BASE/CAMP MANAGER J-254





Job Aid FEBRUARY, 2004 NFES 1532



CERTIFICATION STATEMENT

on behalf of the

NATIONAL WILDFIRE COORDINATING GROUP

The following training material attains the standards prescribed for courses developed under the interagency curriculum established and coordinated by the National Wildfire Coordinating Group. The instruction is certified for interagency use and is known as:

Base/Camp Manager, J-254 Certified at Level I

This product is part of an established NWCG curriculum. It meets the COURSE DEVELOPMENT AND FORMAT STANDARDS – Sixth Edition, 2003 and has received a technical review and a professional edit.

Member NWCG and Training Working Team Listson

Date February 18, 2004

Date 2/13/04

Description of the Performance Based System

The NWCG Wildland and Prescribed Fire Qualifications System is a "performance-based" qualifications system. In this system, the primary criterion for qualification is individual performance as observed by an evaluator using approved standards. This system differs from previous wildland fire qualifications systems which have been "training based." Training based systems use the completion of training courses or a passing score on an examination as a primary criteria for qualification.

A performance-based system has two advantages over a training based system:

- Qualification is based upon real performance, as measured on the job, versus perceived performance, as measured by an examination or classroom activities.
- Personnel who have learned skills from sources outside wildland fire suppression, such as agency specific training programs or training and work in prescribed fire, structural fire, law enforcement, search and rescue, etc., may not be required to complete specific courses in order to qualify in a wildfire position.
 - The components of the wildland fire qualifications system are as follows:
 - a. Position Task Books (PTB) contain all critical tasks which are required to perform the job. PTBs have been designed in a format which will allow documentation of a trainee's ability to perform each task. Successful completion of all tasks required of the position, as determined by an evaluator, will be the basis for recommending certification.
 - IMPORTANT NOTE: Training requirements include completion of all <u>required training</u> courses prior to obtaining a PTB. Use of the <u>suggested training</u> courses or job aids is recommended to prepare the employee to perform in the position.
 - <u>Training courses and job aids</u> provide the specific skills and knowledge required to perform tasks as prescribed in the PTB.
 - Agency Certification is issued in the form of an incident qualification card certifying that the individual is qualified to perform in a specified position.

2. Responsibilities

The local office is responsible for selecting trainees, proper use of task books, and certification of trainees, see appendix A of the NWCG Wildland and Prescribed Fire Qualification System Guide, PMS 310-1, for further information.

National Wildfire Coordinating Group Training Working Team Position on Course Presentation and Materials

The suggested hours listed in the Field Manager's Course Guide are developed by Subject Matter Experts based on their estimation of the time required to present all material needed to adequately teach the unit and course objectives. The hours listed can vary slightly due to factors such as the addition of local materials. NWCG is aware that there have been courses presented in an abbreviated form, varying greatly from the suggested course hours. Instructors and students are cautioned that in order to be recognized as an NWCG certified course certain guidelines must be followed. These guidelines are:

- Lead instructors are encouraged to enhance course materials to reflect the conditions, resources and policies of the local unit and area as long as the objectives of the course and each unit are not compromised.
- Exercises can be modified to reflect local fuel types, resources and conditions
 where the student will be likely to fill incident assignments. The objectives and
 intent of the exercises must remain intact.
- Test questions may be added that reflect any local information that may have been added to the course. However, test questions in the certified course materials should not be deleted to ensure the accurate testing of course and unit objectives.
- Test grades, to determine successful completion of the course, shall be based only
 on the questions in the certified course materials.

If lead instructors feel that any course materials are inaccurate, that information should be submitted by e-mail to NWCG Fire Training at nwcg_standards@nifc.blm.gov Materials submitted will be evaluated and, where and when appropriate, incorporated into the appropriate courses.

BASE/CAMP MANAGER J-254

Job Aid FEBRUARY, 2004 NFES 1532

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Comments regarding the content of this publication should be directed to: National Interagency Fire Center, National Fire Training Support Group, 3833 S. Development Ave., Boise, Idaho 83705. E-mail: nwcg_standards@nifc.blm.gov.

Additional copies of this publication may be ordered from National Interagency Fire Center, ATTN: Great Basin Cache Supply Office, 3833 South Development Avenue, Boise, Idaho 83705. Order NFES 1532.

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BASE/CAMP MANAGER (BCMG) JOB AID, J-254 INTRODUCTION

The Base/Camp Manager is responsible for appropriate sanitation and facility management services in the assigned Base/Camp.

The Base/Camp Manager has been identified as a position within the National Wildfire Coordination Group's (NWCG), Wildland Fire Suppression Curriculum. The courses within the performance based curriculum may be administered by either an instructor led formal training course or by the use of "job aids." It is highly suggested that the trainee have previous fire incident experience.

Job aids are "how to" books that assist an individual in performing specific tasks associated with a position. They may be used by an individual, in a trainee position, who has met all of the prerequisites, but has not completed the position task book for that position. They are also used after the individual has become qualified, as an aid or refresher in doing the job.

The performance based qualification system stipulates that an individual must complete a position task book prior to becoming qualified for that position. Refer to the "Wildland and Prescribed Fire Qualification System Guide, PMS 310-1 for the established standards for this position. It is recommended that this job aid be issued when the position task book is initiated.

This job aid has been developed by an interagency development group with guidance from the National Interagency Fire Center, Fire Training under authority of the NWCG, with coordination and assistance of personnel from the following agencies:

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We appreciate the efforts of those people associated with the development and review of this package.

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Comments regarding the content of this publication should be directed to:

National Interagency Fire Center Fire Training 3833 South Development Avenue Boise, Idaho 83705

Email: nwcg_standards@nifc.blm.gov

Additional copies of this publication, NFES #1532 may be ordered from:

National Interagency Fire Center ATTN: Great Basin Cache Supply Office 3833 S. Development Avenue Boise, Idaho 83705.

I. GENERAL

Obtain and Assemble Materials Needed for Kit.

Kit will be assembled and prepared prior to receiving an assignment. Kit will contain critical items needed for functioning during the first 48 hours. Kit will be easily transportable and within agency weight limitation. Web gear or briefcase (not both) should not exceed 20 pounds.

Proof of incident qualifications (Red Card)
Position task book, NFES 2352
Fireline Handbook, PMS 410-1, NFES 0065
National Fire Equipment System Catalog, NFES 0362
Interagency Incident Business Management Handbook, NFES 2160
Interagency Standards for Fire and Aviation Operations (Red Book)
Base/Camp Manager job aid, NFES

Docu	mentation Forms:
	ICS 213, General Message, NFES 1336 ICS 214, Unit Log, NFES 1337 SF-261, Crew Time Report, NFES 0891and/or OF-288 Emergency Firefighter Time Report, NFES 0866 OF-297, Emergency Equipment Shift
	Ticket, NFES 0872 Agency specific forms
Misce	ellaneous Items (optional):
	Assorted pens, pencils, felt tip markers, highlighters, thumb tacks, string tags, pads of paper, clipboard, masking/ strapping tape, duct tape, envelopes, hole punch, etc.
	Calculator
	Flashlight (extra batteries)
	Alarm clock
	Camera
_	Surveyor flagging Tape measure
	Insect repellent
	Local area maps
	Road atlas
	Grid sheet 1/4" (81/2" x 11"), 1" (20" x 24")
	Adhesive, stick on, numbers Cell phone or calling card

II. MOBILIZATION

- A. Obtain Complete Information from Dispatch Upon Initial Activation.
 - 1. Obtain a copy of the order form which contains:
 - Incident/Project name
 - Incident/Project order number
 - Office reference number (cost code)
 - Descriptive location/ response area
 - Legal location (township, range, section)
 - Incident frequencies (if available)
 - Incident base/phone number (contact)
 - Request number
 - Reporting date/time and location, e.g., Incident Command Post (ICP)
 - Transportation arrangements and routes
 - Special instructions

Retain a copy of this order form for your personal incident experience record.

