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 24 Agency Specific Safety Policy Documents: 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 – FSM 5100 and chapters, FSH-6709.11 Health and Safety Code 29 Handbook 30 For additional safety guidance, refer to: 31 Fireline Handbook (PMS 410-1, NFES 0065). 32 . Incident Response Pocket Guide (IRPG) (PMS 461, NFES 1077) 33 •

34 35 **Guiding Principles**

36

- The primary means by which we implement command decisions and maintain 37
- unity of action is through the use of common principles of operations. These 38
- principles guide our fundamental wildland fire management practices, 39
- behaviors, and customs, and are mutually understood at every level of 40
- command. They include Risk Management, Standard Firefighting Orders and 41
- Watch Out Situations, LCES and the Downhill Line Construction Checklist. 42
- These principles are fundamental to how we perform fire operations, and are 43
- intended to improve decision making and firefighter safety. They are not 44
- absolute rules. They require judgment in application. 45

46

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1 Goal

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

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.
- 18 **Risk**: The likelihood or possibility of hazardous consequences in terms of
- 19 severity or probability.
- 20 Risk Management: The process whereby management decisions are made and
- 21 actions taken concerning control of hazards and acceptance of remaining risk.

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
- managers a simple, universal, and consistent way to practice risk managementby:
- 29 Establishing situation awareness.
- 30 Identifying hazards and assessing the risk.
- Controlling or eliminating hazards.
- 32 Making decisions based on acceptability of remaining risk.
- Evaluating effectiveness of hazard controls and continuously re-evaluating
 the situation.

35

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

37

- 38 A completed JHA/RA 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.

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1	• Supervisors and appropriate line managers must ensure that established JHAs are reviewed and signed prior to any non-routine task or at the			
2 3	beginning of the fire season.			
4				
5 6		http://web.blm.gov/portal/employeeresources/allemployees/safety/riskm anagment.php		
7	0	FS - JHA's must include a description of the emergency medical		
8 9 10	-	procedures, identification of key individuals, and actions that will be taken to ensure prompt and effective medical care and evacuation. See FSH 6709.11, section 21.1 for more information.		
11 12	Work/I			
13				
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	Comma personn work or hours an the exce • Per • The tha ress and • The Tim req for	gate fatigue, Agency Administrators, fire managers, supervisors, Incident inders, and individual firefighters should plan for and ensure that all eel are provided a minimum 2:1 work/rest ratio (for every 2 hours of travel, provide 1 hour of sleep and/or rest). Work shifts that exceed 16 nd/or consecutive days that do not meet the 2:1 work/rest ratio should be eption. When this occurs, the following actions are required: sonnel will resume 2:1 work/rest ratio as quickly as possible. e Incident Commander or Agency Administrator will justify work shifts t exceed 16 hours and/or consecutive days that do not meet 2:1 work to t ratio. Justification will be documented in the daily incident records, I must include mitigation measures used to reduce fatigue. e Time Officer's/Unit Leader's approval of the Emergency Firefighter ne Report (OF-288), or other agency pay document, certifies that the uired documentation is on file and no further documentation is required pay purposes.		
30 31 32 33	Pilots n	rk/rest guidelines do not apply to aircraft pilots assigned to an incident. nust abide by applicable Federal Aviation Administration (FAA) nes, or agency policy if more restrictive.		
34	Length	of Assignment		
35				
36		ment Definition		
37		gnment is defined as the time period (days) between the first full		
38		onal period at the first incident or reporting location on the original		
39 40		e order and the last day worked prior to commencement of return travel		
40 41	to the h	ome unit.		
41 42 43 44	Standar	of Assignment d assignment length is 14 days, exclusive of travel from and to home th possible extensions identified below. Time spent in staging and		

⁴⁵ preposition status counts toward the 14-day limit, regardless of pay status, for all

⁴⁶ personnel, including Incident Management Teams.

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	CHAPTER 07	SAFETY & RISK MANAGEMENT			
1	14-Day Scenario				
2					
3	\rightarrow Travel \rightarrow Day 1-14 \rightarrow T	ravel			
4	(work)				
5					
6	Days Off				
7	To assist in mitigating fatigue, day				
8	time off supplementary to mandate	ors (incident host or home unit) may authorize			
9 10	time off supplementary to mandate	ny days off requirements.			
11	The authority to grant a day off wi	th pay lies within 5 U.S.C. 6104, 5 CFR			
12	610.301-306, and 56 Comp. Gen. I				
13	r				
14	After completion of a 14 day assig	nment and return to the home unit, two			
15		ed (2 after 14). Days off must occur on the			
16		ng the return travel in order to be charged to			
17	the incident. (See Section 12.1-2) (5 U.S.C. 6104, 5 CFR 610.301-306, and 56				
18	Comp. Gen. Decision 393 (1977). If the next day(s) upon return from an				
19		s), a paid day(s) off will be authorized.			
20 21	employees.	ing this for non-NWCG and state/local			
21	employees.				
22	Pay entitlement, including adminis	trative leave, for a paid day(s) off cannot be			
24		(lar day(s) off at their home unit. Agencies			
25		as appropriate. A paid day off is recorded on			
26	home unit time records according to agency requirements. Casuals (AD) are not				
27	entitled to paid day(s) off upon release from the incident or at their point of hire.				
28					
29	Contract resources are not entitled to paid day(s) off upon release from the				
30	incident or at their point of hire.				
31 32	Home unit Agency Administrators	may authorize additional day(s) off with			
33		atigue. If authorized, home unit program			
34	funds will be used. All length of assignment rules apply to aviation resources,				
35	including aircraft pilots, notwithstanding the FAA and agency day off				
36	regulations.				
37					
38	Assignment Extension	1, 1, 1, 1, 1, 1,,			
39		el to back-to-back assignments, their health,			
40					
41 42	 Assignments may be extended 				
42 43	 Assignments may be extended Life and property are imm 				
43	 Suppression objectives ar 				
45	• A military battalion is ass				
46	•	e unavailable, or have not yet arrived.			
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		· · · ·			

SAFETY & RI	SK MANAGEMENT
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- 1 Upon completion of the standard 14-day assignment, an extension of up to an
- 2 additional 14 days may be allowed (for a total of up to 30 days, inclusive of
- ³ mandatory days off, and exclusive of travel).
- 5 <u>21-Day Scenario</u>

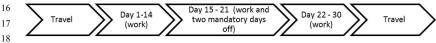


10 A 21-day assignment is exclusive of travel from and to home unit. Time spent

- in staging and preposition status counts toward the 21-day assignment,
- 12 regardless of pay status, for all personnel, including Incident Management
- 13 Teams.

