EXHIBIT 1-7

3. Unit NF/Station	6. Date	9. Abatement Actions	Qualifications. All Forest Service employees who operate Government vehicles (or private vehicles used on official duty) shall hold a valid State driver's license with the proper endorsements for the size and class being driven and a Forest Service-issued identification card indicating the type of vehicle or equipment the operator is authorized and qualified to operate (FSM 7134.1).	Training. Defensive driving training is required for all Forest Service employees who drive Government or private vehicles on official duty. Drivers must attend a Forest Service or National Safety Council or equivalent defensive driving course at least every 3 years.	Employees shall not operate a motor vehicle while under the influence of alcohol and drugs nor while sick or suffering from excessive fatigue or emotional stress.	Drivers/Operators. Drivers/operators have the responsibility to: Inform their supervisors of any physical, mental, or emotional condition that might impair their ability to safely drive a motorized vehicle or operate machinery.	local traffic regulations.
2. Location	5. Job Title	9. Abater	Qualifications. All Forest Service employees who operate Government vehicles (or private vehicles used on official duty shall hold a valid State driver's license with the proper endorsements for the size and class being driven and a Forest Service-issued identification card indicating the type of vehicle equipment the operator is authorized and qualified to operate (FSM 7134.1).	Training. Defensive driving training is required for all Forest Service employees who drive Government or private vehicles official duty. Drivers must attend a Forest Service or National Safety Council or equivalent defensive driving course at least every 3 years.	Employees shall not operate a motor vehicle while under the influence of alcohol and drugs nor while sick or suffering fro excessive fatigue or emotional stress.	Drivers/Operators. Drivers/operators have the responsibility Inform their supervisors of any physical, mental, or emotional condition that might impair their ability to safely drive a motorized vehicle or operate machinery.	Know and observe all State and local traffic regulations,
1. Work Project/Activity Accident Investigation	4. Name of Analyst	8. Hazards			Fatigue Particulates (dust) Weather	Walking surfaces Smoky conditions	
U.S. Department of Agriculture Forest Service	Job Hazard Analysis (JHA) Reference-FSH 6709.11 and 12 (Instructions on Reverse)	7. Tasks / Procedures	Motorized Vehicle				

Exhibit 1-7—Job hazard analysis.

2. Location 3. Unit NF/Station	Observe the "Circle of Safety" rule. Walk around the vehicle.	Check the windshield, wipers, and wiper fluid level.	Adjust mirrors.	Drive safely while operating the vehicle within its mechanical limits.	Always wear your safety belt(s). The vehicle operator shall ensure passengers also wear safety belts.	Monitor vehicle performance when driving. Inspect a vehicle after use. Correct or report problems before a vehicle is used again.	Do not compromise your safety, the safety of your passengers, or public safety when driving.	Pull off the road for a break or to change drivers if you experience any of these warning signs:	Vehicle begins to feel too warm.	Drowsiness, especially after meals.	Eyestrain.	Inattention, daydreaming.
1. Work Project/Activity Accident Investigation						137)						
U.S. Department of Agriculture Forest Service												

Exhibit 1-7—Job hazard analysis.

EXHIBIT 1-7 (continued)

