1. **WORK PROJECT/ACTIVITY**: SNOW CAT OPERATION  
2. **LOCATION**: Westwide  
3. **UNIT**: Snow Survey  

**JOB HAZARD ANALYSIS (JHA)**  
4. **NAME OF ANALYST**: Bill Overman  
5. **JOB TITLE**: HydroTech  

|-------------------------|----------------|------------------------|
| **Back country travel with a snow cat** | Getting Lost | Driver must be certified in snow cat operations  
Pre trip planning  
Know where you are going  
Make sure GPS has fresh batteries  
Make sure SAT phone is charged and operational  
Never travel solo  
Contact a safety person  
Leave your planned destination and route with your safety person  
Bring survival kit and gear  
Check weather forecast and avalanche hazard |
| | Getting Stuck | Practice safe driving techniques  
Know the strengths and weakness of the machine  
Travel safely over obstacles:  
Travel safely on sidehills:  
Poor visibility options:  
Be proficient in snowcat recovery and winching |
| | Snow Cat breakdown | Be proficient in field maintenance and repair basics  
Have track jack and track parts in cat |
| | Tipping over | Watch for holes in snow pack, running water near road, stumps and rocks under snow surface. Go slowly on sidehills, if cat starts to slide downhill or lose traction try another route or aproach. |
| | Avalanche Hazard | Watch for avalanche paths on route. Cross possible paths only after determining they are safe. Do not stop in possible avalanche paths. |
| **Loading a snow cat on a trailer** | Slipping off Trailer | Driver must be certified in snow cat operations.  
Park on level ground, set parking brake in truck. Do not load or unload on hills, pick a level area.  
Clean any snow or mud from trailer deck. Approach on a straight angle, do not make sudden steering adjustments. Climb trailer ramps or tilt bed at a steady slow rate maintaining traction. Have a spotter watch you load and make sure everyone is clear of the trailer as you load.  
Make sure cat and trailer are properly secured before driving. Have your partner double check. |
| **Unloading a snow cat from a trailer** | Slipping off Trailer | Driver must be certified in snow cat operations.  
Make sure all tie downs have been loosened and are out of the way. Do not load or unload on hills, pick a level area. Park on level ground, set parking brake in truck. Back SnowCat slowly and straight down trailer ramp, hand on brake in case needed. Have spotter watch for any problems, and keep people clear while you slowly back down trailer. |
| **Snow cat Trailering** | Losing all or part of the load. Unstable load. | Make sure all trailer connections, lights, brakes, and tires are working and properly hooked up. Make sure straps that hold down Snowcat are in good condition, and properly secured. Double check tiedowns and trailer when stopping during the day. |

**10. LINE OFFICER SIGNATURE**  
**11. TITLE**  
**12. DATE**
### 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:

- Research past accidents/incidents.
- Research the Health and Safety Code or other appropriate literature.
- Discuss the work project/activity with participants.
- Observe the work project/activity.
- 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:

- **Engineering Controls** (the most desirable method of abatement). For example, ergonomically designed tools, equipment, and furniture.

- **Substitution**. For example, switching to high flash point, non-toxic solvents.

- **Administrative Controls**. For example, limiting exposure by reducing the work schedule; establishing appropriate procedures and practices.

- **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).

- 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:

- Nature of the accident or injury (avoid using victim's name).
- Type of assistance needed, if any (ground, air, or water evacuation).
- Location of accident or injury, best access route into the worksite (road name/number), identifiable ground/air landmarks.
- Radio frequencies.
- Contact person.
- Local hazards to ground vehicles or aviation.
- Weather conditions (wind speed & direction, visibility, temperature).
- Topography.
- 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:

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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.