14

15 <u>30-Day Scenario</u>



- 19 An assignment longer than 22 days is exclusive of travel from and to home unit.
- 20 Time spent in staging and preposition status counts toward the assignment,
- 21 regardless of pay status, for all personnel, including Incident Management
- 22 Teams. For an assignment exceeding 21 days, two mandatory days off will be
- 23 provided prior to the 22nd day of the assignment.
- 24
- 25 Contracts, Incident Blanket Purchase Agreements (I-BPA), and Emergency
- 26 Equipment Rental Agreements (EERA) should be reviewed for appropriate pay
- 27 requirements and length of assignment. If the contract, I-BPA, or EERA do not
- 28 address this, the incident Finance/Administration Section Chief or the
- procurement official should be consulted as to whether compensation for a dayoff is appropriate.
- 30 OII IS appropria

32 Single Resource/Kind Extensions

- 33 The section chief or Incident Commander will identify the need for assignment
- 34 extension and will obtain the affected resource's concurrence. The section chief
- 35 and affected resource will acquire and document the home unit supervisor's
- 36 approval.
- 37
- 38 The Incident Commander approves the extension. If a convened geographic or
- 39 national multi-agency coordinating group (GMAC/NMAC) directs, the Incident
- 40 Commander approves only after GMAC/NMAC concurrence.

41

- ⁴² If the potential exists for reassignment to another incident during the extension,
- 43 the home unit supervisor and the affected resource will be advised and must
- 44 concur prior to reassignment.
- 45
- 46

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1 Incident Management Team Extensions

- 2 Incident management team extensions are to be negotiated between the incident
- 3 Agency Administrator, the Incident Commander, and the GMAC/NMAC (if
- 4 directed).
- 5

6 Maximum Consecutive Days Worked- Home Unit

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

10 Driving Standard

11

9

- 12 All employees driving motor vehicles are responsible for the proper care,
- operation, maintenance, and protection of the vehicle, and to obey all federaland state laws.
- and stat
- 15
- 16 The use of government-owned, rented, or leased motor vehicles is for official17 business only. Unauthorized use is prohibited.
- 18

19 General Driving Policy

- 20 Employees must have a valid state driver's license in their possession for
- the appropriate vehicle class before operating the vehicle. Operating a
- government-owned or rental vehicle without a valid state driver's license isprohibited.
- 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.
- BLM /FS- Driver training is required prior to operating a vehicle for
 official purposes.
- 29 All traffic violations or parking tickets will be the operator's responsibility.
- 30 All driving requiring a CDL will be performed in accordance with
- applicable Department of Transportation regulations.
- Drivers and all passengers are required to use provided seat belts at all times when the motor vehicle is in motion.
- ³⁴ Employees operating any motor vehicle with a Gross Vehicle Weight
- Rating (GVWR) of 26,000 pounds or more, towing a vehicle 10,000 pounds
- 36 GVWR or more, hauling hazardous material requiring the vehicle to be
- 37 placarded, or transporting 16 or more persons (including the driver) must
- 38 possess a valid Commercial Drivers License (CDL) with all applicable
- ³⁹ endorsements. Program funds are authorized to pay for the cost of CDL
- 40 licensing fees and exams, necessary for employees to operate fire
- 41 equipment. In those cases where a test has been failed and must be retaken,
- the employee will be responsible for costs associated with additional
- 43 testing.
 - **BLM-** BLM Form 1112-11 will be used to document every fire and aviation employee's authorization to drive government vehicles or to
 - drive private or rental vehicles for government business. BLM Form 07-6 Release Date: January 2013
- 07-6

44

45

46

1		1112-11 replaces form OF-345, form DI-131, and any equivalent form that has been created for local or state level use. Employees are	
2 3		required to self-certify their physical ability to operate vehicles which	
3 4		they are authorized to use. Drivers of vehicles that require a	
4 5		Commercial Driver's License may be required to have additional	
6		driver, medical, and fitness testing as required by local and/or state	
7		laws. Employees will immediately inform their supervisor and update	
8		BLM Form 1112-11 if a change in medical condition impedes their	
9		driving ability or if a state driving privilege is restricted for any	
10		reason. Supervisors will review the updated form and take appropriate	
11		action as necessary. BLM Form 1112-11 is available at:	
12		http://web.blm.gov/blmforms/	
13	0	FS - Policy requires all operators of government owned, or leased	
14	-	vehicles to have a Forest Service issued Operator's Identification Card	
15		(OF-346) indicating the type of vehicles or equipment the holder is	
16		authorized and qualified to operate.	
17	0	BLM/FWS/NPS – The DOI has granted wildland fire agencies a	
18		waiver to allow employees between the ages of 18 and 21 to operate	
19		agency commercial fire vehicles using a state issued CDL under the	
20		specific conditions as stated below:	
21		Drivers with a CDL may only drive within the state that has issued	
22		the CDL and must comply with the state's special requirements	
23		and endorsements.	
24		These drivers must only drive vehicles that are equipped with visible	
25		and audible signals, and are easily recognized as fire fighting	
26		equipment. This excludes, but is not limited to, school buses used	
27		for crew transport and "low-boy" tractor trailers used for	
28		construction equipment transport.	
29		• Supervisors must annually establish and document that these drivers	
30		have a valid license (i.e. that the license has not been suspended,	
31		revoked, canceled, or that the employee has not been otherwise	
32		unqualified from holding a license - 485 DM 16.3.B (1), ensure	
33		that the employee has the ability to operate the vehicle(s) safely in the converting of $(485 \text{ DM} + 62 \text{ B} + 2)$ and	
34		the operational environment assigned (485 DM 16.3.B (2), and	
35		review and validate the employee's driving record (485 DM 16.3.B(4)).	
36 37		10.3.D(4)).	
37	Non-In	cident Operations Driving	
38 39		the current driving standards for each individual agency.	
40	iterer ti	, the earrent arrying standards for each individual agency.	
40	Mobiliz	zation and Demobilization	
42			
43			
44	hrs.		

