements see Chapter 2. 36 FWS - Minimum staffing for Type, 6 and 7 engines (on Refuge lands) is one 37 . ENOP and one FFT2. A minimum of one ICT5 must be available on the 38 engine crew. 39

- 40 **NPS -** For NPS engine staffing requirements see Chapter 3.
- 41 > FS A Single Resource Boss may supervise a type 6 or 7 engine.

42

43 44

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1 Engine Typing

- 2 Engine Typing and respective standards are identified in the NWCG Fireline
- 3 Handbook, 410-1.
- FS See http://www.fs.fed.us/fire/equipment/engine-models/models.html for
 description of Forest Service national engine standards.

6 D···

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
- *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

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- 1 Speed Limits
- 2 Posted speed limits will not be exceeded.

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

41 Water Tenders

42

40

43 Water Tender Staffing Standards

44

45 Water Tender (Non-Tactical) Release Date: January 2011

- Qualifications: CDL (tank endorsement). .
- Staffing: A water tender (non-tactical) may be staffed with a crew of one .
- driver/operator when it is used in a support role as a fire engine refill unit or 3
- for dust abatement. These operators do not have to pass the Work Capacity 4
 - Test (WCT) but are required to take annual refresher training.

2

Water Tender (Tactical) 7

Tactical use is defined as "direct fire suppression missions such as pumping 8 hoselays, live reel use, running attack, and use of spray bars and monitors to 9 suppress fires." 10

- . Qualifications: ENOP, CDL (tank endorsement) 11
- Staffing: Tactical water tenders will carry a minimum crew of two: • 12
- ≻ One ENOP 13
 - One Engine Module Member ≽

14 15

Dozers/Tractor Plows 16

17

Dozer/Tractor Plow Training and Qualifications 18

- Agency personnel assigned as dozer/tractor plow operators will meet the 19
- training standards for a Firefighter 2 (FFT2). This includes all safety and annual 20
- refresher training. While on fire assignments, all operators and support crew 21
- will meet PPE requirements including the use of aramid fiber clothing, hard 22
- hats, fire shelters, boots, etc. 23

24

Dozer/Tractor Plow Physical Fitness Standards 25

- **BLM/NPS** All employee dozer/tractor plow operators will meet the WCT 26 .
- requirements at the Moderate level before accepting fire assignments. 27
- FWS See the Fire Management Handbook 28 .
- FS - FS dozer operators refer to FSM 5134.32. 29

30

Dozer/Tractor Plow Operational Procedures 31

- Agency owned and operated dozer/tractor plows will be equipped with 32
- programmable two-way radios, configured to allow the operator to monitor 33 radio traffic. 34
- Agency dozer/tractor plows with non-red carded operators and all contract 35 dozer/tractor plows will have agency supplied supervision when assigned to 36 any suppression operations. 37
- 38 •
- Contract or offer-for-hire dozers must also be provided with radio communications, either through a qualified dozer/tractor plow boss or an 39
- agency-supplied radio. Contract dozer/tractor plows will meet the 40 specifications identified in their agreement/contract. 41
- Operators of dozer/tractor plows and transport equipment will meet DOT 42
- certifications and requirements regarding the use and movement of heavy 43

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equipment, including driving limitations, CDL requirements, and pilot car 1 2 use. 3 All Terrain Vehicles (ATV)/Utility-Terrain Vehicles (UTV) 4 5 The operation of ATV/UTV can be high risk. The use of ATV/UTVs should be 6 evaluated to ensure that use is essential to accomplish the mission, rather than for convenience. 8 9 Because of the high risk nature, agencies have developed specific operational 10 policy (refer to current agency policy). Common policy requirements for 11 wildland fire operations are highlighted below: 12 A JHA/RA must be completed and approved by the supervisor prior to 13 vehicle operation. 14 All personnel authorized to operate an ATV/UTV must first complete 15 • agency specific or manufacturer-provided training in safe operating 16 procedures and appropriate PPE. 17 Re-evaluation/Re-certification - Operators shall be re-evaluated every three . 18 years. Infrequent users (less than 16 hours of riding a year) shall have a 19 check ride prior to scheduled use of an ATV/UTV. 20 Specific authorization for ATV/UTV use is required -- all ATV/UTV 21 . operations must hold a valid Motor Vehicle Operator's Identification Card, 22 OF-346 or agency equivalent. 23 ATVs can only have a single rider - passengers are prohibited even if ATV 24 • is designed for two riders. 25 UTVs passengers are limited to the number of seats installed by 26 • manufacturer. The operator and passenger(s) must use seatbelts while the 27 vehicle is in motion. 28 Operators must use required PPE while loading/unloading ATV/UTV. . 29 Cargo loads shall be loaded and secured as to not affect the vehicle's center 30 • of gravity and shall not exceed manufacturer's recommendations for 31 maximum carrying capacity. 32 When transporting external fuel containers with a UTV, a 5 lb class BC fire 33 . extinguisher must be secured to the UTV. 34 35 **Required PPE includes:** 36 ATV Head Protection for Wildland Fire Operations: 37 ATV Helmets must meet Snell SA2005 or SA2010 certification. . 38 A ³/₄ face model meeting Snell SA2005 or SA2010 certification is 39 \geq acceptable for use. 40 Use of half "shorty" helmets requires a JHA/RA for fireline use and ≻ 41 must include justification for its use. Refer to MTDC Tech Tip 42 publication, A Helmet for ATV Operators with Fireline Duties (0651-43 2350-MTDC). 44 **Release Date: January 2011** 14-5

CHAPTER 14	FIREFIGHTING EQUIPMENT
• UTV Head Protection – Helmet	s must meet DOT_ANSI Z90 1: or Snell
	s and smooth travel surfaces, administrative
	ident base camps) UTV operators are not
	• • •
	oved Rollover Protection System (ROPS),
1 1 11 11	······································
	nd properly prepared RA of the specific
	more than a medium residual risk level,
	TPA 1977 or ANSI Z 89.1 standards may be
	e required for UTV operations that are
	high (red) using the "ORV Risk Assessment
	Off-Highway Vehicle Policy
	NFPA 1977 or ANSI Z 89.1 standards may
	se) – Helmets must have Snell SA
	hats while driving or riding on a UTV is not
allowed.	
• Eye protection (goggles, face sł	ield, or safety glasses) based upon JHA/RA.
	ed for a UTV equipped with an original
manufacturer windshield th	at protects the face from branches, flying
	e required by an associated industrial use
activity or JHA/RA.	
• If operating ATV/UTV on the f	ireline, the following are required:
 Leather or leather/flame res 	sistant combination gloves. Flight gloves are
not approved for fireline us	e.
Yellow aramid shirt	
Aramid trousers	
Wildland fire boots	
 Wildland fire boots FS- Shirt, trousers, and global 	wes used by USFS personnel must meet
 Wildland fire boots FS- Shirt, trousers, and glo Forest Service specification 	n 5100-91 (shirt), 5100-92 (trousers), and
 Wildland fire boots FS- Shirt, trousers, and gle Forest Service specification 6170-5 (gloves) or be certij 	1 5100-91 (shirt), 5100-92 (trousers), and fied to the National Fire Protection
 Wildland fire boots FS- Shirt, trousers, and gle Forest Service specification 6170-5 (gloves) or be certij Association (NFPA) 1977, 	n 5100-91(shirt), 5100-92 (trousers), and fied to the National Fire Protection Standard on Protective Clothing and
 Wildland fire boots FS- Shirt, trousers, and gle Forest Service specification 6170-5 (gloves) or be certij Association (NFPA) 1977, Equipment for Wildland Fi 	n 5100-91(shirt), 5100-92 (trousers), and fied to the National Fire Protection Standard on Protective Clothing and re Fighting.
 Wildland fire boots FS- Shirt, trousers, and gle Forest Service specification 6170-5 (gloves) or be certij Association (NFPA) 1977, Equipment for Wildland Fi ATV/UTV operator shall carry 	n 5100-91(shirt), 5100-92 (trousers), and fied to the National Fire Protection Standard on Protective Clothing and re Fighting. a personal communication device (e.g. two-
 Wildland fire boots FS- Shirt, trousers, and gle Forest Service specification 6170-5 (gloves) or be certij Association (NFPA) 1977, Equipment for Wildland Fi 	n 5100-91(shirt), 5100-92 (trousers), and fied to the National Fire Protection Standard on Protective Clothing and re Fighting. a personal communication device (e.g. two-
 Wildland fire boots FS- Shirt, trousers, and gle Forest Service specification 6170-5 (gloves) or be certij Association (NFPA) 1977, Equipment for Wildland Fi ATV/UTV operator shall carry way radio, cellular phone, or sa 	n 5100-91(shirt), 5100-92 (trousers), and fied to the National Fire Protection Standard on Protective Clothing and re Fighting. a personal communication device (e.g. two- tellite phone).
 Wildland fire boots FS- Shirt, trousers, and gle Forest Service specification 6170-5 (gloves) or be certi, Association (NFPA) 1977, Equipment for Wildland Fi ATV/UTV operator shall carry way radio, cellular phone, or sa All other ATV/UTV specific guidant 	n 5100-91(shirt), 5100-92 (trousers), and fied to the National Fire Protection Standard on Protective Clothing and re Fighting. a personal communication device (e.g. two-
 Wildland fire boots FS- Shirt, trousers, and gle Forest Service specification 6170-5 (gloves) or be certi, Association (NFPA) 1977, Equipment for Wildland Fi ATV/UTV operator shall carry way radio, cellular phone, or sa All other ATV/UTV specific guidant policy: 	n 5100-91(shirt), 5100-92 (trousers), and fied to the National Fire Protection Standard on Protective Clothing and re Fighting. a personal communication device (e.g. two- tellite phone).
	 UTV Head Protection – Helmett SA2005 or SA2010 unless: UTV is used for low speeds use (e.g., campgrounds, increquired to wear hardhats o <i>FWS- Refer to 243 FW 6.</i> UTV is equipped with apprand: <i>BLM – A comprehensive au conditions demonstrates not then a hard hat meeting NF worn with chin straps securies NPS - Approved helmets an rated moderate (amber) or Tool" included in the NPS</i> <i>FWS- A hard hat meeting I be worn with chin straps sec</i> <i>FS- UTV Helmet (for fire u certification. Wearing hard allowed.</i> Eye protection (goggles, face shift be gotted on the debris, etc., unless otherwise activity or JHA/RA. If operating ATV/UTV on the fift be Leather or leather/flame rest not approved for fireline us Yellow aramid shirt

43 http://web.blm.gov/internal/wo-700/wo740/policy.html

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- 1 FWS Employees may only get an exception to PPE requirements with
- 2 concurrence 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
- or increases the health and safety risks of operators or passengers. The
 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.

12 Vehicle Cleaning/Noxious Weed Prevention

13

11

- 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

25 Incident Remote Automated Weather Stations

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
- *Handbook, chapter 14.*

40 41

Aerial Ignition Devices

42

- 43 Information on types of aerial ignition devices, operational guidelines and
- ⁴⁴ personnel qualifications may be found in the *Interagency Aerial Ignition Guide*.

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1 Ground Ignition Devices

2

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- 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.nwcg.gov/pms/pubs/442/pms442.pdf
- 7 **FS** direction is found in FSH 5109.32a and 6709.11.

