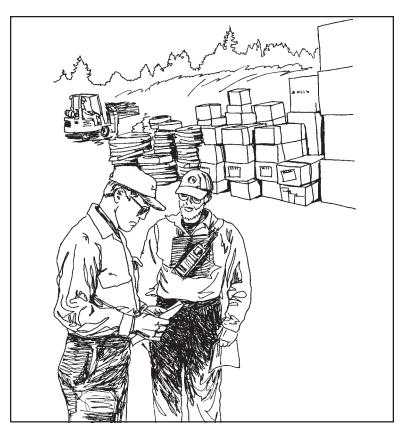
RECEIVING AND DISTRIBUTION MANAGER

J-253





Job Aid October, 2003 NFES 1244



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:

Receiving and Distribution Manager, J-253 Certified at Level I

This product is part of an established NWCG curriculum. It meets the COURSE DEVELOPMENT AND FORMAT STANDARDS – Fifth Edition, 2001 and has received a technical review and a professional edit.

Member NWC and Training Working Team Liaison

10/03/03

Date

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.
 - 1. 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 required training courses prior to obtaining a PTB. Use of the suggested training courses or job aids is recommended to prepare the employee to perform in the position.
 - b. <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

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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. Email: 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 1244.

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RECEIVING AND DISTRIBUTION MANAGER (RCDM) JOB AID, J-253 INTRODUCTION

The Receiving and Distribution Manager has been identified as a position within the Incident Command System (ICS). The J-253 job aid, which supports this position, is part of the National Wildfire Coordination Group's (NWCG), Wildland Fire Suppression Curriculum. The subjects 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 incident experience. Forklift certification may be required per agency policy.

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.

Note: Additional logistics information can be obtained from the National Logistics website at www.fs.fed.us/logistics.

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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Email: nwcg_standards@nifc.blm.gov

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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 2354
	Fireline Handbook, PMS 410-1, NFES
	0065
	National Fire Equipment System Catalog,
	NFES 0362
Do	ocumentation Forms:
	ICS 213, General Message, NFES 1336
	ICS 214, Unit Log, NFES 1337
	ICS 219, Resource Status Card (T-Card),
	NFES 1342 and holder (optional)
	ICS 226, Individual Performance Rating,
	NFES 2074
	SF-261, Crew Time Report, NFES 0891

□ OF-316 Interagency Incident Waybill,

Time Report, NFES 0866

NFES 1472

and/or OF-288 Emergency Firefighter

☐ Agency specific forms
Miscellaneous Items (optional):
☐ Assorted pens, pencils, felt tip markers, highlighters, thumb tacks, string tags, pads of paper, clipboard, masking/strapping tape, duct tape, envelopes, surveyor flagging, file system supplies, hole punch, scissors, box cutter, etc.
☐ Calculator
☐ Flashlight (extra batteries)
☐ Alarm clock
☐ Camera
☐ Calendar
☐ Tape measure
☐ Insect repellent
□ Local area maps
□ Road atlas
☐ Self locking metal seal, NFES 1938
MOBILIZATION

II.

- Obtain Complete Information From Local A. Dispatch Upon Initial Activation.
 - Obtain a copy of the order form which 1. 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 fire experience record.

2. The individual will have:

- Frameless soft pack containing personal gear, not to exceed 45 lb.
- RCDM 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

A. Arrive at Incident and Check In

- Locate supervisor (supply unit leader; SUPL.)
- Report to status check-in recorder and complete ICS 211, Check-in List.
- Report to the finance/administration section for time keeping procedures.

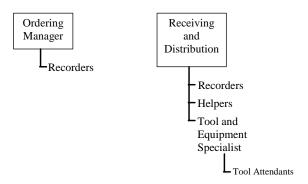
B. Obtain Initial Briefing from the SUPL.

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:

- Sleeping and eating arrangements.
- Location of your work area(s).
 - Cache/distribution area
 - Fueling and fuel storage area
 - Hazardous material area
 - Tool and equipment areas
 - Delivery areas
- Copies of supplies and resources that have been ordered and received.
- Personnel ordered for your function, work schedule, policy and operating procedures, and chain of command in your unit.
- Projections for additional personnel and equipment, approximate time and numbers and expected duration of incident.
- List of personnel authorized to check out supplies and materials.