U.S. Department of Agriculture Forest Service	1. Work Project/Activity Accident Investigation	2. Location	3. Unit NF/Station
		Work/rest guidelines. Vehicle operato work/rest guidelines. Operate a vehicle:	Work/rest guidelines. Vehicle operators must comply with these work/rest guidelines. Operate a vehicle:
		Only if you have had at least 8 c beginning a shift.	Only if you have had at least 8 consecutive hours off duty before beginning a shift.
		No more than 2 hours without a rest stop.	rest stop.
		Equipment. Ensure that Govern	Equipment. Ensure that Government vehicles are equipped with:
		Safety belts for all passengers. Refer to 49 CFR 392.9 for exception of bus passengers.	Refer to 49 CFR 392.9 for
		Warning markers or reflectors and flashlight.	nd flashlight.
		First aid kit. The standard first aid kit in all Government vehicl must contain two packets of the standard protective equipment (rubber gloves, face masks, eye protection, and cardiopulmonaresuscitation (CPR) clear-mouth barrier).	First aid kit. The standard first aid kit in all Government vehicles must contain two packets of the standard protective equipment (rubber gloves, face masks, eye protection, and cardiopulmonary resuscitation (CPR) clear-mouth barrier).
		Fire extinguishers	
		Defensive driving techniques. Drive slowly and use transmission gearing, engine compression, and gravity vehicle as it travels uphill. Conversely, use engine co and gearing on downhill grades.	Defensive driving techniques. Drive slowly and use transmission gearing, engine compression, and gravity to slow the vehicle as it travels uphill. Conversely, use engine compression and gearing on downhill grades.
		Do not use cell phones while dri	Do not use cell phones while driving. Have a passenger answer

Exhibit 1-7—Job hazard analysis.

Reep right. Drive as far to the right as possible without driving on the shoulder. Special hazards while driving on Forest Service roads.	U.S. Department of Agriculture Forest Service	1. Work Project/Activity Accident Investigation	2. Location	3. Unit NF/Station
Flying objects Particulates (dust) Noise Ralling objects Walking surfaces Fatigue			the phone for you or pull off to sid	le of the road.
Flying objects Particulates (dust) Noise Falling objects Walking surfaces Fatigue			Keep right. Drive as far to the righ on the shoulder.	ht as possible without driving
Flying objects Particulates (dust) Noise Ralling objects Walking surfaces Fatigue			Special hazards while driving on	Forest Service roads.
Flying objects Particulates (dust) Noise Roise Falling objects Walking surfaces Fatigue			Road width. Roads with narrow dr as single-lane with turnouts, and ro turn around.	riving surfaces, roads classified oads with few places to park or
Flying objects Particulates (dust) Noise Falling objects Walking surfaces Fatigue		a	Surface. A variety of road surfaces affected by weather.	s, including those that may be
Flying objects Particulates (dust) Noise Roise Falling objects Walking surfaces Fatigue			Sight distance. Sight distance that weather, blind curves, foliage, dust	may be limited by adverse t, smoke, and ambient light.
Falling objects Walking surfaces Fatigue	lelicopter	Flying objects Particulates (dust) Noise	Get a safety briefing from Helitack assignment.	k managers prior to
Falling objects Walking surfaces Fatigue			Equipment. Flight suits or fire nor or hardhats, leather or nomex flight protection.	mex shirts and pants, helmets it gloves, and hearing
Falling objects Walking surfaces Fatigue	Valking and Hiking			
		Falling objects Walking surfaces Fatigue	Safety practices. Slips, trips, and field and office accidents and injuri	falls are the leading causes of ries.



EXHIBIT 1-7 (continued)

U.S. Department of Agriculture Forest Service	1. Work Project/Activity Accident Investigation	2. Location 3. Unit NF/Station
	Weather Insects and animals Poisonous plants	General requirement. Wear shoes with slip-resistant heels and soles with firm, flexible support.
	comment common to	Specific requirement. For fire-related activities, wear all-leather, lace-up, 8-inch tall (minimum) boots.
		When hiking in the field, boots and a hardhat are required.
		Watch footing, look for tripping hazards, maintain balance.
	81	Be alert for snags and notify others of snag locations. Take breaks at regular intervals to prevent fatigue. Use sunscreen to protect against sunburn.
		Be alert for poisonous plants, such as poison oak or ivy. If exposed, wash affected areas and wash clothing.
		Be alert for poisonous insects and animals.
Field Investigation Activities		
	Falling objects Walking surfaces	Required PPE.
	Fatigue	Hardhat
	Particulates (dust) Weather	Leather gloves
	Temperature	Nomex shirt and pants (for fire-related accidents)
	Diseases	Fire sherer (104 inc-related accidents) Eye protection/goggles
	Poisonous plants	

Exhibit 1-7—Job hazard analysis.