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COMMUNICATIONS

Chapter 15 Communications	
Policy	
 Agency specific policies for radio communications may be found in Department of Interior, Department Manual, Radio Communic Handbook (377 DM). USDA Forest Service Handbook (FSH 6609.14 chapters 10-40 Service Manual (FSM) 6600 Systems Management Chapter 66 Telecommunications. 	cations) and Forest
Dispatch Recording Devices	
 Recording of phone calls without all party's prior knowledge and corpermitted. Recording of radio traffic is appropriate. <i>BLM – Radio recording devices will be used by BLM dispatch of any interagency office dispatching BLM resources.</i> 	
Cellular/Satellite Phone Communications	
Cellular/satellite telephones will not be used to communicate tactica operational traffic unless no other means are available. Cellular/sate telephones will not be used for flight following in lieu of normal flig procedures. Telephone communications may be used for logistical p	llite ght following
Radio Communications	
Radio communications provide for the flow of tactical information r the command/control of personnel and resources.	needed for
Radio Contracts	
 For information on contracts, software, hardware requirements and a radios, contact your agency Telecommunications Department or the Communications Duty Officer at (208) 387-5644. <i>BLM - For information on BLM contracts, software, and hardwarequirements and approved radios, contact the National Radio Communications Division (NRCD) at (208) 387-5830.</i> 	NIFC
Radio Frequency Management	
FM frequencies are authorized and assigned by the designated Wash	nington

44 Office frequency manager and managed by the state and local Communications45 Officers.

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- Frequencies shall not be used without express permission from the local, state,
- ² regional, or national level designated frequency management personnel.

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
- management. Additional information may be found in the *National Interagency Mobilization Guide*.
- 37 Type1 and 2 incident frequencies are assigned by the NIFC CDO and are
- 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
- 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 incident44 personnel.

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- 1 Type 3 incidents, or other incidents that do not have an assigned COML,
- will coordinate and request all frequency and communication equipment
- needs through the COMC and/or the NIFC CDO.

5 If additional frequencies are required, the COML will order them through the 6 established ordering process.

7

2

3

- 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:
- The NIICD national frequencies are all committed within a specific
 geographic area.
- New incidents within a specific complex create a need for additional
 frequencies.
- 15 The fire danger rating is extreme and the potential for additional new incidents is high.
- When there is frequency congestion due to significant numbers of incidents
 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
- responsibility of the GACC and may be allocated to zones. Frequencies
- allocated to zones for initial attack are not to be dedicated for project fire
- use. If additional frequencies are required, they must be requested from andassigned by the NIFC CDO.
- 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.
- 34 GA(35
- 36 Pre-assigned National Frequencies
- 37
- 38 National Air Guard Frequency
- 39 168.6250 MHz
- 40 A National Interagency Air Guard frequency for aircraft will be used for
- 41 emergency aviation communications. Continuous monitoring of this frequency
- 42 in narrowband mode is mandatory by agency dispatch centers. Transmission on
- 43 this frequency must include the Continuous Tone Coded Squelch System
- 44 (CTCSS) tone of 110.9 Hz.
- 45

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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.
- Initial call, recall, and re-direction of aircraft when no other contact
 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 fight 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

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- 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
- ²²²³ 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.

25

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
- red-sealed equipment may be moved, but only upon approval of the NUFC CDOor COMC.

36

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 1 **Aviation Operations and Resources** 2 3 **Purpose and Scope** 4 5 Aviation resources are one of a number of tools available to accomplish fire 6 related land management objectives. 7 8 Aviation use must be prioritized based on management objectives and 9 probability of success. 10 11 The effect of aviation resources on a fire is directly proportional to the speed at 12 which the resource(s) can initially engage the fire, the effective capacity of the 13 aircraft, and the deployment of ground resources. 14 15 These factors are magnified by flexibility in prioritization, mobility, positioning, 16 and utilization of the versatility of many types of aircraft. 17 18 Risk management is a necessary requirement for the use of any aviation 19 resource. The risk management process must include risk to ground resources, 20 and the risk of not performing the mission, as well as the risk to the aircrew. 21 22 23 **Organizational Responsibilities** 24 **National Office** 25 26 DOI 27 Aviation Management Directorate (AMD) 28 The Aviation Management Directorate of the National Business Center is 29 responsible for the coordination of aviation policy development, aircraft 30 acquisition, financial services, and maintenance management within the 31 agencies of the Department of the Interior (DOI). AMD has no operational 32 responsibility. AMD provides aviation safety program oversight, accident 33 investigation, and inspection/approval of aircraft and pilots for DOI agencies. 34 35 **Bureau of Land Management (BLM)** 36 National Aviation Office (NAO) - NAO develops BLM policy, procedures, and 37 standards. It also maintains functional oversight, and facilitates interagency 38 coordination for all aviation activities. The principal goals are safety and cost-39 effectiveness. The NAO supports BLM aviation activities and missions. This 40 includes fire suppression, through strategic program guidance, managing 41 aviation programs of national scope, coordination with AMD, and interagency 42 partners. The Fire and Aviation Directorate has the responsibility and authority, 43 after consultation with State FMOs, for funding and acquisition of all fire 44 aircraft, prioritizing the allocation of BLM aircraft on a Bureau wide basis, and 45 approving State Office requests to acquire supplemental aircraft resources. 46

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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.)

³⁴ 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

BLM - State FMOs are responsible for providing oversight for aircraft • 29 hosted in their state. State FMOs have the authority and responsibility to 30 approve, with National Office concurrence, acquisition of supplemental 31 aircraft resources within their state. State FMOs have the authority to 32 prioritize the allocation, pre-positioning and movement of all aircraft 33 assigned to the BLM within their state. State Offices will coordinate with 34 the National Office on movement of their aircraft outside of their State. A 35 State Aviation Manager (SAM) is located in each state office. SAMs are 36 37 delegated as the Contracting Officers Representative (COR) for all exclusive use aircraft hosted by their state. SAMs implement aviation 38 program objectives and directives to support the agency mission and state 39 objectives. A state aviation plan is required to outline the state aviation 40 program objectives and to identify state specific policy and procedures. 41 **NPS/FWS** - A Regional Aviation Manager (RAM) is located in each 42 . regional office. RAMs implement aviation program objectives and 43 directives to support the agency mission and region objectives. Several 44 regions have additional support staff, and/or pilots assigned to support 45 aircraft operations and to provide technical expertise. A regional aviation 46 16-2 Release Date: January 2011

- 1 operations and management plan is required to outline the region's
- aviation program objectives and to identify region-specific policy and
 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.
- 17

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.
- **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
- 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)
- 35

36 Aviation Information Resources

37

Aviation reference guides and aids for agency aviation management are listedfor policy, guidance, and specific procedural requirements.

- BLM 9400 Manual Appendix 1, National Aviation Plan, State and Unit
 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.
- NPS RM-60 Aviation Management Reference Manual and IHOG & IASG. Release Date: January 2011 16-3

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- FS FSM 5700, FSH 5709.16 and applicable aviation guides as referenced
 in policy.
- 3

4 Safety alerts, operational alerts, instruction memoranda, information bulletins,

5 incident reports, and other guidance or information are issued as needed.

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.

9 of 10

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
- 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

32

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.

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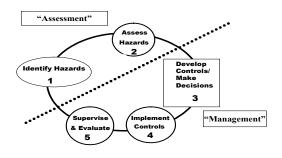
AVIATION OPERATIONS & RESOURCES

- 1 Develop controls to mitigate or remove risk, and make decisions based on
- 2 accepting the least risk for the best benefit.
- Implement controls (1) education controls, (2) physical controls, and (3)
 avoidance controls.
 - Supervise and Evaluate enforce standards and continuously re-evaluate
 - their effectiveness in reducing or removing risk. Ensure that controls are
- 7 communicated, implemented, and enforced.
- 8

5

6

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.
- Environmental conditions make the work unsafe.
- 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 52*IRPG*).
- 32

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- 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
- concerns within the incident organization.

9

- 8 If the assignment has been turned down previously and the supervisor asks
- 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
- 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

16-6

- 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.

- 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)

26

27 Aerial Applications of Wildland Fire Chemical Safety

- 28 Chapter 12 contains information concerning the aerial application of wildland
- 29 fire chemicals.

30

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.

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- 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.

13 Aircraft Incidents/Accidents

14

12

- 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

20 Low-level Flight Operations

21

27

The only fixed-wing aircraft missions authorized for low-level fire operationsare:

- 24 Para-cargo.
- 25 Aerial Supervision Module (ASM) and Lead/ATCO operations.
- e Retardant, water and foam application.

28 **Operational Procedures:**

- 29 A high-level recon will be made prior to low-level flight operations.
- 30 All flights below 500 feet will be contained to the area of operation.
- 31 PPE is required for all fixed-wing, low-level flights. Helmets are not
- 32 required for multi-engine airtanker crews, smokejumper pilots and ASM
- 33 flight/aircrew members.

34

35 Congested Area Flight Operations

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
- the city, rural fire department, county, state, or federal fire suppression
- 43 agency.
- 44 An ASM/Lead/ATCO is ordered to coordinate aerial operations.

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AVIATION OPERATIONS & RESOURCES

- The air traffic control facility responsible for the airspace is notified prior to
- or as soon as possible after the beginning of the operation. 2
- A positive communication link must be established between the aerial . 3
- supervision module ASM or Lead/ATCO, airtanker pilot(s), and the 4 responsible fire suppression agency official.
- 5
- The IC for the responsible fire agency or designee will advise the 6 . 7
- ASM/leadplane/airtanker that all non-essential people and movable property
- have been cleared prior to commencing retardant drops. 8

Airspace Coordination 10

11

9

1

- The Interagency Airspace Program is an aviation safety program designed to 12
- enhance aviation safety and reduce the risk of a mid-air collision. Guidance for 13
- this program is found in the Interagency Airspace Coordination Guide (IACG), 14
- which has been adopted as policy by the DOI and FS. Additional guidance may 15
- be found in the National Interagency Mobilization Guide and supplemented by 16
- local Mobilization Guides. 17
- www.airspacecoordination.net or http://airspace.nifc.gov/ 18

19

- All firefighting aircraft are required to have operative transponders and will use 20
- a transponder code of 1255 when engaged in, or traveling to, firefighting 21
- operations (excluding ferry flights), unless given a discrete code by Air Traffic 22
- Control (ATC). 23

24

- Flight planning and Temporary Flight Restriction (TFR) information on World 25
- Aeronautical, Sectional and Global Navigational Charts has been made available 26
- at the National Interagency Airspace System website http://airspace.nifc.gov. A 27
- tactical chart with TFR specific information with incident names, frequencies 28
- 29 and altitudes are available. These charts can be found at
- http://airspace.nifc.gov/mapping/nifc/index.cfm 30
- Additional references can be found by contacting: 31
- BLM State Aviation Managers, National Airspace Program Manager 32 •
- **NPS -** Regional Aviation Managers • 33
- FS Regional Aviation Officers 34 •
- 35 • FWS - National Aviation Safety and Operations
- 36 37
- **Flight Request and Approval**
- BLM Reference the BLM National Aviation Plan, Chapter 3, available at: . 38
- http://www.blm.gov/style/medialib/blm/nifc/aviation/administration.Par.394 39 84.File.dat/NAP.pdf 40
- NPS Reference RM 60, Appendix 3 & 4. 41 .
- 42 . FS - Refer to FSM 5711.3 for administrative use, FSM 5705 for point-to-
- point and mission use for types of FS flights. 43
- 44
- 45

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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.
- A point-to point flight shall be conducted higher than 500 feet above ground
 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
- level of mission assigned as set forth in the *Interagency Aviation Training Guide*(IAT).
- BLM Reference the BLM National Aviation Plan, Chapter 3, available at:
 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.

