April 5, 1978

CHIEF RANGER'S DIRECTIVE 78-3

To:       All Ranger Stations

Subject:  Search and Rescue Plan and Reporting Forms

Copies of the new SAR Plan for Great Smoky Mountains National Park are being distributed to each ranger station for information and compliance. In addition, revised reporting forms are also being distributed. One is the SAR Mission Report form that is to be completed for all incidents classified as search and rescue incidents. These include carryouts, water-related rescues, and other incidents requiring search, rescue, or other than vehicle evacuation procedures. Note that for some categories on the form, more than one check mark may be appropriate. In other words, all information that applies is to be entered on the form.

The second form is the Premium Pay Authorization and Cost Record for Emergencies Activities form. This replaces the old form, of the same title, that is reproduced on regular sized paper. All copies of the old forms should be destroyed. This form will be used to record all costs and to authorize premium pay for any emergency activity, including search and rescue, fire, floods, etc. Also attached is a SAR Mission Cost Data Sheet that will give you some guidance about costs for certain resources that might be used in emergencies.

Further instructions about these forms are included in the SAR Plan.

J. W. Wade

Enclosures

North District Ranger
South District Ranger
Abrams Creek Ranger Station
Big Creek Ranger Station
Cades Cove Ranger Station
Cataloochee Ranger Station
Chilhowee Ranger Station
Cosby Ranger Station

Deep Creek Ranger Station
Elkmont Ranger Station - 2
Greenbrier Ranger Station
Oconaluftee Ranger Station - 2
Smokemont Ranger Station
Tremont Ranger Station
Twentymile Ranger Station
Wears Valley Ranger Station

[Signature]
SEARCH AND RESCUE PLAN
GREAT SMOKY MOUNTAINS NATIONAL PARK

PURPOSE

Great Smoky Mountains National Park has legislated exclusive jurisdiction over its land and all activities thereon. As a result, the responsibility and authority to carry out Search and Rescue activities, within the boundaries of the Park, lie with the National Park Service.

OBJECTIVES OF THIS PLAN

To describe procedures to be followed for searches and rescues that will:

- Give the appropriate high priority to the protection of human life.

- Find, provide for the necessary emergency medical care, and evacuate victims in distress:
  - using the most effective resources,
  - with the least elapsed time,
  - in the safest and most economic way,
  - with the least impact on the Park's natural and cultural resources.

1.0 PRIORITY OF RESOURCES

1.1 When it involves a threat to life, a search or rescue mission will have priority over every other activity (except other, more serious life threatening emergencies). As requested, every division will provide all equipment and supplies, human resources, and facilities necessary to meet the above stated objectives.

2.0 THE FIRST NOTICE

2.1 When notified of a lost or injured person needing evacuation, the ranger taking the report will record immediately the essential (Part I) information of the Lost Persons Report (See appendix A).

2.2 All available information about other types of potential emergency rescues (plane crashes, etc.) will be recorded accurately by whoever receives the initial report.

March 1978
2.3 The Assistant Chief Ranger or Chief Ranger, will be notified immediately, through the normal reporting channels and through the Communications Center when possible, of any lost (or significantly overdue) persons, or of any potential major rescue operation.

2.4 The Regional Office will be notified, in accordance with established procedures, of any major mission.

3.0 PRIORITIES (Relative Urgency)

The following guide will help determine the relative urgency of the situation. The lower the priority factors, the more urgent the need to respond. (Pertains primarily to LOST persons).

3.1 Victim Profile

<table>
<thead>
<tr>
<th>Victim Profile</th>
<th>Priority Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1.1 Age</td>
<td></td>
</tr>
<tr>
<td>- Very young</td>
<td>1</td>
</tr>
<tr>
<td>- Very old</td>
<td>1</td>
</tr>
<tr>
<td>- Other</td>
<td>2-3</td>
</tr>
<tr>
<td>3.1.2 Medical Condition</td>
<td></td>
</tr>
<tr>
<td>- Known or suspected injured or ill</td>
<td>1-2</td>
</tr>
<tr>
<td>- Healthy</td>
<td>3</td>
</tr>
<tr>
<td>- Known fatality</td>
<td>3</td>
</tr>
<tr>
<td>3.1.3 Number of victims</td>
<td></td>
</tr>
<tr>
<td>- One alone</td>
<td>1</td>
</tr>
<tr>
<td>- More than one (unless separation suspected)</td>
<td>2-3</td>
</tr>
</tbody>
</table>

3.2 Weather Profile

<table>
<thead>
<tr>
<th>Weather Profile</th>
<th>Priority Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.2.1 Existing hazardous weather</td>
<td>1</td>
</tr>
<tr>
<td>3.2.2 Predicted hazardous weather, 8 hrs. or less)</td>
<td>1-2</td>
</tr>
<tr>
<td>3.2.3 Predicted hazardous weather, more than 8 hrs.)</td>
<td>2</td>
</tr>
<tr>
<td>3.2.4 No hazardous weather predicted</td>
<td>3</td>
</tr>
</tbody>
</table>