- Obtain a current listing of the contractors and a summary of contract specifications on filling supply requests from the finance section chief or procurement unit leader.
 Request daily updates from the logistics section chief of new contractors.
- Type of communications available:
 - Command net and channel
 - Logistics net and channel
 - Phones and numbers Cell/Hardline
 - Other
- People you will interface with on the incident:
 - Unit leaders and staff
- Established/needed security procedures.
- Recycling requirements and availability of recycle units.
- Local cache availability
- Return procedures for surplus resources.
- Established briefing procedures within the supply unit.
- Request a current copy of the Incident Action Plan (IAP) and incident map.

Supply Unit Leader



- C. Order Required Personnel to Support the Receiving and Distribution Area.
 - Camp crew/helpers
 - Tool and equipment specialists
 - Cache demobilization specialist
 - Certified forklift operator (OSHA requirement)
- D. Organize Physical Layout of a Secure and Safe Receiving and Distribution Area.
 - Ensure sufficient space for receiving, storage and issuance of equipment and supplies for projected incident size. This area needs to be large and flat to accommodate forklift operations. When possible store items on pallets for easy access and transporting. Remember: OSHA certification is required for all forklift operators.

- Provide for protection from environmental hazards.
- Due to noise, lighting, dust, etc., ensure that the area does not conflict with sleep areas, mess areas, etc.
- Provide for the safety of incident personnel and security of the unit with barricades, lighting, signing and security personnel.
- Develop security procedures and maintain contact with SUPL and security manager (SECM) concerning all present and anticipated security problems.
- Ensure adequate area for hazardous materials. Know location of Material Safety Data Sheets (MSDS) and the Hazardous Material Spill Plan.
- Ensure adequate ingress/egress for delivery vehicles.
- Separate tool area from supply storage.
- Ensure the supply area is safe from hazards. At a minimum check for the following:
 - Flag all trip hazards and hanging ropes.
 - Place electrical cords in a safe area away from foot traffic areas and ensure water tight connections.

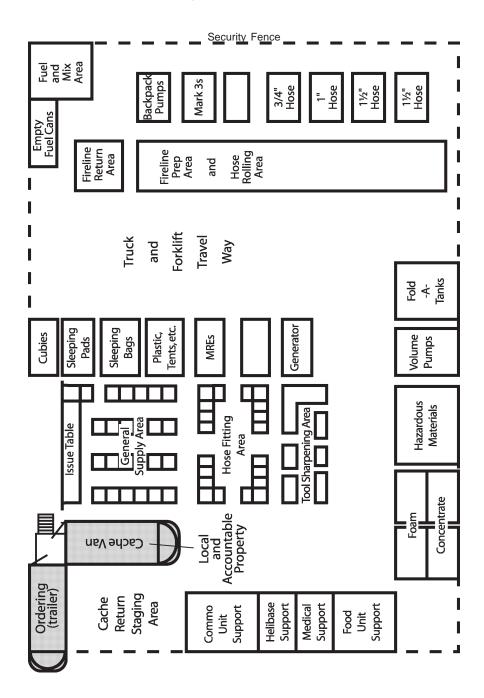
- Ensure boxes are stable when stacking (heavy boxes on the bottom)
- Ensure personal protective equipment (PPE) has been issued to and is utilized by all unit personnel.

PPE must be utilized to protect personnel from blood born pathogens, biological hazards, puncture wounds, eye injuries and other identified hazards. Contact the medical unit leader for assistance in this area.

 Place fire extinguisher strategically in fuel storage, hazardous materials, tool storage, and cache areas.

The following page depicts a sample layout of a supply area. No two layouts are ever the same, but all need to include the basic elements shown.

Sample Receiving and Distribution Area Layout



- E. Establish Procedures for Receiving Supplies and Equipment.
 - Designate and sign areas for loading and off-loading of supplies.
 - Supplies and equipment are to be stored within the secure supply area.
 - Prepare procedures for receiving filled orders
 - Check off on waybill/receipt item(s) received.
 - Prepare procedures for supply/ equipment storage, rehabilitation, and/or return to cache.
 - Utilize integrated electronic resource tracking system if available.
- F. Establish Procedures for Issuance and Tracking of Supplies and Equipment.
 - Instruct subordinates on maintaining the list of personnel authorized to check out supplies and materials.

