



SEABA Operation Plan:

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SEABA Managers will hold themselves responsible for ensuring every aspect of this Operating Agreement Document is carried through. As well ensure SEABA is operating at or above the Alaska Heli skiing industry standards and that SEABA is operating at all time within the confines of Federal, State and Local Laws.

Statement of Purpose

The purpose of this operational plan is to establish a precedent for operations within Southeast Alaska Backcountry Adventures LLC. (SEABA) The formation of SEABA was directed at establishing quality services for commercial winter based recreation. Most recreation is designed around the use of Chartered 135 Air taxi services to recreational ski sites. Helicopters used are , AS 350 BA-2 which seat 4 clients , Cessna 180 ski planes, snow mobiles, and snow-cats, as well as non motorized guided backcountry skiing will be used to assist in this outfitted activity. Clients will be able to access ski terrain throughout the specified areas through safe and professional services provided by SEABA LLC.

Guide Training Qualifications and Duties

All guides will be trained in specific responsibilities concerning ski recreation. These will be defined in the following categories.

Pre hire employee paper work-

Guides and ground staff will be required to sign and complete the following documents prior to employment with SEABA.

- SEABA non-compete contract
- SEABA non-disclosure contract
- W4
- Emergency contact form
- SEABA Wavier
- SEABA Guide letter (MOU)



Employee Position and Pay Grade- SEABA employee's pay grade will be determined by the General Manager using the SEABA Pay Grade Flow Chart Document. Every employee will be paid every 2 weeks. As well is responsible for filling out their SEABA issued time sheet.

I. Avalanche Forecasting, Evaluation and Mitigation.

All guides will have an understanding of a level II Avalanche Forecast and Evaluation Certification recognized by AAA. Lead guides must have one season experience with a level two certificate. Lead guides must be 21 years of age. All guides will be encouraged to get the highest level of training available as well as attending all or any training programs offered through SEABA LLC or any other organization.

Complex mountainous terrain and weather prevalent in the Haines vicinity necessitate a comprehensive avalanche program to ensure the safety of SEABA employees and clients. To facilitate this undertaking, SEABA's avalanche forecasters will work closely with W.S.I. (Winter Safety Institute) which is a non-profit focusing on developing safety and reliable informed avalanche forecasting in the upper Lynn Canal. SEABA requires all guides to maintain an American Level 2 avalanche certification at a minimum, although most guides possess certifications above this level.

SEABA's clients travel from all over the world to ski in Haines and although most of them are great skiers, their avalanche safety knowledge varies widely. Mitigating avalanche hazard while skiing in the backcountry requires adherence to a strict set of protocols which guests are educated on during the duration of their stay. Before ever putting their skis on, guests must participate in an interactive avalanche safety presentation, and must demonstrate competence using standard avalanche rescue equipment such as transceivers and probes. After testing at the base of operations, client education continues in the field while guides follow industry standard techniques such as skiing potential avalanche slopes one at a time, and explain the importance of different types of terrain features with respect to avalanche initiation and rescue.

Avalanche Mitigation- Any guide attempting to mitigate a Avalanche Hazard via ski cutting or cornice cutting will have a SEABA employee as a spotter from the Helicopter or from a high point. Any cornices cutting test or helicopter slope test must get a verbal approvable from the lead guide.



II. Glacier Travel and Crevasse Rescue

Guides will have rope rescue skills and be asked to update their rope rescue certificates due within one calendar year of expiration. Guides should be able to pass a field test of rope rescue including crevasse rescue. Guides will have thorough knowledge of mountain and glacier travel. Those guides possessing more “Mountain Time” experience will be given priority according to level of experience and current professional certification held.

III. Emergency Medical Response

SEABA insurance calls for up to date CPR and First Aid certificates. SEABA will request that Lead Guides have more than 40 hours of medical training; guides with more than 40 hours will have work preference. Courses that are recommended are Advanced Wilderness First Aid, Emergency Trauma Technicians (Alaska only), Wilderness First Responder and National Registered Emergency Medical Technicians. Guides should continue to progress and practice their medical training while involved with SEABA. More detail under ([Snowcat and Helicopter Skiing Snow Safety and Medical Evacuation Plan](#))

Guides with the highest level of training, (in all three categories), and possess the most experience will be offered lead guide positions. Guides also showing the highest levels of interest and perception will be favored for available work.

Duties-Guides are responsible for the safety, of their guest, themselves and other guides in the field. Guides must maintain the highest level of Communication, physical fitness and situational awareness.

- **Communication**-Guides must maintain the highest level of verbal communication with other guides in the Heli pod and dispatch stating their intentions and location. As well get a verbal confirmation from another guide in their pod. It is the responsibility of all guides in the field to ensure SEABA Dispatch is receiving Heli and group location on a regular bases. Every guide must conduct a radio check with the heli and another guide in there pod prior to their first run.
- **SEABA Permitted Operating area**-At no time is any SEABA employee permitted to Guide himself or herself or guest outside SEABA’s



permitted operating area. SEABA will provide Heli ski boundary maps to all SEABA staff. As well conduct a pre season map boundary and run review training. Also all guides must pass the SEABA heli ski Map Boundary test. If an infraction occurs, this will be grounds for the immediate termination of an Employee. These infraction are reported to Federal and State officials.

- **Guide Book-** Guides are responsible for filling out their SEABA issued Guidebook. Of which at a minimum will record every day's weather forecast. Key points from the morning Hazard discussion, people in their group and weights. Furthermore all guides will be required to document and complete at least one standardized stability test every day they are in the field. Also record any pertinent field observations. Finally any other key points the Lead guide deems worthy. Guidebooks are the property of SEABA and will be submitted to SEABA Management at the end of each season and filed.
- **Guide Meeting-** All guides must attend guide AM and PM guide/Team meetings on any operational day they are guiding. If guides are not present for the guide meeting they will not guide. If it is forecasted to be a weather day 2 guides will be appointed by the Lead guide to come in at the normal designated time a fill out the guide meeting notes. A guide meeting AM and PM must be filled out and filed every day.
- **Run and Circuit Selection-** The lead guide will designate at area of operation in the morning meeting and communicate that with all other guides as well communicate any change of plan and get a verbal confirmation from all guides, pilot and dispatch. Any new run being opened for the first time in a season, after a storm of 6 or more inches or any weather event that changes snow dynamic will require a American Avalanche Standardized Test. Also the guide must have on slope backup or a guide watching from the Heli. Guides must get a verbal confirmation from the Lead Guide before opening new runs, as well get a verbal confirmation from dispatch.
- **Helicopter Operation-** Guides and ground staff, must wear eye, head, and ear protection while working within 100 feet of a helicopter. LZ's and PZ's must be clean, smooth and flat so that the helicopter can reduce power while loading and unloading.
- **Safety Debriefing-** It is the duty of all Guides deliver the SEABA standardized Helicopter briefing and Mountain Safety briefing all guest. As well all guest have filled out the wavier and medical forms before any person goes into the field.
- **Gear Check-** Guides will do a pre flight gear check to ensure they have all the mandatory items on the SEABA gear list. Guides will then check each other's beacons, Harnesses, and airbag backpack. The guide will then check every person in his or her group. To ensure their beacons



are working correctly, their harness is on correctly, and their airbag pack is prepared to deploy correctly.