22

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, borree herding)
- 29 horse herding).

16-10

- 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:
- $34 \rightarrow$ 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
- are dependent on the type of flight, the function an individual is performing,
 or the ground operation being conducted. Refer to the tables in Chapter 9 of
- 40 the IHOG for specific requirements.
- All personnel will meet training and qualification standards required for the
 mission.
- 43 Agency FM radio capability is required for all mission flights.
- All passengers must be authorized and all personnel onboard must be
 essential to the mission.

- 1 Mission flights for fixed-wing aircraft include but are not limited to the
- 2 following:
- 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,
- obstacles, or surface conditions
- 7 8
- 9 Mission helicopter flights include but are not limited to the following:
- 10 Flights conducted within 500 feet AGL
- 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
- 20

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
- 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
- the *National Interagency Mobilization Guide* for more information.
- All dispatch centers designated for fire support shall have the ability to monitor AFF as well as the capability to transmit and receive "National
- 34 Flight Following" and "Air Guard"
- If AFF becomes inoperable the aircraft will normally remain available for
 service, utilizing radio/voice system for flight following. Each occurrence
- must be evaluated individually and decided by the COR/CO.
- **Helicopters conducting Mission Flights shall check-in prior to and**
- ³⁹ immediately after each takeoff/landing per IHOG 4.II.E.2
- 40

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

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- 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.

- 8 **Exception:** When conducting firefighting missions within 5 miles of an
- 9 uncontrolled airport, maintain sterile cockpit until departing the traffic pattern
- 10 and reaching final altitude. Monitor CTAF frequency if feasible while engaged
- 11 in firefighting activities. Monitor CTAF as soon as practical upon leaving the
- 12 fire and returning to the uncontrolled airport. When conducting firefighting
- 13 missions within Class B, C, or D airspace, notify dispatch that ATC
- 14 communications will have priority over dispatch communications.

15

16 Interagency Interim Flight and Duty Limitations

17

- 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
- Maximum cumulative flight hours of thirty-six (36) hours, up to forty-two
 (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.
- 32

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
- 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,

16-12

for broader scope implementations, by National Aviation Management through
 NIFC.

3

4 Phase 2 - Interim Duty Limitations

5 When Phase 2 is activated, pilots shall adhere to the flight and day-off

limitations prescribed in Phase 1 and the duty limitations defined under Phase 2.

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

aircraft crews that work a rotating schedule, i.e., two (2) days on, one (1) day

 $\frac{1}{2}$ affer an $\frac{1}{2}$ days on, one (1) day

off, seven (7) days on, seven (7) days off, or twelve (12) days on, twelve (12)
days off, may be exempted from Phase 2 Limitations upon verification that their

so days off, may be exempted from that 2 Elimitations upon vermeation that the 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

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CHAPTER	1	6	
CHALLER	1	v	

Av	iation Assets
(A'	pical agency aviation assets include: Helitack or Rappel, Aerial Supervision TGS, Lead, and ASM), Large (multi-engine) Airtankers, Single Engine
All	tankers, and Smokejumpers.
•	BLM - All BLM acquired aircraft, exclusive use On-Call, CWN and,
	Variable Term, are available to move to areas of greatest Bureau need,
	thereby maximizing efficiency and effectiveness. Specific authorities and
	responsibilities for Field/State and National Offices are outlined earlier in this chapter. Offices are expected to adhere to procedures established in
	the National Aviation Plan for both acquisition and use reporting.
	the National Aviation 1 tan for both acquisition and use reporting.
He	litack
	litack crews perform suppression and support operations to accomplish fire
and	l resource management objectives.
Or	ganization - Crew Size
•	BLM - The standard BLM exclusive-use helitack crew size for a type 3
	helicopter is a minimum of seven personnel (PFT supervisor, long-term
	assistant, long-term squad boss and four temporaries). The standard BLM
	exclusive-use helitack crew size for a type 2 helicopter is a minimum of ten
	personnel (PFT supervisor, long-term assistant, long-term squad boss and
	seven temporaries). BLM helicopters operated in Alaska need only be
	staffed with a qualified Helicopter Manager (HMGB). Exceptions to these minimum crew staffing standards must be exempted by the National
	Aviation Office.
_	NPS - Helicopter Exclusive Use modules will consist of a minimum of 8 fire
•	funded personnel. The NPS regions may establish larger crew size and
	standards for their exclusive use helicopter crews based on the need for an
	all hazard component (Fire, SAR, Law Enforcement, and EMT). Exception
	to minimum helicopter crew staffing standards must be approved by the
	National Aviation Office.
•	FS - Regions may establish minimum crew size and standards for their
-	exclusive use helitack crews. Experience requirements for exclusive-use
	helicopter positions are listed in FSH 5109.17, Chapter 40.
On	erational Procedures
	e Interagency Helicopter Operations Guide (IHOG) NFES 1885 is policy for
	icopter operations.
Co	mmunication
Th	e helitack crew standard is one handheld programmable multi-channel FM

- 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
- radio in the primary helitack crew (chase) truck. Each helitack crew (chase)
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AVIATION OPERATIONS & RESOURCES

- vehicle will have a programmable VHF-FM mobile radio. Each permanent 1
- helibase will have a permanent programmable FM radio base station and should 2
- be provided a VHF-AM base station radio. 3

4

Transportation 5

- Dedicated vehicles with adequate storage and security will be provided for 6
- helitack crews. The required Gross Vehicle Weight (GVW) of the vehicle will 7
- be dependent upon the volume of equipment carried on the truck and the number 8 of helitack crewmembers assigned to the crew. 9
- BLM Minimum vehicle configuration for a seven person crew will consist • 10
- of one Class 661 Helitack Support Vehicle and one Class 156, 6-Pack 11
- pickup or Class 166 carryall. 12

13

14 Training and Experience Requirements

- 15 All helitack members will meet fire qualifications as prescribed by the National
- Wildfire Coordinating Group (NWCG) 310-1 and their agency manual 16
- requirements. The following chart establishes experience and training 17
- requirements for FS, BLM, NPS, and FWS Exclusive Use, Fire Helicopter Crew 18 Positions.

19

- 20
- Non-Exclusive Use HECM's and HMGB's should also meet the following 21
- 22 currency requirements.

23

E	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.

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- ¹ ² Minimum experience and qualifications required prior to performing in the
- 2 Exclusive use position. Each level must have met the experience requirements of3 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.
- FS- 5109.17_27.1 requires biennial attendance after certification for the
 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.
- Fire Helicopter Managers (HMGB) are fully qualified to perform all the
 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.

- BLM BLM personnel involved in an Interagency Rappel Program must 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

16-16

crews, the efficiency of chemical delivery, and the effectiveness of the firechemical.

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.
- Policy dictates additional aerial supervision requirements which are referenced
- 8 in the Interagency Aerial Supervision Guide (NFES 2544).
- 10 Air Tactical Group Supervisor (ATGS)

11

9

- 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**

- Relief aerial supervision should be ordered for sustained operations to
 ensure continuous coverage over an incident.
- Personnel who are performing aerial reconnaissance and detection will not
 perform aerial supervision duties unless they are fully qualified as an
- 27 ATGS.
- Air tactical aircraft must meet the avionics typing requirements listed in the
 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
- carded for air tactical missions.
- 32 Ground resources will maintain consistent communication with Aerial
- Supervision in order to maximize the safety, effectiveness, and efficiency ofaerial operations.

35

36 Leadplane

37

- A leadplane is a national resource. The *Interagency Aerial Supervision Guide* is
 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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1 Aerial Supervision Module (ASM)

- 2 3
- The Aerial Supervision Module is crewed with both a Lead/ATCO qualified Air
- ⁴ Tactical Pilot (ATP) and an Air Tactical Supervisor (ATS). These individuals
- 5 are specifically trained to operate together as a team. The resource is primarily

6 designed for providing both functions (Lead/ATCO and Air Attack)

7 simultaneously from the same aircraft, but can also provide single role service,

8 as well.

9

10 The Air Tactical Pilot is primarily responsible for aircraft coordination over the 11 incident. The ATS develops strategy in conjunction with the Operations Section

12 Chief.

- 13 **BLM** The Interagency Aerial Supervision Guide is policy for BLM. The
- 14 Interagency Aerial Supervision Guide is available online at
- 15 http://www.blm.gov/nifc/st/en/prog/fire/Aviation/aerial_supervision.html

16

17 **Operational Considerations**

18 The ASM is a shared national resource. Any operation that limits the national

- 19 resource status must be approved by the agency program manager. Aerial or
- 20 incident complexity and environmental considerations will dictate when the
- 21 ASM ceases low level operations. The ASM flight crew has the responsibility
- 22 to determine when the complexity level of the incident exceeds the capability to
- 23 perform both ATGS and leadplane functions from one aircraft. The crew will
- 24 request additional supervision resources, or modify the operation to maintain
- 25 mission safety and efficiency.

26

27 Policy

- 28 Only those individuals certified and authorized by the BLM National Aviation
- 29 Office, or the FS National Aviation Operations Officer, will function as an Air
- 30 Tactical Supervisor (ATS) in an ASM mission profile.

31

- 32 Aerial Supervision Module Program Training and Qualifications
- 33 Training and qualification requirements for ASM crewmembers are defined in
- 34 the Interagency Aerial Supervision Guide (NFES 2544).

3536 Reconnaissance or Patrol flights

37

- 38 The purpose of aerial reconnaissance or detection flights is to locate and relay
- ³⁹ fire information to fire management. In addition to detecting, mapping and
- 40 sizing up new fires, this resource may be utilized to provide ground resources
- 41 with intelligence on fire behavior, provide recommendations to the IC when
- 42 appropriate, and describe access routes into and out of fire areas for responding
- 43 units. Only qualified Aerial Supervisors (ATGS, ASM, HLCO and
- 44 Lead/ATCO) are authorized to coordinate incident airspace operations and give
- 45 direction to aviation assets. Flights with a "Recon, Detection or Patrol"

16-18

designation should communicate with tactical aircraft only to announce location,
 altitude and to relay their departure direction and altitude from the incident.