See example of Check-Out Authority checklist, Appendix A.

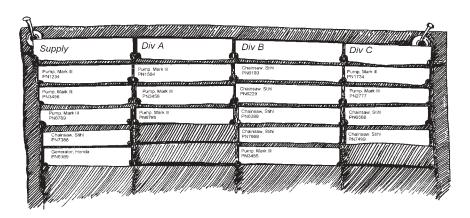
 Set up and maintain a file system for receiving and distribution of supplies and equipment. Whether the system is a series of boxes, a piece of canvas with pockets, or a filing cabinet does not matter as long as it is functional and works as a status keeping system.

- Maintain a separate file for contractors. Some contractors, e.g., national contractors, are to provide their own supplies. Establish an accountability system for checking out supplies that allows for billing of non-returned items.
- Ensure issue receipts to contractors are routed to finance/administration section.
- Ensure that the issue table is adequately identified and provide clear ingress/egress for personnel.
- Ensure that special orders for materials and supplies are delivered or issued to the requester in a timely manner. These orders need to be verified for accuracy.
- Ensure that receipts for accounts payable get to the buying unit or finance/administration section.
- G. Notify ORDM of Supplies and Equipment Received.

Proper notification should include:

 Receipts of supply and equipment (record date and time.)

- Turning all delivery documents/waybills over to the ordering manager.
- Noting discrepancies between what is listed on the delivery document and what was actually received.
- Critical cancellations
- Inform the SUPL of supplies and equipment received.
- H. Maintain Inventory of Supplies and Equipment.
 - Through an established filing system, maintain inventories of all supplies and equipment on the incident.
 - Display, at all times, the status and location of accountable property by using T-cards or other visible means.
 Items checked out to crew or individuals should be accounted for in the file system.



- Update written inventory of supplies and equipment in the cache as requested by the SUPL. The Outstanding/Surplus Item report, from the cache, will help identify those property items still assigned to the incident.
- Order materials to maintain specified cache stock levels.
- Receive written request for supplies and resources directly from incident personnel or through the incident communication system.
- Document requests on a ICS 213, General Message, legibly, and containing the following information:
 - Request date/time and date/time needed
 - Catalog number (if available)
 - Description of item(s)
 - Number desired, units of issue
 - Any special billing requirements
 - Whom to notify when the item is delivered.
 - Delivery point(s)
 - Name of requesting party and agency
 - Authorized approval

See Appendix B, ICS 213, General Message example.

- Plan to maintain at least one operational period additional inventory in stock at all times. If orders are placed during the afternoon and are filled the afternoon of the following day, plan adequate supplies for two operational periods.
- All fuel should be labeled, e.g., date and fuel only or mix ratio.

See Appendix C, Mix Ratio Chart.

- I. Supervise and Manage the Receiving and Distribution Function.
 - Provide for proper shipping, storage and handling of hazardous materials assigned to the supply cache.
 - Comply with and enforce known and identified health and safety regulations.
 - Ensure that materials are on hand for unexpected problems, e.g., weather, no air support, food shortage, equipment shortage.
 - Excess supplies that are not needed in the next week should be returned to the cache. Complete return waybill documents and remove associated Tcards.
 - Ensure adequate staffing levels for peak times (operational period change and demobilization).

- Identify and support individual strengths
 of the receiving and distribution crew by
 delegating, e.g., issuing of supplies,
 restocking of supplies, filling line
 orders, fuel depot, hose rolling.
- Supervise tool and equipment function, to provide safety and security for the tool and equipment area.
- On major incidents this function may include:
 - Changing the layout of the tool and equipment work area.
 - Moving the tool and equipment work area away from the receiving and distribution function to a nearby building or warehouse to provide better lighting, power, and protection from the elements.
 - Locating the work area away from foot traffic for safety reasons.
 - Locating issuing and receiving points separate from the tool sharpening or equipment handling section, and providing ready access to a parking area for easy loading and unloading.
 - Clearing combustible growth and materials from tool sharpening sites.
 - Providing an ABC Class fire extinguisher.