- **Drug and Alcohol Policy-** Guides at no time are permitted to be under the influence of any drug or mind-altering substance while performing any duties for SEABA. As well guides are not permitted to consume alcoholic beverages 8hrs before Guiding. If suspected SEABA holds the right to perform random drug and alcohol testing. If the SEABA employee in question refuses their employment will be terminated.

Lead Guides- Must fulfill all the requirements of a “Guide”. As well have a minimum of one Heli season with SEABA and three more years’ experience Heli Ski guiding in Alaska for a total of Four Alaska Heli ski Guide seasons experience. Every Heli skiing group must follow a Lead Guide in the field.

- **Duties-** Run AM and PM guide meetings, ensure all guides fulfilling their duties, ensuring all guides are operating safely and efficiently. Ensure Dispatch, pilots and Forecaster have all the information and resources to do their job the best they can. Run and Circuit selection. Maintain a high level of communication with all groups in the field.

Motorized Conveyance:

SEABA has and will continue to strive to provide the most qualified and esteemed charter services for the clients and employees. During seasonal training, guides and other employees will become involved with the charter companies that SEABA uses. Professional and proper management of relationship between companies is imperative to excellent and reliable service. Personal problems and other issues will be dealt with outside of the client's perception. SEABA holds this relationship with its chartered operators in the highest regard. Any problems should be brought to the attention of a lead guide. From here acting managers of SEABA will proceed to resolve any problems. This shall be a focal point of this relationship.

During pre-season, training will occur both for the guides and the air-charter company that SEABA will use. This time is very pertinent for the Guides and the Pilots to develop communication skills that will enable the best environment for all parties involved. Through this training, the operations and guidelines of both companies will be introduced and explained. By understanding the capabilities and limitations of each party’s responsibilities, SEABA and the



current Helicopter Charter Company will have a better idea of how to provide a better service for clients. Both parties must allow themselves to be most familiar with the operations of both companies. Quality relationships between pilots and guides are highly encouraged, inevitably leading to a highly tuned team providing the best service for the client.

SEABA will also provide the areas of commercial use for heliskiing to the charter company, so that the pilot is also informed of proper technique in accessing the Haines Borough Approved Commercial Ski Tour Recreation Areas. . The helicopter charter company will be involved in making decisions on flying practices to and from these areas so that all clients and personnel are safe and are comfortable during their recreation. After this procedure has been done, SEABA holds no responsibility for pilot actions in the field as his action are dictated by the FAA and the safety of his cargo.

SEABA Also utilizes part 135 fixed wing air chartered to deliver its people to areas in the borough. These areas are all on generally allowed use DNR properties. SEABA will be advertising this activity under its tour permit.

Non-motorized Backcountry Tours

Generally when SEABA's clients are not skiing with the assistance of a heli, snowcat, snow machine, or ski plane, and they request a backcountry activity. This occurs on weather days when aircraft are grounded .We guide them to general state lands and/or land inside the Haines State Forest that does not require a permit from the state.

State general use lands under DNR have no limits on commercial recreation, and do not require a state permit. However since we do use these lands commercially we are required to register with DNR. We have done this for the 2014 season.

Under Special Use Designation 106858 of the Haines State Management Plan, our commercial impact will remain defined as allowable use described in the SUD under CRO (Commercial Recreation Operation) . See Appendix E:

<http://forestry.alaska.gov/pdfs/haines/hsfpfinal.pdf> for areas that is allowable under this CRO.

We will only offer these excursions into areas in which 11 or less client per day are allowed under this SUD. These area include unit 1 Kellsall, including sub units 1a and 1c, all of Unit 2,3 4, 5, and 6in the Haines State Forest Plan.

These activities could include, ice climbing, Nordic skiing, snowshoeing, backcountry skiing, kite skiing/boarding, general hiking, fishing, and/or disc golf. SEABA will only guide clients to use



areas in the Haines State Forest that have a CRO designation that is appropriate for the sub-unit specified in <http://forestry.alaska.gov/pdfs/haines/hsfpappene.pdf>

At this time SEABA does not wish to obtain permits From the Haines State Forest in order to take clients into areas that require more permitting.

All non-motorized tours, mentioned above, will occur in areas that are compliant with the Haines State Forest Management Plan SUD 106858, and the Chilkat Bald Eagle Preserve. SEABA also advertises that these are activities that SEABA offers under its tour permit.

Operations:

The Base of Operations are located at the heliports, airport, 18 mile, 33 mile, and the Snow cat base at .6 mile Chilkat lake Road. These areas will be used as centers of professionalism. Items of business and responsibilities will be held in priority. All employees should recognize that the clients expect that we operate in a responsible and organized manner in order to provide the best possible experience.

During operation these areas should be kept organized and ready for response to several events. Those events are pre-season operation, seasonal operations, and emergency operations. This area must be free from clutter and unorganized personal property, so that in an event of emergency items necessary to the event can be found and utilized in a timely matter.

It is up to the guide to familiarize him or her with the internal workings of base operations. If questions should arise they will be directed to the operations manager or lead guide. This will be imperative to the utmost enjoyment and function of SEABA employees and clientele. In the case of emergencies the functions at base operations could play a critical role in the outcomes of emergency situations. Secondly, familiarizing oneself with the operation will help SEABA provide a more efficient service.

SEABA will hold a policy of pay before you play. All payments or credits are due before services. This is to ensure that the client and the operator, SEABA, are equally informed as to the services rendered. All clients must have also signed a liability waiver, be informed of the inherent dangers of skiing in, traveling in, and use of the backcountry.

Clients will be briefed on arrival for their activities for their 3 to seven day adventure.

