U.S. Department of Agriculture 1. WORK PROJECT/ACTIVITY 2. LOCATION 3. UNIT **Forest Service** Green Mountain and Finger Backcountry/Wilderness Patrol A11 Lakes National Forests and Travel 6. DATE PREPARED JOB HAZARD ANALYSIS (JHA) 4. NAME OF ANALYST 5. JOB TITLE References-FSH 6709.11 and -12 Wilderness Ranger Ken Norden January 1, 2010 (Instructions on Reverse) 7. TASKS/PROCEDURES 8. HAZARDS 9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE Provide Training and Lack of Project/activity supervisor shall ensure that all workers involved in Backcountry Orientation training/orientation Travel or Wilderness Patrol are trained/oriented on the hazards and abatement actions leads to personal injury. outlined below. Project/activity supervisor shall ensure that all workers be alert to and communicate unanticipated hazards not listed below. Repeat training whenever a new employee or volunteer begins this type of work or when site conditions or work processes change. Lack of emergency Emergency Response Provide the following information for each work location and document on tailgate response plan causes safety meeting form. Share with all project participants: delays in obtaining 1. Means of communication (radio, cell, satellite – see below) emergency medical 2. Primary contacts (F.S. dispatcher, GMC relay person, 911 Use) 3. Search and Rescue (State Police and Incident Command System) treatment. 4. Travel routes for emergency responders (Give GPS location if possible) 5. Location of closest medical facilities (See "Guide to Working Safely Outdoors" for maps) 6. How to contact Emergency Response (phone #s in "Guide") Radio Dead Spots, radio Sign out on the board from your duty station and have a contact listed. Make sure the Communications failure or lack of front desk and your contact person is informed of your travel plans and when you dispatcher could leave anticipate returning to the office. you without any means Check in and out of a District office on Wilderness Patrol days. Ask if there are any for calling for help in messages. Include present location and travel plan changes in the transmission. an emergency. Delays Ensure the radio is working properly and that batteries are changed before going into in emergency response the field. could be fatal Always carry a backup clamshell battery. depending upon Be fully trained in radio use to avoid operator errors. circumstances. Know who to contact and how, in the event FS is not monitoring (nights, weekends,

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U.S. Department of Agriculture Forest Service JOB HAZARD ANALYSIS (JHA) References-FSH 6709.11 and -12 (Instructions on Reverse)		Backcountry/Wilderness Patrol	Green Mountain and Finger	3. UNII
		and Travel	Lakes National Forests	All
		4. NAME OF ANALYST	5. JOB TITLE	6. DATE PREPARED January 1, 2010
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ASKS/PROCEDURES	8. HAZARDS	9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE		
		 Avoid contact situations we When camping, make you before visitor contacts with whistling so as not to start yourself and make a position. Keep your space and water resting quietly at their came. Recognize that any unknown you can make your campes trailheads, or other occupies with loud drug and alcohown watch for suspicious behand take chances. If working alone and interperson approaches and loog the district office. Even if 	n't antagonize a potential assailant. It where alcohol and/or drugs are present revisitor contacts in the late afternoon he alcohol or drug use is accelerated. Make your entrance known with a greatle campers with illegal substances or two impression in your conversation. He out for violent dogs. Some campsite that will bite and are restrained with visitor could be dangerous. Site a secret. Keep camps well hidden the dareas. Visitors may try and find you I related parties beyond your scope of twiors. If such behavior is noticed, lead acting with visitors, pretend that a particle and are in an area where you can not a your are in an area where you can not	eting, cough or weapons. Introduce es will have dogs only by a rope. from trails, ou to make you deal authority and safe ave the area. Don't enter is nearby. If a to to alert dispatch of o to alert dispatch of or early even in the enter is nearby.
		clamshell.	sufficient power and/or carry back rac	J
			ckly. Radio for assistance, if necessar	•
			hen entering and exiting trailhead par	_
			ook the area over for unknown person	
		 Never get into a private verig until help arrives. 	chicle. If you are stranded, radio for h	nelp and stay in you
		16	included manda, above in vision 1::-1- 1	-4 41 1-

• If you meet individuals on isolated roads, stay in your vehicle, let them approach