2. The individual will have:

- Frameless soft pack containing personal gear, not to exceed 45 lb.
- BCMG kit, not to exceed 20 lb.
- Proper Personal Protective Equipment (PPE) for the job

B. Gather Information.

Gather all available information necessary to accurately assess incident; make appropriate decisions about immediate needs and actions including:

- Type of incident
 - Planned operations, e.g., multiple remote camps, burnout operations, water handling operations
- Current situation status
- Expected duration of incident
- Terrain
- Weather (current and expected)

III. INCIDENT ACTIVITIES

- Arrive at Incident and Check In.
 - Locate supervisor, (facilities unit leader; FACL).
 - Report to status check-in recorder.
 - Report to the finance/ administration section for time keeping procedures.
- B. Obtain Briefing from FACL.

You are responsible for asking adequate questions that will allow satisfactory completion of all job aspects. *There are no stupid questions*. Briefing should include as a minimum:

- Names of key incident personnel.
 - Incident Commander (IC), logistics section chief (LSC), agency representative, resource advisor, equipment and personnel time recorder, supply, ground support, food and medical unit, human resource specialist (HRSP), crew representative (CREP), etc.

- Names of key off incident personnel
 - Public works, land owners, contractors, law enforcement agencies, utility companies, etc.
- Established priorities for incident facilities.
 - Set up of maintenance, sanitation, safety items.
 - Determine needs for any off base incident facilities.
- Identified needs of incident personnel for facility establishment.
 - Showers and sanitation
 - Sleeping and eating arrangements
 - Handicap access
 - Dust abatement
 - Supply and ground support
 - Security
- Current and expected resource commitments.
 - Numbers of personnel
 - Types and numbers of equipment and aircraft
- Phone, radio, contact procedures.
 - On and off incident
- Jurisdictional agency(s).
 - Federal, state, local or multiple jurisdiction

- Work schedule.
 - Day/night operational periods
 - Relief personnel
- Policies and operating procedures.
 - Contractual agency requirements
 - Land owner requirements
 - Health and safety guidelines,
 Occupational Safety and
 Health Administration
 (OSHA)
 - Inmates
- Cultural, environmental and Threatened and Endangered species (T&E) concerns.
 - Archeological/historical sites
 - Restrictions
 - Fisheries and riparian areas
 - Plants and animals
- Proper ordering procedures.
 - Authorization for ordering equipment, supplies, and personnel.
 - Orders to be approved by the FACL prior to placing with supply?

- Safety concerns.
 - Hazardous materials
 - Traffic patterns
 - Sanitation
 - Weather
 - Lighting
 - Electrical
 - Health concerns
 - Elemental concerns, e.g., bears, snakes, poisonous plants.
- Supervision.
 - Chain of command
 - Resources assigned
- Location of incident facilities (private/agency).
 - Agency developed or undeveloped
 - Is a land use agreement in effect on private land?
- Request a current copy of the Incident Action Plan (IAP) and incident map.

C. Obtain Necessary Resources and Supplies.

Coordinate with FACL to determine the necessary incident facility staffing level, needed supplies and materials and obtain through proper channels.

- Portable toilet requirements
 - One portable toilet per 10 to 12 people with one service per day minimum.
 - Additional toilets may be required for the helibase, staging areas, and environmentally sensitive areas. It may be important to find out the hosting agency's requirements for sewage disposal.
- Potable water
 - Source location
 - Number of transports needed
 - Location of drinking sites
 - Contact the FACL, food unit leader (FDUL), or Contracting Officer (CO) for questions concerning potable water providers.

Grey water

- Shower, kitchen, wash stations (not sewage)
- Approved disposal sites
- Enough hauling capacity to keep up with demand. Is there a need to order another grey water truck?

Garbage

Large dumpsters centrally located at kitchen, helibase, supply, base, remote camps. Adequate hauling capacity and distribution of garbage cans around all facilities.

- Approved disposal site?
- Restrictions on what the site will accept?
- Dumping costs contractor or incident responsibility?
- Agency recycling program in place?
- Secure from bears or bees?

- Remote camps
 Camps vary greatly depending on access, agency requirements and number of people that are being supported. Obtain the following information which can help to determine the needs of the camp.
 - Ensure cultural, environmental, and T&E species concerns are considered when laying out camp site. Follow local standard operating procedures for these areas.
 - Ensure adequate water and rations are located at these sites. Coordinate with the FDUL for meals, delivery times, etc.
 - Ensure adequate communications with the ICP/incident base.
 - If bears or other such scavenging animals are in the area, place hard-sided trash receptacles in a central location within the camp area and remove contents on a daily basis.

- Warn the assigned personnel not to take food items to their sleeping areas if these animals are in the area.
- Order tents, tent flies or other such material and construct a structure that will allow individuals to get out of the weather. Ensure adequate shelter has been stockpiled at the camp location.
- Consider assigning an emergency medical technician (EMT) to camp.
- Order camp help to support camp operations.

See Appendix A for sample 50 person camp item inventory list and Appendix B for additional information on managing remote camps.

- Continually check for excess equipment and supplies in the camp area.
 - Consider demobilization of excess items.

- D. Coordinate with FACL and Other Incident Personnel to Establish Incident Facilities.
 - Provide incident facility map and signs.

See Appendix C, Facilities Map, example.

- Ground support and supply should be located as close to the entrance of camp as possible.
- Locate check-in at the camp entrance.
- Toilets and trash receptacles located in areas of heavy foot traffic and around crew sleeping areas.
- Showers and medical unit close to crew sleeping areas.
- ICP located away from main foot and vehicle traffic.
- Hand washing station in proximity to eating area and portable toilets. Assess the need for additional handwashing stations as the camp enlarges.
- Ensure area is big enough to expand the camp if necessary.

- Post area with signs for easy identification of specific functional areas, e.g., crew and overhead sleeping areas. Post identification tags on the tents of crew boss, unit leaders, etc. for quick identification.
- Plan the camp so that little or no vehicle traffic is in the main part of the camp. Limit vehicle traffic to service vehicle, e.g., gray, black, potable water.

See Appendix D, Crew Location Map, example.

- Provide safe traffic/personnel flow.
 - Use signs, ropes, traffic cones, barricades, flagging to control vehicle and foot traffic. Attempt to provide "one-way" traffic flow to prevent congestion.
 - Coordinate with ground support and security.
- Contact units for functional needs and location.

See Appendix E, Functional Needs Checklist.

- Coordinate with the different functions for space, power, shelter, trash and communication needs, e.g., phone lines.
- Establish day/night sleeping areas.
 - Ensure the day sleeping areas are sheltered and away from noise, e.g., generators, tool sharpening area.
 - Clearly identify crew locations and post visible signs.
 - Coordinate with security for patrols of the sleeping areas.
 - Limit vehicle traffic in the sleeping areas.
- Centrally locate electrical unit.
 - If possible order a large generator (50 KW) with a power distribution panel and correctly wired. If electrical outlets are to be installed at the base/camp, a certified electrician must do the installation.
- Catering and shower units.
 - Centrally located

- Inmate crews on the incident.
 - Consider sleeping and showering arrangements.
 - Discuss with the inmate liaison.
- Plan for contingency, such as wet weather, equipment breakdown, fire behavior, inversions.
 - Be aware of weather forecasts. Talk to locals about weather events for the area.
 - Have extra supplies on hand, e.g., shelter material, sleeping bags, fire resistant clothing, heaters, in case of foul weather.
 - Plan for evacuation or protection of base/camp in case of threatening change in fire behavior or weather.

See Appendix F for tips on Base Camp/ICP management.

- E. Communication with FACL, Incident Personnel, and Subordinates.
 - Discuss daily work schedule and priorities with FACL.
 - Keep FACL informed on changes, personnel matters, contract disputes, work load or other significant situations.
 - Maintain inter/intra unit communication.
 - Know the chain of command and ordering procedures.
 - Maintain contacts with all sections or functions for determining needs or problems as related to the facilities.
 - Check-out a logistics net radio if needed.