2 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

- Airtankers are operated by commercial vendors in accordance with FAR Part137. The management of Large Airtankers is governed by:
- BLM The requirements of the DM and BLM Manual 9400
- **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
- 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

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1 Single Engine Airtankers

- 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

2

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

- The *Interagency Smokejumper Pilot Operations Guide (ISPOG)* serves as policy
 for smokejumper pilots' qualifications, training and operations.
- ³⁴ for smokejumper pilots qualifications, training and operations

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

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Chapter 17 1 **Fuels Management** 2 3 Introduction 4 5 The purpose of the Hazardous Fuels Reduction (HFR) programs within the 6 Department of the Interior (DOI) and the Forest Service (FS) is to reduce 7 hazardous fuels (HF) and risks to human communities and improve the health of 8 the land. 9 10 The DOI and FS along with other federal, state, tribal, and local partners will 11 work to ensure effective HFR treatment efforts are collectively planned and 12 implemented. These efforts will be consistent with the direction provided in: 13 Review and Update of the 1995 Federal Wildland Fire Management Policy 14 ٠ (January 2001) 15 Guidance for Implementation of Federal Wildland Fire Management Policy 16 ٠ (February 13, 2009) 17 18 Policy 19 20 The federal fire agencies use the Interagency Prescribed Fire Planning and 21 Implementation Procedures Guide (2008) to guide prescribed fire activities. 22 This guide provides standardized procedures, specifically associated with the 23 planning and implementation of prescribed fire. 24 25 Policy, project planning and implementation priorities and standards common to 26 27 all agencies: The safety of firefighters and the public is the number one priority when 28 • 29 planning and implementing HFR treatment projects. All HFR treatment projects will support resource management objectives as . 30 identified in their agency specific Land/Resource Management Plans. 31 All HFR treatment projects will have plans that contain measurable 32 . objectives. 33 All HFR treatment projects will comply with National Environmental 34 . Policy Act (NEPA) and all other regulatory requirements. 35 All HFR management projects will be tracked and progress will be reported 36 . within required timeframes. 37 All HFR treatment projects will be monitored to determine if treatment . 38 objectives were met and to document weather, fire behavior, fuels 39 information, and smoke dispersion. Evaluation reports are to be completed 40 and maintained in the project file. 41 42 Some programmatic differences are identified in the following agency specific 43 documentation and serve as agency specific direction. 44 45 **BLM -** Refer to (IM No. OF & A 2009-014) **Release Date: January 2011** 17-1

- 1 FWS Refer to Fire Management Handbook
- 2 NPS Refer to RM 18
- 3 **FS** Refer to FSM 5140

5 Reporting HFR Accomplishment

7 The HF module of the National Fire Plan Operations and Reporting System

8 (NFPORS) is the national system for submitting proposed projects for approval,

9 tracking accomplishments of the program, reporting performance, measuring

10 accomplishments, and accountability.

11 12

4

6

2 Policy Regarding Planned HF Treatments Burned in a Wildfire

13

For DOI agencies, acres burned in a wildfire may only be reported in NFPORSas 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.

23 24

4 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).

29

30 Federal Agencies Assistance

31

- 32 Reference Section VI of the Interagency Agreement For Wildland Fire
- 33 Management among the Bureau of Land Management, Bureau of Indian Affairs,
- 34 National Park Service, Fish and Wildlife Service, of the United States
- 35 Department Of The Interior and the Forest Service of the United States
- 36 Department Of Agriculture, effective May, 2010.

37

- 38 Agencies will enter into separate agreements for personnel and other resources
- 39 provided for planning and implementation of (hazardous fuels management
- ⁴⁰ program) treatments and activities. This may or may not result in an exchange
- 41 of funds subject to the applicable statutory authority used.
- 42
- 43
- 44
- 45

17-2

1 Hazard Pay/Environmental Differential for Prescribed Fire Implementation 2 3 Current policy is that hazard pay will not be paid for any prescribed fire. Under 4 certain circumstances, hazard pay or environmental differential may be 5 warranted. Offices should contact their servicing personnel office with specific 6 questions. 7 8 **Use of Contractors for Prescribed Fire Implementation** 9 10 Agencies can contract to conduct all or part of the planning and implementation 11 12 of prescribed fire operations and/or all or part of mechanical treatments for HFR projects. 13 14 If a contractor is actively involved in igniting, holding, or mopping up an agency 15 prescribed fire, a Contracting Officer's Authorized Representative (COAR) or 16 Project Inspector (PI) will be on the site (exceptions can be made for late stage 17 mop up and patrol) to ensure that the burn objectives are being met and that the 18 terms of the contract are adhered to. The agency administrator and/or FMO will 19 determine the qualifications required for the agency representative (COAR or 20 PI). 21 22 23 Use of AD Pay Plan for the Hazardous Fuels Program 24 Refer to the DOI Administratively Determined (AD) Pay Plan for Emergency 25 Workers (Casuals) for information regarding the use of emergency workers for 26 hazardous fuel reduction projects. 27 28 Forest Service does not have this authority. 29 30 **Activation of Contingency Resources** 31 32 In the event an agency activates the contingency resources in their burn plan, 33 sending units should respond and support the requesting agency immediately, to 34 ensure that the public and firefighter safety are not compromised. 35 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

4 Introduction

6 Reviews and investigations are used by wildland fire and aviation managers to

7 assess and improve the effectiveness and safety of organizational operations.

⁸ Information (other than factual) derived from safety reviews and accident

- 9 investigations should only be used by the agency(ies) for accident prevention
- ¹⁰ and safety purposes.

11

1

23

12 Multiagency Cooperation

13

- ¹⁴ Many reviews and investigations involve cooperation between Federal, State,
- 15 County, and Municipal Agencies. To fulfill each agencies authorities, policies,
- ¹⁶ and responsibilities a multi-agency review or investigation may be necessary.

17

- ¹⁸ The Team Leader or delegating official(s) should establish cooperative
- ¹⁹ relationships with the other agencies involved in the review or investigation to
- 20 ensure policies and responsibilities are met. This may involve negotiations,
- 21 cooperative agreements, and coordination with the agency Designated Agency
- 22 Safety and Health Official (DASHO) or the agency official who signs the
- ²³ delegation of authority.

24

25 Federal Interagency Investigations

- 26 Close calls or accidents that involve interagency (USFS or DOI) personnel
- 27 and/or jurisdiction (e.g., USFS firefighter injured on FWS jurisdictional
- 28 wildland fire & vice versa) shall be reviewed or investigated cooperatively and
- 29 conducted at the appropriate level as outlined in this chapter.

30

- ³¹ Agency administrators will ensure that affected agencies are involved
- ³² throughout the review/investigation process.

33

- ³⁴ When an incident does not meet the serious accident criteria, the affected agency
- ³⁵ administrators should jointly decide what type and level of investigation will be
- ³⁶ conducted based on agency processes outlined in this chapter. Questions should
- ³⁷ be addressed to your agency wildland fire safety program manager.

38

39 **Reviews**

40

- ⁴¹ Reviews are methodical examinations of system elements such as program
- ⁴² management, safety, leadership, operations, preparedness, training, staffing,
- 43 business practices, budget, cost containment, planning, and interagency or intra-
- ⁴⁴ agency cooperation and coordination. Reviews do not have to be associated
- ⁴⁵ with a specific incident. The purpose of a review is to ensure the effectiveness
- ⁴⁶ of the system element being reviewed, and to identify deficiencies and

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- 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
- Large Fire Cost Reviews
- 8 Individual Fire Review
- Lessons Learned Review
- 10 Escaped Prescribed Fire Review
- 11 12

Review Types and Requirements

Туре	When Conducted	Delegating or Authorizing Official
Preparedness Review	Annually, or management	Local/State/Region/
	discretion	National
After Action Review	Management discretion	N/A
Fire and Aviation Safety	As fire activity dictates	Geographic Area
Team Review		Coordinating Group
Aviation Safety and	As aviation activity	State/Regional
Technical Assistance Team	dictates	Aviation Manager or
Review		MACG
Large Fire Cost Review	Refer to NWCG	Agency Director
	Memorandum #003-2009	
Individual Fire Review	Management discretion	Local/State/Region/
		National
Lessons Learned Review	Management discretion	Local/State/Region/
		National
Escaped Prescribed Fire	See Interagency Prescribed Fire Planning and	
Review	Implementation Procedures Guide (2008)	

13

14 **Preparedness Reviews**

¹⁵ Preparedness Reviews assess fire programs for compliance with established fire

¹⁶ policies and procedures outlined in the current *Interagency Standards for Fire*

17 and Fire Aviation Operations and other pertinent policy documents.

18

¹⁹ Preparedness Reviews identify organizational, operational, procedural,

20 personnel, or equipment deficiencies, and recommend specific corrective

²¹ actions. Interagency Preparedness Review Checklists can be found at:

22 http://www.nifc.gov/policies/preparedness_reviews/preparedness_reviews.htm

23

24 After Action Reviews (AAR)

25 An AAR is a learning tool intended for the evaluation of an incident or project

²⁶ in order to improve performance by sustaining strengths and correcting

18-2

- 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?
- Why it happened?
- 7 What can be done the next time?

- 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

19 Fire and Aviation Safety Team (FAST) Reviews

- 20 Fire and Aviation Safety Teams assist agency administrators during periods of
- ²¹ high fire activity by assessing policy, rules, regulations, and management
- ²² oversight relating to operational issues. They can also do the following:
- ²³ Provide guidance to ensure fire and aviation programs are conducted safely.
- Assist with providing immediate corrective actions.
- Review compliance with OSHA abatement plan(s), reports, reviews and
 evaluations.
- Review compliance with *Interagency Standards for Fire and Fire Aviation Operations*.
- 29

FAST reviews can be requested through geographic area coordination centers to conduct reviews at the state/regional and local level. If a more comprehensive

- ³¹ conduct reviews at the state/regional and local level. If a more comprehen 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.
- 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.

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- 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.
- 5 Aviation Safety and Technical Assistance Team (ASTAT) Reviews

6 Refer to Chapter 16 for ASTAT information.

3 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-
- 11 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.
- **S5** 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.).
- 44
- 45
- 46

18-4

- The LLR facilitator will convene the participants and: 1
- Obtain delegation of authority from appropriate agency level. See appendix 2 K for a sample LLR Delegation of Authority.
- .
- Identify facts of the event (sand tables maybe helpful in the process) and 4 develop a chronological narrative of the event. 5
- Identify underlying reasons for success or unintended outcomes. 6 .
- Identify what individuals learned and what they would do differently in the . 7 future.
- Identify any recommendations that would prevent future similar . 9 occurrences. 10
- Provide a final written report including the above items to the pertinent . 11
- agency administrator(s) within two weeks of event occurrence unless 12
- otherwise negotiated. Names of involved personnel should not be included 13
- in this report (reference them by position). 14

- A copy of the final report will be submitted to the respective agency's national 16
- fire safety lead who will provide a copy to the Wildland Fire Lessons Learned 17
- Center (WFLLC). Website: http://wildfirelessons.net/Home.aspx. 18
- FS The Forest Service has developed two processes for conducting • 19
- Lessons Learned Reviews: the Facilitated Learning Analysis (FLA) and the 20
- Accident Prevention Analysis (APA). Guides have been produced for these 21
- processes and are available at: 22
- http://www.wildfirelessons.net/documents/Organizational Learning APA 23
- FLA Guides 2010.pdf 24

25

Escaped Prescribed Fire 26

A prescribed fire which has exceeded or is expected to exceed its prescription. 27

28

Escaped Prescribed Fire Reviews 29

- Escaped prescribed fire review direction is found in these agency documents: 30
- Interagency Prescribed Fire Planning and Implementation Procedures 31
- Reference Guide (August 2008) 32
- BLM IM No. OF &A 2009-014 . 33
- FWS Fire Management Handbook . 34
- NPS RM-18, Chapter7 & 17 35 .
- FS FSM 5140 . 36

37 Investigations 38

39

- Investigations are detailed and methodical efforts to collect and interpret facts 40
- related to an incident or accident, identify causes (organizational factors, local 41
- workplace factors, unsafe acts), and develop control measures to prevent 42
- recurrence. 43
- 44

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1 Wildland Fire Incident and Accident Definitions

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3 • Serious Wildland Fire Accident

- An unplanned event or series of events that resulted in death; injury,
- occupational illness, or damage to or loss of equipment or property. For
- wildland fire operations, a serious accident involves any of the following:
- One or more fatalities.
 - > Three or more personnel who are inpatient hospitalized as a direct
 - result of or in support of wildland fire operations.
 - Property or equipment damage of \$250,000 or more.
 - Consequences that the Designated Agency Safety and Health Official (DASHO) judges to warrant Serious Accident Investigation.