- Establishing a security barrier around your work area to prevent theft.
- Ensuring tool grinding and other noisy activities are kept away from the check-out point and sleeping area.
- Ensuring that personnel have been issued and use the additional personal protective equipment dealing with this function, e.g., aprons, face shield, goggles, gloves.

Tool and Equipment Specialists (TESP)

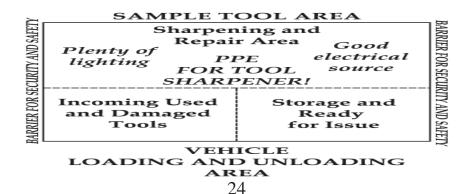
The job of the tool and equipment specialist is to maintain a supply of tools and equipment, store the tools and equipment that are used on the incident and recondition these items as necessary. The tool and equipment specialist needs to be able to make a quick evaluation of these returned tools to determine which can and can not be reconditioned. Do not waste time on tools and equipment that should be sent back to the fire cache for repair or disposal.

Laying Out the Tool and Equipment Work Area.

The location of the tool and equipment work area already may have been decided when you are assigned to the incident. Otherwise your job upon arrival will be to determine and lay out your work area in cooperation with other functions of the logistics section.

Safety is of primary importance. Personnel who are working with power tools need sufficient lighting to eliminate potential accidents. Commercial power, if available, is preferable. Otherwise portable generators are needed to operate maintenance tools and provide adequate lighting.

Establish a security barrier around your work area to prevent theft. Stack sleeping bag cartons or other large storage containers around the perimeter, with the smaller, more sensitive tools and equipment placed inside. Fences, tape and rope may also be used.



Maintaining Tools and Equipment

Hand tools and equipment must be maintained and any unserviceable tools must be repaired or returned to the cache. Inspection of tools by the tool and equipment specialist is of utmost importance in providing worker safety and accomplishing the objectives of the incident. You must carefully look at the following indicators when inspecting for serviceability:

Cutting (Pulaskis, Axes, and Brush Hooks)

Handles:

- looseness
- wedges
- cracks
- splinters
- smoothness

Heads:

- cracks
- wear
- sharpness

Scraping (Shovels, McLeods, Cal Barron Tool, Hazel-Hoe)

Handles:

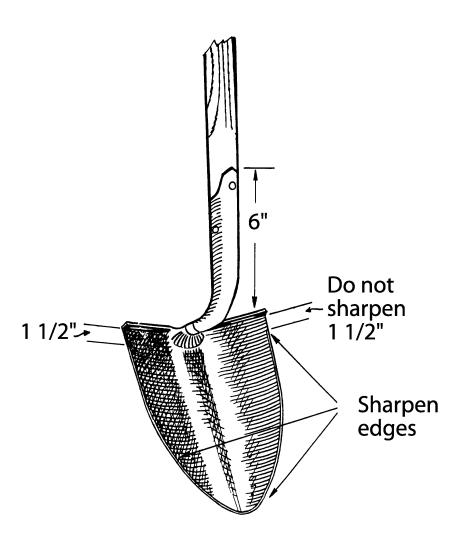
- looseness
- wedges
- cracks
- splinters
- smoothness

Heads:

- cracks
- wear
- sharpness
- rivets

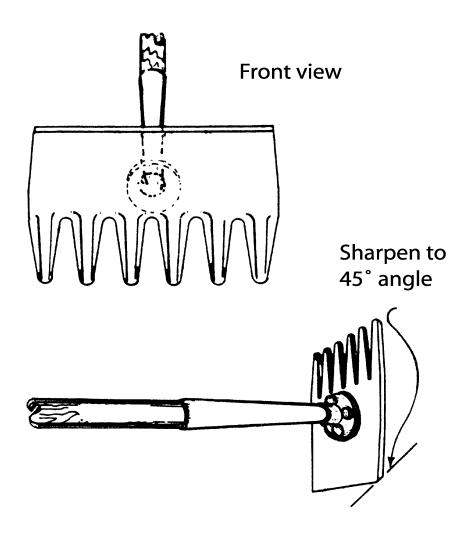
SHOVEL

Each edge of the shovel is sharpened from the point to approximately 1 1/2 inches from the top of the blade, the bevel being on the inner face of the blade.



