

U.S. Department of Agriculture Natural Resources Conservation Service		1. WORK PROJECT/ACTIVITY <b>HELICOPTER OPERATIONS</b>	2. LOCATION <b>Westwide</b>	3. UNIT <b>Snow Survey</b>
JOB HAZARD ANALYSIS (JHA)		4. NAME OF ANALYST <b>Sheila Strachan</b>	5. JOB TITLE <b>Hydrologist</b>	6. DATE PREPARED <b>1/22/2007</b>
7. TASKS/PROCEDURES	8. HAZARDS	9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE		
<b>AIRCRAFT TRAVEL</b>	Engine Noise	Flight helmets and/or ear plugs mandatory. Monitor noise levels.		
	Fire	Know where the fire extinguisher is. Wear Nomex suits and gloves in helicopters.		
	Engine/structure	Use seatbelts at all times.		
	Exposure to inclement weather	Monitor local weather forecasts. Be aware of changing conditions.		
<b>Entering/exiting aircraft</b>	Possible rotor strike	Be alert & cautious at all times. Approach and depart helicopters with heads lowered. Approach/enter from downhill side. Be alert at all times, exit to the front of helicopter. Never walk around the back of a helicopter.		
	Walking in to exhaust and tail rotor	Use handholds. Do not hurry. Wear appropriate footwear.		
	Slip on foot peg	Walk with care.		
	Slip on docks, logs, etc.	Use floatation devices, survival training, watch footing Do not fly Do not fly when minimums cannot be met.		
<b>Communications</b>	Visibility/inclement weather	Check radio daily, know repeater locations, have an alternative.		
	Faulty radios	Carry spare batteries. Carry portable radio & leave a plan of area that you will be working in, including E.T.A. Leave radio on and with you.		
<b>Fatigue/sickness</b>	Exposure to elements Long flying hours	Keep aware of hazard at all times. Program frequent rests for pilot.		
	Loading/unloading supplies	Exercise proper lifting methods. Do not hurry.		
	Adequate clothing	Wear nomex flight suits on helicopters. Inflatable life preservers will be worn on all aircraft flying over water. Employees shall wear adequate clothing on all flights to include pants, boots or high top shoes and coat. No tennis shoes, skirts or heels will be allowed on flights.		
<b>Pre-work safety meeting</b>		Hold a pre-work safety meeting with helicopter crew before any helicopter operations. Carry survival gear whenever using helicopter.		
10. LINE OFFICER SIGNATURE		11. TITLE	12. DATE	

Previous edition is obsolete

(over)

**JHA Instructions**

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.
- b. Research the Health and Safety Codem 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**

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.
- j. 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      DATE

SIGNATURE      DATE

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