Chapter 18 Reviews, Investigations &Analyses

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Introduction

Reviews and investigations are used by wildland fire and aviation managers to assess and improve the effectiveness and safety of organizational operations.

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Reviews

- Reviews are methodical examinations of system elements such as; program management, safety, leadership, operations, preparedness, training, staffing, business practices, budget, cost containment, planning, and interagency or intraagency cooperation and coordination. Reviews do not have to be associated with a specific incident. The purpose of a review is to ensure the effectiveness of the system element being reviewed, and to identify deficiencies and recommend specific corrective actions. Established review types are described below and include:
- Preparedness review
- After action review
- Fire and aviation safety team review
 - Aviation safety assistance team review
- Large Fire Cost Reviews
- 22 Individual fire review
 - Lessons learned review
- Escaped prescribed fire review

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Preparedness Reviews

- Fire preparedness reviews assess fire programs for compliance with established fire policies and procedures outlined in the current *Interagency Standards for Fire and Fire Aviation Operations* and other pertinent policy documents.

 Reviews identify; organizational, operational, procedural, personnel, or equipment deficiencies, and recommend specific corrective actions. Interagency Preparedness Review Checklists can be found at:
- http://www.nifc.gov/policies/preparedness_reviews/preparedness_reviews.htm

 **BLM/FS Preparedness review functional checklists that can be found at:

 http://www.blm.gov/nifc/st/en/prog/fire/fireops/preparedness/preparedness_
 review.html.

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After Action Reviews (AAR)

- An AAR is a learning tool intended for the evaluation of an incident or project in order to improve performance by sustaining strengths and correcting weaknesses. An AAR is performed as soon after the event as possible by the personnel involved. An AAR should encourage input from participants that is focused on:
- what was planned?
- what actually happened?

- why it happened?
- what can be done the next time?

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It is a tool that leaders and units can use to get maximum benefit from the

experience gained on any incident or project. When possible, the leader of the

incident or project should facilitate the AAR process. However, the leader may

choose to have another person facilitate the AAR as needed and appropriate.

AARs may be conducted at any organizational level. However, all AARs follow

the same format, involve the exchange of ideas and observations, and focus on

improving proficiency. The AAR should not be utilized as an investigational

review. The format can be found in the *Interagency Response Pocket Guide* (IRPG), PMS #461, NFES #1007

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Fire and Aviation Safety Team (FAST) Reviews

Fire and Aviation Safety Teams assist agency administrators during periods of high fire activity by assessing policy, rules, regulations, and management oversight relating to operational issues. They can also do the following:

- 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*.

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FAST reviews can be requested through geographic area coordination centers to conduct reviews at the state/regional and local level. If a more comprehensive review is required, a national FAST can be ordered through the National Interagency Coordination Center.

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FASTs include a team leader, who is either an agency administrator or fire program lead with previous experience as a FAST member, a safety and health manager, and other individuals with a mix of skills from fire and aviation management.

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FASTs will be chartered by their respective Geographic Area Coordinating Group (GACG) with a delegation of authority, and report back to the GACG.

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Fast reports will include an executive summary, purpose, objectives,

methods/procedures, findings, recommendations, follow-up actions (immediate,

long-term, national issues), and a letter delegating authority for the review.

FAST reports should be submitted to the geographic area with a copy to the

⁴² Federal Fire and Aviation Safety Team (FFAST) chair within 30 days. See

43 Appendix O for sample FAST Delegation of Authority.

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Aviation Safety Assistance Team (ASAT) Reviews

- 2 During high levels of aviation activity it is advisable to request an Aviation
- Safety Assistance Team (ASAT). The team's purpose is to assist and review
- 4 helicopter and/or fixed wing operations on ongoing wildland fires. An ASAT
- team should be requested through the agency chain of command and operate
- 6 under a delegation from the appropriate state/regional aviation manager or
- 7 multi-agency coordinating group. Formal written reports will be provided to the 8 appropriate manager. An ASAT should consist of:
- Aviation Safety Manager
- Operations Specialist (helicopter and/or fixed wing)
- Pilot Inspector
- Maintenance Inspector (optional)
- Avionics Inspector (optional)

Large Fire Cost Reviews

Information on large fire cost reviews can be found in Incident Management, and at http://www.nwcg.gov/general/memos/nwcg-003-2009.html

Individual Fire Reviews

Individual fire reviews examine all or part of the operations on an individual fire. The fire may be ongoing or controlled. These reviews may be a local, state/regional, or national. These reviews evaluate decisions and strategies, correct deficiencies, identify new or improved procedures, techniques or tactics, determine cost-effectiveness, and compile and develop information to improve local, state/regional or national fire management programs.