F. Supervision of Incident Facility Personnel.

See Appendix G, Base Organization, example and Appendix H, Camp Organization, example.

- Develop work schedules.
 - Establish guidelines and procedures, i.e., who directly supervises members of the camp crew.
 - Establish time frames for trash/litter pickup, generator fueling, portable toilet servicing, grey water pumping, dust abatement.
 - Time frames for meal delivery, feeding times, ice deliveries, and cold drink stocking should be established and coordinated with the FDUL.
 - Monitor camp functions and anticipate scheduling problems. Adjust schedule as needed.
 - Adhere to agency established work/rest guidelines.

- Establish priorities for work assignments.
 - Establish guidelines and procedures.
 - Prioritize unscheduled work assignments, e.g., unloading of a supply truck, maintenance and inspection of facility, assisting food unit.
- Comply with Equal Employment Opportunity (EEO) guidelines.
 - Ensure compliance with all applicable EEO regulations.
 - Coordinate with the HRSP if problems arise deal with them, do not let them get worse.
 - Be aware of cultural differences between ethnic groups. Contact the CREP for any special needs that their crew may have.
- Keep individuals informed of incident status.
 - Communicate one on one, by group meetings, and/or through written information.

- Evaluate performance of subordinates as required by incident policy.
 - Be fair and honest in your evaluation. Ensure guidelines and procedures are adequately presented and understood by your subordinates.
- G. Ensure Compliance with all Applicable Health and Safety Regulations.
 - Coordinate with safety officer (SOF) and FACL.
 - Obtain local government guidelines and regulations.

See Appendix I, Safety-Health Evaluation, checklist.

- H. Provide Operation and Maintenance for all Facilities and Associated Equipment.
 - Establish priorities and schedules for daily maintenance and service of incident facility installations, e.g., toilets, trash, generators, dust abatement, bulletin boards, office spaces.
 - Provide daily inspections of all facilities and improvements for safety and health conditions.

- I. Coordinate with Finance/Administration Section and FACL on Incident Facilities, Contract/Agreement for Services, Equipment, and Personnel.
 - Maintain shift tickets for all assigned services equipment per contract/agreement.
 - Ensure that all information is transcribed correctly from the rental agreement to the shift ticket and all times, mileage and remarks are documented. Include the "E" number somewhere on the form.
 - Information that you will need for filling out the OF-297, Emergency Equipment Shift Ticket can be found on the OF-294, Emergency Equipment Rental Agreement. The contractor should have a copy; if not check with the procurement unit.
 - Retain copies of all shift tickets of the contractors you are administrating, for your personal files.

 Ensure all non-agency services and equipment have current contracts/agreements and have been inspected. Coordinate with ground support for equipment inspections.

See Appendix J, Emergency Equipment Shift Ticket, example and Appendix K, Emergency Equipment Rental Agreement, example.

- J. Maintain ICS 214, Unit Log.
 - ICS 214 will be kept current, legible, and document all major activities.
 - It may not be a requirement of this position to complete a ICS 214 for every operational period, but it is a good idea to document significant events, especially contractual and personnel problems.
 - A diary should be kept for documentation purposes and the ICS 214 is an excellent document for this purpose.

IV. DEMOBILIZATION

- A. Identify Excess Resources and Supplies.
 - Provide the FACL with a listing of excess incident facilities personnel and equipment. The listing will include who and what is excess, and time and date when excess. The list will be reviewed daily for accuracy. This can be documented on an ICS 213, General Message and submitted to the demobilization unit.
 - During demobilization the workload of the BCMG will increase.
 - Manage personnel release to ensure enough workforce is available for demobilization activities.
 - Ensure proper rehabilitation has occurred prior to the release of resources. Leave area in better condition than upon arrival.
 - Notify contractors of the impending release schedule.

- B. Coordinate the Release and Return of Facilities and Equipment with FACL and Finance/Administration Section.
 - Ensure payment documents are finalized and submitted to the finance/administrative section.
 - Ensure that time for subordinates and equipment is turned in to finance/ administration; evaluations of subordinates are turned in to documentation; capitalized equipment returned to supply.
 - Coordinate with ground support for the release inspection of contractor equipment.

APPENDIX A EXAMPLE 50 PERSON CAMP

	The following should supply 2 crews plus overhead	s overhead		
	This list does not include meals provided by the base camp.	by the ba	se camp.	
1	Bag, garbage, NFES 0021	1 BX 21.	Kit, Coffee, NFES 0480	1 KT
5	2	50 EA 22.	Kit, lighting, multi-light cord, NFES 6051	1 KT
9	Basin, wash, NFES 0027	10 EA 23.	McLeod, w/sheath, NFES 0296	4 EA
4	Battery, size AA, NFES 0030	12 PG 24.	Meals Ready to Eat (MRE), NFES 1842	25 BX
ις O	Battery, size D, NFES 0033	12 PG 25.	Pad, sleeping, NFES 1566	50 EA
9	Bleach, gallon		Pen, black, NFES 0365	12 EA
7.	Burlap bag	1 BDL 27.	Portable toilet	3 EA
8	QT. Disposable, NFES 0038	25 EA 28.	Pulaski, w/sheath, NFES 0146	4 EA
9.	Chest, ice, 48 qt., NFES 0557, w/ice	4 EA 29.	SF-261, Crew Time Report	1 BK
	48,			_
10.	435-435	25 EA 30.	Sheeting, plastic, 16' x 100', NFES 0143	2 RO
11	Cord, nylon shroud, NFES 0533	1 SL 31.	Shovel, w/sheath, NFES 0171	4 EA
12.	Dish Pan, 18 "	2 EA 32.	Soap, dish, 16 oz.	1 EA
13	Envelope, brown, 9 1/4" x 12 ", NFES 0766 10 EA 33.	10 EA 33.	Soap, hand, liquid, bottle	10 EA
14	File, flat, NFES 0060	24 EA 34.	Table, folding, NFES 2698	2 EA
15.	First Aid Kit, 24-person, NFES 1604	1 KT 35.	Tag, shipping (blank), NFES 0216	100 EA
16.	Fly, sunscreen, 20' x 20', NFES 6131	100	Tank, propane, 20 lb., NFES 0491	2 EA
17.	Gas can, 5 gallon w/gas	1 EA 37.	Tape, duct, NFES 0071	10 RO
18.	Generator, 3- KW, NFES 0709	1 EA 38.	Tape, filament, NFES 0222	10 RO
19.	Headlamp, NFES 0713	10 EA 40.	Toilet paper	20 RO
50	Kit, chainsaw, NFES 0340	1 KT 41.	Towel, paper, two ply, NFES 0240	1 BX
	SUPPLEMENTAL FOOD AND RELATED ITEMS (Coordinate with FDUL on food related items)	TEMS (Co	ordinate with FDUL on food related iten	ms)
	Aluminum foil		Peanut butter and jelly	
	Bread/bagels		Salt and pepper	
	Butter		Sandwich bags/storage bags	
	Can openers		Serving utensils and serving gloves	
	Cereal		Snacks	
	Fruit		Steak sauce	
	Hot Chocolate		Sugar and creamer	
	Instant oatmeal		Sweet rolls	
	Jalapeños/hot sauce		Теа	
	Milk		Coffee	

APPENDIX B Remote Camp Management Tips

Spike Camp 101

In the course of your availability as a BCMG you may find yourself in the position of filling an order as a remote (spike) camp manager, or to staff a spike camp from the base camp you are currently working out of. If the spike camp is near or on the fireline, you will be required to have fireline qualifications, i.e., arduous fitness rating, fireline refresher training, PPE. In any case you will probably be managing a relatively small camp with the possibility of little or no direct supervision from the logistics section. The following is a list of things to consider and ask about *before* going out to camp.