3.3 Equipment Profile

<table>
<thead>
<tr>
<th>Equipment Profile</th>
<th>Priority Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.3.1 Inadequate for environment</td>
<td>1</td>
</tr>
<tr>
<td>3.3.2 Questionable for environment</td>
<td>1-2</td>
</tr>
<tr>
<td>3.3.3 Adequate for environment</td>
<td>3</td>
</tr>
</tbody>
</table>

3.4 Victim Experience Profile

<table>
<thead>
<tr>
<th>Victim Experience Profile</th>
<th>Priority Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.4.1 Not experienced, does not know area</td>
<td>1</td>
</tr>
<tr>
<td>3.4.2 Not experienced, knows area</td>
<td>1-2</td>
</tr>
<tr>
<td>3.4.3 Experienced, not familiar with area</td>
<td>2</td>
</tr>
<tr>
<td>3.4.4 Experienced, knows area</td>
<td>3</td>
</tr>
</tbody>
</table>
Note: Elapsed time from when victim "went missing," along with the "political" sensitivity of the circumstances will have the effect of increasing the relative urgency.

4.0 STRATEGY

4.1 If a known rescue, determine what will be needed in the way of resources to carry out the rescue.

4.2 If a search will be necessary, establish the probable boundaries of the search area. Factors to take into consideration are:

4.2.1 Statistical Data (case histories of behavior of lost persons)
4.2.2 History of the area and deductive reasoning; "reconstruct the circumstances."
4.2.3 Intuition
4.2.4 Analysis of time/distance traveled
4.2.5 Terrain idiosyncrasies
4.2.6 Clues
4.2.7 Subject information
4.2.8 Natural routes
4.2.9 Natural barriers
4.2.10 "Put yourself in subject's shoes"}

5.0 INVESTIGATION

5.1 Consideration must be given, in the very early stages of a search mission, to designating someone (trained) to carry through with a thorough investigation. The effectiveness of search operations has been diminished because of a lack of thorough information about the subject(s), etc.

5.2 As the mission continues, the remaining pertinent information on the Lost Person Report should be obtained. The report form can serve as a checklist to avoid missing any possibly significant information.

5.3 Other considerations

5.3.1 Criminal possibilities
5.3.2 Check vehicle for clues
5.3.3 Preserve clues and physical evidence

6.0 THE EFFECT OF CLUES

6.1 Although clues (footprints, items discarded by subject, scent articles) may not lead directly to the subject, their most powerful effect can be to eliminate search area. Every person involved in a search (especially the early phases) must be reminded constantly to be "clue conscious."
7.0 TACTICS

7.1 Initial actions ("initial attack") will have three objectives:

7.1.1 Confine the subject(s), prevent the search area from enlarging
7.1.2 Effectively use the resources that are immediately available
7.1.3 Find the subject or clues

7.2 Confinement and Attraction Methods

7.2.1 Road or trail blocks
7.2.2 "Camp-Ins"
7.2.3 Lookouts
7.2.4 Track traps
7.2.5 Road or trail patrols
7.2.6 String lines
7.2.7 Noise
7.2.8 Smoke
7.2.9 Lights

7.3 Generally, available trained NPS personnel will be dispatched, immediately as hasty teams, to areas of highest probability of detection, to attempt to locate the subject or CLUES. Efforts of this type include:

7.3.1 Follow known or suspected route
7.3.2 Trail running
7.3.3 Sign (track) cutting
7.3.4 Areas of attraction
7.3.5 Especially hazardous areas
7.3.6 Roads
7.3.7 Drainages
7.3.8 Ridge tops
7.3.9 The easily forgotten obvious - restrooms, tents, vehicles, home, etc.

7.4 Clue-finding and/or Clue/Subject-finding resources will be used as early in the search effort as they can be moved to the search area. These resources include:

7.4.1 Visual trackers
7.4.2 Search dogs (shepherds)
7.4.3 Trained (clue conscious) hasty teams
7.4.4 Tracking dogs (hounds)
7.4.5 Direction finding equipment (to locate operating Emergency Locater Transmitter of plane crash)
8.0 PREFERENCE FOR RESOURCES

8.1 The following outlines the order of preference of tactics and resources to be used on a search:

8.1.1 Trained (clue conscious) Hasty Teams
   Visual Trackers
   Search Dogs
   Confinement and Attraction
   Tracking Dogs (IF weather and available clues dictate)
   Air Search
   DF Teams (if active ELT)

Note: The above resources will be used concurrently, as available.

8.1.2 Untrained Hasty Teams
8.1.3 Grid (line) searchers

8.2 Every reasonable effort will be carried out to locate the subject using those methods listed in 8.1.1, before using those listed in 8.1.2 and 8.1.3; even though large numbers of searchers might be immediately available. The use of grid or line search techniques must be regarded as a last resort, along with which the efficiency, economy and control of the mission can be expected to substantially diminish. Large numbers of searchers, even when reasonably well trained, virtually obliterate clues. As a result, the effectiveness of those resources that have the highest and quickest probability of detection (dogs and visual trackers) is considerably reduced, or even eliminated.

9.0 INITIAL RESPONSIBILITY

9.1 The District Ranger will be responsible for, and have authority over SAR operations, so long as no personnel or resources from outside his or her district are required.

9.2 At such time that resources or personnel are needed that are beyond the capability of the district to provide for, generally a SAR overhead management team will take over.