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Near misses or successful operations should be reported to first line supervisors.

Supervisors will notify the unit fire management officer, the unit fire
management officer will then notify their agency administrator. In cases of
entrapment near misses, notification to the respective agency's national fire
office is required. The determination for review/investigation level will be made

• NPS - Park Units will notify Regional FMOs of the need for review or investigation.

Lessons Learned Reviews (LLR)

from the national level.

The purpose of a LLR is to focus on the near miss events or conditions in order to prevent potential serious incident in the future. In order to continue to learn from our near misses and our successes it is imperative to conduct a LLR in an open, non-punitive manner. LLRs are intended to provide educational opportunities that foster open and honest dialog and assist the wildland fire community in sharing lessons learned information. LLRs provide an outside perspective with appropriate technical experts assisting involved personnel in identifying root causes and sharing findings and recommendations.

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LLR Process

An LLR should be tailored to the event being reviewed and the extent of the

- review should be commensurate with the severity of the incident being
- 4 reviewed. An LLR should not be used in lieu of a Serious Accident
- 5 Investigation (SAI) if the SAI criteria have been met.

A LLR will be led by a facilitator not involved in the event. A facilitator should
be an appropriate fire management expert who possesses skills in interpersonal
communications, organization, and be unbiased to the event. Personnel
involved in the event will be participants in the review process. Depending
upon the complexity of the event, the facilitator may request assistance from
technical experts (e.g., fire behavior, fire operations, etc.).

The LLR facilitator will convene the participants and:

- Obtain delegation of authority from appropriate agency level. See appendix K for a sample LLR Delegation of Authority.
- Identify facts of the event (sand tables maybe helpful in the process) and develop a chronological narrative of the event.
- Identify underlying reasons for success or failure.
- Identify what individuals learned and what they would do differently in the
 future.
- Identify any recommendations that would prevent future similar
 occurrences.
- Provide a final written report including the above items to the pertinent
 agency administrator(s) within two weeks of event occurrence. Names of
 involved personnel should not be included in this report (reference them by
 position).

A copy of the final report will be submitted to the respective agency's national fire safety lead who will provide a copy to the Wildland Fire Lessons Learned Center (WFLLC). Website: http://wildfirelessons.net/Home.aspx.

• FS - The Forest Service has developed two processes for conducting Lessons Learned Reviews: the Facilitated Learning Analysis (FLA) and the Accident Prevention Analysis (APA). Guides have been produced for these processes and are available from Regional and National risk management and safety personnel.

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Declared Wildfire Reviews

- Escaped prescribed fire review direction is found in Chapter 18 of this document and in these agency documents:
- Interagency Prescribed Fire Planning and Implementation Procedures Reference Guide (August 2008)
- BLM IM No. OF&A 2009-014
- FWS Fire Management Handbook
- NPS RM-18, Chapter 7 & 17
- FS FSM 5140

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Investigations

- Investigations are detailed and methodical efforts to collect and interpret facts related to an incident or accident, identify causes (organizational factors, local workplace factors, unsafe acts), and develop control measures to prevent recurrence. Established investigation types include:
- Serious wildland fire accident investigation.
- Non-serious wildland fire accident investigation.
- Entrapment/ burnover investigation.
- Fire shelter deployment investigation.
- Fire trespass investigation.

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Wildland Fire Accident and Event Definitions

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4 Notification

- Near misses or successful operations should be reported to first line supervisors. Supervisors will notify unit fire management officer, who will then notify their
- agency administrator. In cases of entrapment near misses, notification to the
- agency administrator. In cases of entraphient flear finisses, notification to the
- 28 respective agency's national fire office is required and determination for
- review/investigation level will be made from the national level.
- NPS Park Units will notify Regional FMOs of the need for review or investigation.

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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.