How many people will occupy the camp? Who are they? Who is in charge of this area? How long does the operations section plan on using this camp? What is the location of the camp? What division of the fire? Is any one already there and are any supplies in place? How do they expect to supply your camp? What type of communication facilities will you have, e.g., radio, cell phone, land line, satellite phone? What is the weather forecast?

Supply Methods:

- By road: Is there a road all the way to the camp and what is the condition of the road?
- By helicopter: Is there a helispot for landing or will the supplies be dropped in by long line only? Will you need helitack to manage the helispot and supply deliveries? By pack train, e.g., mules? What are the procedures for ordering?

Camp Logistics:

- What kind of place is it? Campground, lodge, scout camp, private land, wilderness area, improved or not improved?
- What types of facilities are already there? Are there agreements in place for the facilities?
 Do you need to sign any shift tickets?
- Restroom considerations: Portable toilets, out houses or what?
- What will be used for sleeping areas?

Food and Water:

 How do they plan to feed everyone? Hot Cans from base camp? MREs? Restaurants?
 Sack lunches?

If in Hot Cans, make sure the food has not been sitting in those containers for more that 4 hours. *If so, do not use.* Make sure sack lunches are freshly made.

- Is there potable/non-potable water at the camp?
- If the camp is remote, supplied by trail or air, it is a good plan to have a reserve of food and water on hand, i.e., 2-4 days, 3 meals and 2 gallons of water per person, per day minimum.

Backhaul Realities:

- Transport method and recycle priorities will dictate how to bag up the trash. If by pack train, make the bags of trash smaller.
 - It is almost always better to have the crews separate cardboard and plastic from the trash. Cardboard can make a bag of trash very awkward to deal with, and most places can recycle cardboard. Some places will allow burning cardboard. Check with FACL and/or resource advisors.
 - Plastic water containers (jugs or cubies) should be compacted and taped together and/or bagged separately. Water bottles can be bagged separately for recycling.
 - Put the plastic trash bags inside of burlap sacks. This helps with keeping the bags small and easy to handle. The burlap sacks will work in sling nets much

better than the plastic. The burlap also will keep the plastic trash bags from getting holes and attracting the wrong kind of attention (bears, dogs, etc.) or just making a mess.

 It is not always easy to get 100% cooperation on these thrash issues, but mentioning these things at briefing will usually get good results.

Camp Help:

- Can you get help at your camp? Are camp crewmembers available? Are they qualified to work at your spike camp, i.e., fireline qualifications.
 - Some times the best help is within the crew living at you camp. Most crew bosses do not mind leaving a person in camp for a part/full day to help out.
 - Someone on the crew may have a sore knee or whatever that would be better off in camp. You may only need someone in the morning to help, and can join the crew later.
 - Many have chainsaw and helicopter qualifications you may put to good use.
 - Often, rotating in one crew helper from a different crew each day can work well when you need the help.

Safety Concerns:

- Snags, bees, wild animals (if the camp is in bear country, it may change how things are done quite a bit), vehicle traffic, bad footing, the fire itself, weather, public contact.
- How well are the crews set up for camping out? If you are in a remote site with no facilities and the weather goes bad, some crew's gear may not hold up well. This is where extra plastic sheeting, tarps and sleeping bags come in handy. Most all crews will come out with sleeping bags and tents, but be prepared to help people keep warm and dry.
- An EMT is a good idea, especially if the camp is only accessible by air or walking trail. The condition of your camp will tell you a lot; give it a good inspection before setting up and monitor things as it goes.
- Talk daily to the overhead living at your spike camp to see how things are working out for them. Consult with the safety officer and the FACL regularly. Some incident management teams may have a person assigned as the "spike camp coordinator", especially if there is more than one remote camp on the incident. This person should be knowledgeable about remote camps and could be a great help to you.

And finally.....

A spike camp may be just 2 crews for a couple of days in the wilderness or over 100 people in a nice drive up to a lodge with catered meals and all the facilities, and any variation in between. Adaptability and good planning are the keys. Start thinking about how to demobilize it while you are building it up. This will help construct the most efficient and cost effective camp while taking care of the personnel living there. Each one will be challenging in its own way and provide a very rewarding experience.

Typical Remote Camp Daily Routine

If the spike camp is being supplied daily by helicopter or truck delivery the typical routine is as follows:

0500 Get up an hour before the crews. Start the water heater (coffee heating kit) and make coffee in a clean bucket (Hot Can). Have hot coffee and hot water ready for the crews when they get up. Arrange the breakfast serving area.

0600 Awaken crews. Organize breakfast serving. **0700** Obtain briefing from DIVS.

- What is going to happen over the next
 24 hours.
- What you need to prepare for.
- **0800** Clean up camp area and arrange garbage boxes on cargo net (if using helicopter) for back haul. Be sure all garbage boxes are securely sealed with fiber tape.
- 0900 Make daily re-supply order.
- **1000** Radio communications section and place resupply order for supply section and food unit.
 - Number of meals for dinner
 - Number of meals for breakfast
 - Number of lunches for next day
 - Supplies needed, e.g., batteries, toilet paper, water, first aid, chainsaw fuel.
 - Request garbage backhaul.
- 1100 Patrol camp and make needed improvements.

Mid-day

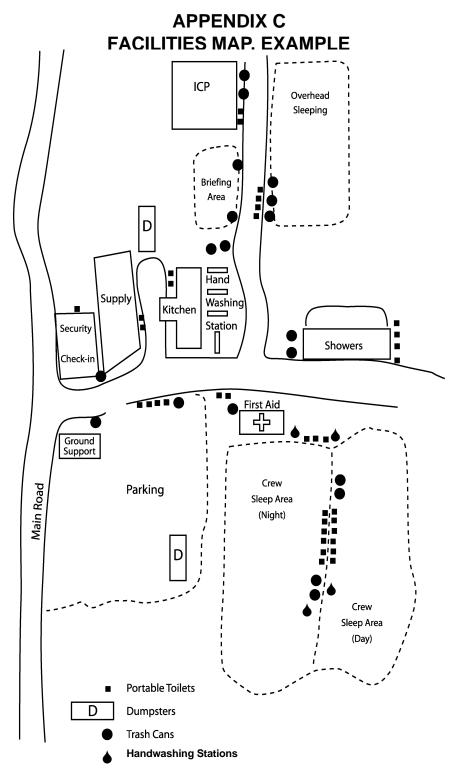
Air support or ground support should make a garbage backhaul.

- **1600** Start heating water in coffee heating kit for crew bathing and making coffee.
- 1700 Expect delivery of food and supply order.

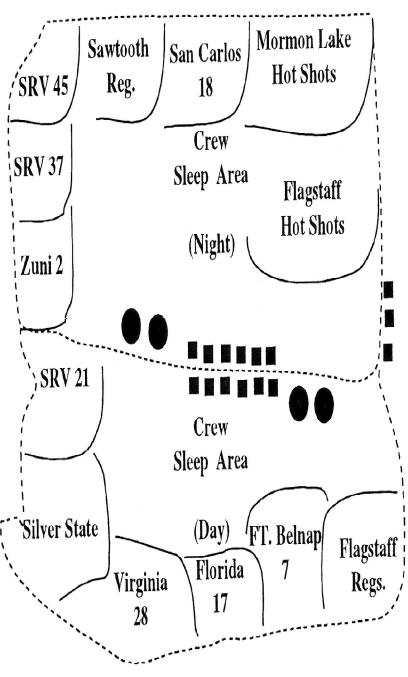
 Expect crews to start returning to camp. Make coffee in Hot Can. Prepare wash kits, soap, and paper towels for crew bathing.
- 1800 Organize dinner serving. Usually crewmembers are willing to help with meal serving. Be sure the serving line is set up and orderly. Servers must wash and wear serving gloves.
- **1900** Clean up camp and package garbage. If a vehicle is available, consider backhauling garbage.
- **2000** Final inspection of the camp, and retire for the evening.