10.0 CALLOUT PROCEDURES

10.1 Whenever resources or personnel are needed that are beyond the district capabilities, they will always be requested through the Park Communications Center; or after hours, through the Assistant Chief Ranger, Chief Ranger, or Acting Chief Ranger. In order to maintain effective Parkwide coordinated efforts, no direct contacts with "outside" resources will be made by
Subdistrict or District personnel without approval. Whenever outside resources call the field stations, they must be referred to Headquarters.

10.2 The following are established callout procedures:

10.2.1 In the Park, callout will be done by following the established organizational reporting channels.

10.2.2 In Tennessee, requests for all volunteer rescue squad resources will be directed through the President, Tennessee Association of Rescue Squads (See Appendix B).

10.2.3 In North Carolina, requests for all volunteer rescue squad resources will be directed through Swain County Sheriff's Office, Bryson City, NC (See Appendix C).

10.2.4 Requests for all other Tennessee State resources will go to the Tennessee Division of Civil Defense and Emergency Preparedness.

10.2.5 Requests for all other North Carolina State resources will go to North Carolina Regional Office of Emergency Services, Waynesville, NC.

10.2.6 Requests for all other NPS resources will go through the Southeast Regional Office.

10.2.7 Requests for all other "outside" resources (military, other specialized resources) will go through Tennessee Civil Defense and/or the U.S. Airforce Aerospace Rescue and Recovery Coordinator Center (AFRCC) at Scott AFB, Illinois.

11.0 ORGANIZATION

11.1 A functional management approach, similar to that common to wildfire suppression efforts, will be used on SAR missions. The following functions must be considered on any SAR Mission, even very minor ones. In the very early stages, some functions may be unnecessary; and several, or even all, may be carried out by one or a few persons. As the mission becomes more complex, the need to delegate specific functions to individuals - forming an overhead team - increases. The more complex the mission, the greater the need for individuals with specialized training to carry out each function.
11.1.1 The Mission Boss - Responsible for all "on-the-scene" activities, and the associated minute-by-minute decisions. Accountable for the overall success or failure of the mission.

11.2.2 Plans - Responsible for getting pertinent information and advising on strategy and tactics. May include:
- Maps and Records
- Meteorology
- Intelligence/investigation (See 11.1.9)
- Aerial Photo and Map Interpretation
- Briefing/debriefing
- On-scene training

11.1.3 Ground Operations - Responsible for carrying out tactical activities of ground resources. May include:
- Forward Coordination/Communications Posts (See 11.1.10)
- Sector bosses
- Team leaders
- Special teams liaison (See 11.1.11)

11.1.4 Air Operations - Responsible for coordinating and carrying out tactical and support activities of airborne resources, both rotary and fixed-wing. May include:
- Manifesting
- Aircraft control
- Aircraft maintenance

11.1.5 Support Services - Responsible for providing supplies and equipment necessary to support the mission. May include:
- Equipment
- Transportation
- Safety
- Base camp operations (eating, sleeping, sanitation)
- Security and fire protection
- Ambulance and first-aid station
- Finance/timekeeping

11.1.6 Communications - Responsible for installing, maintaining and operating communications systems. May include:
- Messengers
- Repair
- Operators
- Log (including recording radio transmissions, when possible)
11.1.7 Media Relations - Responsible for coordinating and controlling media representatives and for keeping them adequately and accurately informed.

11.1.8 Liaison with Relatives - Responsible for providing for the needs of those relatives or close friends on the scene and for keeping them informed of mission progress.

11.1.9 Investigation - Responsible for conducting a thorough investigation into background and activities of subject (to the extent necessary) and for providing pertinent (mission critical) information to the person responsible for the Plans function.

11.1.10 Forward Coordination and Communication Posts - When necessary to improve the effectiveness of the mission, forward C and C posts will be established at such places as Balds (helispots), shelters, trail junctions, or other appropriate locations. Their purposes might include coordinating incoming or outgoing personnel, managing helispots, radio relay, providing intelligence about mission progress to the person responsible for Plans, etc.

11.1.11 Unit Liaison Officers - Each non-NPS special resource unit (volunteer rescue units, dog units, CAP, visual trackers, etc.) should have assigned to it, an NPS person, for the purpose of coordinating the activities of that unit while not engaged in actual tactical activities. In addition, each unit will be asked to designate one person to be responsible for the overall coordination of the unit.

11.1.12 Life Support - Whenever the mission involves a known or high potential for serious injury or illness, emergency medical teams will be available to be moved rapidly to the victim by whatever means the conditions will allow. Often these teams will be ones from outside the Park that have their own prearranged organization. Whenever possible, without creating serious disruption, an NPS employee (trained EMT) will accompany each medical team.

Note: In order to maximize the on-scene coordination and expertise, especially on larger missions, representatives from supporting organizations will often work very closely with NPS personnel in the various functional roles. When appropriate the Mission Boss might designate non-NPS individuals to be responsible for certain functions.
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11.2 Functional Organization Chart (See Appendix D)

11.3 Individual Qualifications (See Appendix E)

12.0 BASE CAMP

12.1 A well-organized base camp normally will be established as quickly as possible at the location closest to the emergency as is possible with access by ground vehicle transportation. Adequate access by helicopters may cause some deviation from this.