Complementary shuttles will drop guests at these bases of operations, or guest will arrive by their own transportation.



Operational Guidelines

In 2016 SEABA plans to operate heliskiing from Feb.10 through the first of May. Most access will be through motorized conveyance that is chartered. There will be contractual agreements between commercial 135 air taxi companies. Only through daily-chartered service and multi day leases will a contract be enacted.

The expected client base for the 2016 heliski seasons should be between 900-1100 user days, but we are requesting 1,100 skier days from the borough at this time. In 2015 we used 647 skier days. This was due to a increase in weather that did not allow SEABA to use its allotted skier days. We estimated that our fly days were down 30%. Given this information we could have reached our allotment had we had better weather.

SEABA will be operating on general state lands inside the Haines Borough. All landings will be on allowable use areas, and/or Haines Borough approved private property.

SEABA is committed to GPS flight following and signing a Letter of Understanding with the Haines Borough to comply with voluntary flight routes to and from ski areas in the Haines Borough.

SEABA Compliance Program for maintaining Heliskiing Operations on permitted lands only

- 1. Familiarization of Operating Area program.**
 - a. All guides and helicopter pilots working for SEABA under direct employment or for the contracted chartered helicopter service company shall attend a familiarization course in which objectives will be met to determine legal operating area.
 - b. Guides, pilots, and dispatch will walk through operating terrain, landing zones, (LZ) and pickup zones, (PZ) with Google maps and get a in class visual perspective on the areas that are allowed for guide based operations..
 - c. Lead guides and helicopter pilots will be tasked with identifying on a map given to



them by management and will have to label each LZ and PZ that are within the operating areas. They will also be assigned to draw on a map by memory the critical landing or pick up zones that are within 1/8th mile or less of unpermitted terrain. Upon review of these tests and after a passing grade is given, they will be approved for operations.

2. In Field practice, training and use objectives

- a. Lead guides, Pilots, and senior guides will upon startup of seasonal operations with assistance of GPS will locate qualified and approved LZ and PZ's within the operating area. These areas will be flagged and way pointed for easy recognition and identification in the field.
- b. It will be a responsibility of the lead guides to make sure these identified LZ PZ'S are maintained for ease of use and visibility for all guides, and pilots in the field.
- c. No new LZ or PZ's will be allowed without management consent with in the critical 1/8th mile and a GPS review and waypoint identification if they are within 1/8th mile of allowable operational boundary.
- d. All live boundaries will be entered into an on board GPS for pilots and guides to reference.
- e. Only Lead guides or senior guides with 3 years' experience with SEABA or other Haines Heliskiing operators will be able to assist with Media/Film production, as these groups of clients tend to not use typical or habitual landings.
- f. Each night prior to the following day's operation, media guides will consult and identify areas of intended use and document these areas based on LAT and LONG by consulting Google maps. Areas that are considered to be 1/8 mile will be cross referenced in the field by using the helicopters on board GPS to see if this terrain is desirable and authorized for use.

3. Reconciliation of the operating areas of use and audit of compliance program

- a. Our contracted part 135 Helicopter Operators must have Real Time GPS tracking of the helicopters location so that the operations manager can retrieve the location and activity of the helicopter in the field. After each day of operation, the Operations Manager will download the track for storage and review for compliance and reporting. If there is a breach in operational guidelines the following enforcement steps will be taken.



- b. First the guide (s) and pilot will be brought in for a meeting to find out why there was a deviation from guidelines and protocols. If it is determined it was for safety and deemed critical for safe operations then the incident will be dismissed. At this point a detailed statement will be sent to the BLM, (or other land owner) to explain the unauthorized but necessary use of property.
- c. Second, if the action is deemed voluntary and blatant then the guide will be reprimanded by being removed from heliskiing rotation for one week, and the pilot that assisted in the error will be reported to the 135 Chartered operator's management for disciplinary action. This enforcement will be included in the part 135 Chartered Contract under a compliance clause necessary for delivery of services.
- d. There will not be a second chance, if it occurs again, then guide will be terminated, and if pilot has involvement it will be requested that that pilot be transferred from the contract held with part 135 Chartered air carrier..
- e. SEABA at this point will contact BLM, (or other land owner) to convey detailed report of trespass.

We also pledge to operate under the T.O.P.S program, found at <http://www.topsafety.org/ProgramOverview/tabid/71/Default.aspx>. SEABA will perform to the standards that are within our control, as this program also involves our contracted part 135 operator which is responsible for the aircraft specific portions of this plan. While SEABA, or our chartered operator are not currently members of TOPS, we can certainly provide this level of security, safety, and detail in our daily operations.

Safety Briefing

SEABA will initiate a safety briefing before any guest begin to ski with us from the helicopter or snow cat to insure that information on how to be safe around the helicopter, snowcat, and snow machine is understood. This is done with the machine present so that certain safety features can be pointed out.

Our guests are also educated on how to use backcountry avalanche tools that will help keep them and other guests as safe as possible. This is done in conjunction with a power point presentation so that the tips and guidelines are explained thoroughly.

Rescue or aid to other backcountry users



SEABA is constantly checking on individuals when spotted in the backcountry to make sure they are not in distress or need help. We would come to the aid of any backcountry user, able to hail, SEABA by radio, smoke signal, mirror, signaling or a sign in the snow. We also will not put other backcountry users in danger if they are visible from above and we are aware of their presence.

Wildlife Guidelines

SEABA will adhere to all federal and state wildlife guideline issued to reduce noise impacts to wildlife during the heliskiing season. We also will continue to operate under FAA policies regarding wildlife. Any changes that the federal or state agencies make will be incorporated upon notice.

We will fill out a daily log that will be provided by the Haines Borough if wildlife is spotted in our daily operations. However, it is not a priority to look for wildlife, as safety of our clients takes precedent.

Flight Following

SEABA will provide flight following in conjunction with the helicopter and ski plane pilots flight following. This will allow SEABA to be aware of the location of skiing clientele in the field. Flight following will be done in accordance with FAA rules and guidelines.

SEABA will also submit a log of gps track coordinates to the borough based on guidelines provided in the ordinance. These reports are private in nature and have business sensitive information contained within. These logs are produced only to defend SEABA's flight paths and location based on potential complaints filed by the public. The Haines Borough will not allow these logs' to be scrutinized, analyzed, copied, or otherwise taken from the Haines Borough without explicit written authority given by SEABA by acting managers, members, or employees.