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U.S. Department of Agriculture Forest Service JOB HAZARD ANALYSIS (JHA) References-FSH 6709.11 and -12 (Instructions on Reverse) 7. TASKS/PROCEDURES 8. HAZARDS		1. WORK PROJECT/ACTIVITY Backcountry/Wilderness Patrol and Travel 4. NAME OF ANALYST Ken Norden		2. LOCATION Green Mountain and Finger Lakes National Forests 5. JOB TITLE Wilderness Ranger	3. UNIT All 6. DATE PREPARED January 1, 2010
		9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE			
Campsite Maintenance	Downsizing, cleaning or removing fire ring can expose hidden hazards like broken glass, sharp metal or hot coals.	gs	downsize, clean or remove stream or pond using a tras campfires. Always use leather gloves. Carry a foldable shovel, a lifter rings and disperse care Move large fire pit rocks we techniques when downsizin. When lifting, keep you to lift. When lifting, never reaknees, squat (squats as except for light loads skneel one or both kneel or make repeated lifts. Keep the load close to As you lift or set down in its neutral strong po Do not rotate torso or a load. Take a step to Roll rocks instead of lower heavy duty glove.	your body. In heavy objects, lift your chin up to osition (to avoid rounding your low knees more than 15° left or right who make a turn. Ifting them wherever possible. Int crushing hands and feet.	g. Add water from a any unattended ring fire pits. h and coal build up in and lifting rings: wn and use your legs begin a lift. Bend ost people to do g or other methods), s to lift heavy objects help keep your back wer back). ile lifting or carrying

U.S. Department of Agriculture Forest Service JOB HAZARD ANALYSIS (JHA) References-FSH 6709.11 and -12 (Instructions on Reverse)		1. WORK PROJECT/ACTIVITY	2. LOCATION	FS-6700-7 (11/99 3. UNIT	
		Backcountry/Wilderness Patrol	Green Mountain and Finger		
		and Travel	Lakes National Forests	All	
		4. NAME OF ANALYST	5. JOB TITLE	6. DATE PREPARED January 1, 2010	
		Ken Norden	Wilderness Ranger		
7. TASKS/PROCEDURES	8. HAZARDS	9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE			
Camping: Base Camp and Individual Campsite Area Selection	Camping under dead trees, widow makers or snags of in river floodplain can cause serious injury or death.	within your surrounding bath NOT CAMP THERE) Select a campsite that is in streams and gorges. Avoid depressions that wil	 Select a campsite that is in a dry and stable location when camping near rivers, streams and gorges. Avoid depressions that will fill with water. 		
Camping: Animal Problems	Leaving food out accessible to animals attracts small and larg mammals to your campsite endangering your food supply and threatening your well being.	 ge Give animals space that co Separate your cooking area Never bring food into your Find out if there are known 	ome through or invade your campsite. ea from your sleeping area. or tent. on animal problems in the areas you will be traveling and		
Off Trail Travel: Over-Head Hazards	Falling trees or dead branches can whack you on the head fracturing your skull and causing debilitatic concussions, fatal blows or brain hemorrhages that cau death or permanent	 6-point suspension - when Learn to identify hazard tree Look up! Do not camp or twatchful in windy condition Look at the trees before your make sure they are live and 	Wear a hard hat labeled as meeting ANSI Z89.1 2003 or later – preferably one 6-point suspension - when not on a trail. Learn to identify hazard trees. Look up! Do not camp or take breaks within 1.5 tree lengths of a hazard tree. watchful in windy conditions. Look at the trees before you grab them for support going up and down steep h make sure they are live and strong.		