- 45
- 46

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1 Incident Operations Driving

- 2 This policy addresses driving by personnel actively engaged in wildland fire or
- 3 all-hazard activities; this includes driving while in support, mobilization, and
- 4 demobilization to an assigned incident, or during initial attack fire response
- 5 (includes time required to control the fire and travel to a rest location).
- 6 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 dutyday.
- 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.
- 19 As stated in the current agency work/rest policy, documentation of
- 20 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.
- 24

17

18

7

8

25 Fire Vehicle Operation Standards

- 26 Operators of all vehicles must abide by state traffic regulations. Operation of all
- 27 vehicles will be conducted within the limits specified by the manufacturer.
- 28 Limitations based on tire maximum speed ratings and GVWR restrictions must
- 29 be followed. It is the vehicle operator's responsibility to ensure vehicles abide
- ³⁰ by these and any other limitations specified by agency or state regulations.
- 31

32 Management Controls to Mitigate Exposure

- 33
- 34 Management controls, engineering controls, equipment guards, and
- ³⁵ administrative procedures are the first line of defense against exposing an
- ³⁶ employee to a hazard. Personal protective equipment (PPE) will be used to
- 37 protect employees against hazards that exist after all management controls are 38 exhausted.
- 39

40 Wildland Fire Field Attire

- 41
- 42 Polyester, polypropylene, and nylon materials are not to be worn, because most
- 43 synthetic fibers melt when exposed to flame or extreme radiant heat. Personnel
- 44 should wear only undergarments made of 100 percent or the highest possible
- 45 content of natural fibers, aramid, or other flame-resistant materials.
 - 07-8

46

Personal Protective Equipment (PPE) 1

All personnel are required to use Personal Protective Equipment (PPE) 3

appropriate for their duties and/or as identified in JHAs/RAs. Employees must 4

be trained to use safety equipment effectively. 5

6

2

- Flame resistant clothing should be cleaned or replaced whenever soiled, 7
- especially when soiled with petroleum products. Flame resistant clothing will 8
- be replaced when the fabric is so worn as to reduce the protection capability of
- the garment or is so faded as to significantly reduce the desired visibility 10
- qualities. 11

12

- Any modification to personal protective equipment that reduces its protection 13
- capability such as iron-on logos, and stagging of pants, is an unacceptable 14
- practice and will not be allowed on fires. 15

16

Required Fireline PPE includes: 17

- Wildland fire boots • 18
- Fire shelter (M-2002) 19 .
- Hard hat with chinstrap 20 .
- Goggles/safety glasses (as identified by JHAs/RAs) . 21
- Ear plugs/hearing protection 22 •
- Yellow-long-sleeved flame resistant shirt . 23
- . Flame resistant trousers 24
- Leather or leather/flame resistant combination gloves. Flight gloves are not 25 . approved for fireline use. 26
- Additional PPE as identified by local conditions, material safety data sheet 27 . 28 (MSDS), or JHA/RA
- 29
- FS- Shirt, trousers, and gloves used by USFS personnel must meet ο
- 30 Forest Service specification 5100-91 (shirt), 5100-92 (trousers), 6170-31
- 5 (gloves), or be certified to the National Fire Protection Association 32
- (NFPA) 1977, Standard on Protective Clothing and Equipment for 33
- Wildland Fire Fighting. 34
- 35

Wildland Fire Boot Standard 36

- Personnel assigned to wildland fires must wear a minimum of 8-inch high, lace-37
- type exterior leather work boots with Vibram-type, melt-resistant soles. The 8-38
- inch height requirement is measured from the bottom of the heel to the top of the 39
- boot. Alaska is exempt from the Vibram-type sole requirement. 40
- 41
- All boots that meet the wildland fire boot standard as described above are
- 42 43 required for firefighting and fireline visits, considered non-specialized PPE, and
- 44 will be purchased by the employee (including AD/EFF) prior to employment.

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

2

- 5 Fire Shelters
- 6 New Generation Fire Shelters (M-2002, Forest Service Specification 5100-606)
- 7 are required for all wildland firefighters. For more information, refer to
- 8 http://www.nifc.gov/fireShelt/fshelt_main.html

9

- 10 Training in inspection and deployment of new generation fire shelters will be
- 11 provided prior to issuance. Firefighters will inspect their fire shelters at the
- 12 beginning of each fire season and periodically throughout the year, to ensure
- 13 they are serviceable.
- 14
- 15 Training shelters will be deployed at required Annual Fireline Safety Refresher
- 16 Training. No live fire exercises for the purpose of fire shelter deployment
- 17 training will be conducted.

18

- ¹⁹ Fire shelters will be carried in a readily accessible manner by all line personnel.
- 20 The deployment of shelters will not be used as a tactical tool. Supervisors and
- 21 firefighters must never rely on fire shelters instead of using well-defined escape
- 22 routes and safety zones. When deployed on a fire, fire shelters will be left in
- 23 place if it is safe to do so and not be removed pending approval of authorized
- 24 investigators. Firefighters must report the shelter deployment incident to their
- 25 supervisor as soon as possible.
- 26

27 Head Protection

- 28 Personnel must be equipped with hardhats and wear them at all times while on
- 29 the fireline. Hardhats must be equipped with a chinstrap, which must be
- ³⁰ fastened while riding in, or in the vicinity of, helicopters.
- 31 Acceptable hardhats for fireline use are:
- ³² "Wildland Firefighter's Helmet" listed in a current or past edition of the
- GSA Wildland Fire Equipment Catalog. To view a current catalog, go to
 www.gsa.gov/fireprogram; or
- equivalent hardhat meeting the (NFPA) 1977 Standard on Protective Clothing and Equipment for Wildland Fire Fighting requirements, or
- equivalent hardhat meeting ANSI Z89.1-2003 Type 1, Class G or ANSI
- equivalent hardhat meeting ANSI Z89.1-2003 Type 1, Class G or ANSI Z89.1-2009 Type 1, Class G.

39

- 40 Hardhats consist of two components the shell and the suspension which work
- 41 together as a system. Alteration of either of these components compromises the
- 42 effectiveness of the system (e.g. wearing hardhat backwards) and is not allowed.
- 43 Both components require periodic inspection and maintenance. The useful
- 44 service life begins when the hardhat is put into service, not the manufacture date
- 45 specified on the hardhat. Specific inspection and maintenance instructions are

07-10

- 1 found in Missoula Technology and Development Center (MTDC) Tech Tip
- 2 publication, Your Hardhat: Inspection and Maintenance (0267-2331-MTDC).
- 3 http://www.fs.fed.us/t-d/pubs/htmlpubs/htm02672331/index.htm and the
- 4 Hardhat Update: Summer 2012 Notice also issued by MTDC at
- 5 http://www.fs.fed.us/t-d/pubs/htmlpubs/htm12512825/.

7 Eye and Face Protection

8 The following positions require the wearing of eye protection (meets ANSI

- 9 *Z87.1* Standards):
- 10 Nozzle operator
- 11 Chainsaw operator/faller
- 12 Helibase and ramp personnel
- 13 Wildland fire chemical mixing personnel
- Other duties may require eye protection as identified in a specific JHA/RA

¹⁶ Full face protection in the form of a face shield in compliance with ANSI Z87.1

- 17 shall be worn when working in any position where face protection has been
- 18 identified as required in the job specific JHA/RA: Batch Mixing for Terra-
- 19 Torch®, power sharpener operators, etc.