12.2 The coordination and communications van, (on property receipt to Great Smoky Mountains National Park from the State, under memo of agreement) normally will be stationed at Park Headquarters. It will be moved to the Base Camp location immediately after the mission advances beyond the capability of the district, (earlier if requested by the district). The van will be equipped to serve as a complete coordination center on smaller missions. It will carry the equipment necessary to establish an expanded coordination center, while itself serving as the communications center portion, on large missions.

13.0 RESCUE AND EVACUATION

13.1 Immediately after locating the victim(s), the proper emergency medical care will be provided to stabilize the injured or ill. Immediately thereafter, the Mission Boss will be given all information necessary to plan the evacuation.

13.2 If not on a trail or other easy access, a route to the closest easy access should be well-marked as soon as the victim(s) is (are) located and stabilized. This will provide for quicker response by other personnel and help determine the evacuation requirements.

13.3 Rescue and Evacuation will be carried out by the most effective and quickest method, but taking into consideration:

13.3.1 Condition of victim(s)
13.3.2 Safety of the victim(s) and rescuers
13.3.3 Equipment and human resources available
13.3.4 Terrain
13.3.5 Weather
13.3.6 Resource protection
13.4 Safety of the victim(s) and rescuers are of paramount importance. Often conditions are such that helicopter evacuations are the quickest and most effective.

13.4.1 Whenever helicopter evacuations are used, only techniques that have been tested and proven safe will be used. If a helicopter evacuation is chosen as the primary method of evacuation, a contingency plan must be established simultaneously for ground evacuation, in case conditions change and a helicopter evacuation cannot be completed.

14.0 FATALITIES

14.1 The urgency for evacuating fatalities is very low. Resource protection and safety to rescuers will not be sacrificed to remove bodies.

14.1.1 If the removal of any body must be delayed, at least two persons will stay with any remaining body at all times.

14.2 Helicopters normally will not be used to evacuate bodies, unless they are already in the area, and unless it is safer and more economical than other methods. Horses should be strongly considered as a primary method for evacuating bodies.

14.3 Bodies will not be moved until permission to do so and other special instructions have been received from the Mission Boss.

14.4 Every reasonable attempt should be made to photograph the body and immediate vicinity, before anything is moved.

14.5 The possibility of foul play must be kept in mind and any remote possibility of its existence calls for further investigation before anything is moved. In cases where foul play is suspected, the FBI will be notified - normally before the incident scene is disturbed.

14.6 All items of any value (jewelry, money, credit cards, etc.) will be removed from a body and inventoried by two or more persons, before the body is evacuated from the accident location. Items of value will not be evacuated with the body, but will be brought out separately (bagged and tagged) by the senior NPS employee at the scene and turned in directly to the Mission Boss or Chief Ranger's Office. A piece of identification (driver's license, etc.) should be left pinned or otherwise attached to the body in an obvious place.
15.0 SPECIAL CONSIDERATIONS RELATING TO COMMUNICATIONS

15.1 It is important to recognize that everything broadcast over the radio is monitored by a substantial number of "unofficial" persons. In addition, whenever outside resources are used on missions, it is nearly impossible to control what is broadcast on their radios - also monitored by many.

15.2 Whenever possible, the telephone will be used to communicate information about victims.

15.3 Whenever information about victims must be transmitted by radio, it will be done in such a way that it cannot possibly be misunderstood.

15.4 Before victim information is transmitted by radio, it will be preceded by several repetitions of the order: "All stations 10-61, go 10-7." This will be an alert to our personnel to move "unofficial" persons, and especially relatives, etc., away from the radio.

16.0 RESTRICTED AIRSPACE

16.1 Whenever significant use of helicopters is involved, restricted airspace should be obtained from FAA.

16.1.1 2,000' and up to 5 miles normally can be readily obtained from FAA, Knoxville. They will sometimes grant 5,000' and 5 miles.

16.1.2 If 10,000' and 10 miles is needed, it may be necessary to request it from FAA in Atlanta, through our Regional Office. It should be understood that this restriction affects commercial air traffic patterns all over the Eastern seaboard, and it should be requested only when, and for the length of time, it is absolutely necessary.

16.1.3 Every attempt should be made to record identification numbers of any unauthorized aircraft violating restricted airspace, so they can be reported to FAA.

17.0 AIRCRAFT CRASHES

17.1 The National Transportation Safety Board (NTSB) has authority over all non-military aircraft crashes. Permission must be obtained from them before any part of the wreckage (including fatally injured persons) is disturbed or removed.
17.2 Military aircraft crashes will be secured and not disturbed in any way until military authorities give approval.

17.3 Every attempt will be made to insure that the owner or insurance company removes the complete wreckage. If it cannot be removed, it will be prominently marked (such as with spray paint) to insure it is not mistaken, in the future, for a "fresh" crash.

18.0 PREPAREDNESS

18.1 The District Rangers each will maintain one quick response team of four (4) persons, with alternates. These teams will be:

18.1.1 Prepared to move to any designated location within 30 minutes after being notified.

18.1.2 Prepared to function as trained hasty teams (may split into two 2-person teams) in the early phases of a search. (See Parts 7.3 and 8.1.1).