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U.S. Department of Agriculture Forest Service JOB HAZARD ANALYSIS (JHA) References-FSH 6709.11 and -12 (Instructions on Reverse)		1. WORK PROJECT/ACTIVITY Backcountry/Wilderness Patrol	2. LOCATION Green Mountain and Finger	FS-6700-7 (11/9) 3. UNIT All 6. DATE PREPARED January 1, 2010	
		and Travel 4. NAME OF ANALYST Ken Norden	Lakes National Forests 5. JOB TITLE Wilderness Ranger		
7. TASKS/PROCEDURES	8. HAZARDS	9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE			
		 Use trekking poles if desire assist to maintain secure for poles also improve endurar stress to the spine. Plan to use ski poles, cramp prevail. Carry snowshoes in conditions. Use pack equipment propered. Do not exceed physical abit appropriate. Know your own strengths are Regulate body temperature. Take breaks, as needed. Eare use extra care at the end of are most common. 	for foot travel when conditions are weld. Trekking poles increase safety by oting, and reduce the stress on kneed nice. They help relieve tension in back pons or yak tracks when icy or if snowns where the case of post holing marry. Carry weight on hips, not back. Itities or equipment design. Use a parameter was and stay within your by taking the time to layer and chant the well and drink water. Avoid over each the day, when fatigue is most likely	y helping balance, s and thighs. Trekking the muscles and reduce the way conditions ay occur. The board when the limits. The limits are clothes. The way and trail accidents are selected to the selected the select	
on and Off Trail ravel: River rossings	High or swift water levels could cause y to be swept off your feet and drowned or injured due to impa with rocks and river debris.	 as needed. May need to coo Don't attempt to cross the seconditions become safe to conditions become safe to conditions. Evaluate a stream before end of the conditions become safe to conditions. Evaluate a stream before end of the conditions. 	s for flooding possibilities. Change pordinate a vehicle pickup at a new lo flooded area, particularly if the water or velocity is too swift, discontinue operate. Intering. Follow the "rule of 10": eep and flowing @10 ft./sec, it is too eep and flowing at 5 ft./second, it is	cation. r is moving. the activity until o hazardous to wade.	

wade.

• If you do enter a stream and discover it is too dangerous to wade, back out using your

FS-6700-7 (11/99) U.S. Department of Agriculture 1. WORK PROJECT/ACTIVITY 2. LOCATION 3. UNIT **Forest Service** Green Mountain and Finger Backcountry/Wilderness Patrol A11 Lakes National Forests and Travel 4. NAME OF ANALYST 6. DATE PREPARED **JOB HAZARD ANALYSIS (JHA)** 5. JOB TITLE References-FSH 6709.11 and -12 Ken Norden Wilderness Ranger January 1, 2010 (Instructions on Reverse) 7. TASKS/PROCEDURES 8. HAZARDS 9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE wading pole for balance. Don't park in or adjacent to areas prone to flooding, such as washes, streams, or depressions. On and Off Trail Insect stings in Follow the guidelines in bee stings and insect bites in the "Guide To Working Safely backcountry areas can Travel: Insect Stings Outdoors on the GMFL". kill you or a crew Be sure to report all tick bites so they can be recorded on an occupational exposure member form in case a tick borne infection develops later. On and Off Trail Moose, Mountain Lion, Follow the guidelines in the "Guide To Working Safely Outdoors on the GMFL". Travel: Encounters and bear can kill or With Wild Animals seriously injure you. On and Off Trail Heat exhaustion and DRINK PLENTY OF POTABLE WATER. Take periodic breaks in shaded areas. Pace Travel: Working in dehydration yourself while working. Water borne illnesses Drink frequently throughout the day, consuming at least one liter per hour of water Warm/Hot Weather during hot weather and strenuous physical activity. Urine should be light colored. Dark yellow urine is an indication of dehydration. Stop and re-hydrate. Carry water or a water filter, or treat or boil water for at least 5 minutes before consumption to avoid sickness such as Giardia. On or Off Trail Exposure to ionizing Follow the guidelines in the "Guide To Working Safely Outdoors on the GMFL". radiation (sun) Travel: Outdoor Work increases the likelihood in the Sun that you will contract skin cancer.

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Extended Driving and Travel	Falling asleep while driving could result your driving off the road or out of your into oncoming traff causing a major cra with potentially serinjuries or death to or occupants of you other vehicles or may vehicle collision damage.	lane ic sh ious you ir or	 breaks every 2 hours. Do not exceed a shift lengt Take a break of at least 30 If you know you are prone If you find yourself become seek overnight lodging whe Recognize the symptoms Yawning Inability to keep expended and one of the symptoms Drifting out of lan Avoid drowsy driving by: Get sufficient rest sleep per night. [Value of the symptoms of th	yes open and head raised last few miles, missing signs e, hitting rumble strips, accidental on an ongoing basis. 97% of us new What is the likelihood that you are as 6 1/2 hours per night (not likely) of drowsiness, have a second person not or medications that can cause do un have had alcohol or taken such at the eat preventing sleep related crashes at the preventing sleep related crashes at the preventing sleep related crashes at the preventing sleep related crashes at preventing sleep related crashes at the preventing	day. ours worked. our supervisor. er and take a nap or ly tailgating ed 8 to 8 1/2 hours of one of the remaining How much sleep accompany you. lrowsiness if you will medications, do not es: effective than 1 & 2). hicle drift sensors if