Fueling

All fueling done will be done in a safe manner in accordance with FAA aircraft fueling operations, and in accordance to Department of Environmental Conservation buffers and spill mitigation measure. Spills will be reported and be cleaned up immediately. SEABA has absorbent pads and containment dikes in place where necessary to make sure that fuel does not get into the ground water, or any part of the watershed. Inspection of facility is encouraged at anytime.



Areas of operation

Under the new Haines Commercial Skiing Ordinance, enacted in the winter of 2011, heliski operators have been given areas of operation under Haines Borough Approved Commercial Ski Tour Recreation Areas". SEABA recognizes that guides are their own person and areas of operation must be thoroughly understood by guides before ski guiding services begin. SEABA implements map awareness in its guide orientation.

Snowcat Snow Safety and Medical Evacuation Plan

In the event of any type of rescue all SEABA personnel will follow the SEABA Heli-skiing Rescue Plan. The most senior person in the field will designate themselves as On-site Commander unless they are directly involved with the rescue then the next senior guide in the field will take On Site Commander. Then the GM, SEABA Owner or senior guide on the ground will assume Incident Command.

At any time a guest or employee request to go to the hospital the request will be fulfilled ideally by Ambulance. If at anytime the incident is designated a Bravo Incident an Ambulance will be put on standby via ground crew. If incident is designated Charlie and Ambulance will be immediately dispatched.

In the event of a critical patient it is the priority of the SEABA staff to stabilize the patient as best they can, and transport to definitive care out of the field.

Snow Cat Area assessment

The area operations for SEABA Snow cat skiing and snow machine assisted skiing and tours is locally known as Old Faithful. It is noted on a USGS map as a peak of 4,740 feet in elevation. Its peak is located at Lat 59, 21.777' Long 136, 8.061'. SEABA has been issued a Department of Natural resources Permit # LAS 25493 which is on file with the borough. It expires in May of 2018. Area of operation is included in appendices titled, "SEABA permit area for snowcat and snow mobile tours."



Owners of SEABA have 18 years localized experience mitigated avalanche activity in the proposed area through helicopter access. Over 600 landings have occurred in the past 15 years. These landings occurred with clients on the mountain or during ski area reconnaissance. These resources allowed SEABA to gather typical avalanche activity on this mountain. We used this technique to develop our snow cat avalanche assessment.

Without the use of explosives, we have and will be mitigating avalanche by ski cuts, cornice cutting, avalanche forecasting, and sound backcountry techniques. Currently we have a working weather station that is taking multiple weather and precipitation readings at a tower at 4200 feet (during winter operations.) This will help us have a more accurate forecasting tool for the area.

We maintain this tower on the LAS permit site with Helicopters so that the measurement devices can deliver information as much as possible.

Snowcat Avalanche Mitigation

SEABA LLC will use helicopters and snow cats to drop guides, experienced in avalanche mitigation, at the top of runs to do control work. This will aid the current heliski and snow cat operations to utilize the mountain in a safer and more predictable way. It will also allow the consistent intake and accumulation of snow data to help understand local snow pack trends.

SEABA Snow cats will access parts of the mountain by avoiding, when possible, identified slide paths (see Avalanche Assessment Map) to reduce possible incidents due to avalanches. At any time the avalanche forecast is high in nature our protocol is to operate outside of the 25-50 year paths until more field data can be gathered. An example of high avalanche danger would be after substantial snow fall, i.e. more than 24" of new snow in 24 hours and/or confirmed avalanche activity from visual or other references in the area.

Our operation plan is to utilize skiable treed terrain outside of avalanche zones to decrease the likely hood of skier triggered avalanches. This will occur during periods of high avalanche danger as well. At no time are we obligated by our operation or safety plan to operate!

Snowcat Operations Rescue

Snow cat rescue operations will follow the design of the Helicopter Rescue Plan, assuming adequate communications can be established with dispatch. Helicopters and all necessary equipment will be brought to the scene based on level of rescue.

Snowcat based rescue operations will be slightly different then helicopter rescue. However, it will be the most likely be the form of rescue unless rescue necessitates a helicopter.



Guides and medical personnel will deliver injured person over to Haines EMS at nearest point available. Transfer of the injured person will be done with utmost patient care and in a timely manner. All of the observed methods previously described or that are found in the SEABA Helicopter Skiing Rescue Plan will be adhered to.

SEABA LLC Avalanche and Safety Equipment

A. Avalanche Safety Plan

1. Each Guide and guest will have an avalanche beacon with battery power above 50%. Guides in each group will have signaling capabilities. Guides also carry narrow fm airband 2 way radios to communicate with pilots and base. Guides and some clients also carry Motorola- talkabouts/ hand held's for back up and on mountain communication between parties.

2. Guide pack should include; avalanche and medical equipment:

Main Guide Pack

Evacuation system, i.e. (rope, pulley, anchors, Z drag)
3 meter Avalanche Probe
Avalanche Shovel
Airbag Backpack
Watch
2 way radio
Extra clothing i.e. (Fleece, shell)
Spare gloves
Hat
Multi tool
Topographic maps or equivalent
Compass
Matches (waterproof)

Paper, Pencil
*Ruler
*Crystal Screen
*Magnifying glass
*Field book, waterproof
*Thermometer (2)
*Pencil

Medical Kit

Non Adhesive Dressings
Adhesive Strip 3"x 4"
Gauze Dressing 3"x 3"
Steri "Strips" 1/2 x 4"
Elastic Bandage "Tensor"
Triangle Bandage (2)
Adhesive tape plain 1"x 5'
S.A.M. Splint
Alcohol swabs
Scissors

3. Snow cat rescue and evacuation equipment:



Snowcat Rescue Pack

Climbing Rope 10mmx 50m (1)
Harness (s)
7 mm x 5 m sling (2)
Z Drag kit
Carabineers, locking, aluminum (4)
Pulley (2) Ice screw (1)
Shovel (3)
Extra anchors (dead man, flukes, and pickets)
Climbing skins
Backboard, splints
Blankets
Cervical Collar
O2

4. Base station equipment cache:

Rescue Resources at Base Operations

Climbing rope 10- 11 mm x 50m (1)
Harnesses (2)
Helmets, climbing or other(1)
7 mm x 5 m sling (2)
Carabineers (4)
Ascenders (1 pr) or prussik
Pulley (2)
100 'tubular webbing
Ice screws (3)
Ice axe (2)
Crampons (adjustable) (1 pr)
Spare clothing -down fill or fiber filled jacket (1)
Sleeping bag or blanket (1)
Warm clothing i.e. (Mittens XL, hat, booties)
Headlamps and batteries
Surplus O2



Helmets and other protective personnel gear

Personnel that guide clients in high risk terrain or film work will be required to wear adequate head protection.