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Non-Serious Wildland Fire Accident

- 2 An unplanned event or series of events that resulted in injury, occupational
- 3 illness, or damage to or loss of equipment or property to a lesser degree than
- defined in "serious wildland fire accident."

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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 but did not.

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10 Entrapment

- A situation where personnel are unexpectedly caught in a fire behavior-related,
- 12 life-threatening position where planned escape routes or safety zones are absent,
- inadequate, or compromised. Entrapment may or may not include deployment
- of a fire shelter for its intended purpose (NWCG Glossary of Fire Terminology).
- Entrapment may result in a serious wildland fire accident, a non-serious
- wildland fire accident, or a near-miss.

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Fire Shelter Deployment

9 The removing of a fire shelter from its case and using it as protection against fire

(NWCG Glossary of Fire Terminology). Fire shelter deployment may or may

not be associated with entrapment. Fire shelter deployment may result in a

serious wildland fire accident, a non-serious wildland fire accident, or a near-

miss. Any time a fire shelter is deployed (other than for training purposes),

²⁴ regardless of circumstances, notification to the National Fire and Aviation

Safety Office of the jurisdictional agency is required.

Escaped Prescribed Fire

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

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Fire Trespass

The occurrence of unauthorized fire on agency-protected lands where the source of ignition is tied to some type of human activity.

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Review and Investigation Requirements

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Wildland Fire Event	Review/Investigation Type	Management level determines review type and authorizes review*			
Serious Wildland Fire Accident	Serious Accident Investigation (SAI)	National			
Non Serious Wildland Fire Accident	Non-Serious Accident Investigation (NSAI)	Region/State/Local			
Near-miss	Lesson Learned Review (LLR)	Region/State/Local			
Entrapment	SAI, NSAI, LLR, depending on severity	National			
Fire Shelter Deployment	SAI, NSAI, LLR, depending on severity	National			
Escaped Prescribed Fire	Escaped Prescribed Fire Review	National/Region/State			
Fire Trespass	Fire Cause Determination & Trespass Investigation	Local			

^{*}Management may override lower level management and request a review or investigation regardless of the above criteria.

5 Agency Specific Policy Documents

6 These documents provide specific direction related to incident and accident

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	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, Wildland Fire Fatality and Entrapment Initial Report,</i> : http://www.nwcg.gov/pms/forms_otr/pms405-1.pdf.			

Serious Wildland Fire Accident Investigation Process

Fire Director Responsibilities

The Fire Director(s) or designee(s) of the lead agency, or agency responsible for the land upon which the accident occurred, will:

- Notify the agency safety manager and Designated Agency Safety and Health Official (DASHO).
- Immediately appoint, authorize, and deploy an accident investigation team.
- Provide resources and procedures adequate to meet the team's needs.
- Receive the factual and management evaluation reports and take action to 10 accept or reject recommendations. 11
- Forward investigation findings, recommendations, and corrective action 12 plan to the DASHO (the agency safety office is the "office or record" for reports).
- Convene an accident review board/ board of review (if deemed necessary) to evaluate the adequacy of the factual and management reports and suggest 16 corrective actions. 17
- Ensure a corrective action plan is developed, incorporating management 18 initiatives established to address accident causal factors. 19

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Agency Administrator Responsibilities

- Develop local preparedness plans to guide emergency response. 22
 - 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.
- Conduct an in-briefing to the investigation team.
- Facilitate and support the investigation as requested. •
- Determine need and implement Critical Incident Stress Management 28 29
- Notify home tribe leadership in the case of a Native American fatality. 30
- Prepare and issue required 24 Hour Preliminary Report. 31

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Notification

Agency reporting requirements will be followed. As soon as a serious accident is verified, the following groups or individuals should be notified:

- Agency administrator
- Public affairs
- Agency Law Enforcement 38
 - Safety personnel
- County sheriff or local law enforcement as appropriate to jurisdiction
- National Interagency Coordination Center (NICC) 41
- Agency headquarters
- OSHA (within 8 hours if the accident resulted in one or more fatalities or if 43 three or more personnel are inpatient hospitalized)

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Notification to the respective agency's fire national safety/risk management lead is required.

• FS - Forest Service protocol for fatalities or 3 or more serious injuries requiring hospitalization investigation teams are assigned by the Office of Safety and Occupational Health in the WO.