Tips:

- Provide for maximum crew comfort. Crews want to wash, eat, and sleep.
- Treat all crew with respect, be polite and upbeat, smile and add appropriate humor whenever possible.
- Gain the respect of all crews and overhead.
- Always be, one step ahead of every situation.
- Be aware of the camp's condition at all times.
- Use crewmembers to help with camp construction and chores. Most are willing to help.
- Never make coffee in the coffee heating kit. It is much better to have an abundant supply of hot water. Make coffee in a separate container.
- Keep noise to a minimum; avoid the use of generators.
- Plan for sudden storms and failed re-supply missions. Have shelter material, hot water, ample drinking water supply, a two day reserve of all supplies, and MREs.
- Keep DIVS informed of problems and the possible need to make changes that may affect them.



APPENDIX D CREW LOCATION MAP, EXAMPLE



APPENDIX E FUNCTIONAL NEEDS

Function Supply	Needs Area large enough for	Location
~ ~ ~ ~ / /		Close to ground support,
	tractor/trailer access and	main camp entrance
	expansion, hazardous	
	materials, power, telephone,	
	personnel access, security,	
	toilets, close to ground support,	
	office spaces.	
Ground Support	Parking area for large vehicles,	Close to main camp
	fuel trucks, power, toilets,	entrance
	communications, office space	
M edical Unit	Shelter for patient treatment,	Base/camp, easy access
in carcar chit	privacy, toilets, power, quiet	for crews, away from
	area, communications,	supply and/or ground
	personnel and vehicle access.	support.
	personner and ventere access.	зарротт.
Kitchen Area	Large level area for	Base/cam p
	tractor/trailer parking and	
	access, potable water, 2 toilets	
	for caterer, grey water disposal,	
	dust abatem ent, dum pster,	
	hand washing area.	
Shower Unit	Level area, potable water, grey	Base/camp
	water disposal, tractor/trailer	[
	parking and access.	
Facilities	Office space	Base, ICP
Security	Traffic cones, office space,	Could collocate with
	power	ground support, near the
		entrance to the base/camp
Communications	Office space, power, lighting,	Proximity to ICP
	heating/cooling, trash, camp	,
	crew help to secure phone	
	lines.	
Plans	Office space, power with surge	IC P
	protection, lighting,	
	heating/cooling, location for	
	strategy meeting, briefing area,	
	phone/data lines, trash	
	receptacles, shaded area for	
	check-in.	
Finance/	Office space, power with surge	IC P
Administration	protection, lighting,	
	heating/cooling, dust free area	
	for copier, trash receptacles.	
Operations	Toilets, shade, power,	IC P
	dumpster, trash receptacles,	Note: Helibase should be
	shelter	located away from other
		facilities, foot and vehicle
		traffic.
	Office space, meeting area,	IC P
Command and	To fince space, incetting area,	
Command and General Staff	power, communications,	
	power, communications,	
	power, communications, lighting, heating/cooling, trash	
	power, communications, lighting, heating/cooling, trash receptacles. Coordinate with	
	power, communications, lighting, heating/cooling, trash receptacles. Coordinate with Fire Information Officer	

APPENDIX F Base Camp/ICP Management Tips

The Base camp and Incident Command Post (ICP) are the center of activity on the incident. The complexity can be overwhelming and may require more than one BCMG. It is important to design the camp properly. A poorly laid out camp adds significantly to the management problems of the BCMG.

- Establish the sleeping area first. It must be in an area that experiences the least amount of noise from generators, refrigerator trucks, traffic, catering services, etc. It must have relatively easy access to showers, washstands, latrines and dining facilities.
- Establish the service area. This is the area
 that contains catering, showers, supply,
 medical, etc. This area needs easy access by
 service vehicles such as food supply, potable
 water, supply, gray water, portable toilet
 pumping trucks, etc. This area is normally
 quite noisy and should be located some
 distance from the sleeping area and close to
 access roads.

- Establish a "down town" area. This is the area that contains the offices, briefing area, etc. It can be separate from the service area.
- Establish the vehicle parking area. This must be separate from the rest of the camp, but within easy walking distance to all areas within the camp.
- Lastly, establish the ground support area. This
 is usually some distance from the rest of the
 camp and near the access road. This area
 may contain the fueling service function.

BCMG's schedule in the Base Camp and ICP:

Generally the BCMG should be up and on the job by 0500 and does not get to bed before 2200.

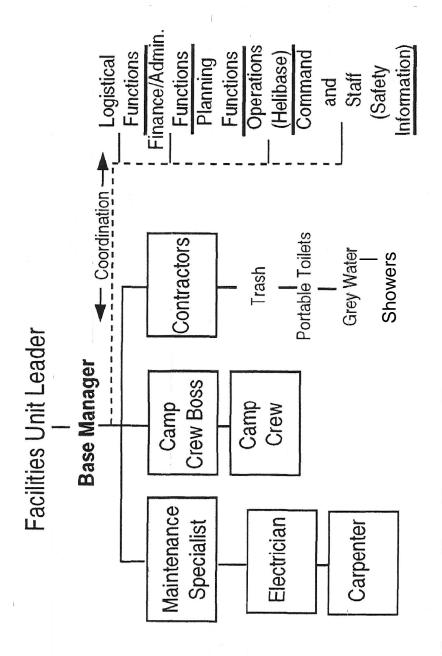
Camp Crews:

- The size of the camp crew should match the amount of work that needs to be done. Having too many camp crewmembers creates more problems than having too few.
- Always deal with the camp crew boss, not the individual crewmembers.

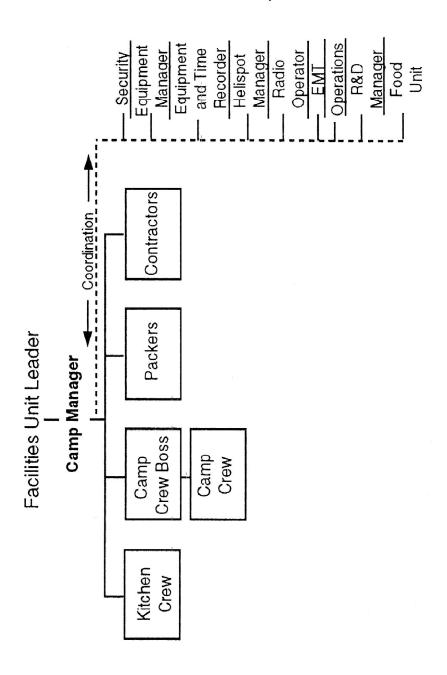
Tips:

- Schedule daily portable toilet pumping.
- Schedule portable toilets to be pumped at times that do not interfere with meal times or sleeping times.
- Use dust abatement services liberally.
- Continually patrol for safety hazards in and around the camp and mitigate the hazards promptly. Flag all tent ropes and hazards, control traffic flow, etc.
- Patrol the camp continually. Know the condition of the camp at all times.
- Address problems immediately.

APPENDIX G BASE ORGANIZATION, EXAMPLE



APPENDIX H CAMP ORGANIZATION, EXAMPLE



APPENDIX I SAFETY-HEALTH EVALUATION

Safety is a supervisor's responsibility. You are responsible for detecting hazards and unsafe operating conditions and coordinating their correction, elimination or reduction. This evaluation is provided to assist you with the identification of unsafe actions, hazardous facilities, or other conditions which may cause an accident, injury, or decrease production.