Examples are as follows:

High risk terrain includes any slope that has a secondary exposure, such as cliffs that break the slope and expose personnel to a vertical fall.

Slopes that are over 50 degrees in angle for more than 1,000 vertical feet.

Slopes or areas that have timber both at the top landing and the bottom.

When surface conditions in 50% of skiable terrain is 1 finger hardness or more determined by the forecaster and SEABA management.

High risk activities that require head protection include:

Film work dealing with high risk slopes and terrain.

Any film production requiring belay work, anchors, or has potential for secondary exposure.

Any control work done specifically to stabilize a slope, including cornice cutting, and ski cuts with secondary exposure, or sustained high angle slopes.

All guides must wear Avalanche Inflatable Rescue Packs

Examples include any product made to inflate to float the individual in the event of an avalanche. Guides are always encouraged to wear supplementary impact resistant equipment in the field that protects critical areas. It is safer to not wear body protection and or avalanche flotation packs based on the risk of exposure created by these factors. If at some point the guide does not wear required gear then they will be put on ground operations.

SEABA recognizes that excessive weight and reduction of mobility is a factor in determining the safe use of this equipment. At some point SEABA feels that it is up to the guide to determine if the equipment that protects areas of the body like the spine, knees, and chest in such a manner as to not impede with the safety of the guide and clients.



SEABA Heliskiing Rescue Plan

2016

Plan Alpha - Minor Incident – Internal

Example: Minor injury, missing skier

Plan Bravo - Standby resources

SEABA **MAY** REQUIRE SOME OUTSIDE ASSISTANCE

Plan Charlie - Full Callout

SEABA **DOES** REQUIRE OUTSIDE ASSISTANCE

Plan Hotel - Helicopter Overdue

SEABA/COASTAL/LFH OVERDUE CALL

Plan Delta – Demobilization

Plan Echo – End of Plan



Plan Foxtrot - Fuel Spill

Plan Oscar – Outside Operation Requires Assistance

Plan Alpha - Minor Incident – Internal

Example: Minor injury, missing skier

Immediate Requests:

1. **Time** incident reported: _____

2. **Type** of incident: _____

3. **Field Rescue Leader:** _____

4. **Location** of incident. _____

Glacier Name: _____ **Run Name:**

GPS Location

_____ Degrees _____ Min _____ Seconds North
_____ Degrees _____ Min _____ Seconds West

(Ask pilot for GPS Location)

5. **Which** Helicopter(s) is/are in the area: _____

6. **After 5 minutes have elapsed, ask Field Rescue Leader the following:**

Number of persons involved: _____



Standby for further direction from the Field Rescue Leader

Plan Bravo - Standby resources

SEABA **MAY** REQUIRE OUTSIDE ASSISTANCE

- This means that we have an incident that we can deal with ourselves but we may require outside help -

INFORMATION FOR RESPONDING HELICOPTER(S), THEY WILL NEED TO KNOW

Ask your contact in the field for the following information

1. **Time** incident reported: _____

2. **Type** of incident: _____

3. **Field Rescue Leader:** _____

4. **Location** of incident.

Glacier Name: _____ **Run Name:** _____

GPS Location:

_____ Degrees _____ Min _____ Seconds North
_____ Degrees _____ Min _____ Seconds West

(Ask pilot for GPS Location)

5. **Which** Helicopter(s) is/are in the area (circle): _____

*You are now the **Rescue Base Coordinator**. Contact another SEABA staff person to handle other calls, as you will be busy coordinating the rescue.*

Sunny (907) 314-0445
Nic (406) 396-9665
Ben (630) 247-3063



Dave _____ (907) 508-2301
Mike _____ (907) 799-2967
Chris _____ (801) 244-1383
Fort Seward _____ (907) 766-2009

Rescue Base Coordinator - NOTIFY THE FOLLOWING:

6. **Notify** on the radio any other **SEABA** contracted **Helicopters** working in the field:

Say, “We are initiating a **Plan Bravo**. We need **Resources on Standby**”.

We have a _____ incident.” Give them the **location** of the incident.

Helicopter #1

Time Called: _____ Call Sign: _____ ETA _____

Helicopter #2

Time Called: _____ Call Sign: _____ ETA _____

Helicopter #3

Time Called: _____ Call Sign: _____ ETA _____

Helicopter #4

Time Called: _____ Call Sign: _____ ETA _____

Notify Field Rescue Leader of ETA for each helicopter AND ask Field Rescue Leader how many helicopters he requires

7. Contact 911 (Police) to mobilize.

Say, “Can you please **standby** – SEABA has a _____ incident and **may** require your assistance. Please call us back at “the appropriate number” with ETA?”



911

Time Called: _____ Contact Person: _____
ETA Search and Rescue _____

Notify Field Rescue Leader of ETA back up resources

If another SEABA contracted Helicopter is not available, or you are requested to do so, contact the following helicopter companies

8. Call the following Helicopter Companies and tell them that SEABA is initiating a **Plan Bravo**.

Say “SEABA is initiating a **Plan Bravo** and needs **Resources on Standby**. Ask them if they can please **standby**, what is your ETA, and what is their call sign?

Let them know that we have a _____ incident.” Give them the **location** of the incident.

When **one** has confirmed to assist, **do not** call any more Helicopter Companies unless you are requested to do so.

Alaska Heli Skiing (907) 767-5600 / 907-767-5600
Last Frontier Helicopters: (907) 745-5701
Coastal Helicopters: (907) 789-5600
Tempsco Helicopters: (907) 983 – 2900
Alaska Coast Guard: (800) 478-5555

Alaska Heli Skiing Helicopters

Time Called: _____ Call Sign: _____ ETA _____

Last Frontier Helicopters

Time Called: _____ Call Sign: _____ ETA _____

Coastal Helicopters

Time Called: _____ Call Sign: _____ ETA _____

Tempsco Helicopters



Time Called: _____ Call Sign: _____ ETA _____

Alaska Coast Guard

Time Called: _____ Call Sign: _____ ETA _____
Aircraft Type:: _____ Equipment:: _____ Guides:: _____
Contact Person _____

10. Contact Haines Medical Clinic: 911

Say, “Can you please **STANDBY** – SEABA has a _____ incident and may require your assistance.”