20

21 Hearing Protection

22 Personnel who are exposed to a noise level in excess of 85db must be provided

- 23 with, and wear, hearing protection. This includes, but is not limited to:
- Chainsaw operators/fallers.
- 25 Pump operators.
- Helibase and aircraft ramp personnel.
- Wildland fire chemical mixing personnel.

28

- 29 Other duties may require hearing protection as identified in a specific JHA/RA.
- 30 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
- 32 for specifics regarding unit hearing conservation programs.

33

34 Neck Protection

- ³⁵ Face and neck shrouds are not required PPE. The use of shrouds is not required
- ³⁶ and should be as a result of onsite risk analysis. If used, face and neck shrouds
- 37 shall meet the requirements of FS specification 5100-601 or *NFPA 1977*
- 38 Standard on Protective Clothing and Equipment for Wildland Fire Fighting.

39

- 40 Shrouds should be positioned in a manner that allows for immediate use. For
- 41 additional information see MTDC Tech Tip Improved Face and Neck Shroud
- 42 for Wildland Firefighters, 2004 (0451-2323-MTDC).
- 43 http://fsweb.mtdc.wo.fs.fed.us/pubs/htmlpubs/htm04512323/index.htm
- 44
- 45

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- Leg Protection 1
- All chainsaw operators will wear chainsaw chaps meeting the United States 2
- Forest Service Specification 6170-4F or 4G. Swampers should wear chaps 3
- when the need is demonstrated by a risk analysis considering proximity to the 4
- sawyer, slope, fuel type, etc. All previous Forest Service specification chainsaw 5
- chaps must be removed from service. Chainsaw chaps shall be maintained in 6
- accordance with MTDC Publication, Inspecting and Repairing Your Chainsaw 7
- Chaps User Instructions (0567-2816-MTDC) 8

http://www.fs.fed.us/t-d/pubs/htmlpubs/htm05672816/page01.htm. 9

10

Respiratory Protection 11

Respiratory protection should only be implemented once engineering and 12

- administrative controls are exhausted. The need for respiratory protection 13
- during wildland fire operations must be determined by each agency. The 14
- requirements for respirator use are found in 29 CFR Part 1910.134. 15

16

- Only NIOSH-approved respirators shall be used. Several respiratory-type 17
- products are marketed to wildland firefighters but are not NIOSH-approved (e.g. 18
- shrouds with filtration devices). 19

20

- Managers and supervisors will not knowingly place wildland firefighters in 21
- positions where exposure to toxic gases or chemicals that cannot be mitigated 22
- and would require the use of self-contained breathing apparatus. 23
- 24 Managers will not sign cooperative fire protection agreements that would
- commit wildland firefighters to situations where exposure to toxic gases or 25 chemicals would require the use of self-contained breathing apparatus. 26
- FS FSM 5130- Self-Contained Breathing Apparatus Wildland • 27
- firefighters may use only SCBA which are compliant with NFPA 1981, 28
- Standard on Open-Circuit Self-Contained Breathing Apparatus (SCBA) for 29
- Emergency Services. SCBA may only be used when contaminants from 30
- vehicle, dump, structure, or other non-wildland fuel fire cannot be avoided 31
- while meeting wildland fire suppression objectives (29 CFR 1910.134, 32
- Respiratory Protection). If such an apparatus is not available, avoid 33
- exposure to smoke from these sources. The acquisition, training, proper 34
- use, employee health surveillance programs, inspection, storage, and 35
- maintenance of respiratory protection equipment must comply with
- 36
- 37 applicable National Fire Protection Association standards and 29 CFR
- 1910.134, and be justified by a Job Hazard Analysis. Where the acquisition 38
- and use of an SCBA is approved, it may be carried only on a fire engine and 39
- its use must be consistent with FSM 5130. 40
- 41

Specialized or Non Standard Personal Protective Equipment (PPE) 42

- Specialized PPE not routinely supplied by the agency (e.g. prescription safety 43
- glasses, static-resistant clothing, cold weather flame resistant outerwear, etc.) 44
- required to perform a task safely must be procured in accordance with agency 45
- direction, and supported by a JHA/Risk Assessment. 46

07-12

- 1 A JHA/Risk Assessment must be completed and reviewed by the Unit Safety
- 2 Officer and the supervisor's approval is required. Items must meet agency and
- ³ industry standards for specific intended use. Cold weather flame resistant
- 4 outerwear shall be in compliance with NFPA 1977, Standard on Protective
- 5 Clothing and Equipment for Wildland Fire Fighting. All cold weather inner
- 6 wear should be composed of 100% or the highest possible content of natural
- 7 fibers (cotton, wool or silk) or other flame resistant material such as aramid.
- 9 High Visibility Vests
- 10 In order to meet 23 CFR 634, high visibility apparel should be worn whenever a
- 11 firefighter is working on or in the right of way of a public roadway.
- 12

- ¹² Employees must wear high visibility safety apparel that meets ANSI/ISEA 107-
- 14 2004, Class 2 or 3, or ANSI/ISEA 207-2006.

15

16 Exceptions:

- 17 The high visibility safety apparel should not be worn if:
- There is a reasonable chance that the employee may be exposed to flames,
 high heat, or hazardous materials.
- 20 The high visibility garment hinders an employee's ability to do their job
- because it prevents necessary motion or because it limits access to
- 22 necessary equipment such as radios or fire shelters.

23

- 24 Additional information is available in the Missoula Technology and
- 25 Development Center (MTDC) report, High-Visibility Garments and Worker
- 26 Safety on Roadways (1251-2818P-MTDC).
- 27 http://fsweb.mtdc.wo.fs.fed.us/pubs/htmlpubs/html12512818

28

29 Fireline Safety

30

- 31 Incident Briefings
- ³² Fire managers must ensure that safety briefings are occurring throughout the fire
- ³³ organization, and that safety factors are addressed through the IC or their
- ³⁴ designee and communicated to all incident personnel at operational briefings.
- ³⁵ The identification and location of escape routes and safety zones must be
- 36 stressed. A briefing checklist can be found in the Incident Response Pocket
- 37 Guide (IRPG).

38

39 LCES - A System for Operational Safety

- 40 LCES will be used in all operational briefings and tactical operations as per the
- 41 Incident Response Pocket Guide (IRPG).
- 42 L Lookout(s)
- 43 C Communication(s)
- 44 E Escape Route(s)
- 45 S Safety Zone(s)
- 46

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1 Right to Refuse Risk

- 2 Every individual has the right to turn down unsafe assignments. When an
- 3 individual feels an assignment is unsafe, they also have the obligation to
- ⁴ identify, to the degree possible, safety alternatives for completing that
- 5 assignment. The IRPG contains a process for How to Properly Refuse Risk.