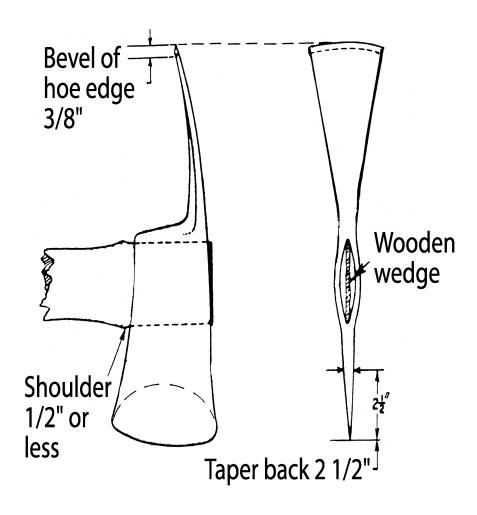
MCLEOD

Grind the hoe so there is a good cutting edge on the inside face. Bevel is on the outside of the blade, away from the handle.



PULASKI

Ax bit to be ground with an even taper back from the cutting edge at least 2 1/2 inches. Hoe side ground to a good cutting edge, the bevel to be approximately 3/8 inch deep on the inside of the blade; that is, on the side facing the handle.



Tools not meeting standards during the incident will be separated from other tools. They will be clearly marked unserviceable so they will not be inadvertently reissued. Serviceable tools will be reconditioned for each operational period. You may need to help your tool attendants assemble the tools for issuance.

All tool sharpening, servicing and repair must be done to insure that appropriate safety measures are taken while tools are being reconditioned. This includes the following practices:

Power grinder

- Place power cords in safe location.
- Ground power tools.
- Wear goggles and other face protection.
- Wear hearing protection.
- Wear gloves.
- Wear special aprons.
- Use proper tool jigs.
- Hand sharpening
 - Wear gloves.
 - Clamp tools firmly.
 - Use file handles and guards.
- All tools ready for issue should have sheaths/guards attached (taping sharp edges is adequate).

Other types of tools used in wildland fire fighting and other types of incidents, e.g., hazardous materials spills, earthquakes, and floods, can place different demands on the tool and equipment specialist. The tool and equipment specialist may have to have training to deal with the specialized tools and equipment required for abating those incidents.

These specialized equipment operations can fall under the tool and equipment specialist's responsibility and they should be prepared to deal with those needs based on their local requirements.

- J. Brief Subordinate(s) and Relief Personnel.
 - Initial staff briefing
 - Daily briefing(s)
 - New personnel
 - Special problems, e.g., injuries.
 - Changes of policy and operating procedures.
 - Upcoming operational needs,
 e.g., burnout, base/camps.
 - Outstanding orders
 - Canceled orders
 - Schedule changes
 - Safety concerns, e.g., work/rest compliance, nutrition, work environment.
 - Current situation and outlook

- K. Interact and Coordinate with Appropriate Incident Personnel.
 - Establish and maintain positive interpersonal and interagency working relationships.
 - Establish and maintain communication with other unit leaders and staff.
 - Recognize conflict early and take appropriate action, e.g., seek the advice of the logistics section chief (LSC), SUPL, or human resource specialist (HRSP).
 - Recognize cultural language difficulties that impact work output and expectations.
 - Integrate cultural resource considerations into all activities.
- L. Prepare and Submit Reports as Required by the SUPL.
 - Submit Crew Time Reports daily
 - Prepare ICS 214, Unit Log.
 - Events that occur in the receiving/ distribution unit.
 - List of the RCDM's staff.
 - Difficulties meeting time frames.
 - Policy guideline changes
 - Problems encountered and the actions taken.

 Submit documents in a timely manner to meet deadlines and/or incident requirements.

See Appendix D, ICS 214, Unit Log example.

M. Evaluate Performance of Subordinate(s) as Required by Agency Policy.

Performance evaluations are done for all unit personnel/crews prior to their release from the incident. Performance evaluations are discussed with the individual(s).