Leave them your phone number so that they know how to reach you.

Haines Hospital

Time Called: _____ Contact Person _____

Standby at this point and await further instructions from field.

When “**PLAN DELTA - DEMOBILIZATION**” is called - go to the appropriate page.



Plan Charlie - Full Callout

SEABA DOES REQUIRE OUTSIDE ASSISTANCE

We need to bring outside resources in to assist. We have a serious accident and we require assistance immediately.

INFORMATION FOR RESPONDING HELICOPTER(S), THEY WILL NEED TO KNOW:

Ask your contact in the field for the following information

1. **Time** incident reported: _____

2. **Type** of incident: _____

3. **Field Rescue Leader:** _____

4. **Location** of incident.

Glacier Name: _____ **Run Name:** _____

GPS Location:

_____ Degrees _____ Min _____ Seconds North
_____ Degrees _____ Min _____ Seconds West

(Ask pilot for GPS Location)

5. **Which** Helicopter(s) is/are in the area (circle): _____

You are now the Rescue Base Coordinator. Contact another SEABA staff person to handle other calls, as you will be busy coordinating the



Sunny _____ (907) 314-0445
Nic _____ (406) 396-9665
Ben _____ (630) 247-3063
SEABA OFFICE _____ (907) 766-2010

Rescue Base Coordinator - NOTIFY THE FOLLOWING

6. Notify on the radio any other SEABA contracted Helicopters working:

Say, “We are initiating a **Plan Charlie**. We need **immediate assistance**”

We have a _____ incident.” Give them the **location** of the incident.

Helicopter #1

Time Called: _____ Call Sign: _____ ETA _____

Helicopter #2

Time Called: _____ Call Sign: _____ ETA _____

Helicopter #3

Time Called: _____ Call Sign: _____ ETA _____

Helicopter #4

Time Called: _____ Call Sign: _____ ETA _____

Notify Field Rescue Leader of ETA for each helicopter

7. Contact 911 (Police) to mobilize.

Say, “Can you please **standby** – SEABA has a _____ incident and **may** require your assistance. Please call us back at “appropriate number” with ETA?”

911

Time Called: _____ Contact Person: _____
ETA Search and Rescue _____

Notify Field Rescue Leader of ETA back up resources



8. Call the following Helicopter Companies and tell them that SEABA is initiating a **Plan Charlie** and needs **immediate assistance**

Say “SEABA is initiating a Plan Charlie and needs immediate assistance. Ask them what is your ETA and what is their call sign?

Let them know that we have a _____ incident.” Give them the **location** of the incident.

When **one** has confirmed to assist, **do not** call any more Helicopter Companies unless you are requested to do so.

<u>Alaska Heli Skiing</u>	<u>(907) 767-5600 / 907-767-5601</u>
<u>Last Frontier Helicopters:</u>	<u>(907) 745-5701</u>
<u>Coastal Helicopters:</u>	<u>(907) 789-5600</u>
<u>Temsco Helicopters:</u>	<u>(907) 983 – 2900</u>
<u>Alaska Coast Guard:</u>	<u>(800) 478-5555</u>

Alaska Heli Skiing Helicopters

Time Called: _____ Call Sign: _____ ETA _____

Last Frontier Helicopters

Time Called: _____ Call Sign: _____ ETA _____

Coastal Helicopters

Time Called: _____ Call Sign: _____ ETA _____

Temsco Helicopters

Time Called: _____ Call Sign: _____ ETA _____

Alaska Coast Guard

Time Called: _____ Call Sign: _____ ETA _____

Aircraft Type:: _____ Equipment:: _____ Guides:: _____

Contact Person _____

11. Contact the Juneau Regional Hospital (907) 796-8427



Say, “Can you please **STANDBY**– SEABA has a _____ incident and will be requiring your assistance.”

Give them your phone number so that they know how to reach you.

Notify them of the number of persons injured, nature of injuries (if known), and language spoken for each patient.

If you require extra ambulances or patient transport, Call 911, ask for ambulance.

Ambulance #1
ETA Ambulance _____
Ambulance Pickup _____

Ambulance #2
ETA Ambulance _____
Ambulance Pickup _____

Ambulance #3
ETA Ambulance _____
Ambulance Pickup _____

Ambulance #3
ETA Ambulance _____
Ambulance Pickup _____

*** Ambulance can refer to Air Ambulance. When instructed by Field Rescue Leader, call 911 to arrange Air Ambulance, otherwise assume ground transportation.**

12. Ask the field rescue leader at the incident scene if they require:

_____ Total Number of Helicopters Required
_____ Number of Ambulance (Pick up location for Ambulance
is _____ Haines Airport)

_____ First Aid Equipment
(Extra Oxygen / First Aid / Vacuum Mattress / Leg
Splint/Nitrious Oxide)
_____ Overnight Camp Kit
_____ Steel avalanche shovels / probes
_____ Rope Rescue Kit
_____ Helicopter Sling Rescue



13. Call the following SEABA employees until you reach one.

Sunny GM (907) 314-0445
Nick OM (406) 396-9665
Ben SO (630) 247-3063
Dave S Lead (907) 508-2301
SEABA Office (907) 766-2010

- A) Assemble a response team to greet returning guests for immediate customer service (can be for DAY, LODGE, PRIVATE AND MEDIA programs)
- B) Tell the kitchen staff to start preparing hot drinks, soup and sandwiches FOR EACH different program (DAY, LODGE, PRIVATE AND MEDIA programs)
- C) Ask them to **Standby** at this point and await further instructions from the

field.

One person should park a vehicle across the top of the road into the lodge. Post “No Trespassing Sign” on vehicle.

Time: _____ Contact Person _____

*Continue coordinating resources with the field rescue leader.
Rescue is not complete until PLAN DELTA and PLAN ECHO is completed!*

Plan Hotel - Helicopter Overdue

Helicopter overdue. The helicopter is 30 minutes since last check in/contact

1. Last Check in Time _____ Time “Plan Hotel” initiated: _____

2. Which Helicopter is overdue (circle): _____

3. Last known point of overdue helicopter:

GLACIER NAME: _____ RUN NAME: _____

GPS Location

_____ Degrees _____ Min _____ Seconds North



_____ Degrees _____ Min _____ Seconds West

4. Which other Helicopter(s) are in the area:

List Helicopters: _____

5. Notify Sunny, Nick or Ben to check appropriate Helicopter Flight Tracker (Spider Tracks):

Sunny _____ (907) 314-0445
Nick _____ (406) 396-9665
Ben _____ (630) 247-3063

6. Contact appropriate Helicopter provider office:

Say “We have **(insert Heli Call Sign)** 30 mins overdue. We are initiating PLAN HOTEL. We will be sending a aircraft to investigate the overdue Helicopter unless you can advise otherwise.”