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Designating the Investigation Team Lead

The 1995 Memorandum of Understanding between the U.S. Department of the Interior and the U.S. Department of Agriculture states that serious wildland fire-related accidents will be investigated by interagency investigation teams.

Following initial notification of a serious accident, the National Fire Director(s) or their designee(s) will designate a Serious Accident Investigation Team

Lead(s) and provide that person(s) with a written delegation of authority to conduct the investigation and the means to form and deploy an investigation team.

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Accidents involving more than one agency will require a collaboratively developed delegation of authority that is signed by each of the respective agencies.

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Serious Accident Investigation Team Composition

• Team Leader

A senior agency management official, at the equivalent associate/assistant 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).

• Chief Investigator

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

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 issues are examined.

• Interagency Representative

An interagency representative will be assigned to every fire-related Serious
Accident Investigation Team. They will assist as designated by the team
leader and will provide outside agency perspective.

• Technical Specialists

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.

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Public Affairs Officer

organization and function.

- 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 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
- **BLM** All media related documents (news releases, talking points, etc.) 10 should be cleared through NIFC Public Affairs prior to external release. 11
- BLM Coordination and mobilization is done by Fire and Aviation Directorate's Safety and Health Manager. 13

SAIT Final Report

Within 45 days of the incident, a Factual Report (FR) and a Management Evaluation Report (MER) will be produced by the investigation team to document facts, findings, and recommendations and forwarded to the Designated Agency Safety and Health Official (DASHO) through the agency

Fire Director(s). 21

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Factual Report 22

This report contains a brief summary or background of the event, and facts based only on examination of technical and procedural issues related to equipment and tactical fire operations. It does not contain opinions, conclusions, or recommendations. Names of injured personnel are not to be included in this report (reference them by position). Post-accident actions should be included in this report (emergency response attribute to survival of a victim, etc).

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Factual Reports will be submitted to Wildland Fire Lessons Learned Center 31 (WFLLC) by the respective agency's fire safety/risk management leads. 32 http://iirdb.wildfirelessons.net/main/Reviews.aspx. 33

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Management Evaluation Report (MER) 35

The MER is intended for internal use only and explores management policies, practices, procedures, and personal performance related to the accident. The MER categorizes findings identified in the factual report and provides recommendations to prevent or reduce the risk of similar accidents. Factual and Management Evaluation Report formatting can be found on the NIFC website at: http://www.nifc.gov/safety/accident resources.htm. 41

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Accident Review Board/Board of Review

An Accident Review Board/Board of Review is used by some agencies to evaluate recommendations, and develop a corrective action plan. Refer to

respective agency's Safety and Health policy.

Non-Serious Wildland Fire Accident Investigation Process

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Notification

Agency specific reporting requirements shall be followed. In most instances,
 supervisors will notify unit fire management officer, who will then make
 notification through chain of command.

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Investigation Team Membership

Investigation team membership will depend upon the severity of the accident.

At a minimum, the team should consist of a chief investigator, a safety
advisor/manager, and one technical specialist. Team members may have dual
roles (e.g., chief investigator/safety advisor). More complex accidents may
require the need for a Team Leader and multiple technical specialists.

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Final Report

Within 45 days of the accident, a final report detailing the accident to include facts, findings, and recommendations shall be submitted to the senior manager dependent upon the level of investigation (e.g., Local agency administrator, State/Regional Director, and Agency Fire Director or their designee). If a lower level investigation is conducted, a courtesy copy of the final report shall be sent to the respective agency's fire safety/risk management lead.

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The Final Report (minus recommendations, conclusions and observations) will be submitted to Wildland Fire Lessons Learned Center (WFLLC) by the respective agency's National Fire Safety Leads. Website: http://iirdb.wildfirelessons.net/main/Reviews.aspx.