U.S. Department of Agriculture Forest Service	1. Work Project/Activity Accident Investigation	2. Location	3. Unit NF/Station
		Daily briefings by the team leader, chief investigator, and safety manager will outline tasks to be accomplished and the required safety procedures.	er, chief investigator, and safety accomplished and the required
		Manage fatigue, take breaks as appropriate, allow for adequate rest. Eat well-balanced meals and drink plenty of fluids.	ppropriate, allow for adequate d drink plenty of fluids.
		Check clothing for ticks during and after each shift.	nd after each shift.
		Be alert for snakes.	
Security	92	Security procedures. Establish building evacuation procedures for work area being utilized, make sure all employees are aware of exits and safety meeting area.	building evacuation procedures to sure all employees are aware
		Inform team members of the process to report any accidents or injuries.	cess to report any accidents or
		Provide all team members with incident emergency phone numbers and the process to follow for rapid notification in the event of an emergency.	ncident emergency phone w for rapid notification in the
		Check-out/check-in systems (such as a sign out board) shall be located and utilized for team use.	h as a sign out board) shall be
		Advise the appropriate person(s) on the accident investigation team of travel plans with expected times of arrival and return when traveling to and from the investigation site or isolated locations. Ensure vehicles are operating properly and are	on the accident investigation d times of arrival and return ivestigation site or isolated erating properly and are



EXHIBIT 1-7 (continued)

U.S. Department of Agriculture Forest Service	1. Work Project/Activity Accident Investigation	2. Location	3. Unit NF/Station
		equipped for the specific task. Travel in pairs where wa Ensure that communications equipment is operating properlacement batteries are available for hand-held radios.	equipped for the specific task. Travel in pairs where warranted, Ensure that communications equipment is operating properly and replacement batteries are available for hand-held radios.
Bloodborne Pathogen Program		Training. All employees shall receive general HIV/AIDS education training. For employees whose jobs put them at risk for an occupational exposure, training shall cover the major elements of the OSHA bloodborne pathogens regulation.	receive general HIV/AIDS ces whose jobs put them at risk aining shall cover the major ne pathogens regulation.
	Diseases	To further minimize employee risk, all employees, regardless of job classification or duties, shall observe universal precautions all times. Observing universal precautions is an approach to infection control in which human blood and human body fluids are treated as if known to be infectious for HIV, HBV, or other bloodborne pathogens.	To further minimize employee risk, all employees, regardless of job classification or duties, shall observe universal precautions at all times. Observing universal precautions is an approach to infection control in which human blood and human body fluids are treated as if known to be infectious for HIV, HBV, or other bloodborne pathogens.
Hot Conditions			
	Fatigue Weather	Working in hot conditions. Individual differences in heat tolerance are related to fitness, hydration, illness, drugs and medication, and fatigue.	dividual differences in heat ydration, illness, drugs and
		Heat stress occurs when the body's core temperature rises beyon safe limits. Evaporation of sweat is the body's main line of defense against heat. As sweat evaporates, it cools the body. When water lost by sweating is not replaced, the body's heat controls break down and body temperature climbs dangerously. Three factors that can contribute to heat stress are low or poor physical fitness, excess weight, and hypertension.	Heat stress occurs when the body's core temperature rises beyond safe limits. Evaporation of sweat is the body's main line of defense against heat. As sweat evaporates, it cools the body. When water lost by sweating is not replaced, the body's heat controls break down and body temperature climbs dangerously. Three factors that can contribute to heat stress are low or poor physical fitness, excess weight, and hypertension.

Exhibit 1-7—Job hazard analysis.