Coastal Helicopters: _____ (907) 789 - 5600
Last Frontier Helicopters: _____ (907) 745-5701
Temsco Helicopters: _____ (907) 983-2300

Contact person _____ Time Contacted _____

7. Radio any other SEABA Helicopters working that day and instruct them to investigate overdue Helicopter.

Say “We have (Insert Heli Call Sign of overdue Heli) 30 mins overdue and are initiating a PLAN HOTEL. Give responding Helicopter last known coordinates of overdue Heli and ask for ETA to investigate”

Call Sign: _____

ETA: _____



8. Wait for responding Helicopter to investigate. Initiate proper response plan (Bravo, Charlie) as appropriate.

Plan Delta - Demobilization

*Go through the **Rescue Plan** and call **each person and company** that you have contacted.*

- 1. Call Field Rescue Leader to get confirmation that all clients and guides have exited the field and are accounted for.**
- 2. Contact all outside companies/resources contacted throughout entire rescue to get confirmation all rescuer’s have left the field and are accounted for.**

Say, “Thank you for your assistance, the **Rescue** has been **completed**; Please contact us when all resources have been accounted for. You will be contacted **later** with the details of the incident.”

Return to plan used, and call every company/resource contacted.

Only “check” Resource Return Confirmation once full confirmation that all resources are accounted for.

#	Company	Contact Person	Time Demobilized	Resource Return Confirmation
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				



11				
----	--	--	--	--

**Once all resources have been accounted for,
Initiate **PLAN E –END OF RESCUE****

Plan E-END OF RESCUE

END OF RESCUE Plan

Rescue is complete. Alert all SEABA guides and staff members that Plan Delta – Demobilization is completed

1. Alert all SEABA Guides and Staff Members of PLAN E

Say “Plan D – Demobilization has been completed. All resources, guides, and clients involved in the incident have been accounted for. Thank you for all of your help. We will be holding a debriefing meeting for all SEABA staff in the next 12-24 hours.”

2. Call Sunny, Nic and Ben and tell them Plan E has been initiated. Rescue is over.

Sunny (907) 314-0445
Nick (406) 396-9665
Ben (630) 247-3063

***** DO NOT MAKE ANY COMMENTS TO ANY MEDIA. SIMPLY SAY “NO COMMENT AT THIS TIME IS THERE A NUMBER WE CAN REACH YOU AT WHEN WE HAVE MORE INFORMATION” *****



Plan F-Fuel Spill

Fuel Spill Emergency Response Plan

Fuel Site Locations

South

Haines Airport (Fuel)

500 gallons located at north end of the airport

18 Mile (Fuel)

500 gallons at George Campbell's property on the south end of the house

33 Mile (Fuel)

500 gallons across from the 33-mile road house (west side of the street)



*Turn page and
continue*

Emergency Response Procedure

Assess Hazards

- i. No Open Flames and No Smoking
- ii. Ensure Personal Safety
- iii. Is there a fire hazard?

Initial Control

- i. Control Spill if possible
- ii. Shut off all valves, pumps and nozzles
- iii. Surround product with commercial spill kit booms and absorbents or earth, sand or gravel.

Assess Spill and Environmental Hazard Level

- i. Volume of spill.
- ii. Potential for further spill
- iii. Has fuel reached or is in danger of reaching moving water?

Notify SEABA Base of spill location, volume and additional requirements

Any spills greater than 25 gallons in volume must be reported immediately.

Coordinate with base requirements for outside resources

If response will be ongoing prepare for lighting, food and additional resources.

All fuel sites are equipped with spill kits.

Report and Record

Date: _____ Location: _____

Time of Spill: _____ Approx. volume of spill: _____



Turn page and continue

Fuel Response Resource

<u>Delta Western</u>	<u>(907) 314-0445</u>
<u>Fire Department/Police</u>	<u>(907) 766-2121</u>

Additional Notes:

Accident Reports

Meet with the SEABA BOD's, Field Rescue Leader, other guides, physicians, and Alaska State Police to complete reports.

Fatalities

Contact the owner if there has been a fatality. Work with the Alaska State Police and the Coroner to complete the necessary forms and carry out the correct operational measures.

Avalanches

Complete the avalanche involvement report forms and send to the owners of SEABA. Report on the guide meeting forms.

All Accidents

Send a completed report to the Insurer

Medical Reporting and Monitoring

Send a copy with the patient and ensure a copy is kept on file in the main office. Fill out Medical forms if a staff member is injured or has a near-miss incident.

Media Response

The SEABA office will prepare a media response package and inform the staff of the



appropriate response when being approached by the media.

Operational Debrief

All staff should review the rescue effort and be prepared to provide constructive input to refine the avalanche safety plan, rescue plan and operational procedures.

Critical Stress Debriefing

The Operations Manager will arrange for critical stress debriefing for SEABA staff.

Emergency Medical Service Action Plan and contact Information

Local contacts:

Haines EMS dispatch: 766- 2121
SEABA LLC
Haines EMS.

Aviation band emergency frequency:

Coastal Helicopters

Last Frontier Air Ventures

Chief Pilot Coastal in Juneau

Haines State Troopers

Nick Trimble SEABA Owner OPS Man.

Ben Anderson SEABA Owner Safety Man.

Scott Sundberg SEABA Owner Genera Man.