6

7 Smoke and Carbon Monoxide

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

13

9

- 14 From an incident management perspective, smoke impacts need to be analyzed
- 15 and a risk assessment completed using the ICS-215A, Incident Action Plan
- 16 Safety Analysis worksheet. For additional information, reference NWCG memo
- 17 NWCG#006-2012, Monitoring and Mitigating Exposure to Carbon Monoxide
- 18 and Particulates at Incident Base Camps at
- 19 http://www.nwcg.gov/general/memos/nwcg-006-2012.html.

20

21 Location of Fire Camps and Plans to Remain in Place

- 22 Fire camps should be located in areas that will service the incident for the long
- 23 term without having to relocate. Due to such factors as extreme fire behaviors,
- 24 fire camp locations might be compromised. Incident Commanders are to be
- ²⁵ especially vigilant to quickly identify situations that may put their fire camp(s)
- 26 or any other adjacent fire camps in jeopardy. As such, planning for evacuation
- 27 and/ or remain in place actions should be considered. Evacuation plans at a
- 28 minimum shall include:
- 29 Documented risk assessment
- 30 Trigger points
- 31 Egress routes
- 32 Transportation for all personnel
- 33 Accountability for all personnel
- Those individuals not meeting 310-1 qualifications will be considered escorted visitors as addressed elsewhere in this chapter.
- o **FS-** At a minimum, plans shall also include:
- *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.
- 39 40
- 41 Standard Safety Flagging
- 42 The NWCG recommends the following Safety Zone/Escape Route flagging for 43 wildland fire activities:
- 44 Hot-pink flagging marked "Escape Route" (NFES 0566). Crews with
- 45 colorblind members may wish to carry and utilize fluorescent chartreuse46 flagging (NFES #2396).

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- 1 Hazards. Yellow with black diagonal stripes, 1 inch wide (NFES 0267). If
- 2 the above recommendation is not utilized on an incident, the incident will
- ³ need to identify the selected color and make it known to all firefighters.

5 Emergency Medical Planning and Services

6

4

- 7 To provide for quick and effective response, all units (including dispatch
- 8 centers) will develop and implement plans that specify emergency procedures,
- 9 actions, and roles/responsibilities to ensure injured personnel are provided
- ¹⁰ prompt and effective medical care and evacuation.
- 11
- 12 Incident Emergency Management Planning
- 13 In 2010, NWCG approved the standardized incident emergency protocol
- 14 developed by the Dutch Creek Serious Accident Task Team, and issued
- 15 direction that these emergency medical procedures be adopted by all IMT's
- 16 during daily operations.
- 17
- 18 Although some of the procedures are specific to larger Type 1 and Type 2
- 19 incidents when key unit leader positions are filled, these same procedures and
- 20 protocols can be adapted for local unit use when managing Type 5, 4, and 3
- 21 incidents as well as during normal field operations. Local unit emergency
- 22 medical plans must take into account all types and management levels of
- 23 incidents.
- 24
- To achieve successful medical response, Agency Administrators will ensure that their units have completed the following items prior to each field season:
- 27 An Incident Emergency Plan that identifies medical evacuation options,
- 28 local/county/state/federal resource capabilities, capacities, ordering
- procedures, cooperative agreements, role of dispatch centers, and key
 contacts or liaisons;
- Standardized communication center protocols that include the following
 components:
- o Determine the nature of the emergency;
- If the emergency is a medical injury/illness, determine if the
 injury/illness is life threatening;
- If the injury is life threatening, then clear designated frequency for
 emergency traffic;
- Identify the on-scene point of contact by position and last name (i.e.
 TFLD Smith);
- Ensure that the Medical Unit Leader (if assigned) is contacted
 immediately;
- Identify number injured, patient assessment(s) and location (geographic and/or GPS coordinates);
- Identify on-scene medical personnel by position and last name (i.e.
- 45 EMT Jones);
- o Identify preferred method of patient transport;

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- Determine any additional resources or equipment needed;
 - Document all information received and transmitted on the radio or phone;
- Document any changes in the on-scene point of contact or medical personnel as they occur;
- 6 For incidents that require the preparation of an IAP, an incident medical
- 7 plan that satisfies the requirements found in NWCG memo number 025-
- 8 2010 is required, and will include an expanded block eight of the ICS-206
- 9 Medical Plan detailing available resources (ground and air), roles,
- 10 responsibilities, and hazard mitigations.

1

2

3

4

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- 12 For more information, refer to NWCG 025-2010 at
- 13 http://www.nwcg.gov/general/memos/nwcg-025-2010.html
- 14

15 Air Ambulance Coordination

- ¹⁶ Unit and state/regional level fire program managers should ensure that
- 17 procedures, processes, and/or agreements for use of local and regional air
- 18 ambulance services are stated in writing and effectively coordinated between the
- 19 fire programs, the dispatch/logistics centers, and the service providers.

20

21 Incident Emergency Medical Services

- 22 Agencies will follow interim NWCG minimum standards for incident
- 23 emergency medical services as defined in Appendix K (NWCG#011-2208) to
- 24 assist wildland fire Incident Commanders with determining the level and
- 25 number of emergency medical resources and related supplies needed based upon
- ²⁶ the number of incident personnel. This standard as well as other incident
- 27 medical information can be found on the NWCG Incident Emergency Medical
- 28 Subcommittee website at:
- 29 http://www.nwcg.gov/branches/pre/rmc/iems/index.html

30

- 31 Incidents that have established Medical Units shall follow the direction as
- 32 outlined in Interim NWCG Minimum Standards for Medical Units Managed By
- 33 *NWCG Member Agencies* at:
- 34 http://www.nwcg.gov/branches/pre/rmc/iems/policyguides/minimum stds for
- 35 medical_units.pdf

36

- 37 NWCG has published *Clinical Treatment Guidelines for Wildland Fire Medical*
- 38 Units (PMS 551). These guidelines establish a national approach for medical
- ³⁹ care during large incidents that expand the typical emergency management
- ⁴⁰ services (EMS) scope of practice to include the mission of managing and
- 41 maintaining the health and wellness of wildland fire personnel. These
- 42 guidelines are available at:
- 43 http://www.nwcg.gov/branches/pre/rmc/iems/index.html
- 44
- 45 Home units that choose to utilize and support higher level medical responders to
- 46 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

5

Required Treatment for Burn Injuries

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

8

9 After on-site medical response, initial medical stabilization, and evaluation are

- 10 completed, the Agency Administrator or designee having jurisdiction for the
- 11 incident and/or firefighter representative (e.g. Crew Boss, Medical Unit Leader,
- 12 Compensations for Injury Specialist, etc.) should coordinate with the attending
- 13 physician to ensure that a firefighter whose injuries meet any of the following 14 burn injury criteria is immediately referred to the nearest regional burn center.

