

U.S. Department of Interior Bureau of Land Management	1. WORK PROJECT/ACTIVITY Helicopter External Load Operations	2. LOCATION Utah	3. UNIT Salt Lake District
JOB HAZARD ANALYSIS (JHA)	4. NAME OF ANALYST	5. JOB TITLE	6. DATE PREPARED

7. TASKS/PROCEDURES	8. HAZARDS	9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE
Loads over-head	Head injury	Wear SPH-5 or hardhat
Lift heavy weight	Back injury	Use proper lifting techniques or help from others
	Airborne debris	Use proper PPE
	Electrical shock	Let remote hook touch ground before handling
Movement around helicopter and loading area	Tripping, Falls	Use adequate footwear, clear area of debris or other hazards
Working under hovering helicopter	Critical injuries	Limit exposure, know escape routes, use radio operator/spotter
Loading helicopter	Overloading	Complete load calculations, proper training, know limitations of helicopter(s) being utilized
Low-level flight		Conduct high level recon first, update hazard map
Cargo hook	Inadvertent release	Check all electrical connections, test manual and electrical release, stay clear of flight path
Long line	Sling load hanging up in trees, powerlines, etc	Sling with door off, keep visual contact with load, direct radio contact with pilot
Sling load	Inadvertent loss of load	Check all equipment for wear, service lead lines, chokers, etc., Use proper loading techniques
Cable use	Twisting of load	Use approved swivels between load and remote hook
Radio use	Failure	Check radio before starting mission, extra batteries, backup procedures

10. LINE OFFICER SIGNATURE	11. TITLE	12. DATE
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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 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

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