Greg Palmieri Fire Chief

151.550 Office 907 766 2010

154.400 in the Chilkat/Klehini Valley

155.760 east of Haines

121.50

151.565

151.955

1 800-789-5610

1 907 -766-2552

1 406 396 9665

1 630 247 3063

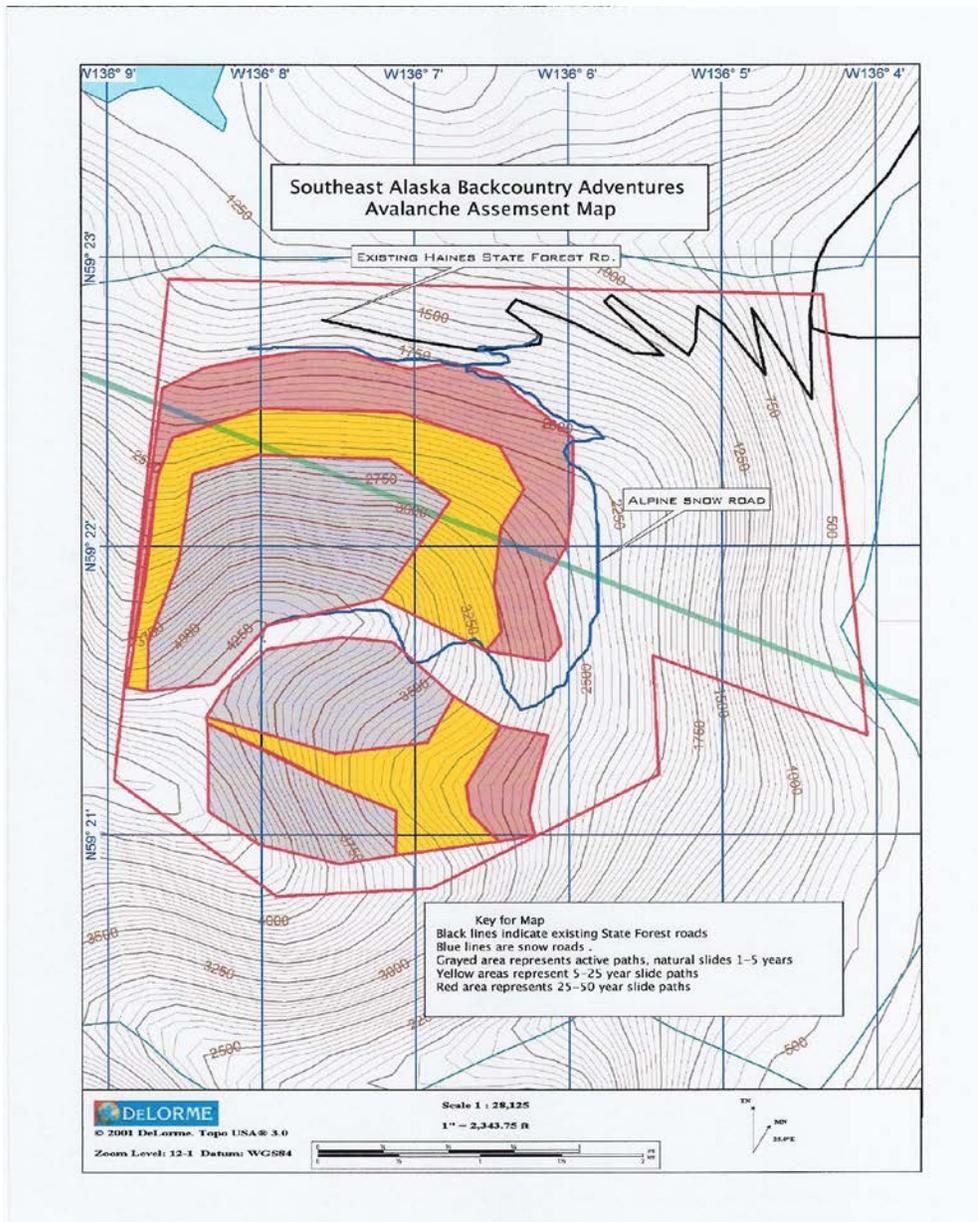
1 907-314 0445

Incident Report/After Action Review- A after action review and incident report forms need to be filled out and filed within 24hrs of any incident of which meet any of the following criteria.

- Incident involving a medical extraction from the field or a client complaining of any sort of pain
- A client or staff complaining of pain while being guided by SEABA Guides
- Any Avalanche that takes clients or staff for a ride
- Any Airbag deployment
- Near miss ie(Avalanche almost hitting a group, Cornice/Ice fall or collapse.
- Any Helicopter mechanical in the field or crash landing.
- Groups stuck in the field for prolonged periods of time without helicopter support ie (3 hrs or more)
- No radio communication with a heli pod for more than one hour

- The GM and Lead guide staff can deem any incident worthy of a After Action Review

SEABA State permitted Snowcat and Snow Machine Ski Touring Area.





Snowcat and Helicopter Skiing Rules

The following are highly recommended guidelines for safe recreation with SEABA:

1. Skiers must obey all signals and commands from guides.
2. All clients will utilize both verbal and visual communication with guides and other clients. This promotes safety on the mountain.
3. If you don't understand a communication from your guide, ask for clarification.
4. If you fall and are not hurt wave your right hand, or ski pole.
5. If you are lost, backtrack to the last open area and wait. Make yourself visible.
6. Skiers should enter slopes cautiously and try to avoid traversing slopes unless instructed to do so.
7. If snow acts suspiciously (fracturing or collapsing) turn back and inform your guide.
8. If you are caught in an avalanche, make swimming motions and try to stay on top.
9. If the guide is caught in an avalanche, send communication either by radio to other guide, or have two people ski the safest route to get help. If possible begin search in safest manner for guide.
10. Once the avalanche victim has been unburied, check for breathing and apply CPR or first aid if needed. Keep warm until the victim can be moved to a warmer safer location.
11. All clients will have training in utilizing beacons (when applicable) this means that they will be able to find a buried beacon within two minutes from 100 feet out. They will also be trained in probe use and a basic rescue scenario before tour commences.
12. All clients will know how to enter and exit the snow cat in a safe and efficient way. They will be shown how to hold on while in transit. They will also be shown where emergency equipment is located on the cat in case a guide/s becomes the victim/s or there is a fire in the cab of the snowcat.
13. Maps of the area will be in the snow cat for orientation purposes.
14. Clients are advised when skiing/ snow shoeing, in treed, gullied, or limited visibility conditions to not ski alone or away from visual contact with at least one other person.
15. In the event of an accident, clients are recommended to remain where they are, make noise if possible and hopefully the last visual contact (guide/client) will be able to commence rescue operations.





Guide Pack contents:

(Guide is responsible for purchase of these items)

Snow study kit
Medical kit (including pocket mask, med tape, gauze, sam splint, triangular slings, etc.)
Leatherman/ tool
Headlamp
Extra hat, gloves, goggles
Sunglasses
Down jacket
Rope (30m of 8mm min.)
Crevasse rescue kit
Flagging
Ski/snowboard binding repair kit (ski straps, zip ties, bailing wire, duct tape, etc.)
Sunblock
Hand warmer packets
Food/water
Write in the rain field book
Motorola talkabouts + xtra batteries