18.1.3 Equipped and physically capable of rapidly traveling long distances overland by the most expedient method of travel (foot, horse, skis, snowshoes, etc.) to reach the known or the suspected location of a victim.

18.1.4 Prepared to travel and exist in adverse terrain and weather conditions for up to several days at a time.

18.1.5 Trained to provide emergency medical care to victims, with particular emphasis on injuries and illnesses likely to occur in remote locations and under adverse weather and terrain conditions.

18.1.6 Trained (to the extent possible) in helicopter operations, including hoist operations and other techniques which might be used to reach and/or evacuate the victim(s).

18.2 District Rangers will insure that SAR caches are maintained at vital locations and that they are equipped sufficiently to meet the needs of missions that normally are carried out at the district level. The cache at Park Headquarters will be equipped with contingency equipment and necessary specialized equipment.

19.0 PHYSICAL FITNESS

19.1 NPS personnel who do not meet the minimum fitness standards for emergency activities (minimum of 45 age adjusted fitness score on Sharkey Step Test, or equivalent, within previous six months)
SAR PLAN – GRSM

will not be used in other than sedentary roles on SAR missions.

19.2 Personnel from outside organizations will be determined to be reasonably fit and equipped before they are allowed to be involved in other than support roles.

20.0 RESOURCE PROTECTION

20.1 Except in "life and death" situations (determined by the Mission Boss), the highest regard will be given to protecting the Park's natural and cultural resources. Under no circumstances will pure "convenience" dictate the destruction of any of the Park's resources.

21.0 DOCUMENTATION AND REPORTING

21.1 The purposes for documentation and reporting are threefold, and three reports are required for all SAR Missions in GRSM:

21.1.1 Form 10-343 (and 10-344), Case Incident Report: To satisfy NPS statistical reporting requirements. The narrative will only supplement (but not duplicate), with information that is necessary and not on the following two report forms.

21.1.2 SAR Mission Report: Designed to provide pertinent information consistently needed about all SAR Missions. Contributes to case histories and analysis of victim behavior studies. (See Appendix F)

21.1.3 Premium Pay Authorization and Cost Record – Emergency Activities: Designed to provide an accurate cost record of all SAR Missions. This form is required even when no overtime or "extra" expenses are incurred. (See Appendix G).

21.2 A fourth report, the DI-134, is required if any injury requiring medical attention, or a fatality results from the incident.

21.3 Copies of all reports and all other supporting information (such as logs, maps, recordings, etc.) will be assembled into one complete MISSION report and filed in the CRO.

22.0 CRITIQUE

22.1 At the discretion of the Mission Boss, or other official, a critique will be conducted for the purpose of determining weaknesses in the mission, and ways of improving future effectiveness.

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22.1.1 Critiques will normally be conducted following every "major" SAR Mission.

22.1.2 When appropriate, officials from outside organizations involved in the Mission will be invited to participate in the critique.
LOST PERSON REPORT/CHECKLIST
(Separate report for each person)

PART I: Information that is critical to immediate decisions and the initiation phases of a search. Record all Part I information at the time the first notice of a lost or overdue person.

Date ________ Time ________

Case Incident No. _______________________________ Ranger _______________________________

Report Taken by _______________________________ by: Phone ________, in person ________. 

Name of missing person ________________________________________________________________

Local address __________________________________________ Local Phone ________

Home address __________________________________________ Home Phone ________

Nicknames __________________________________________ Aliases __________________________________

A. Physical Description:

Age ________ Race ________

Height ________ Weight ________ Build ________

Hair-color ________ Length ________ Sideburns ________

Beard ________ Balding? ________

Eye color ________

Facial features/shape ________ Complexion ________

Any distinguishing marks/scars, etc.? __________________________________________

General Appearance ________________________________________________________________

Complete and detailed answers to questions needed to identify clues as found. Put "none", "NA (not applicable)" or "unsure" in blanks as appropriate.

B. Clothing:

Shirt/sweater style ________ Color ________

Pants style ________ color ________

Jacket style ________ color ________

Raingear style ________ color ________

Shoes style ________ size ________

sole type __________________________

Is a sample of sole type available? ________ Where ________

Head gear style ________ color ________

Gloves style ________ color ________

Glasses regular/sun ________ style ________

Any extra clothes/shoes? __________________________

Scent articles available? ________ Where ________
C. Equipment:

Pack style _______ brand _______ color _______

Tent style _______ brand _______ color _______

Sleeping bag style _______ brand _______ color _______

Ford - what _______ brands _______ amount?