- N. Identify and Release Excess Resources and Supplies.
 - Return excess or used supplies to the cache whenever possible, utilizing backhaul in delivery vehicles.
 - Prepare waybills or shipping invoices (include NFES number and correct unit of issue) for all supplies returned.
 - Utilize original packing boxes whenever possible.
 - Avoid direct contact with filament tape on items to be shipped.
 - All hose should be returned rolled up.

- Utilize cargo sealed tags on load when waybills are completed.
 Place tag numbers on waybill.
- Advise supply unit leader of excess material for return to vendor (retrograde).

IV. DEMOBILIZATION

Demobilization and Check-out.

Keep in mind that demobilization starts when the incident starts.

- Final demobilization process
 - A Cache Demobilization Specialist (CDSP) and a 5 ton cache van is recommended to assist/expedite the return of supplies and equipment to the National Interagency Support Cache (NISC).
 - Assure the return of all issued supplies and equipment before signing the ICS 221, Demobilization Checkout for incident personnel.
 - Coordinate with ORDM on cancellations of unfilled orders no longer needed.
 - Identify excess assigned personnel for inclusion in the demobilization plan.

- Contact NISC (or receiving unit)
 regarding critical shortages to
 determine if these shortages can
 be accommodated through your
 unit demobilization.
- Accountable property is generally in short supply and should be returned to NISC (or agency) as soon as the incident is over.
 Provide "property numbers" of accountable property on shipping and return documents (use separate waybill for accountable property).
- Notify receiving agency and give estimated time of arrival (ETA) of items that will be returned to their destination (assure that this is done for every load returned).
- Ensure all fuel cans, containers and fuel tanks are emptied and purged prior to shipping.
- Assure hazardous materials are properly documented and are shipped in accordance with Department of Transportation Regulations (49 CFR part 172). If you don't know how this is accomplished ask either the SUPL or NISC.

- Load hazardous material last so that it is easily inspected at Department of Transportation check stations.
- Turn all receiving and distribution records over to the SUPL.
- Return all work materials to the originating supplier.
- Return your area to its pre-incident condition.
- Demobilization of receiving and distribution personnel
 - Submit all required information to the SUPL.
 - Receive demobilization instructions from SUPL.
 - Brief replacement RCDM.
 - Obtain ICS 221, Demobilization Checkout from the planning section.
 - Check out with each section indicated on the ICS 221.
 - Submit completed ICS 221 to the documentation unit in the planning section.

APPENDIX A

Check-out Authority, Example

Item:	Check-ou	Check-out Authority						
	Crew Boss	Individual	Saw	EMT/Medical	Safety	Division	Air Ops	Unit
			Team or		Officer	Group	Helibase	Leaders
			Sawyers			Supervisor	Mgr.	
	×	Replacement						
Sleeping Bag, Grey		Only						
Pad, Headlamp, Hard								
Hat, Fire Shetter,			ş	ş	ş	ì	ş	ş
Goggles, Canteen,								
Pants, Shirts, Gloves, Tools								
Tents Lanterns								Facilities
Heaters, Propane	ì	ş	ş	ş	è	ì	ş	Setup
		×						
Flashlight, Batteries,								
Ribbon, 1 Person	ì		ì	è	è	ì	ì	2
First Aid Kits								
10 Person First Aid	×	i	i	×	i	i	i	i
Kit			2		2	2	2	è
ChainsawItems	è		×	24	ž	2	ż	è
Wrap Around Safety		i		i	×	i	i	
Glasses	ŧ	ŧ	ŧ	è		ŧ	è	è
Fireline Equipment- 1						×		
1/2" Hose, Mark III								
pumps, Fusees, Fuel,	ì	è	ì	ş	ş		ì	ş
Light Sticks, MREs,								
etc.								
Air Support Items	ş		ş	5	ş	ş	×	ş
Support Items	ş	2	~	2	è	è	ş	×