U.S. Department of Agriculture Forest Service	1. Work Project/Activity Accident Investigation	2. Location	3. Unit NF/Station
		Schedule the hardest work during the cooler hours of the day, a moderate work pace. As the temperature increases, stop for frequent rest periods of at least 15 minutes. Always have an adequate supply of water available and ensure that employees getting needed liquids.	Schedule the hardest work during the cooler hours of the day. Set a moderate work pace. As the temperature increases, stop for frequent rest periods of at least 15 minutes. Always have an adequate supply of water available and ensure that employees are getting needed liquids.
		Plan ahead for drinking water; don't allow water supplies to run out.	on't allow water supplies to run
		To prevent dehydration:	
	rif	Drink 8 to 16 ounces of water before work.	fore work.
		Take frequent drinks during each hour of work (1 quart or 1 liter per hour).	hour of work (1 quart or 1 liter
		Drink as much water as possible at lunch and the evening meal.	at lunch and the evening meal.
		Continue replacing fluids throughout the evening.	hout the evening.
		Limit caffeine drinks, such as coffee or cola.	ffee or cola.
		Avoid alcoholic drinks.	
		Provide well-planned meals and healthy snacks that are vital to maintain work capacity and to avoid heat disorders through adequate replacement of water, salt, and potassium.	healthy snacks that are vital to oid heat disorders through alt, and potassium.



EXHIBIT 1-7 (continued)

3. Unit NF/Station	Wear hardhats; they protect your head and keep you cooler.	Prevent sunburn by wearing lightweight, light-colored, loose clothing, which allows air to circulate and sweat to evaporate, and offers protection from direct sun. Bare skin absorbs the sun's radiant heat and raises body temperature.	During periods of continued extreme temperatures (90 °F or above), ensure that supervisors monitor employees and that employees watch each other for signs of heat-stress disorders, including heat cramps, heat exhaustion, and heatstroke.	Heat cramps are identified by muscular pains and cramps, with leg and abdominal muscles usually affected first. Remedies include stretching and gently massaging cramped muscles and applying a heating pad or hot water bottle to help relieve muscle spasms.	Heat exhaustion is characterized by fatigue, weakness, and collapse. The skin becomes pale, cool, and clammy. Individuals experience nausea, dizziness, a throbbing headache, breathing problems, and diarrhea. Recommended actions include moving to a cool, shady place, lying with the feet raised 8 to 12 inches above the head, loosening clothing, and applying cool compresses to the skin. If there is no improvement quickly, seek medical attention at once.
2. Location	Wear hardh	Prevent sun clothing, wh offers protec radiant heat	During perio above), ensu employees v including he	Heat cramps leg and abde include stret applying a h spasms.	Heat exhaus collapse. The experience raproblems, and a cool, shady the head, lockin. If there at once.
1. Work Project/Activity Accident Investigation			Œ		
U.S. Department of Agriculture Forest Service					

(Continued)

U.S. Department of Agriculture Forest Service	1. Work Project/Activity Accident Investigation	2. Location 3. Unit NF/Station
		Heatstroke is a medical emergency. Unaclimatized employees are especially prone to heatstroke. Symptoms are confusion, high body temperature, hot (often dry) skin, rapid pulse, convulsions, loss of consciousness, and coma. Lack of sweating is one sign of imminent heatstroke. Do not delay treatment. Cool the body down immediately. Administer fluids and transport the victim to a medical facility as quickly as possible.
Lightning and Thunderstorms		
	Other physical hazard: Lightning striking employees	Lightning and thunderstorms. Heavy rain, hail, and lightning occur only in the mature stage of a thunderstorm. Keep informed; know what the storm is doing. When there is no shelter, avoid tall objects such as lone trees. If only isolated trees are nearby or if you are in open country, the best protection is to make yourself as small a target as possible. Drop to your knees, bend forward with your hands resting on your knees, and keep a distance of twice the height of the nearest tree between you and the tree. To minimize the flow of the current, keep your feet together. Keep away from wire fences, telephone lines, electrically conductive objects, and railroad tracks. Advise team members that if they feel an electrical charge, if their hair stands on end, or their skin tingles, a lightning strike may be
Solar Dadistion		imminent.
Solar Radiation		



EXHIBIT 1-7 (continued)