13 • Non-Serious Wildland Fire Accident

- An unplanned event or series of events that resulted in injury, occupational
- illness, or damage to or loss of equipment or property to a lesser degree than
- defined in "Serious Wildland Fire Accident."

17 • Near-miss

- An unplanned event or series of events that could have resulted in death; injury; occupational illness; or damage to or loss of equipment or property
- 20 but did not.

21 • Entrapment

A situation where personnel are unexpectedly caught in a fire behavior-

- related, life-threatening position where planned escape routes or safety
- 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.

• Fire Shelter Deployment

The removing of a fire shelter from its case and using it as protection 29 against fire. Fire shelter deployment may or may not be associated with 30 entrapment. Fire shelter deployment may result in a serious wildland fire 31 accident, a non-serious wildland fire accident, or a near-miss. 32 **Fire Trespass** • 33 The occurrence of unauthorized fire on agency-protected lands where the 34 source of ignition is tied to some type of human activity. 35 36 37 38 39 40 41 42 43 44 45

18-6

1 Investigation Types and Requirements

Wildland Fire Event	Investigation Type	Notification Requirement	Management level that determines review type and authorizes review*
Serious	Serious Accident	National	National
Wildland	Investigation (SAI)		
Fire			
Accident			
Non Serious	Non-Serious Accident	BLM/NPS-	Region/State/Local
Wildland	Investigation (NSAI)	National	
Fire			
Accident	FS only- APA/FLA	FS/FWS-	
	may be used	Management	
		Discretion	
Entrapment	SAI, NSAI, LLR,	National	National
	depending on severity		
Fire Shelter	SAI, NSAI, LLR ,	National	National
Deployment	depending on severity		
Near-miss	LLR, AAR	Management	Region/State/Local
		Discretion	
Fire	Fire Cause	Local	Local
Trespass	Determination &		
	Trespass Investigation		

* Higher level management may exercise their authority to determine the type of
 review or investigation.

4

5 6

Investigation Processes

Processes Common to Serious and Non-Serious Wildland Fire Investigations

• Site Protection - The site of the incident should be secured immediately

and nothing moved or disturbed until the area is photographed and visually reviewed. Exact locations of injured personnel, entrapments, injuries,

fatalities, and the condition and location of personal protective equipment,

¹³ property, and other equipment must be documented.

Management of Involved Personnel - Treatment, transport, and follow-up
 care must be immediately arranged for injured and involved personnel. The
 agency administrator or delegate should develop a roster of involved

personnel and supervisors and ensure they are available for interviews by

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.

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Critical Incident Stress Management (CISM) - CISM is the 1 responsibility of local agency administrators, who should have individuals 2 pre-identified for critical incident stress debriefings. Also refer to The 3 Agency Administrator's Guide to Critical Incident Management (PMS 926), 4 available at: http://www.nwcg.gov/pms/pubs/pms926.doc. Individuals or teams may be available through Employee Assistance Programs (EAPs) or 6 Geographic Area Coordination Centers (GACCs). 7 24-Hour-Preliminary Report - This report contains known basic facts 8 about the accident. It will be completed and forwarded by the agency 9 administrator responsible for the jurisdiction where the accident occurred. 10 Names of injured personnel are not to be included in this report (reference 11 them by position). 12 72-Hour Expanded Report - This report provides more detail about the 13 • accident and may contain the number of victims, severity of injuries, and 14 information focused on accident prevention. It will be completed and 15 forwarded by the SAI Team. Names of injured personnel are not to be 16 included in this report (reference them by position). 17 24 and 72 Hour Reports shall be sent to the respective agency's fire • 18 safety/risk management lead for national distribution and potential posting 19 through NWCG Safety Alert System. 20 21 Wildland Fire Serious Accident Investigation Process 22 23 **Fire Director Responsibilities** 24 The Fire Director(s) or designee(s) of the lead agency, or agency responsible for 25 the land upon which the accident occurred, will: 26 Notify the agency safety manager and Designated Agency Safety and 27 Health Official (DASHO). 28 Immediately appoint, authorize, and deploy an accident investigation team. 29 . Provide resources and procedures adequate to meet the team's needs. . 30 Receive the factual and management evaluation reports and take action to 31 . accept or reject recommendations. 32 Forward investigation findings, recommendations, and corrective action . 33 plan to the DASHO (the agency safety office is the "office or record" for 34 reports). 35 Convene an accident review board/ board of review (if deemed necessary) . 36 to evaluate the adequacy of the factual and management reports and suggest 37 corrective actions. 38 Ensure a corrective action plan is developed, incorporating management . 39 initiatives established to address accident causal factors. 40 Ensure Serious Accident Investigations remain independent of other 41 . investigations. 42 43 44 45

18-8

Agency Administrator Responsibilities

- ² Develop local preparedness plans to guide emergency response.
- Identify agencies with jurisdictional responsibilities for the accident.
- Provide for and emphasize treatment and care of survivors.
- 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.
- Determine need and implement Critical Incident Stress Management
 (CISM).
- 10 Notify home tribe leadership in the case of a Native American fatality.
- Prepare and issue required 24 Hour Preliminary Report.
- 12

3

5

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:
- 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
- three or more personnel are inpatient hospitalized)

25

Notification to the respective agency's fire national safety/risk management lead 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.
- 42
- 43
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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
 - investigation and serve as the point of contact to the Designated Agency
- Safety and Health Official (DASHO).

7 • Chief Investigator (Core Team Member)

8 A qualified accident investigation specialist is responsible for the direct

- management of all investigation activities. The chief investigator reports to
 the team leader.
- Accident Investigation Advisor/Safety Manager (Core Team Member)
- 12 An experienced safety and occupational health specialist or manager who
- acts as an advisor to the team leader to ensure that the investigation focus
- remains on safety and health issues. The accident investigation
- advisor/safety manager also works to ensure strategic management issuesare examined.

17 • Interagency Representative

- An interagency representative will be assigned to every fire-related Serious Accident Investigation Team. They will assist as designated by the team
- ²⁰ leader and will provide outside agency perspective.
- **Technical Specialists**
- 22 Personnel who are qualified and experienced in specialized occupations,
- activities, skills, and equipment, addressing specific technical issues such as
- specialized fire equipment, weather, and fire behavior.

25 • Public Affairs Officer

For investigations with high public visibility and significant news media interest, a public affairs officer (PAO) should be considered to be part of the team. The PAO generally should not be affiliated with the home unit. The

- 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
- external communications. Ideally, the PAO should be qualified as a Type 1
- or Type 2 public information officer and be familiar with SAI team
- ³³ organization and function.
- BLM All media related documents (news releases, talking points, etc.)
 should be cleared through NIFC Public Affairs prior to external release.
- **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

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- 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).

7

- 5 Factual and Management Evaluation Report formatting can be found on the
- 6 NIFC website at: http://www.nifc.gov/safety/accident_resources.htm

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
- is 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

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- 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.

- 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
- of individuals involved, etc. Names of injured personnel or personnel
- involved in the accident are not to be included in this report (reference themby position).
- **Narrative** A detailed chronological narrative of events leading up to and including the accident, as well as rescue and medical actions taken after the
- accident. This section will contain who, what, and where.
- Investigation Process A brief narrative stating the team was assigned to
 investigate the accident. It should include a standard statement that human,
- material, and environmental factors were considered. If one of these factors is determined to be noncontributing to the accident it should be addressed
- first and discounted. For example, if the investigation revealed that there
- were no environmental findings that contributed to the accident, simply note
- 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
- they contain adjectives or adverbs that describe and thus render an opinion
- ³² into pertinent facts.
- Findings Findings are developed from the factual information. Each
- finding is a single event or condition. Each finding is an essential step in
- the accident sequence, but each finding is not necessarily causal. Do not
- include any more information in each finding than is necessary to explain
 the event occurrence. Findings must be substantiated by the factual data
- and listed in chronological order within the report.
- Discussion Provide a brief explanation of factual and other pertinent
 information that lead to the finding(s).
- **Recommendations** Recommendations are the prevention measures that
- should be taken to prevent similar accidents. Provide recommendations that
 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.
 - 18-12

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2

- Maps/Photographs/Illustrations Graphic information used to document 1
- and visually portray facts. 2
- Appendices Reference materials (e.g., fire behavior analysis, equipment . 3 maintenance reports, agreements). л
- Records Factual data and documents used to substantiate facts involving 5 6
- the accident.

Fire Cause Determination and Trespass Investigation 8

Introduction 10

Agency policy requires any wildfire to be investigated to determine cause, 11

- origin, and responsibility. Accurate fire cause determination is a necessary first 12
- step in a successful fire investigation. Proper investigative procedures, which 13
- occur concurrent with initial attack, more accurately pinpoint fire causes and can 14
- preserve valuable evidence that would otherwise be destroyed by suppression 15
- activities. 16

17

The agency or its employees must pursue cost recovery or document why cost 18

- recovery is not initiated for all human caused fires on public and/or other lands 19
- under protection agreement. 20
- 21
- Fire trespass refers to the occurrence of unauthorized fire on agency-protected 22
- lands where the source of ignition is tied to some type of human activity. 23

24

Policy 25

- The agency must pursue cost recovery, or document why cost recovery is not 26
- required, for all human-caused fires on public lands. The agency will also 27
- pursue cost recovery for other lands under fire protection agreement where the 28
- 29 agency is not reimbursed for suppression actions, if so stipulated in the
- agreement. 30
- 31
- For all human-caused fires where negligence can be determined, trespass actions 32
- are to be taken to recover cost of suppression activities, land rehabilitation, and 33
- damages to the resource and improvements. Only fires started by natural causes 34
- will not be considered for trespass and related cost recovery. 35

36

- The determination whether to proceed with trespass action must be made on 37
- "incident facts," not on "cost or ability to pay." Trespass collection is both a 38
- cost recovery and a deterrent to prevent future damage to public land. It is 39
- prudent to pursue collection of costs, no matter how small. This determination 40
- must be documented and filed in the unit office's official fire report file. 41

42

- The agency administrator has the responsibility to bill for the total cost of the 43
- fire and authority to accept only full payment. On the recommendation of the 44
- State/Regional Director, the Solicitor/Office of General Counsel may 45
- compromise claims of the United States, up to the monetary limits (\$100,000) 46 **Release Date: January 2011**

- 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.