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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,
 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 involved supervisors from fireline duty until the preliminary investigation has been completed. Attempt to collect initial statements from the involved individuals prior to a Critical Incident Stress Management (CISM) session.
 - Critical Incident Stress Management (CISM) CISM is the responsibility of local agency administrators, who should have individuals pre-identified for critical incident stress debriefings. Also refer to The Agency Administrator's Guide to Critical Incident Management (PMS 926),

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- available at: http://www.nwcg.gov/pms/pubs/pms926.doc. Individuals or teams may be available through Employee Assistance Programs (EAP's) or Geographic Area Coordination Centers (GACC's).
- 24-Hour-Preliminary Report This report contains known basic facts
 about the accident. It will be completed and forwarded by the agency
 administrator responsible for the jurisdiction where the accident occurred.
 Names of injured personnel are not to be included in this report (reference them by position).
- 72-Hour Expanded Report This report provides more detail about the
 accident and may contain the number of victims, severity of injuries, and
 information focused on accident prevention. It will be completed and
 forwarded by the SAI Team. Names of injured personnel are not to be
 included in this report (reference them by position).
- 24 and 72 Hour Reports shall be sent to the respective agency's fire
 safety/risk management lead for national distribution and potential posting
 through NWCG Safety Alert System.

Non-Serious Accident Investigation Report Standard Format

- Executive Summary A brief narrative of the facts involving the accident 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 them by 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 27 investigate the accident. It should include a standard statement that human, 28 material, and environmental factors were considered. If one of these factors 29 is determined to be noncontributing to the accident it should be addressed 30 first and discounted. For example, if the investigation revealed that there 31 were no environmental findings that contributed to the accident, simply note 32 the fact and move on to the next factor. Human factors or material factors 33 paragraphs should not be formulated so as to draw conclusions, nor should 34 they contain adjectives or adverbs that describe and thus render an opinion into pertinent facts. 36
- 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 to occur.
- Conclusions and Observations Investigation team's opinions and inferences may be captured in the section.
- Maps/Photographs/Illustrations Graphic information used to document and visually portray facts.
- Appendices Reference materials (e.g., fire behavior analysis, equipment
 maintenance reports, agreements).
- **Records** Factual data and documents used to substantiate facts involving the accident.

Fire Cause Determination & Trespass Investigation

Introduction

Agency policy requires any wildfire to be investigated to determine cause, origin, and responsibility. Accurate fire cause determination is a necessary first step in a successful fire investigation. Proper investigative procedures, which occur concurrent with initial attack, more accurately pinpoint fire causes and can preserve valuable evidence that would otherwise be destroyed by suppression activities.

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The agency or its employees must pursue cost recovery or document why cost recovery is not initiated for all human caused fires on public and/or other lands under protection agreement.

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Fire trespass refers to the occurrence of unauthorized fire on agency-protected lands where the source of ignition is tied to some type of human activity.

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Policy

The agency must pursue cost recovery, or document why cost recovery is not required, for all human-caused fires on public lands. The agency will also pursue cost recovery for other lands under fire protection agreement where the agency is not reimbursed for suppression actions, if so stipulated in the agreement.

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For all human-caused fires where negligence can be determined, trespass actions are to be taken to recover cost of suppression activities, land rehabilitation, and damages to the resource and improvements. Only fires started by natural causes will not be considered for trespass and related cost recovery.

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The determination whether to proceed with trespass action must be made on "incident facts," not on "cost or ability to pay." Trespass collection is both a cost recovery and a deterrent to prevent future damage to public land. It is

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prudent to pursue collection of costs, no matter how small. This determination
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- must be documented and filed in the unit office's official fire report file.
- 3 The agency administrator has the responsibility to bill for the total cost of the
- fire and authority to accept only full payment. On the recommendation of the
- 5 State/Regional Director, the Solicitor/Office of General Counsel may
- 6 compromise claims of the United States, up to the monetary limits (\$100,000)
- 7 established by law 31 U.S.C. 3711[a], 4 CFR 103-104, and 205 DM 7.1 and 7.2.
- 8 The Solicitor/Office of General Counsel will refer suspension or termination of
- 9 the amount, in excess of \$100,000, exclusive of interest, penalties, or
- 10 administrative charges, to the Department of Justice.

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Unless specified otherwise in an approved protection agreement, the agency that
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
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
agency to proceed with trespass procedures in a timely manner.

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Each agency's role in fire trespass billing and collection must be specifically defined in the relevant Cooperative Fire Protection Agreement. The billing and collection 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.

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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 in fire cause determination should be dispatched to the fire. Agency references:

- **BLM** 9238-1
- FWS Fire Management Handbook
- NPS RM-18, Chapter 8 and RM-9
- **FS -** FSM 5130 and FSM 5300