Water - canteen style _______ amount _______

Flashlight _______ matches _______ knife _______

Map _______ compass _______

Ice axe _______ brand _______ covers? _______

Snow shoes type _______ brand _______ binding type _______

Tour skis brand _______ length _______ color _______

binding type _______ binding brand _______

Ski wax type _______ brands _______ colors _______

Ski poles type _______ length _______ color _______

brand _______

If rental equipment, rental markings? _______

Ropes/hardware _______

Fishing equipment _______ brands _______

Camera _______ brand _______

Money _______ amount _______ credit cards _______

Firearms - type _______ brand _______ ammo _______

D. Trip Plans:

Going to _______ via _______

Purpose _______

How long _______ How many in group? _______

Group affiliation _______ transportation _______

Started at _______ when _______

Car located at _______ type _______

license _______ verified _______

Alternate car at _______ type _______

license _______ verified _______

Pickup/return time _______ where _______

All in Group

Name _______ Address _______

Phone _______ Car License _______

Name _______ Address _______

Phone _______ Car License _______

Any alternate plans/routes/objectives discussed?
E. Last Seen Details:

When ______________________

Where ______________________

If other ______________________ Present? ______________________

If not, location ________________ Phone ________________

Weather ______________________

Going which way ________________ How long ago ________________

Special reason for leaving? ______________________

Unusual comments upon leaving? ______________________

F. Experience:

Familiar with area _____ How recently ________________

If not local - what other areas of experiences ______________________

Taken outdoor classes _____ where ________________

when ________________

Taken First Aid training _____ where ________________

when ________________

Been in Scouts _____ where ________________ when ________________

Military service? ______________________

How much overnight experience? ______________________

Ever been lost before? _____ actions ______________________

Ever go out alone? ______________________

Stay on trails or go cross country? ______________________

How many long trips before ________________

If not regular hiker - general athletic interests and ability ______________________

G. Contacts Person Would Make Upon Reaching Civilization:

Home address ______________________

Phone ________________ Anyone home? ________________

Local contact? ________________ Phone ________________

Friends ________________ Phone ________________

H. Health - General Condition:

Any physical handicaps ______________________

Any known medical problem ______________________

Knowledgeable Doctor ______________________

Phone ______________________

Any known psychological problems ______________________

Knowledgeable person ______________________ Phone ______________________
H. (cont'd)  Taking prescription medication _______________________
             Doctor _______________________
             Consequences of loss _______________________
             Amount carried _______________________
             Eye sight without glasses ________ spares? _________

I. Actions Taken So Far:
   by (friends, family, etc.): ______________________
                             ______________________
                             ______________________

   actions taken:
                             ______________________
                             ______________________
                             ______________________

   when:
                             ______________________
                             ______________________
                             ______________________
PART II: Information that may be significant later in the mission. Can be obtained after initial actions are taken and further investigation and information on the Subject is necessary.

A. Personality Habits:

<table>
<thead>
<tr>
<th>Question</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoke</td>
<td>How often? What brand</td>
</tr>
<tr>
<td>Drink</td>
<td>brand</td>
</tr>
<tr>
<td>Drugs</td>
<td></td>
</tr>
<tr>
<td>Hobbies/interests - fishing, flowers, climbing, photography</td>
<td></td>
</tr>
<tr>
<td>Does person work for spare money?</td>
<td></td>
</tr>
<tr>
<td>Outgoing or quiet; likes group, or alone?</td>
<td></td>
</tr>
<tr>
<td>Evidence of leadership</td>
<td></td>
</tr>
<tr>
<td>Ever been in trouble with law? Now?</td>
<td></td>
</tr>
<tr>
<td>Hitchhike often accept rides.</td>
<td></td>
</tr>
<tr>
<td>Feelings toward grownups hippies</td>
<td></td>
</tr>
<tr>
<td>Any current family/girl friend problems?</td>
<td></td>
</tr>
<tr>
<td>Religion serious?</td>
<td></td>
</tr>
<tr>
<td>What does person believe in?</td>
<td></td>
</tr>
<tr>
<td>What does person value most?</td>
<td></td>
</tr>
<tr>
<td>Who is person closest to: in family in general</td>
<td></td>
</tr>
<tr>
<td>Where born and raised?</td>
<td></td>
</tr>
<tr>
<td>Any history of depression, running away?</td>
<td></td>
</tr>
<tr>
<td>Status in school draft</td>
<td></td>
</tr>
<tr>
<td>Who last talked at length to person?</td>
<td></td>
</tr>
<tr>
<td>where? subject?</td>
<td></td>
</tr>
</tbody>
</table>
A. (cont'd) Any recent letter?  
Give up easily or keep going?  
Will person hole up and wait or keep moving?  

B. For Children:  
Afraid of dogs?  
Horses?  
Afraid of dark?  
What training regarding what to do when lost?  
What are actions when hurt?  
Cry?  
Carry on?  
Talk to strangers; accept rides?  
Active type or lethargic?  

C. For Groups Overdue:  
Any personality clashes in group?  
Any strong leader types not actually the leader?  
What is competitive spirit of group?  
What would be actions if separated?  
Any persons especially close friends?  
What is experience of leader and rest of group?  