- ⁶ Unless specified otherwise in an approved protection agreement, the agency that
- 7 has the land management jurisdiction/administration role is accountable for
- determining the cause of ignition, responsible party, and for obtaining all
- billable costs, performing the billing, collection, and distribution of the collected
 funds. The agency with the fire protection responsibility role must provide the
- ¹⁰ funds. The agency with the fire protection responsibility role must prov ¹¹ initial determination of cause to the agency with the land management
- in initial determination of cause to the agency with the land management jurisdiction/administration role. The agency providing fire protection shall
- 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
- defined in the relevant Cooperative Fire Protection Agreement. The billing andcollection process for federal agencies is:
- For example, a federal agency fire occurs on another federal agency's land
 and is determined to be a trespass fire. BLM provides assistance, and
- supplies costs of that assistance to the federal agency with jurisdictional
- responsibility for trespass billing. The responsible federal agency bills and
- collects trespass, and BLM then bills the federal agency and is reimbursed
- for its share of the collection.
- For example, where BLM administered land is protected by a state agency,
 the billing and collection process is:
 - The state bills BLM for their suppression costs. The BLM will pursue trespass action for all costs, suppression, rehabilitation, and damages,
 - and deposits the collection per BLM's trespass guidance.
- 29 30

27

28

- All fires must be thoroughly investigated to determine cause. Initiation of cause determination must be started with notification of an incident. The initial attack incident commander and the initial attack forces are responsible for initiating fire cause determination and documenting observations starting with their travel 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
- 43 44
- 44 45
- 45
- 18-14

Related Policy Documents

²
 ³ These documents provide specific direction related to incident and accident

4 investigations.

5

6

	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	
	FSH-6709.11	FSM-5140	
FS	FSM-5100 and FSH-6709.11 FSM 5720 (Aviation), FSM 5130 (Ground Operations), FSM 6730 (Specific policy), FSH 6709.12, Chapter 30 (General guidance), and most recent <i>Accident Investigation Guide</i> , for specific guidance.		
Interagency	Information on accident investigations may be found at: http://www.nifc.gov/safety/accident_resources.htm. For reporting use <i>PMS 405-1</i> , <i>Wildland Fire Fatality and</i> <i>Entrapment Initial Report</i> ,: http://www.nwcg.gov/pms/forms_otr/pms405-1.pdf.		

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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?

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APPENDIX A-1

APPENDIX A SAMPLE QUESTIONS FOR SITE VISITS BY AGENCY ADMINISTRATORS

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.

APPENDIX A-2

MANAGERS SUPPLEMENT FOR POST INCIDENT REVIEW

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.

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APPENDIX B-1

DELEGATION FOR FIELD OFFICE FIRE MANAGEMENT OFFICERS

Delegation for Unit Fire Management Officers

	, Fire Management Officer the (Unit) is delegated authority to act on my behalf for the owing 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
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

Fire Management Officer

Worker Pay Plan.

Date

Date

Agency Administrator

Release Date: January 2011

APPENDIX C-1

Agency Administrator's Briefing to IMT

Agency	y Administrator'	s Briefing	to Incident	Management Team
--------	------------------	------------	-------------	-----------------

ncident Name
Approx. Size @ Date Time
location
Date of Start
Overhead and Suppression Resources Currently on Incident And Present IC
General Fire Situation in Area
Resources Ordered
Other Organizations Requiring Coordination (Area Command, Expanded Dispatch, MAC, Buying Team, Payment Team, Tribal Government, Other Agency Jurisdictions)
aw Enforcement/Ongoing Investigations
inancial Considerations/Limitations
ire Behavior Considerations
Veather Situation
fuel Types
opography
ire Behavior
Appropriate Management Response Considerations Established Through and or the WDFSS Development Priorities
Environmental Constraints
Jtility Corridors

Release Date: January 2011

APPENDIX D-1

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

APPENDIX D-2

Agency Administrator's Briefing to IMT

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

Release Date: January 2011

APPENDIX D-3

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)

APPENDIX D-4

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 ¹/₄ 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.