=	. , , , , , ,		ı
	S = Standard SS = Substandard	CONDITION	NOTES
1.	Location		
2.	Traffic flow. Ingress/egress provided (one-way traffic); traffic control signs, speed control - 5 mph.		
3.	Dust control and noise		
4.	Parking areas - adequate area; wheels chocked; security.		
5.	Sleeping areas - separated from parking; shade; signed (sleeping area - no vehicles allowed); sleeping only in designated areas; inmate and ward areas.		
6.	LPG tanks - downwind from ignition sources; no leaks; stored upright an firmly chained; "no smoking" signs; regulator secured; protected from moving vehicles; flex lines protected from traffic, located in shaded area.		
7.	Generators - one large centrally located if possible; location to minimize noise; cord condition; grounded; refueling shut down; exhaust exposure and spark arrestor; 10' dearance from flammable materials.		
8.	Wash area - soap, water, showers: area well drained.		
9.	Toilet facilities - clean condition; regular servicing.		
10.	Shower facilities - grey water disposal.		
11.	Status board - know safety hazards posted; weather posted; Identification and location of emergency medical units.		
12.	Lighting (night)		
13.	Electrical		
14.	Other		

APPENDIX J EMERGENCY EQUIPMENT SHIFT TICKET, EXAMPLE

EMERGENCY EQUIPMENT SHIFT TICKET NOTE: The responsible Government Officer will update this form each day or shift and make initial and final equipment inspections.								
1. AGREEMENT NUMBER 56-8173-6-0099					each day or shift and make initial and tinal equipment inspections. 2. CONTRACTOR (name) Engine/Tenders INC.			
3. INCIDENT OR PROJECT NAME 4. INCIDENT NUMBER OR-DEF-0001					5. OPERATOR (name) Bob Forest			
	6. EQUIPMENT MAKE 7. EQUIPMENT MODEL 1978 AUTCAR				A	RNMENT		
9. SERIAL NUMBER 10. LICENSE NUMBER ABC0000111111 ABCD001			ISE NUMBER CD001	11. OPERATING SUPPLIES FURNISHED BY CONTRACTOR (wet) GOVE	ERNMENT (dry)			
12. DATE MO/DAY/YR		13. EQU	HOURS/I	DAY/MILES (circle one)	14. REMARKS (released, down time and cause, problems, etc.			
	START	STOP	WORK	SPECIAL				
08/02/99	0600	1800	12					
08/03/99	0600	1800	12		15. EQUIPMENT STATUS X a. Inspected and under agreement			
08/04/99	0600	1800	12		☐ b. Released by Government ☐ c. Withdrawn by Contrator			
08/05/99			12		16. INVOICE POSTED BY (recorder's initials) DRG			
17. CONTRACTOR'S OR AUTHORIZED AGENT'S SIGNATURE Robert 7. Forest			S SIGNATURE	18. GOVERNMENT OFFICER'S SIGNATURE Dave R. Gomez	19. DATE SIGNED 08/05/99			
NSN 7540-01-119-5628 USDA/USDI				OPTIONAL USDA/USD	FORM 297 (REV. 7-90)			

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APPENDIX K EMERGENCY EQUIPMENT RENTAL AGREEMENT, EXAMPLE

EMERGENCY EQUIPMENT RENTAL AGREEMENT

ORDERING OFFICE (name and address)	AGREEMENT NUMBER MUST APPEAR ON ALL PAPERS RELATING TO THIS AGREEMENT					
USDA Forest Service, R-6	2. AGREEMENT NUMBER					
P. O. Box 3623	56-817 3. EFFECTIV		099			
Portland, OR 97208	a. beginning		1-99	b. ending 12	2-31-99	
4. CONTRACTOR a. name and address						
Engine/Tender INC.					IME OF hire	
P.O. Box 365	THE WORK RATE IS BASED ON ALL OPERATING SUPPLIES BEING FURNISHED BY					
In Oregon, OR 97365	☑ CONTRACTOR ☐ GOVERNMENT					
c. telephone number (day) d. telephone number	7. OPERATO	7. OPERATOR FURNISHED BY				
555-123-3456 1-800-123	☑ CONT	RACTOR		☐ GOVERNI	MENT	
	TYPE OF CONTRACTOR ("X" appropriate boxes) SMALL BUSINESS					GOVERNMENT EMPLOYEE
9. ITEM DESCRIPTION	10. NUMBER OF OPERATORS	11. WORK OF	DAILY	12. SPECIAL	7	13. GUARANTEE
(include make, model, year, serial number and accessories)	UPERATORS	a. rate	b. unit	a. rate	b. unit	(8 or more hours)
a. Tender, Type 2, 4x4, 3427 Gal. Model: 1978 AUTCAR	İ				-	Under hire 8 or
Licence: ABCD001 Vin #: ABC0000011111	1	1,470.00	Day SS	2,520.00	Day SS	less hrs. 50% of daily rate.
b. Engine, Type 4, 4x4, 913 Gal. Model: 1995 Ford						Under hire 8 or
Licence: ZYXW123	3	2,086.00	Day SS	3,576.00	Day SS	less hrs. 50%
Vin #: ZYX1234567891	ļ				-	of daily rate.
c.						
d.						
				-		
e.						
f.					 	
g.						
14 SDECIAL DROVISIONS						
14. SPECIAL PROVISIONS 1. Required personnel per shift (Block 10): Type 6 and 7 engines require 1 ENGB and 1 FFT, Type 4 and 5 engine						
requires 1 ENGB and 2 FFT. Tender requires 1 tender operator per shift. 2. Terms and conditions of RFQ R6-03-004 are incorporated into this agreement with the same full force and effect as if						
given in full text. The contractor shall carry a complete copy of the RFQ and make it available upon request.						
Claims may be submitted to the Procurement Unit Leader or Incident Agency Contracting Officer. Contract dispute claims may be settled by any Contracting Officer actin within their authority and within any limits set by the incident						
agency. In the event a settlement cannot be reached, the Incident Agency Contracting Officer will make the written						
final decision, with a copy to the signatory Cont 15. CONTRACTOR'S OR AUTHORIZED AGENT'S SIGNATURE	16. DATE		TING OFF	ICER'S SIGNA	TUDE	18. DATE
Robert 7. Forest	01/10/99			B. Jon		01/10/99
19. PRINT NAME AND TITLE	L					
		20. PRINT NAME AND TITLE SUSAN B. Jones Contracting Officer				
Robert T. Forest, owner	Susan B. Jones, Contracting Officer					

APPENDIX L 24-HOUR CLOCK

12 Hour	24 Hour	Pronounce
1:00 PM_	0100	Zero-one hundred
2:00 AM	0200	Zero-two hundred
3:00 AM	0300	Zero-three hundred
4:00 AM	0400	Zero-four hundred
5:00 AM _	0500	Zero-five hundred
6:00 AM _	0600	Zero-six hundred
7:00 AM _	0700	Zero-seven hundred
8:00 AM _	0800	Zero-eight hundred
9:00 AM _	0900	Zero-nine hundred
10:00 AM _	1000	Ten hundred
11:00 AM _	1100	Eleven hundred
12 NOON _	1200	Twelve hundred
1:00 PM _	1300	Thirteen hundred
2:00 PM _	1400	Fourteen hundred
3:00 PM _	1500	Fifteen hundred
4:00 PM _	1600	Sixteen hundred
5:00 PM _	1700	Seventeen hundred
6:00 PM _	1800	Eighteen hundred
7:00 PM _	1900	Nineteen hundred
8:00 PM _	2000	Twenty hundred
9:00 PM	2100	Twenty-one hundred
10:00 PM	2200	Twenty-two hundred
11:00 PM	2300	Twenty-three hundred
12 MIDNIGHT _	2400	Twenty-four hundred

Notice that you add 12 to the PM time to get the first two numbers of the hour, e.g., 8 PM is twenty hundred (8 + 12 = 20).

APPENDIX M GLOSSARY OF TERMS AND ACRONYMS

For additional fireline terms, refer to Wildland Fire Terminology, PMS 205, NFES 1832

Accountable Items with a purchase price of \$5,000.00 or more or items that

the agency considers sensitive (cameras, chainsaws, items with

property numbers).

A/C Aircraft, fixed or rotor wing.

AD Administratively Determined (rates

and pay plan for emergency

workers.)

AGL Above Ground Level, altitude

expressed in feet above the

ground.

AIDS Aerial Ignition Devices - usually

refers to a ping pong ball machine

or a helitorch.