U.S. Department of Agriculture Forest Service	1. Work Project/Activity Accident Investigation	2. Location	3. Unit NF/Station
	Burns	To minimize UV exposure:	
		Keep exposed skin covered by long:sleeved shirt (with sleeve	Keep exposed skin covered by wearing a hat, a bandanna, and a long:sleeved shirt (with sleeves rolled down and collar turned up).
		Wear sunglasses that filter out 100 percent of the UV rays. use of non-UV protected sunglasses or photogrey glasses or increase the chance of UV damage to the retina and are not recommended.	Wear sunglasses that filter out 100 percent of the UV rays. The use of non-UV protected sunglasses or photogrey glasses can increase the chance of UV damage to the retina and are not recommended.
		Provide and use protective sun balm as identified in the JHA.	Provide and use protective sunscreen lotion, cream, oil, and lip balm as identified in the JHA.
		When possible, stay indoors during the possible or find worksites that are shady.	When possible, stay indoors during the peak exposure time in the summer or find worksites that are shady.
		Alter work schedules where ap exposure.	Alter work schedules where appropriate to avoid peak summer exposure.
Evacuation Plan (see attached Evacuation Plan)	vacuation Plan)		
10. Line Officer Signature		11. Title	12. Date
		Team Leader	

Exhibit 1-7—Job hazard analysis.

EMERGENCY EVACUATION PROCEDURES AND TRAVEL ROUTES FIELD SITE

Project Name: Accident Investigation

Work Site Location: National Forest / Station

Include legal description:

To prepare for an emergency, which requires first aid, and/or immediate evacuation of personnel due to serious illness or injury, the following information should be predetermined, and available to all crewmembers:

DESIGNATED FIRST AID PROVIDER(S):

(At least one person on the investigation team field crew should be designated to provide first aid.

COMMUNICATION PROCEDURES TO FOLLOW IN THE EVENT OF AN EMERGENCY:

MEANS OF COMMUNICATION:

Duty Hours: Follow established forest/station procedures

Offduty Hours: Follow established forest/station procedures

(radio, cell phone, Emergency Position-Indicating Radiobeacon (EPIRB), etc.)

RADIO CHANNEL:

PHONE NUMBER:

HOME BASE:

HOME BASE EMERGENCY COORDINATOR:

EMERGENCY SERVICES:

AMBULANCE:

PHONE NUMBER:

EXHIBIT 1-7

(Air evacuation should be obtained through the supervisor's office (SO) dispatcher, if needed.)

HOSPITAL: PHONE NUMBER: EMERGENCY EVACUATION TRAVEL ROUTES: Attach map with roads for evacuation to main highway to above hospital (and helispots, if appropriate) highlighted

In the event of an accident during a fire incident contact incident base during field site visits, follow incident emergency evacuation processes

INVESTIGATION TEAM MEMBERS SHOULD PROVIDE THE FOLLOWING WHEN CALLING FOR ASSISTANCE:

nature of injury or accident (do not broadcast victim(s) name(s);

type of assistance needed;

number, and (for air transport) estimated weight, of persons to be transported;

location of injured, using landmarks identifiable on ground and/or map;

current information about weather and travel hazards/obstacles.

(Crew should remain in contact with home unit until evacuation team arrives, if possible.)

Copies of this plan should be provided to investigation team member(s) and home base coordinator(s), prior to beginning work.

EXHIBIT 1-8

Actions to be Taken by the Unit

Secure the Site

Upon completion of rescue and medical assistance, the scene must be secured by Forest Service law enforcement officers until released by the accident investigation team. Methods to secure the site:

- Ropes
- Signs
- Barrier tape
- · Flashing lights
- Cones
- Posted guards

Do not move equipment, shelters, or any other items at the scene. Do not walk around the scene unless it's necessary for rescue or medical assistance. Nothing should be removed from the scene without permission from the accident investigation team leader or chief investigator/QTI. Evidence must be preserved at the scene. Photograph the scene (video or stills) if evidence could be lost before the accident investigation team arrives, such as by a rainstorm, washing away ruts or fluid spills.