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APPENDIX E-1

APPENDIX E

SPOT WEATHER OBSERVATION AND FORECAST REQUEST

				Sp	ot W			servat verse f				ecast I ons)	Reque	st			
Reques	ting Agenc	y will	Furnish	Inform	natior	n for Bl	ocks 1	-12									
1. Nan	ne of Incide	nt or P	roject				2.	Contro	l Ag	gency				3. Re	quest Mad	le	
Time: Date:																	
4. Loc	ation (Desig	gnate T	ſownshiµ	p, Rar	ige, ai	nd Sect	ion (in	clude ¼	sect	tion):	5.	Drainag	e Name		6. Expos	sure/A	spect:
7. Size	of Incident	or Pro	piect (ac	res):			8. Ele	evation			9.	Fuel Typ	be:		10. Proje	ect On	:
			5 (,	Тор		-	Bottom	ı				L		□ Ground □ Crowni		
11 337	4 0 1		. 7 . 1		D ·			N/C									
11. We	eather Cond	itions	at Incide	-	-							No. or ter	recessary.	T - 1 -	<u>r</u>		
DI	F1	Obse	rvation	Wine	1 Dire	ction/V	elocity	le	mpe	rature		completed	by the Fire Forecaster.	Weather	(Indicate pr	Rem ecipitatio	arKS n, cloud type and % ntal conditions, etc.)
Place	Elevation		ime	20-I	oot:	Eye I	Level:	Dry Bu	ılb:	We Bulb		Rh	D	p	cover, wirk	and iroi	nar conditions, etc.)
12. Set	nd Forecast	To (P	erson):	Send	Fore	cast To	(Loca	tion):				Sen	d Forec	ast Via	1: S	Send (Сору То:
The Fir	e Weather]	Foreca	ster will	Furn	ish the	- Infor	nation	for Bloc	k 13	3.							
	cussion an			1 um	on m		interiori	101 2100							Date and	Time	
10. 01	oussion un	u o un	John .												Dure und	1	
														Wind			
H	Burn Period			Sky (Cover		Temj	perature	Humidity			Eye Level			20-Foot In		Indices
🗆 Toda			□ Most	tly Su	nny/C	lear		°F			0./	🗆 Upslo			Upslope		Haines:
	e to dusk) Afternoon		 Fair Partly Cloudy 					%		%	Downslope			Downslop	e	LAL:	
	intil dusk) Evening		□ Most		oudy		 High Low 		 Maximum Minimum 			Direction		Di	Direction		BI:
	intil dusk)			 Cloudy Variable 			□ Range		□ Range			Velocitymph		ph Ve	elocity	_mph	CI:
	until sunse	t)										Gusts_	mp	h Gu	usts1	mph	
□ Toda			□ Most	tly Su	nny/C	lear		°F			%	□ Upslo			Upslope		Haines:
🗆 This	e to dusk) Afternoon		□ Fair □ Partl								-		Downslope		Downslope		LAL:
````	intil dusk) Evening		□ Most □ Clou		oudy		□ Hi □ Lo			Maximu Minimu		Directio	on	Di	rection		BI:
(1600 u	intil dusk)		Varia			□ Rang						Velocit	ym	ph Ve	elocity	_mph	CI:
Tonig (sunset)	until sunse	t)										Gusts_	mp	h Gu	usts1	mph	
Outl	ook for (Da	te):	□ Most	tly Su	nny/C	lear		°F			%	□ Upslo			Upslope		Haines:
□ Fair □ Partly Cloudy								-	Dowr		Π.	Downslop	e	LAL:			
Mostly Cloudy     Hig     Cloudy     Lo							Maximu Minimu		Directio	on	Di	rection		BI:			
			Clou				🗆 Ra			Range		Velocit	ym	ph Ve	elocity	_mph	CI:
												Gusts_	mp			mph	
Name o	of Fire Wea	ther Fo	orecaster									Fire We	eather O	ffice I	ssuing For	ecast:	
14. Fo	recast Rece	ived by	y (Name	):					Dat	te:		Time:		Forec	ast Receiv	ed at (	Location) Via:

**APPENDIX E-2** 

### 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>B. Resources Committed</b>		
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		

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APPENDIX F-1

	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	

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**APPENDIX F-2** 

	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

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**APPENDIX F-3** 

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 "Ves" on 3 to 5 of the analysis haves consider	r roallo	atina

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**

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### 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

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#### Sample Delegation of Authority: Delegation of Authority Colorado State Office Montrose Field Office

As of 1800, May 20, 2005, I have delegated authority to manage the Crystal River Fire, Number E353, San Juan Resource Area, to Incident Commander Bill Jones and his Incident Management Team.

The fire, which originated as four separate lightning strikes occurring on May 17, 2005, is burning in the Crystal River Drainage. My considerations for management of this fire are:

- 1. Provide for firefighter and public safety.
- 2. Manage the fire with as little environmental damage as possible.
- 3. Key cultural features requiring priority protection are:
- 4. Key resources considerations are:
- 5. Restrictions for suppression actions include:
- 6. Minimum tools for use are:
- 7. My agency Resource Advisor will be:
- 8. The fire borders are:
- 9. Manage the fire cost-effectively for the values at risk.
- 10. Provide training opportunities for the resources area personnel to strengthen our organizational capabilities.
- 11. Minimum disruption of residential access to private property, and visitor use consistent with public safety.

(Signature and Title of Agency Administrator)

(Date)

Amendment to Delegation of Authority

The Delegation of Authority dated May 20, 2005, issued to Incident Commander Bill Jones for the management of the Crystal River Fire, number E353, is hereby amended as follows. This will be effective at 1800, May 22, 2005.

12. Key cultural features requiring priority protection are:

13. Use of tracked vehicles authorized to protect Escalante Cabin.

(Signature and Title of Agency Administrator)

(Date)

**Release Date: January 2011** 

**APPENDIX H-1** 

### LOCAL INCIDENT COMMANDER BRIEFING TO IMT

# 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:
□ ICS 201 □ICS 215	☐ Map of Fire
□ ICS 207 □ICS 220	Aerial Photos
□ ICS 209	Weather Forecast
Fire Start Date:	1
Time:	
Fire Cause:	
Fuels Ahead of Fire:	
Fuels at Fire:	
Fire Behavior:	
Fire Spread:	
Natural Barriers:	
Anchor Points:	
Perimeter Secured, Control/Mitigation E	Efforts Taken, and Containment Status:
Life, Improvements, Resources and Env	ironmental Issues:

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### APPENDIX I

	~	
LOCAL INCIDENT	COMMANDER	BRIEFING TO IMT

Weather Forec	ast:				
	Established	Possible			
ICP:					
Base:					
Camp(s):					
Staging Area(s	s):				
Copy Machine	Available			Yes	🗌 No
Safety Issues:		EN	AS in Place:	Yes	🗌 No
Air Operations	Effectiveness	to Date:			
Air Related Iss	sues and Restri	ctions:			
Hazards (Aircr	aft and People	:):			
Access from B	ase to Line:				
Personnel and	Equipment on	Incident (S	Status and Cor	ndition):	
	1 1	,		,	
Personnel and	Equipment Or	dered:			
	<b></b>				
Cooperating ar	nd Assisting A	gencies on	Scene:		
	14 1 10010411B 1 1	Serieles on	Scone.		
Helibase/Helis	pot Location:				

**Appendix I-2** 

### LOCAL INCIDENT COMMANDER BRIEFING TO IMT

Crash Fire Protection at Helibase:
Medivac Arrangement:
Communication System in Use:
Radio Telephone 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:

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INCIDENT MANAGEMENT TEAM EVALUATION APPE				APPENDIX J		
Incident Management Team Performance Evaluation						
Team IC			Incider	nt Type		
Incident Name			Incider Numbe	- •		
Assignment Dates			Total Acres			
Host Agency			Evalua Date	tion		
Administrativ Unit	ve		Sub-Ui	nit		
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. <b>Complete the follow evaluation narratives and rating for each question</b> 0 - did not achieve expectations, 3 - met expectations, 5 - excelled						
1. How well d Fire Decision Agency Admi	Support Sys	stem (WFD				
Circle one	0	1	2	3	4	5
<ul><li>(Explain)</li><li>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</li></ul>						
issues?	0	1	2	2	4	5
Circle one (Explain)	0	1	2	3	4	5

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### INCIDENT MANAGEMENT TEAM EVALUATION

3. How did the environmental		onstrate se	nsitivity to	resource li	mits/constr	aints and
Circle one	0	1	2	3	4	5
(Explain)						
4. How well d	lid the Team	deal with	sensitive p	olitical and	social conc	erns?
Circle one	0	1	2	3	4	5
5. Was the Te management of the Team hand	of the incide	nt and how	they mana	aged the tot	al incident?	
hosting agenc		i enner to a	another fivi	1 or in retu	iming the in	icident the
Circle one	0	1	2	3	4	5
<ul><li>(Explain)</li><li>6. How well did the Team anticipate and respond to changing conditions, was the response timely and effective?</li></ul>						
Circle one	0	1	2	3	4	5
(Explain)						
7. How well d	lid the Team	place the	proper emp	ohasis on sa	ifety?	
Circle one	0	1	2	3	4	5
(Explain)						

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## INCIDENT MANAGEMENT TEAM EVALUATION

8. Did the Tea timely and cos			e the mobil	ization/den	nobilization	in a
Circle one	0	1	2	3	4	5
(Explain)						
9. How well d forces?	id the Team	use local 1	resources, 1	trainees, an	d closest av	ailable
Circle one	0	1	2	3	4	5
10. How did t initiating a co recommendati	st share agre	eement or l				
Circle one	0	1	2	3	4	5
(Explain)				eam and the	e Incident?	How well
did the IC fun	ction and op	perate as a l	leader?			
Circle one	0	1	2	3	4	5
(Explain)						

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## INCIDENT MANAGEMENT TEAM EVALUATION

12. How time initiating action		C in assum	ing respons	sibility for	the incident	and
Circle one	0	1	2	3	4	5
(Explain)						
13. How did t local condition		sincere cor	ncern and e	mpathy for	the hosting	unit and
Circle one	0	1	2	3	4	5
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 do Circle one	0	1 agreemen	2	3	4	5
(Explain)						
15. Other com				Da	ite:	
or Representa				21		
Incident Com	mander:			Da	ite:	

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## Lessons Learned Review (LLR)

- 1 Memorandum 2 To: LLR Facilitator; Title of Person/Office This is Meant For 3 4 **Delegating Official** From: 5 6 Subject: Delegation of Authority - (Incident Name) LLR 7 8 9 Situation Summary: 10 11 12 You are hereby designated the authority to lead and conduct an LLR for (Incident Name). The review process will begin at (Identify LLR start time, 13 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 provided to you upon your arrival. 16 17 You have the authority to tailor your team and the LLR process to fit the 18 situation and your style of facilitation. However, I would like you to utilize the 19 guidance outlined in the Interagency Standards for Fire and Fire Aviation 20 Operations Chapter 18, while conducting the LLR. This includes: 21
  - convening the participants; 22 •
  - identifying facts of the event and developing a chronological narrative of 23 the event; 24
  - identifying underlying reasons for success or failure; 25 •
  - identifying what was learned and what should/could be done differently in 26 • 27 the future;
  - identify any recommendations that would prevent future similar 28 • occurrences; and 29
  - providing a final, written report covering the above items, which is due to 30 • me within two weeks of the event occurrence. 31

32

³³ If you need any assistance, your primary contact will be:

34

Thank you for your time and assistance. 35

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**APPENDIX K-1** 

### Minimum Standards of Incident Emergency Medical Services

APPENDIX L

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			

1 Interim NWCG Minimum Standards of Incident Emergency Medical Services 2008

2 NOTE: Regional differences/protocols exist: e.g., Northern Rockies (Incident

3 Medical Specialist Program), Pacific Northwest (Incident Medical Specialist Program)

and Alaska (Firemedic Program) that are different from these guidelines and may require
 a higher level of EMS service.

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APPENDIX L-1

#### Work Capacity Test Record

### 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	<b>Field Test</b>	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)
(Signature of Test Transmutor)	(1110)

Release Date: January 2011

**Appendix M-1** 

(Date)

### APPENDIX N (DOI only) Medical Examination Requirement

Employment Category	Fitness Requirement	Clearance Process	
	Arduous	MSP	HSQ
Permanent, Career-Seasonal &	Arduous	Х	
TERM	Moderate/Light		Х
Temporary Seasonal	Arduous	Х	
	Moderate/Light		Х
AD/EFF Under Age 45	Arduous		Х
	Moderate/Light		Х
AD/EFF Age 45 and Older	Arduous	X (annual)	
	Moderate/Light		Х

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.

Release Date: January 2011

**APPENDIX N-1** 

#### **Delegation of Authority - FAST**

### 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

**Release Date: January 2011** 

**APPENDIX O-1** 

### APPENDIX O

- 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: _____

**APPENDIX O-2** 

#### ANNUAL OPERATING PLAN

#### **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; Callback 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.

**Release Date: January 2011** 

**APPENDIX P-1** 

#### APPENDIX P

### 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.

**APPENDIX P-2** 

### ANNUAL OPERATING PLAN

#### APPENDIX P

### 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.

**Release Date: January 2011** 

**APPENDIX P-3** 

#### 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).

Release Date: January 2011

APPENDIX Q-1

#### APPENDIX Q

#### **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.

**Release Date: January 2011** 

APPENDIX Q-2

### **NUS ENGINES**

The following chart shows the NUS minimum stocking levels required for agency engines.
<b>BLM</b> units see the agency specific NUS on the NFEP website.

	BLM units see the agency specific NUS on the NFE	P websile.	Туре	
Category	Item Description	NFES #	3, 4, & 5	6
	McLeod	0296	1	
	Combination Tool	1180	1	1
	Shovel	0171	3	2
	Pulaski	0146	3	2
Fire Tools & Equip	Backpack Pump	1149	3	2
	Fusees (case)	0105	1	1/2
Equip	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		*	*
	First Aid Kit, 10-person	1143	1	1
Medical	Burn Kit		1	1
	Body Fluids Barrier Kit	0640	1	1
	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
<b>a</b> 1	Sheeting, plastic, 10' x 20'	1287	1	1
General Supplies	Tape, duct	0071	1	1
Supplies	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		*	*

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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		*	*
	General Took 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
Vehicle & Pump Support	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
	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
Personal Gear (Extra Supply) Radio	Batteries, headlamp (pkg)	0030	6	4
	Ear Plugs (pair)	1027	3	3
	Portable		1	1
Radio	Mobile		1	1
	Batteries (for portable radio)		2	2
	Booster (feet/reel)	1220	100	100
F	Suction (length, 8' or 10')		2	2
ľ	1" NPSH (feet)	0966	300	300
-	1 ½" NH (feet)	0967	300	300
-	³ / ₄ " NH, garden (feet)	1016	300	300
	1 ¹ / ₂ " NH, engine protection (feet)	1	20	20
	1 ½" NH, refill (feet)	1	15	15

Appendix R-2

Nozzle	Forester, 1" NPSH	0024	3	2
	Adjustable, 1" NPSH	0138	4	2
	Adjustable, 1 ¹ / ₂ " NH	0137	5	3
	Adjustable, ¾" NH	0136	4	2
	Foam, ¾" NH	0627	1	1
	Foam 1 ½" 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	*	*
	1" NPSH, Two-Way, Gated	0259	2	1
Wye	1 ¹ / ₂ " NH, Two-Way, Gated	0231	4	2
	³ / ₄ " NH w/Ball Valve, Gated	0739	6	4
	1" NPSH-F to 1" HN-M	0003	*	*
Adamtan	1" NH-F to 1" NPSH-M	0004	1	1
Adapter	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
mereaser	1" NPSH-F to 1 1/2" NH-M	0416	2	1
	1" NPSH, Double Female	0710	1	1
Counting	1" NPSH, Double Male	0916	1	1
Coupling	1 ¹ / ₂ " NH, Double Female	0857	2	2
	1 ¹ / ₂ " NH, Double Male	0856	1	1