Air Contact Particular aviation resource to

contact when reporting to a fire.

Air Show Multiple aircraft over a fire, usually

including air tankers.

Air Tactical ICS position within the operations

section. Air Tactical Group

Supervisor (ATGS), synonymous

with air attack.

Advanced
Technology
Meteorological
Unit
(ATMU)

A weather data collection and forecasting facility consisting of seven modules, weighing a total of 116 pounds and occupying 13.8 cubic feet of space when

transported. Requires a supplemental order of helium,

procured locally.

Alumigel® Jelly like substance produced by

mixing gasoline and Alumigel® powder. It is then applied with a

helitorch to ignite fires.

ALS Advanced Life Support

ATA Actual Time of Arrival

Air Tanker Fixed wing aircraft capable of

delivering fire retardant (liquid and

foam).

ATD Actual Time of Departure

Av Gas Fuel for aircraft with internal

combustion engines (reciprocating engines).

Azimuth The horizontal distance in angular

degrees in a clockwise direction

from the north point.

Back Haul Excess supplies, equipment or

trash returned from a location on

an incident.

Base The location at which primary

logistical functions for an incident are coordinated and administered.

There is only one base per

incident, e.g., incident command

post (ICP).

Backpack Pump

A collapsible backpack made of neoprene or high strength nylon fabric that carries approximately

five gallons of water fitted with a hand pump. (bladder bag)

Bearing Position of an object with

reference to a point on a

compass.

Black Water/ Vehicle Sewage Truck and hau

Vehicle capable of pumping and hauling raw sewage to certified sewage treatment

facility.

Booster Pump An intermediary pump for

supplying additional lift in pumping water uphill past the capacity of

the first pump.

BDU "Battle Dress Uniform", fire

resistant pants

Casual(EFF) An employee who is picked up

temporarily for a fire emergency, see AD. Also referred to as Emergency Fire Fighter (EFF)

Chief of Party Person in charge of passengers

while traveling.

Clamshell Reusable battery holder for King®

radios. Holds 9 AA batteries. Listed as Holder, Battery, King®,

NFES 1034.

Compressed Air Foam

System (CAFS)

A generic term used to describe foam systems consisting of an air compressor (air source), water

pump and foam solution.

Commo Communications

Consumable Property

Items that are expected to be consumed on the incident (batteries, MREs, canteens).

Coordination Center

Regional/Zone/State level center for mobilization of resources to incidents at a (diameter)

incidents, etc. (dispatch)

Coupling, hose A fitting on the end of a hose that

connects the ends of adjacent hoses or other components of hose, e.g., male, female, quick

connect, pin lug.

Coyote Tactics A progressive line construction

technique involving self-sufficient crews which build fire line until the

end of the operational period,

remain at or near that point while in an unavailable status and begin building fireline at that point at the

start of the next operational

period.

CSJRL Cotton-Synthetic Jacketed,

Rubber Lined hose.

Cubie Cubitainer: a five gallon container

used for transporting drinking

water.

Demob Demobilization, process of

removing resources, usually off

incidents.

DHS Department of Homeland Security

Dispatch Dispatch center-a facility from

which resources are assigned to

an incident.

Division Incident division, usually

designated by a letter, e.g.,

Division A.

DJRL Double Jacketed Rubber Lined

hose.

Dozer A tracked vehicle with a front

mounted blade used for building

fireline; bulldozer.

Dozer tender Bulldozer service unit

Drum Lifter A device used to transport a 55

gallon drum via a sling on a

helicopter.

Durable Non-accountable items, with

Property useful life expectancy longer than

one incident.

Engine A truck mounted with a pump and

tank (water), used in fire

suppression.

EMS Emergency Medical Service

EMT Emergency Medical Technician

ETA Estimated Time of Arrival

ETD Estimated Time of Departure

ETE Estimated Time En Route.

Expanded Dispatch

The organization in dispatch that is activated when the complexity of logistics coordination approaches a level the initial attack dispatch organization can no longer

support.

FAA Federal Aviation Administration

FBO Fixed Base Operator; usually the

local airport.

Fill or Kill Policy designed to indicate ability

to fill an order or if it can not be filled within a reasonable amount of time (1 hour is standard), then "kill" it. Determine whether to reorder at a later time or cancel

the order. This policy is referenced in the National

Interagency Mobilization Guide.

Fire Cache A supply of fire tools and

equipment assembled in planned quantities or standard units at a strategic point for exclusive use in

fire suppression.

Fixed Wing Aircraft with stationary wings; an

airplane.

FLE Fire Line Explosives, used for

rapid construction of fire line with

a small number of specially

trained personnel.

FMO Fire Management Officer

Foam An extinguishing agent, chemically

and/or mechanically produced, that blankets and adheres to the

fuels to reduce combustion.

When foam products are mixed at 1% or less, the foam will remain effective at preventing ignition for 12 hours. Works with current class A foam delivery systems.

Fol-da-tank® A portable, collapsible water tank

with a tubular frame; varies in capacity from 500-1500 gallons.

FTS Federal Telephone System

Gated Wye A gated valve used in hose lays to

allow connection of other hoses within the trunk line, e.g., 1" lateral

hose with nozzle.

GHT Garden Hose Thread, 3/4 inch

hose fittings

Gorman Rupp Small, portable water pump.

Gray Water Used water from the kitchen and

(Grey) shower units.

Greenwich Mean Time The time at "0" longitude, Greenwich, England (Zulu time).

Hazardous Material Substances that are identified, classified and regulated in the Code of Federal Regulations, Title 49 and Hazardous Materials Regulation 175. A hazardous material is a substance or material which has been determined by the Department of Transportation to be capable of posing an unreasonable risk to health, safety and property when transported in commerce and which has been so

Head (water pressure)

Pressure due to elevation of water. Equals 0.433 pounds per square inch per foot of elevation.

Helibucket

Specially designed bucket carried by a helicopter like a sling load and used for aerial delivery of water or fire retardants.

designated.

Helitorch An aerial ignition device slung

beneath a helicopter to disperse ignited lumps of jelled gasoline

(Alumigel®).

Hot Food/ Drink Cans Nonreusable cans that are used to ship hot or cold drinks and food to

remote locations.

Hot Shots, IHC Specially trained seasonal hand

crew (type 1).

Hoverfill Tank Large, portable tank from which

helitankers can hoverfill.

IA Initial Attack, first effort to

suppress a fire.

IC Incident Commander

Impeller Rotating part of a centrifugal pump

which imparts energy to the liquid

to be moved. For shearing purposes, the impeller is on a rotating shaft within the body of

liquid.

IMSR Incident Management Situation

> Report (Sit Report). Daily report giving the current fire situation in

the United States.

Incident An event (fire, flood, earthquake,

other disaster)

Incident Command System (ICS) An organization used to manage an emergency incident or a nonemergency event. It can be used equally well for both small and large situations. The system has considerable internal flexibility. It can grow or shrink to meet

differing needs. This makes it a very cost-effective and efficient management system. The

system can be applied to a wide

variety of emergency and non-emergency situations.

Plan (IAP)

Incident Action Contains objectives reflecting the overall incident strategy and specific control actions for the next operational period. The plan may be oral or written.

Incident All supervisory positionsOverhead described in the incident

command system.

Increaser Increasing coupling used on

hose, pump or nozzles to permit connection of a larger size of

hose.

Inductor A control mechanism that allows a

regulated quantity of foam

concentrate to be introduced into

the main hose line.

Infrared A heat detection system used for

fire detection, mapping and heat

source identification.

Inside The internal diameter of a tube,

conductor or coupling as

distinguished from the outside diameter. Fire hose sizes are classified by a nominal internal

diameter.

IR Scan Infrared survey of a fire

Diameter

Iron Pipe Standard Thread Standard system of thread for connecting various types of rigid piping. These threads are much finer and more difficult to connect in the field than National Standard threads.

Kamlock

Type of fitting that provides quick connecting/disconnecting hose.