Autopsies

Request an autopsy for all fatalities. Offer to pay for the autopsy if funding is an issue. Ask your local law enforcement officer (LEO) to provide a liaison to the county medical examiner or coroner. Access to emergency (911) logs and police reports may be needed.

In case of a fire-related fatality: immediately provide the county medical examiner or coroner with a copy of the FA-156 *Firefighter Autopsy Protocol*.

Employee Assistance Program

DO NOT provide critical incident stress counseling or debriefings to witnesses and coworkers before the arrival of the accident investigation team unless there is some critical need to do so. If that is the case, contact the team leader and explain the need for this action.

Witness Statements

Gather witnesses for accident investigation team interviews. If that is not possible and witnesses need to be released, have them write, date, and sign a statement before they leave. Use the following procedures.

Separate witnesses and have them write statements in their own words. Witness statements should be in the witness' own handwriting or typed by them on a computer. The witness statement should include:

- Name, work address, and phone number of the witness.
- · What attracted the witness' attention to the accident.
- · What actions the witness took at the accident site.
- · Description of what happened.
- · Time and location of the events.
- Environment (weather, lighting, temperature, noise, and so forth.
- Positions of people, equipment, and material, as well as the witness.
- What has been moved, repositioned, turned off or on, or taken from scene.
- · Description of the sequence of events leading to accident.
- Other witnesses or involved people (include names if known).

Accident Investigation Team Administrative Support

The investigation team will need the following:

- Investigation team local unit liaison, including phone numbers and fax numbers.
- Lodging/meeting place for the investigation team (including private interview room). Coordinate with the team leader.
- Office supplies (including flip charts, markers).
- Documentation support (at the discretion of team leader)
 - —Shredder

-Vehicles

—Fax

—Speaker phones

—Computers

—Copier

—Printer

Actions to be Taken by the Unit (continued)

Evidence Collection

Collect all or as many of the following applicable items as possible:

- Radio logs (written and recorded)
- · Dispatch logs
- · Occupant emergency plans
- Maps
- · Job hazard analyses
- · Safety briefings
- · Team briefings
- Employee training records
- · Medical examination records
- · Work capacity test results
- · Qualifications/certifications (including red cards)
- Work/rest (timesheets) for at least two pay periods (current and before the accident)
- · Recent fire assignments
- · Equipment maintenance records
- · Equipment performance tests
- · Inspection documents
- · Fire management plan
- RAWS (remote automated weather system information)
- Weather (forecast/conditions)
- · Fire behavior
- Incident action plans/personnel lists

- · Delegation of authority
- Memorandum of understanding (MOUs)/agreements
- Specifications/drawings
- · Press releases
- · Autopsy/toxicology report
- · Death certificate
- 911 Loa
- · Witness statements
- Internal policies/guidelines
- · Tailgate safety session documentation
- · Unit's safety plan

Contacts

Designate someone to provide the following:

- Family liaison—The purpose of the family liaison is to maintain open lines of communication between the Forest Service and the family. The liaison will provide the family support, assistance, and information during the crisis situation.
- PAO—If there is significant media interest, contact the regional PAO for assistance.

EXHIBIT 1-9

DISCUSSION:

United States Department of Agriculture Forest Service Office of Safety and Occupational Health

Safety Alert

	Caroty Alort	
NO. 200x-xx	DATE:	Page x of x
SUBJECT:		
AREA OF CONCERN:		
DISTRIBUTION:		

POINT OF CONTACT:

(Name)

(National-level safety manager)

EXHIBIT 1-10

United States Department of Agriculture Forest Service

Aviation Safety Alert			
NO. 200x-xx	DATE:		Page x of x
SUBJECT:			
AREA OF CONCERN:			
DISTRIBUTION:			
DISCUSSION:			
RECOMMENDATION:			
/s/ (First and last name) (National aviation safety ar	nd training manager)	/s/ (First and last name) (National aviation operations officer)	