14 15

- ¹⁶ It is imperative that action is expeditious, as burn injuries are often difficult to
- evaluate and may take 72 hours to manifest themselves. These criteria are based
- ¹⁷ upon American Burn Association criteria as warranting immediate referral to an
- ¹⁹ accredited burn center.

20

- 21 The decision to refer the firefighter to a regional burn center is made directly by
- 22 the attending physician or may be requested of the physician by the Agency
- 23 Administrator or designee having jurisdiction and/or firefighter representative.

24

- 25 The Agency Administrator or designee for the incident will coordinate with the
- 26 employee's home unit to identify a Workers Compensation liaison to assist the
- 27 injured employee with workers compensation claims and procedures.
- 28 Workers Compensation benefits may be denied in the event that the attending
- ²⁹ physician does not agree to refer the firefighter to a regional burn center.

30

- 31 During these rare events, close consultation must occur between the attending
- 32 physician, the firefighter, the Agency Administrator or designee and/or
- 33 firefighter representative, and the firefighter's physician to assure that the best
- ³⁴ possible care for the burn injuries is provided.

35

36 Burn Injury Criteria

- 37 Partial thickness burns (second degree) involving greater than 5% Total
- 38 Body Surface Area (TBSA).
- Burns (second degree) involving the face, hands, feet, genitalia, perineum,
 or major joints.
- Third-degree burns of any size are present.
- 42 Electrical burns, including lightning injury are present.
- 43 Inhalation injury is suspected.
- Burns are accompanied by traumatic injury (such as fractures).
- 45 Individuals are unable to immediately return to full duty.

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- When there is any doubt as to the severity of the burn injury, the
 - recommended action should be to facilitate the immediate referral and
 - transport of the firefighter to the nearest burn center.
- 5 A list of burn care facilities can be found at:
- 6 http://www.blm.gov/nifc/st/en/prog/fire/im.html.
- 7
- 8 For additional NWCG incident emergency medical information see:
- 9 http://www.nwcg.gov/branches/pre/rmc/iems/index.html

2

3 4

- 11 Explosives, Munitions, and Unexploded Ordnance
- 12
- 13 When encountering explosives, munitions, unexploded ordinance (UXO), or
 - 14 suspected UXO, never pick up, handle, uncover, or touch suspected explosives
 - 15 or military munitions. Retreat and secure the area from entry. Immediately
 - 16 notify the local dispatch office, and gather as much information as possible from
 - 17 a safe distance.

18

- 19 Gather the following information and provide it to the dispatch center:
- 20 Location of the explosive/munitions using a map, GPS coordinates, or
- landmarks (use of a GPS receiver is acceptable because it is a receive-only
 device).
- 23 Picture of the explosive if it can be obtained from a safe distance.
- Who discovered the explosive/munitions and how they can be contacted.
- Condition of the explosive/munitions (e.g., buried, partially exposed, fully
 exposed, deteriorated, or punctured).
- Number and type of explosive/munitions visible (e.g., blasting caps, dynamite, bomb, grenade, etc.).
- 29 Estimated size of explosive/munitions (e.g., length and diameter).
- ³⁰ Distinctive features of explosive/munitions (e.g., shape, color, markings).
- Nearby structures, if any (so inhabitants can be contacted and evacuated if necessary).
- ³³ Public access to the vicinity (i.e., open or closed to motor vehicles).

34

- 35 Never spend more time near munitions, suspected explosives, or UXO than is
- ³⁶ absolutely necessary. Only collect the above information as long as it is safe to
- 37 do so from a distance. Never compromise safety to collect information.
- 38

07-18

- 39 Notifications
- 40 Local dispatch centers are responsible for notifying:
- 41 Agency law enforcement;
- 42 Unit safety officer;
- 43 Agency Administrator; and
- 44 Local law enforcement.

Discovery of Explosives/Munitions/UXO Associated with Former Defense 1

- Sites 2
- The military retains liability and responsibility for munitions removal and for 3
- remedial actions on all lands transferred (or transferring) from the military to the 4
- land management agencies, and is responsible for explosives safety at former 5
- defense sites. The military must be notified for all UXO on these lands. 6

7

- Local law enforcement is responsible for contacting the appropriate military 8
- authority. If the responsible military unit is unknown, then local law 9
- enforcement should contact the U.S. Army Forces Command (FORSCOM), 10
- 52nd Ordnance Group (EOD), at its 24-hour emergency response number, (931) 11
- 431-3824. 12
- 13
- For additional UXO safety information, see the current IRPG. 14

15

Industrial and Naturally Occurring Hazardous Exposures 16

17

- Firefighters can potentially be exposed to hazards in the wildland fire 18
- environment. Encountered hazards can be both human and environmentally 19
- borne. 20

21

34

- This section provides information and mitigations for most commonly 22
- encountered industrial and naturally occurring potential exposures. Recognizing 23
- 24 there may be unique/area specific hazardous exposures (e.g., fungus causing
- valley fever, erionite, coal seams), the following standards apply to all hazards: 25
- Identifying unit-specific environmental hazards; • 26
- Develop Risk Assessments/Job Hazard Analyses (RA/JHAs) for those 27 • hazards: 28
- Develop and provide specific training and standard operating procedures 29 . 30 (SOPs);
- Provide briefings/training for those who may be exposed; 31 .
- If exposure is suspected, immediately disengage and leave the area; and 32 .
- Seek immediate medical attention if exposure symptoms occur. 33 •

Dump and Spill Sites 35

- 36 Employees that discover any unauthorized waste dump or spill site that contains
- indicators of potential hazardous substances (e.g., containers of unknown 37
- substances, pools of unidentifiable liquids, piles of unknown solid materials, 38
- unusual odors, or any materials out of place or not associated with an authorized 39 activity) should take the following precautions: 40
- Follow the procedures in the IRPG; 41 •
- Treat each site as if it contains harmful materials; 42 •
- Do not handle, move, or open any container, breathe vapors, or make 43 .
- 44 contact with the material;
- Move a safe distance upwind from the site; 45 •

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- 1 Contact appropriate personnel. Generally, this is the Hazardous Materials
- 2 Coordinator for the local office; and
- Firefighters need to immediately report hydrogen sulfide (H₂S) or potential
 exposure and seek immediate medical care.
- 5 **BLM/FWS/NPS** Agencies require that all field personnel complete First
 - Responder Awareness training. Firefighters are required to take an annual refresher for Hazardous Material protocol.
- 7 8

9 The following general safety rules shall be observed when working with 10 chemicals:

- 11 Read and understand the Material Safety Data Sheets.
- 12 Keep the work area clean and orderly.
- ¹³ Use the necessary safety equipment.
- 14 Label every container with the identity of its contents and appropriate
- 15 hazard warnings.
- 16 Store incompatible chemicals in separate areas.
- 17 Substitute less toxic materials whenever possible.
- Limit the volume of volatile or flammable material to the minimum needed
 for short operation periods.
- 20 Provide means of containing the material if equipment or containers should
- 21 break or spill their contents.