Lead Line

Line or set of lines made of rope, webbing or cable and used in helicopter external load operations. Placed between a swivel or the cargo hook and the load.

Lead Plane

Aircraft with pilot used to make trial runs over the target area to check wind, smoke conditions, topography and lead air tankers to the target.

Lined Fire Hose

Fire hose with a smooth inner coating of rubber or plastic to reduce friction loss.

Liquid Concentrate Liquid phosphate fertilizers used as fire retardants, usually diluted

three to five times prior to

application.

Live Line or Reel

Hose line or reel on a fire engine, carried connected to the pump, ready for use without making connection to pump or attaching

nozzle.

Load Calculation Form An agency form used to calculate

helicopter load weight.

Local Agency

An agency having jurisdictional responsibility for all or part of an incident

incident.

Longline

A line or set of lines, usually in 50 feet increments, used in external load operations that allow the helicopter to place loads in areas which the helicopter can not land.

MAC

Multi-Agency Coordinating Group

MAFFS Modular Airborne Fire Fighting

System, the military's air tanker program (used when more tankers

are needed than there are available on contract).

Mark III Small, portable water pump

Mark 26 Portable water pump (smaller than

a Mark III)

Medevac Emergency medical evacuation

Misery Whip Crosscut saw

MIST Minimum impact suppression

tactics

Mix Ratio The ratio of liquid foam

concentrate to water, usually expressed as a percent.

Monitor Turret type nozzle usually

mounted on an engine.

Mob Guides Reference used to facilitate the

mobilization of resources. Includes policies, procedures, and where to find the resources.

Mopup Extinguish or remove burning

material near control lines after an area has burned to secure the fire or to reduce residual smoke.

MRE Meals Ready to Eat, light weight,

packaged food used on incidents.

Multicom A VHF/AM aircraft radio frequency

(122.9 MHz) assigned by the FAA

for use in air-to-air communications.

Mud Fire retardant

NH National Fire Hose, coupling

threads used for fire hose 11/2"

and larger.

NFES Catalog Referred to as the National Fire

Equipment System Catalog. This

catalog is used to order

equipment and supplies from fire

caches.

NICC National Interagency Coordination

Center at Boise, ID.

NIFC National Interagency Fire Center

at Boise, ID

Nomex® A fire resistant synthetic material

used in the manufacturing of flight

suits, pants and shirts for

firefighters.

Nozzle Aspirated Foam System A foam generating device that mixes air at atmospheric pressure with foam solution in a nozzle

chamber.

Nozzle, Forester Twin-tip combination nozzle for 1" hose. Combination fog/straight stream nozzle tip; low volume.

Nozzle, KK Combination barrel nozzle. Higher

volume than the Forester nozzle.

NPSH National Pipe Straight Hose

Coupling Threads (straight pipe threads for hose couplings and

nipple).

NPT National Pipe Threads/American

Standard Taper pipe threads

NTE Not to exceed; a personnel term

used for positions that have a limited duration due to funding or

project length.

Payload Weight of passengers and/or

cargo being carried by an aircraft.

PAX Passengers

PC Paracargo, cargo delivered by

means of fixed wing aircraft and parachutes specially packed and rigged, usually by smokejumper

paracargo specialists.

PG Personal gear bag

Phoschek® Long term red colored fire

retardant

PIC Pilot in Command

Piston Pump Positive displacement pump with

2, 4, and 6 reciprocating pistons to force water from the pump chamber in conjunction with appropriate action of inlet and

discharge valves.

Potable Water Certified sanitary water, suitable

for human consumption.

Probeye® Infrared scanning device that

picks up hotspots on fires.

Proportioner A device that adds a

predetermined amount of foam concentrate to water to form a

foam solution.

PSD Plastic Sphere Dispenser - refers

to a machine installed in a

helicopter that dispenses plastic spheres (ping pong balls) filled with potassium permanganate. The machine injects a small amount of ethylene glycol into

each sphere and then dispenses them out of the helicopter. The exothermal reaction of the two chemicals creates enough heat to ignite the

plastic sphere, in 25 to 30

seconds, which in turn ignites the

fuel bed. Aerial Sphere Dispenser Kit, NFES 3410

PTO Power Take-Off, a supplementary

mechanism enabling the engine power to be used to operate nonautomotive apparatus (such as a

pump).

Pumpkin Collapsible, soft-sided,

freestanding portable water tank.

Ramp Parking area for aircraft adjacent

to a runway.

Red Card Fire qualification card issued to

personnel showing their qualifications to fill specific

fire positions.

Reel A frame on which hose is wound

(.75 to 1 inch hose) supplied by a

water tank on the apparatus.

Resource Any person, aircraft, supply or

equipment available for assignment to an incident.

Described by kind and type, e.g.,

T2 Crew, ICT1, T6 Engine.

Resource Form used by dispatchers, service personnel and logis

service personnel and logistics coordinators to document the request, ordering or release of resources and the tracking of those resources on an incident.

Respirator A simple filter mask for individual

protection against smoke and fumes for use on wildland fires.

Retardant A chemical having a retarding

action on fire, usually applied with

an air tanker.

Retrograde Reversal of an order; shipping

supply items from the incident

back to the cache or to

another incident.

Requisition A form/procedure for purchasing

supplies.

RH Relative Humidity, a measure of

moisture in the air.

Rocker Lug
Coupling

Hose coupling in which the lugs used for tightening or loosening are semicircular in shape and

designed to pass over

obstructions.

Rotor Wash The air turbulence caused by the

movement of the rotor blades of a

helicopter.

Rotorwing Aircraft with a rotor system that

rotates about an axis to provide lift

and/or thrust for a helicopter.

RX Prescribed fire

SIPT Straight Iron Pipe Thread

Slurry Fire retardant

SMJ or SJ Smokejumper; fire suppression

personnel who parachute to fires

via fixed wing aircraft.

SOP Standard Operating Procedures

Spotter Smokejumper supervisor in

charge of a jumper load; performs navigation, communication and

paracargo duties.

Stocking Levels

Minimum levels of supplies kept

on hand at a fire cache.

Strainer A wire or metal guard used to

keep debris from clogging pipe or other openings made for pumping water. Placed on suction hose it will protect pumps from foreign

materials.

Surfactant A surface active agent. A

formulation which, when added to water in proper amounts, will reduce the surface tension and increase penetration capabilities of the water, e.g., wet water, class

A foam, soap.

Swamper Assistant to an equipment

operator

T&A Time and Attendance

Tail Number FAA number used to identify

aircraft, located on the tail of the

ship. American aircraft tail

numbers begin with the letter N,

e.g., N543TY, N67344.

Tanker Air tanker

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TFR

Temporary Flight Restriction. This airspace restriction is obtained through the FAA. It is an area of airspace over an incident that is defined both (laterally and vertically) which has been temporarily or partially closed to nonessential aircraft for a specific period of time.

Thread

The specific dimensions of screw thread employed to couple fire hose and equipment. American National Standard Hose Thread has been adopted for fire hose couplings.

Torch, Drip

A hand-held device for igniting fires by dripping flaming liquid fuel on the materials to be burned. Fuel used is generally a mixture of diesel and gasoline.

Trash Pump

Medium sized pump used for moving large amounts of liquids, e.g., grey water, retardant. These pumps are ordered as volume pumps.

UTF Unable to fill; pertaining to

resource orders.

Water Buffalo Liquid storage unit

Water Tender Ground vehicle capable of

transporting specified quantities

of water, e.g., Type 1 water

tender; 5000 gallon capacity, 300

gallon per minute pumping

capability.

WFSA Wildland Fire Situation Analysis.

An analysis tool used to

determine the most appropriate management strategy for a wildfire that has escaped initial

attack.

WX Weather

Xedar® Type of heat seeking video

display unit that identifies hot

spots during mopup.

100 hour Mandatory maintenance done to

aircraft every 100 hours (there is also a 50 hour, 1000 hour, etc.)