FS-6700-7 (11/99) 1. WORK PROJECT/ACTIVITY 2. LOCATION U.S. Department of Agriculture 3. UNIT Forest Service Backcountry/Wilderness Patrol Green Mountain and Finger All Lakes National Forests and Travel 5. JOB TITLE 6. DATE PREPARED 4. NAME OF ANALYST JOB HAZARD ANALYSIS (JHA) References-FSH 6709.11 and -12 Ken Norden Wilderness Ranger January 1, 2010 (Instructions on Reverse) 7. TASKS/PROCEDURES 8. HAZARDS 9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE Stopping to stretch or exercise briefly, turning up the radio, or opening windows are not effective at preventing sleep related vehicle crashes. TITLE REVIEWED BY SAFETY OFFICER DATE Safety and Occupational Health Specialist 11. TITLE 10. LINE OFFICER SIGNATURE 12. DATE

JHA Instructions (References-FSH 6709.11 and .12)

The JHA shall identify the location of the work project or activity, the name of employee(s) involved in the process, the date(s) of acknowledgment, and the name of the appropriate line officer approving the JHA. The line officer acknowledges that employees have read and understand the contents, have received the required training, and are qualified to perform the work project or activity.

- Blocks 1, 2, 3, 4, 5, and 6: Self-explanatory.
- Block 7: Identify all tasks and procedures associated with the work project or activity that have potential to cause injury or illness to personnel and damage to property or material. Include emergency evacuation procedures (EEP).
- Block 8: Identify all known or suspect hazards associated with each respective task/procedure listed in block 7. For example:
 - a. Research past accidents/incidents.
 - Research the Health and Safety Code, FSH 6709.11 or other appropriate literature.
 - c. Discuss the work project/activity with participants.
 - d. Observe the work project/activity.
 - e. A combination of the above.
- Block 9: Identify appropriate actions to reduce or eliminate the hazards identified in block 8. Abatement measures listed below are in the order of the preferred abatement method:
 - a. Engineering Controls (the most desirable method of abatement).
 For example, ergonomically designed tools, equipment, and furniture.
 - b. Substitution. For example, switching to high flash point, non-toxic solvents.
 - c. Administrative Controls. For example, limiting exposure by reducing the work schedule; establishing appropriate procedures and practices.
 - d. PPE (least desirable method of abatement). For example, using hearing protection when working with or close to portable machines (Chain saws, rock drills, and portable water pumps).
 - e. A combination of the above.
- Block 10: The JHA must be reviewed and approved by a line officer. Attach a Copy of the JHA as justification for purchase orders when procuring PPE.

Blocks 11 and 12: Self-explanatory.

Emergency Evacuation Instructions (Reference FSH 6709.11)

Work supervisors and crew members are responsible for developing and discussing field emergency evacuation procedures (EEP) and alternatives in the event a person(s) becomes seriously ill or injured at the worksite.

Be prepared to provide the following information:

- a. Nature of the accident or injury (avoid using victim's name).
- b. Type of assistance needed, if any (ground, air, or water evacuation).
- c. Location of accident or injury, best access route into the worksite (road name/number),

Identifiable ground/air landmarks.

- d. Radio frequencies.
- e. Contact person.
- f. Local hazards to ground vehicles or aviation.
- g. Weather conditions (wind speed & direction, visibility, temperature).
- h. Topography.
- i. Number of individuals to be transported.
- Estimated weight of individuals for air/water evacuation.

The items listed above serve only as guidelines for the development of emergency evacuation procedures.

JHA and Emergency Evacuation Procedures Acknowledgment We, the undersigned work leader and crew members, acknowledge participation in the development of this JHA (as applicable) and accompanying emergency evacuation procedures. We have thoroughly discussed and understand the provisions of each of these documents:

SIGNATURE DA	ATE	SIGNATURE	DATE
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SIGNATURE DATE	SIGNATURE DATE	SIGNATURE DATE	SIGNATURE DATE