D. Family - To prevent press problems:  
Father's occupation  
Parents separated or similar problem  
Family's desire to employ special assistance  
Name, address, phone of father/mother/husband/wife/son/daughter to notify if found in good condition: (give most appropriate kin for information or contact when found)  
Name  
Address  
Phone  
Relationship  
Person to notify if found in very poor condition or dead: (should be friend, relative, or minister of next-of-kin)  
Name  
Address  
Phone  
Relationship
# Mission Report

## Mission Identification

<table>
<thead>
<tr>
<th>Unit Name</th>
<th>Unit Zip Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Called To Help

- **Month** __Day__ Year __Time__
  - By local authority Sheriff
  - By state SAR organization
  - By subject's companions
  - By subject's family

## Mission

<table>
<thead>
<tr>
<th>Case/Number(s)</th>
<th>Incident No.</th>
<th>State</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Incident

<table>
<thead>
<tr>
<th>Subject Was Lost/Injured</th>
<th>Last Seen Point(s)</th>
<th>Lat.</th>
<th>Long.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Location Injured or Last Seen/Last (if lost)

<table>
<thead>
<tr>
<th>Lat.</th>
<th>Long.</th>
<th>W.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Other Name:

<table>
<thead>
<tr>
<th>Other Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Other Name:

<table>
<thead>
<tr>
<th>Other Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Other Name:

<table>
<thead>
<tr>
<th>Other Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Situation

- Unknown
- Lost
- Stranded
- Injury
- Illness
- Runaway
- Overdue
- False alarm
- Required to help

## Activity

- Climber
- Hiker
- Hunter
- Skier
- Snowmobile
- Vehicle
- Aircraft
- Boat
- Required to help

## Intended Route

- Unknown
- Last seen point
- Abandoned car
- Building
- Known route
- Known destination
- Confirmed clue

## Subject Information

<table>
<thead>
<tr>
<th>Subject(s) Name</th>
<th>Age</th>
<th>Sex</th>
<th>Address</th>
<th>Town</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Subject Information

<table>
<thead>
<tr>
<th>Prior Physical Condition</th>
<th>Prior Mental Condition</th>
<th>Experience at Activity</th>
<th>Equipment for Activity</th>
<th>Clothing for Environment</th>
<th>Prior Survival Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>A</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>Unknown</td>
<td>Normal</td>
<td>Excellent</td>
<td>Adequate</td>
<td>Good</td>
<td>Retired</td>
</tr>
<tr>
<td>Good</td>
<td>Poor</td>
<td>None</td>
<td>Inadequate</td>
<td>Questionable</td>
<td>None</td>
</tr>
<tr>
<td>Fair</td>
<td>Angry</td>
<td>None</td>
<td>Inadequate</td>
<td>Questionable</td>
<td>None</td>
</tr>
<tr>
<td>Poor</td>
<td>Retarded</td>
<td>None</td>
<td>Inadequate</td>
<td>Questionable</td>
<td>None</td>
</tr>
</tbody>
</table>

## Response

### Type of Response

- Standby only
- Callout only
- Land search
- Water search
- Air search
- Rescue
- Body recovery

### Rescue/Recovery Techniques Used

- Assist/own power
- Carry-out by foot
- Evac., by animal
- Watercraft evac.
- Aircraft evac.

### (if lost) Search Techniques Used

- Confinement
- Attraction
- Visual tracking
- Search dogs
- Air search

### Description of Response

<table>
<thead>
<tr>
<th>Description</th>
<th>Optimal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Conditions

### General Conditions Encountered by Subject

<table>
<thead>
<tr>
<th>Year</th>
<th>Elevation</th>
<th>Temperature</th>
<th>Overcast</th>
<th>Visibility</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>°F</td>
<td>mph</td>
<td>mi.</td>
</tr>
</tbody>
</table>

### General Terrain Traveled by Subject

<table>
<thead>
<tr>
<th>Terrain Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat</td>
</tr>
<tr>
<td>Rock</td>
</tr>
<tr>
<td>Unknown</td>
</tr>
</tbody>
</table>

### Vegetation

<table>
<thead>
<tr>
<th>Bush/Timber</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
</tr>
</tbody>
</table>
# RESULTS

**SUBJECT WAS**

- By SAR effort
- By himself
- Not found/rescued

**TOTAL RESCUE**

- Month
- Day
- Year
- Time
- By bystanders
- Never needed help

**LOCATION**

- Found/Rescued Lat.
- N.
- Long.
- W.
- Description

**AS A RESULT OF SAR EFFORT, TOTAL NUMBER OF PERSONS FOUND**

- Rescued
- Lives Really Saved

**REASON MISSION TERMINATED**

- (if lost)
- (if found by self)
- Not found/reacted

**CLUES FOUND IN**

- Primary search area
- Secondary search area
- Area previously searched
- Out of search area
- Home, car, motel, etc.

**SUBJECT DESCRIPTION (optional)**

- Body
- Size
- Clothing
- Other.

**MEDICAL INFORMATION**

**EXTENT OF MEDICAL TRAUMATIC INJURIES**

- Environmental injuries

**DESCRIPTION OF MEDICAL CARE**

- ABC
- A
- B
- C
- D

**SUBJECT BEHAVIOR**

**CAUSE OF INCIDENT (if injury)**

- Unknown
- Human error
- Caused by victim
- Other person caused
- Caused by nature
- Weather
- Darkness
- Falling object
- Equipment failure

**REASON (if lost)**

- Unknown
- Haste
- Excessive
- Fatigue
- Fall or slip
- Inadequate equipment
- Misuse of equipment
- Anchor failure
- Delay failure

**DETECTABILITY ACTION (if lost)**

- Yes
- No

**WHAT WAS THE AIR DISTANCE FROM THE LAST KNOWN POSITION TO WHERE THE SUBJECT WAS FOUND?**

- Miles

**HOW FAR?**

- Ft.