	1" NPSH-F to ³ / ₄ " NH-M	0733	3	3
Reducer/	1 ¹ / ₂ " NH-F to 1 NPSH-M	0010	6	4
Adapter	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
Keducei	2 ¹ / ₂ " NH-F to 1 ¹ / ₂ " NH-M	2230	1	1
	1" NPSH-F x 1" NPSH-M x 1" NPSH-M, w/cap	2240	2	2
Tee	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
	1 ¹ / ₂ " NH-F, Automatic Check and Bleeder	0228	1	1
	³ / ₄ " NH, Shut Off	0738	5	5
Valve	1" Shut Off	1201	1	1
	1 ¹ / ₂ " Shut Off	1207	1	1
	Foot, w/strainer		1	1

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Injector	1" NPSH x 1/12" NH, Jet Refill	7429	*	*
	Hydrant, adjustable, 8"	0688	1	1
	Spanner, 5", 1" to 1 ¹ / ₂ " hose size	0234	4	1
Wrench	Spanner, 11", 1 1/2" to 2 1/2" hose size	0235	2	2
	Pipe, 14"	0934	1	1
	Pipe, 20"		1	1
	Fireline Handbook	0065	1	1
	GPS Unit		1	1
	Belt Weather Kit	1050	1	1
Engine	Binoculars		1	1
Engine	Map Case w/ maps		1	1
	Inventory List		1	1
	Current Interagency Standards for Fire and Fire Aviation Operations		1	1
* N	o minimums – carried by engines as an option, within w	eight limitati	ions	
	NPS – Additional or differing items recommended	by NPS		
	Flapper (NPS)		*	*
	Council Rake (NPS)	1807	*	*
Fire Tools &	Leaf blower		*	*
Equip ¹	Shovel	0171	2	1
	Extra Quart, 2 cycle mix		2	1
	Portable Pump		1	*
	Chock Blocks		1	1
General	Tape, filament (roll)	0222	2	1
Supplies	Bolt Cutters		*	*
	Hose Clamp	0046	2	2
Safety	Reflector Set		1	1
	Oil, automotive, quart		2	1
	Power steering Fluid		1	1
Vehicle &	Antifreeze (seasonal)		*	*
Pump Support	Filter, air for engine and pump		*	*
	Filter, oil w/ wrench		*	*
	File, mill, bastard	0060	*	*
Personal Gear	Fire Shelter w/case & liner	0925/0975	1	1
(Extra Supply)	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
	,		-	

Appendix R-4

#### **NUS ENGINES**

#### APPENDIX R

Reducer /	1" NPSH-F to ³ / ₄ " NH-M	0733	3	2
Adapter	1 ¹ / ₂ " 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 1/2" NH-F, Automatic Check and Bleeder	0228	1	*
valve	³ ⁄4" NH, Shut Off	0738	4	2
Wrench	Pipe, 20"		1	*
Engine	Accident Forms (Vehicle & Personnel)		1	1
Engine	Compass		1	1
	f eight tools for type 3, 4, 5 engines and a minimum of five			

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.

* No minimums - carried by engines as an option, within weight limitations

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**Appendix R-5** 

#### WILDLAND FIRE DECISION SUPPORT SYSTEM INFORMATION

#### Wildland Fire Decision Support System Information

#### 3 WFDSS Subsections

- 5 The decision support system is divided in to 8 subsections within WFDSS.
- 6 These sections are: Information, Situation, Objectives, Courses of Action,
- 7 Validation, Decisions, Periodic Assessment, and Reports.
- 8

12

4

#### 9 Information

- 10 Basic information for an incident is found in this section, which includes:
- 11 Incident Name, Point of Origin, Unique Fire Identifier, Fire Code, Final Fire
- 12 Perimeter / Incident Size, Discovery Date, Containment Date, Controlled Date,
- 13 Out Date, Geographic Area, Responsible Unit at Point of Origin, Incident Cause
- 14 and Responsible Agency. Updating this information is essential for ongoing
- 15 incidents (especially acreages and dates) as this information is automatically
- 16 populated into a WFDSS Decision Document. It is also important that the
- 17 incident owner(s) are available when the incident is updated or transferred.
- 18 Incident ownership may be associated with an individual or group, depending on
- 19 fire complexity, jurisdictions involved, and other considerations.

20

#### 21 Situation

- 22 The Situation section provides a map interface displaying a variety of incident
- 23 and reference information. It reduces the need for paper maps by giving users a
- 24 dynamic and intuitive interface in which information needed for decision
- 25 support is timely and easily accessible from anywhere with an internet
- 26 connection.

27

- 28 The Map tab has several spatial layers available:
- 29 Base Layers- WFDSS Topos, Google Maps, Google Physical
- 30 Incident Planning Areas, Fire Perimeters, Management Action Points,
- 31 Points of Interest, Incident Objectives;
- 32 Analysis Ignitions, Barriers, Landscape Masks, Basic Fire Behavior, Short
- 33 Term Fire Behavior, Near Term Fire Behavior, FSPro (Values at Risk);
- ³⁴ Fire-Related Active MODIS, Historical Fires, Incidents, RAWS Stations;
- 35 Reference Admin Boundaries, Counties, Designated Areas, FMU,
- 36 Geographic Areas, Landscape Extent, Major Roads;
- 37 Values Building Clusters, Class 1 Airshed, Communication Towers,
- 38 Critical Habitat, Electric Sub Stations, Mines, NAA Ozone, NAA
- 39 Particulates, NPS Buildings, Oil/Gas Pipelines, Power Plants, Transmission
- 40 Lines, USFS Buildings).

41

- 42 Within the Info tab on the Situation page, the user can access: Feature
- 43 Information, Fire Danger (ERC charts), Smoke Dispersion, Strategic Objectives,
- 44 Fire Weather Forecasts. Additionally users can access basic information about
- 45 the underlying landscape file: Source, Elevation, Aspect, Slope, Fuel Model,

46 Canopy Cover, Bulk Density, Stand Height, Base Height.
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APPENDIX S-1

#### APPENDIX S

- 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

#### 15 **Objectives**

16 Strategic and Management Requirements are automatically loaded in to the

17 program based on those entered from your approved plans (Land & Resource

18 Management Plans, Fire Management Plans) and the location of the fire. Within

- 19 this section incident requirements and incident objectives are created which are
- 20 tiered from these overarching Strategic Objectives and Management
- 21 Requirements. A user can then control the active or deactivated status of these
- 22 incident objectives and incident requirements based on location of the fire and
- 23 activity to include them or exclude them from the next decision.

24

#### 25 Courses of Action

26 Documentation for strategic direction and associated cost is completed in this

27 section. Again, the user can edit, include or exclude the strategic direction each

- ²⁸ time a decision is made. Several methods for determining cost can be found
- here; follow your agency direction and include a summary of how the cost wasconstructed.
- 31

32 Cost can be developed using the Stratified Cost Index (SCI) located in the left

- ³³ hand menu. The SCI is available for USFS and DOI. The correct model is
- ³⁴ automatically chosen by the Unit ID in the Unique Fire Identifier. The model
- ³⁵ requires input of the estimated final acreage of the incident. Users can input up
- 36 to four different acreages.

37

- ³⁸ It may be helpful to develop Management Action Points (MAPs) at this time
- 39 which can be done from the left hand menu. MAPs require a Condition when to

⁴⁰ implement and an Action to implement. They can be defined using the left hand

⁴¹ menu and be linked to geospatial MAPs drawn in the situation tab.

42

#### 43 Validation

- 44 Decisions are validated and documented in this section, prior to publication. It
- 45 is important to document your justification in the comment section as
- 46 completely as possible for answering the question "Will the Incident and

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APPENDIX S-2

#### WILDLAND FIRE DECISION SUPPORT SYSTEM INFORMATION

1 Strategic Objectives be satisfied with the proposed Course of Action?" WFDSS

users should consider the following when writing this justification: 2 3

- Are there adequate resources to achieve your COA? •
- Has the cost been developed to achieve the COA? • 4
- Does the current fire behavior and weather assessment support the COA? . 5
- Have you completed the Relative Risk Assessment and assessed the value 6 • inventory?

Have you checked your Relative Risk Advice considerations? 8 •

7

This information will be viewable throughout the decision process and will be 10 automatically populated in the WFDSS Decision Document. 11

12

#### Decisions 13

Within this section is the ability to create, view, edit, and download published 14

decisions. It is important in this area that owners, editors, and reviewers become 15

familiar with their role and understand what they can and can't do with the 16

incident information. Additionally knowing and understanding how and where 17

to save information as agreed upon by the incident owner are essential. From 18

this tab an owner of the incident starts the review and approval process. 19

- Incident decisions can be edited by incident owners or by those users who have 20
- been granted access through incident privileges: Edit, Review, Approve. Users 21
- will access the decision editor by checking the radio button next to the pending 22
- decision, then clicking EDIT. Once editing is completed, users will click the 23
- Check-In button to allow access by others. 24

25

The WFDSS Decision Document is outlined into several sections: Assessment 26

(Information, Weather, and Other content), Objectives (includes all FMUs, 27

Strategic Objectives and Management Requirements included in the planning 28

area as well as all included Incident Objectives and Incident Requirements), 29

Course of Action (includes MAPs), Validation (Includes the Relative Risk text) 30

- and Rationale. Multiple editors can be working on different sections of the 31
- WFDSS Decision Document with a little coordination and using the edit / 32

check-in process. Additional information that supports the decision should be 33

added to each of these sections. 34

35

The users who are editing the decision document should include Maps captured 36

or uploaded images that support the decision or help tell the story of the incident 37

and the decision. These images can be added to any section of the document as 38

39 needed. Additionally, the editors should also include all support information:

cost development summary, relative risk, social/political concerns, fire behavior 40

models, values at risk, long term assessment information. 41

42

- The WFDSS Decision Document replaces the WFSA, WFIP and Long Term 43
- Implementation Plans. Information from the planning documents of the past, 44

that supports the decision, now must be included in the decision document. It is 45

typically added in the Assessment portion of the decision document. This 46 **Release Date: January 2011 APPENDIX S-3**  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
- 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.

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APPENDIX S-4

MINIMUM CREW STANDARDS FOR NATIONAL MOBILIZATION	
--------------------------------------------------	--

	CREW STANDARDS FOR		
Minimum Standards	Туре 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 includir read and interpret the languag		
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 programm	nable 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 canteen, web gear, sleeping b		it, headlamp, 1 qt
PPE	All standa	rd designated fireline P	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

**Appendix T-1** 

#### JOB HAZARD ANALYSIS

	HAZARD	Date:	New:□ Revised:□
AN	ALYSIS	Page 1 of 3	Reviewed by (Safety Mgr)
Field Offic	e/Work Group	Supervisor:	Qual, Trng, Experience Reqd:
This JHA Administra Name:		ed, approved, and signe Title:	ed by the Agency Date:
Basic Job Steps	Potential Hazards	Safe Job Procedures	
Work Capacity Testing	Physical Overexertion	Provide prospective tes about the test course ar requirements (e.g., ardu	
		for Medical Standards appropriate responses of	lete the Health Screen de documentation of clearance Program (MSP). Only of the prospective subjects to result in administering the
			onitor subjects for distress nistrator is to terminate test if ibject distress.
		discontinue the test and administrator and/or or	s understand they are to d seek assistance from test n-site medical personnel if they verse discomfort or illness
		Schedule tests when en most favorable.	vironmental conditions are
			y qualified as an EMT (with t) onsite when testing is done.
		Have unit medivac plan Administrators know h	ow to activate it.
		Make sure test participate.	ants do not exceed a walking
		Ensure test participants	s are properly hydrated.
Work Capacity Testing	Strains and Sprains		s properly warm up and stretch the test. This is especially b lower legs.

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		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.

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Work	Slippery	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. Locate a suitable test surface. Consider indoor
Capacity Testing	Course Conditions (ice, snow, mud)	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.

**APPENDIX U-3** 

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#### **Step 1 Situation Awareness**

Gather Information

□ Objective(s)

- □ Communication
- □ Who's in Charge
- Previous Fire BehaviorWeather Forecast
- □ Local Factors

Scout the Fire

#### Step 2 Hazard Assessment

Estimate Potential Fire Behavior Hazards

What other safety hazards exist?

Consider severity vs. probability?

#### **Step 3 Hazard Control**

Fire Orders → LCES Checklist – MANDATORY

Anchor Point

Downhill Checklist (if applicable)

What other controls are necessary?

#### **Step 4 Decision Point**

Are controls in place for identified hazards? NO - Reassess situation YES - Next question

Are selected tactics based on expected fire behavior? NO - Reassess situation YES - Next question

Have instructions been given and understood? NO - Reassess situation YES - Initiate action

#### **Step 5 Evaluate**

Personnel: Low experience level with local factors? Distracted from primary tasks? Fatigue or stress reaction? Hazardous attitude?

The Situation: What is changing? Are strategy and tactics working?

# **Standard Firefighting Orders**

- Keep informed on fire weather conditions and forecasts.
- Know what your fire is doing at all times.
- Base all actions on current and expected behavior of the fire.
- Identify escape routes and safety zones and make them known.
- Post lookouts when there is possible danger.
- Be alert. Keep calm. Think clearly. Act decisively.
- Maintain prompt communications with your forces, your supervisor and adjoining forces.
- Give clear instructions and insure they are understood.
- Maintain control of your forces at all times.
- Fight fire aggressively, having provided for safety first.

#### Watch out Situations

- Fire not scouted and sized up.
- In country not seen in daylight.
- Safety zones and escape routes not identified.
- Unfamiliar with weather and local factors influencing fire behavior.
- Uninformed on strategy, tactics, and hazards.
- Instructions and assignments not clear.
- No communication link with crew members/supervisor.
- Constructing fireline without safe anchor point.
- Building fireline downhill with fire below.
- Attempting frontal assault on fire.
- Unburned fuel between you and fire.
- Cannot see main fire, not in contact with anyone who can.
- On a hillside where rolling material can ignite fuel below.
- Weather is getting hotter and drier.
- Wind increases and/or changes direction.
- Getting frequent spot fires across line.
- Terrain and fuels make escape to safety zones difficult.
- Taking nap near fireline.