22

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

- 24 For those offices with oil and gas operations within their fire suppression
- ²⁵ jurisdiction, the following is the minimum standard operating procedures to help
- ²⁶ ensure the health and safety of wildland firefighters:
- Firefighters shall receive annual oil and gas hazard recognition and
 mitigation training;
- Local unit shall complete a JHA/RA for wildland fire suppression activities
 in oil and gas areas and provide a copy with a briefing to all local and
- 31 incoming resources;
- 32 Establish Response Protocols and proper decontamination procedures to
- minimize exposure to additional employees, equipment, and facilities.
- Protocols will include notification procedures to respective oil and gas
 company(s);
- Ensure oil and gas resource advisors are consulted;
- 57 Ensure that at least one member of each squad or engine crew is
- $_{38}$ knowledgeable in the use and data interpretation of the H₂S gas monitor.
- ³⁹ Training on the device will include at a minimum:
- 40 Equipment charging and maintenance of sensors;
- Startup, zeroing, calibration, and bump testing procedures as
 recommended by the manufacturer; and
- 43 **o** How the monitor elicits a warning alarm (visual, auditory, vibration).
- 44 Understand Peak Reading, Short Term Exposure Limits (STEL), and Time
- 45 Weighted Averages;

07-20

- Understand how to set the monitors alarm threshold.
- 2 The monitor's alarm shall be set at the current American Conference on
- 3 Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (10
- 4 PPM 2008) and STEL (15 PPM 2008);
- 5 If H₂S gas is encountered, immediately disengage and leave area; and
- Do not establish incident base camps or staging areas in or near oil and gas
 operations.

1

- 9 The following websites provide additional information and training resources:
- 10 http://www.nifc.gov/video/HazMat.wmv
- 11 http://iirdb.wildfirelessons.net/main/Reviews.aspx
- 12 www.nfpa.org/assets/files/pdf/Sup10.pdf

13

14 Responding to Wildland Fires in or Near Radioactive Locations

15 Abandoned uranium mines and other potential radioactive sites exist in many

16 areas of public lands. When these areas are identified, local management should

- 17 provide information and direction on operations to be used. General knowledge
- 18 and understanding of potential radiation exposure is necessary for wildland fire
- 19 program management to make valid risk management decisions in these areas.
- 20 The following websites provide this information and general guidelines:
- 21 http://www.nifc.gov/policies/red_book/doc/RadiationDocument.pdf
- 22 http://www.nifc.gov/policies/red_book/doc/RadiationGuidance.pdf

23

24 Hazardous Water Sources

- 25 Many water sources used during fire suppression activities may appear
- ²⁶ harmless, but contain hazardous materials (e.g. hydraulic fracturing fluid,
- 27 cyanide, sewage, corrosives). These hazardous water sources may pose threats
- 28 to personnel health and firefighting equipment. Indicators that a water source
- ²⁹ may be hazardous include proximity to active or inactive mining operations,
- 30 gas/oil wells, water treatment facilities, or other industrial operations. In many
- 31 cases, these hazardous water sources may not be fenced and no warning signs
- 32 may be present.
- 33
- 34 Suppression personnel should evaluate water sources to ensure they do not
- 35 contain hazardous materials. If unsure of the contents of a water source,
- ³⁶ personnel should not utilize the water source until its contents can be verified.
- 37 Dispatch centers, Resource Advisors, or on-scene personnel can assist with
- 38 verification of safe water sources. Information about known hazardous water
- 39 sources should be included in operational briefings.
- 40

41 Hydrogen Cyanide (HCN) Exposure

- 42 Synthetic materials such as plastics, nylon, Styrofoam®, and polyurethane can
- ⁴³ produce HCN. HCN exposure can disrupt the body's ability to use oxygen,
- 44 cause asphyxia, and cause carbon monoxide poisoning. Common items such as

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- 1 sofas, carpeting, vehicles, and other products routinely found in the wildland can
- 2 produce smoke with HCN.
- 3 4
 - Symptoms of HCN poisoning include bitter almond odor on breath, burning
- 5 taste in mouth, stiffness of lower jaw, feeling of numbness or constriction in
 - throat, weakness, and headache.

- 8 Follow hazardous materials protocols contained in the IRPG to mitigate
- 9 exposure to HCN. If personnel may have been exposed to HCN, immediate
- ¹⁰ referral to a health care facility capable of toxicology testing and treatment of
- 11 HCN exposure is required.
- 12

13 Safety for Non-Operational Personnel Visiting Fires

- 14
- 15 A wide variety of personnel such as Agency Administrators, other agency
- 16 personnel, dignitaries, members of the news media, etc., may visit incidents.
- 17 The following standards apply to all visitors.

18

19 Visits to an Incident Base

- 20 Recommended field attire for visits to incident base camps and other non-
- 21 fireline field locations:
- 22 Lace-up, closed toe shoes/boots with traction soles and ankle support.
- 23 Trousers.
- Long-sleeve shirt.
- For agency personnel, the field uniform is appropriate.

26

27 Fireline Logistical Support

- 28 Personnel performing fireline logistical support duties (e.g. bus drivers, supply
- delivery/retrieval, incident drivers, non-tactical water delivery, etc.) must meetthe following requirements:
- Complete fire shelter training
- 31 Complete file sheller
 32 Fireline PPE
- Receive an incident briefing
- 34 Ensure adequate communications are established
- 35 Other requirements (if any) established by the Incident Commander
- 36 A Work Capacity Test (WCT) is not required unless required for a specific
- position defined in the PMS 310-1.

38

39 Minimum Requirements for Visits to the Fireline/RX Burns

- 40 Visits (such as media visits or political/administrative tours) to hazardous areas
- 41 of the fire or areas that pose a fire behavior threat will be managed by meeting
- 42 the requirements below.
- 43 Visits to the fireline must have the approval of the IC/Burn Boss.
- 44 Visitors must maintain communications with the DIVS or appropriate
- ⁴⁵ fireline supervisor of the area they are visiting.