**HOW LONG WAS THE SUBJECT ACTUALLY MOBILE AND WALKING?**

- Hours

**RESOURCES USED**

**MISSION WAS CLOSED ON**

- Month
- Day
- Year
- Time

**EQUIPMENT INVOLVED**

- Helicopters
- Fixed Wing
- Ambulances
- 2WD Vehicle
- 4WD Vehicle
- Power Boat
- Helicopter
- Deluxe
- Dogs

**OTHER UNITS INVOLVED**

**TOTAL PERSONNEL MANHOURS INVOLVED**

- Total number of YOUR personnel involved
- Total manhous expended by YOUR unit
- Total number of ALL personnel involved
- Total manhous expended by ALL personnel

**COMMENTS**

**PROBLEMS**
## SEARCH AND RESCUE MISSION COST DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost per day (8 hr day)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Animals:</td>
<td></td>
<td>All figures include indirect costs such as insurance, equipment</td>
</tr>
<tr>
<td>Bloodhounds</td>
<td>$15.00</td>
<td>depreciation, training, replacement, maintenance, etc.</td>
</tr>
<tr>
<td>German Shepherd</td>
<td>15.00</td>
<td></td>
</tr>
<tr>
<td>Horse (pack &amp; saddle)</td>
<td>15.00</td>
<td></td>
</tr>
<tr>
<td>B. Automobile:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sedan</td>
<td>.15</td>
<td></td>
</tr>
<tr>
<td>C. Bus:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 to 33 passenger</td>
<td>.76</td>
<td></td>
</tr>
<tr>
<td>47 passenger</td>
<td>.97</td>
<td></td>
</tr>
<tr>
<td>D. Helicopter:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Huey, UH-1H</td>
<td>500.00</td>
<td></td>
</tr>
<tr>
<td>Chinook, CH-47</td>
<td>1500.00</td>
<td></td>
</tr>
<tr>
<td>Sikorsky, S-62</td>
<td>1500.00</td>
<td></td>
</tr>
<tr>
<td>Hughes-500</td>
<td>250.00</td>
<td></td>
</tr>
<tr>
<td>Bell, H-13</td>
<td>150.00</td>
<td></td>
</tr>
<tr>
<td>E. Motor Cycle:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cycle</td>
<td>8.00</td>
<td></td>
</tr>
<tr>
<td>F. Personnel Costs:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dog Handler</td>
<td>10.00</td>
<td></td>
</tr>
<tr>
<td>Horse Wrangler</td>
<td>7.00</td>
<td></td>
</tr>
<tr>
<td>Mountain Rescue Leader</td>
<td>25.00</td>
<td></td>
</tr>
<tr>
<td>Mountain Rescue Team Member</td>
<td>20.00</td>
<td></td>
</tr>
<tr>
<td>Scuba Divers</td>
<td>25.00</td>
<td></td>
</tr>
<tr>
<td>All Other SAR Personnel</td>
<td>7.00</td>
<td></td>
</tr>
<tr>
<td>Full Time Agency Personnel</td>
<td>Use Their Current Wage</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G. Snowmobiles:</td>
<td>Cost per hour</td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td>--------------</td>
<td></td>
</tr>
<tr>
<td>Snowmobile</td>
<td>10.00</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>H. Radios:</th>
<th>Cost per day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portable Hand Carry</td>
<td>15.00</td>
</tr>
<tr>
<td>Vehicle Mounted</td>
<td>5.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>I. Spelunkers:</th>
<th>Cost per hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spelunker</td>
<td>15.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J. Trucks:</th>
<th>Cost per mile</th>
<th>Cost per day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Truck 1/4 Ton 4x4</td>
<td>.15 plus</td>
<td>3.55</td>
</tr>
<tr>
<td>Truck 1/2 Ton 4x4</td>
<td>.15 plus</td>
<td>3.55</td>
</tr>
<tr>
<td>Truck 3/4 Ton 4x4</td>
<td>.18 plus</td>
<td>4.30</td>
</tr>
<tr>
<td>Truck 1 Ton 4x4</td>
<td>.22 plus</td>
<td>4.30</td>
</tr>
<tr>
<td>Truck 1/2 Ton 4x2</td>
<td>.11 plus</td>
<td>3.80</td>
</tr>
<tr>
<td>Truck 3/4 Ton 4x2</td>
<td>.11 plus</td>
<td>3.80</td>
</tr>
<tr>
<td>Truck 2 1/2 Ton 6x6</td>
<td>.30 plus</td>
<td>8.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>K. Trailer:</th>
<th>Cost per day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trailer 1 Ton 2 Wheel</td>
<td>6.00</td>
</tr>
<tr>
<td>Trailer 4 Wheel Horse</td>
<td>14.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>L. Winch:</th>
<th>Cost per day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winch Vehicle Electric</td>
<td>1.00</td>
</tr>
<tr>
<td>Winch Vehicle Power Take Off</td>
<td>2.00</td>
</tr>
</tbody>
</table>