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- 1 Required PPE:
 - Wildland fire boots.
 - Yellow long-sleeved flame resistant shirts.
- Flame resistant trousers.
- Hard hat with chinstrap.
- Leather or leather/flame resistant combination gloves. Flight gloves are not approved for fireline use.
- Fire shelter (M-2002), must also receive fire shelter training.
- 9 Required field attire:
 - Undergarments made of 100 percent or the highest possible content of natural fibers or flame-resistant materials.
- 12 Required equipment/supplies:
- 13 **o** Hand tool.
- 14 **o** Water canteen.
- 15

3

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11

16 Visitors to the Fireline/RX Burns may be "Non-Escorted" or "Escorted"

17 depending on the following requirements:

18

19 Non-Escorted Visits

- 20 Visitors must have an incident qualification with a minimum physical fitness
- 21 level of "light" to visit the fireline unescorted.
- 22 Must have adequate communications and radio training.
- 23 Completed the following training:
- o Introduction to Fire Behavior (S-190).
- o Firefighter Training (S-130).
 - Annual Fireline Safety Refresher Training, including fire shelter training.
- Deviation from this requirement must be approved by the IC or Burn Boss.
- 29 The law enforcement physical fitness standard is accepted as equivalent to a
- 30 "light" WCT work category.

31

26

27

32 **Escorted Visits**

- 33 All non-incident, non-agency visitors lacking the above training and physical
- ³⁴ requirements must be escorted while on the fireline.
- 35 Visitors must receive training in the proper use of PPE.
- ³⁶ Requirement for hand tool and water to be determined by escort.
- 37 Visitors must be able to walk in mountainous terrain and be in good
- ³⁸ physical condition with no known limiting conditions.
- 39 Escorts must be minimally qualified as Single Resource Boss. Any
- 40 deviation from this requirement must be approved by the IC or Burn Boss.

41

42 Helicopter Observation Flights

- 43 Visitors who take helicopter flights to observe fires must receive approval from
- 44 the Incident Commander, a passenger briefing, and meet the following
- 45 requirements:

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- 1 Required PPE:
 - Flight helmet
- 3 o Leather boots
 - Flame-resistant clothing
 - All leather or leather and aramid gloves

6 Occasional passengers/visitors have no training requirement, but a qualified

7 flight manager must supervise loading and unloading of passengers.

8

2

4

5

9 Fixed-Wing Observation Flights

10 No PPE is required for visitors and agency personnel who take fixed-wing

11 flights to observe fires. However, a passenger briefing is required, and the flight

12 level must not drop below 500 feet AGL.

13

14 Six Minutes for Safety Training

15

¹⁶ It is recommended that daily Six Minutes for Safety training be conducted that

- 17 focuses on high-risk, low frequency activities that fire personnel may encounter
- ¹⁸ during a fire season. A daily national Six Minutes for Safety briefing can be
- 19 found at: http://www.nifc.gov/sixminutes/dsp_sixminutes.php or the National
- 20 Incident Management Situation Report.

21

22 SAFENET

23

- 24 SAFENET is a form, process, and method for reporting and resolving safety
- 25 concerns encountered in any aspect (e.g., preparedness, training, etc.) of
- 26 wildland fire or all hazard incident management. The information provided on
- 27 the form will provide important, safety-related data to the National Interagency

28 Fire Center, and determine long-term trends and problem areas.

29 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.
- To provide long-term data that will assist in identifying trends.
- 35 Primarily intended for wildland and prescribed fire situations, however,
- 36 SAFENET can be used for training and all hazard events.

37

- 38 Individuals who observe or who are involved in an unsafe situation shall initiate
- ³⁹ corrective actions if possible, and then report the occurrence using SAFENET.
- 40 You are encouraged, but not required, to put your name on the report.
- 41 Prompt replies to the originator (if name provided), timely action to correct the
- 42 problem, and discussion of filed SAFENETs at local level meetings encourage
- 43 program participation and active reporting.
- 44 45
 - SAFENET is not the only way to correct a safety-related concern and it does not
- replace accident reporting or any other valid agency reporting method. It is an
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- 1 efficient way to report a safety concern. It is also a way for front line
- 2 firefighters to be involved in the daily job of being safe and keeping others safe,
- ³ by documenting and helping to resolve safety issues. SAFENETs may be filed:
- 4 Electronically at http://safenet.nifc.gov;
- 5 Verbally by telephone at 1-888-670-3938; or
- By SAFENET Field Card

8 The SAFENET Field Card is can be used by wildland fire personnel to

9 immediately identify and report unsafe situations or close calls that should

- 10 receive immediate resolution/mitigation. If the situation cannot be resolved at
- 11 the local/incident level, the reporting individual is encouraged to follow the
- 12 formal SAFENET submission process stated above. SAFENET Field Cards are
- 13 available at: http://safenet.nifc.gov

14

15 Accident/Injury Reporting

16

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

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

26

27 Employees are required to immediately report to their supervisor every job-

- 28 related accident. Managers and supervisors shall ensure that an appropriate
- ²⁹ level of investigation is conducted for each accident and record all personal

30 injuries and property damage. Coordinate with your human resources office or

- 31 administrative personnel to complete appropriate Office of Worker's
- 32 Compensation (OWCP) forms. Reporting is the responsibility of the injured
- ³³ employee's home unit regardless of where the accident or injury occurred.
- **DOI-** employees will report accidents using the Safety Management
- 35 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
- 38 (SHIPS) through the Forest Service Dashboard at
- 39 http://fsweb.asc.fs.fed.us/HRM/owcp/WorkersComp_index.php

41 Critical Incident Management

42

40

- 43 The NWCG has published the *Agency Administrator's Guide to Critical*
- 44 Incident Management (PMS 926). This guide is designed as a working tool to
- 45 assist Agency Administrators with the chronological steps in managing a critical

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- 1 incident. This document includes a series of checklists, which outline Agency
- 2 Administrator's and other functional area's oversight and responsibilities. The
- ³ guide is not intended to replace local emergency plans or other specific guidance
- ⁴ that may be available, but should be used in conjunction with existing SOPs.
- 5 Local units should complete the guide, and review and update at least annually.
- 6 This guide is only available electronically at:
- 7 http://www.nwcg.gov/pms/pubs/htm.

9 Critical Incident Stress Management (CISM)

10

- 11 A critical incident may be defined as a fatality or other event that can have
- 12 serious long term affects on the agency, its employees and their families or the
- 13 community. Such an event may warrant stress management assistance. The
- 14 local Agency Administrator may choose to provide CISM for personnel that
- 15 have been exposed to a traumatic event.

16

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- 17 The availability of CISM teams and related resources (e.g. defusing teams)
- 18 varies constantly it is imperative that local units pre-identify CISM resources
- 19 that can support local unit needs. Some incident management teams include
- ²⁰ personnel trained in CISM who can provide assistance.