APPENDIX B ICS 213, GENERAL MESSAGE

#U8.0PC10924790401

TO: Chamber
Smith
Smith
Survey Order of supplies

I need the following items for the day operational period, by 0600, 8/20

I ea. pump kit, NFES 0670

5 ea. reducers 1" x 3/4", NFES 0733

5 ea. wye 3/4", NFES 0739

5 ea. reducer 1 1/2" x 1", NFES 0010

5 ea. nozzle 3/4" NFES 0136

10 LG Hose, garden, NFES 1016

5 LG Hose, 1", NFES 0966

5 LG Hose, 1 1/2", NFES 0114

SEMMATURE POSITION

DATE TIME SIGNATURE POSITION

PERSON RECEIVING GENERAL MESSAGE KEEP THIS COPY

(SENDER:) REMOVE THIS COPY, FOR YOUR FILES

213 ICS 1/79 NFES 1336

APPENDIX C Mix Ratio Chart

	2 Cycle Oil to gas	2 Cycle Oil to gas for chainsaws and pumps	sdmnd pr
	Chainsaw		Mark III Pump
Ratio	2-Cycle Oil	Gas	Ratio
16:1	1 QT. (32 oz.)	4 Gal	16:1
32:1	1/2 QT. (16 oz.)	4 Gal	
32:I Instruction on can	Example: 1 Can	1 Gal	
40:I Instruction on can			
50:I Instruction on can	Read the can, instruct	Read the can, instructions differ according to brand of oil	brand of oil
	Drip Torch		
Ratio	Diesel	Gas	
3:1	3 parts	1 part	
	Example: 3 gallons diesel, 1 gallon gas	iesel, 1 gallon gas	
Note: Label and da	Note: Label and date all fuel containers		

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APPENDIX D ICS 214, Unit Log, Example

	UNIT LOG	1. INCIDENT NAME	2. DATE 3. TIME PREPARED PREPARE	D
		Biscuit	08/20 1800	
4. UNIT NAME/DE	I	JNIT LEADER (NAME AND POSITION)		
Receiving an	d Distribution [Smith, RCDM 0600-1800		
7.		PERSONNEL ROSTER ASSIGNED	1	
	NAME	ICS POSITION	HOME BASE	
J. Jones		CAMP	OR-PVT	
D. Paul		CAMP	OR-PVT	
S. Williams		CAMP	OR-PVT	
L. Burke		EDRC	OR-FRF	
S. Shultz		TESP	CA-MDF	
8.		ACTIVITY LOG (CONTINUE ON REVE	RSE)	
TIME		MAJOR EVENTS		
0600			t, and dispatch recorder. This	
	brief included a tail-gate safety session.			
0736	Received shipment of items from the cache. Prepared and loaded excess			
	items for back haul to cache.			
0800	Relocated tool sharpening area away from the check-out point.			
0910			n this evening. Prepared fuel m	nix
	for this project.			
1100	Reviewed orde			
1300		ly order from Division B.	Processed order and delivered	to
	Drop Point 3.			
1400			efed R & D personnel of this eve	ent.
1800	Shift brief with	incoming RCDM for nigh	t shift.	

NFES 1337

APPENDIX E 24-HOUR CLOCK

12	Hour	24 Hour	Pronounced
1	AM	0100	——— Zero-one hundred
2	AM	0200	Zero-two hundred
3	AM	0300	———Zero-three hundred
4	AM	0400	——— Zero-four hundred
5	AM	0500	———Zero-five hundred
6	AM	0600	——Zero-six hundred
7	AM	0700	—— Zero-seven hundred
8	AM	0800	———Zero-eight hundred
9	AM	0900	——— Zero-nine hundred
10	AM	1000	——— ten hundred
11	AM	1100	——— eleven hundred
12	NOON —	1200	——— twelve hundred
1	PM	1300	——— thirteen hundred
2	PM	1400	——— fourteen hundred
3	PM	1500	——— fifteen hundred
4	PM	1600	——— sixteen hundred
5	PM	1700	seventeen hundred
6	PM	1800	eighteen hundred
7	PM	1900	——— nineteen hundred
8	PM	2000	——— twenty hundred
9	PM	2100	twenty-one hundred
10	PM	2200	twenty-two hundred
11	PM	2300	twenty-three hundred
12	Midnight-	2400	twenty-four hundred

To get 24 hour time, notice that you add 12 to the PM time to get the first two numbers of the hour, i.e., 8 PM is twenty hundred (8+12=20).

APPENDIX F

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

\$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.

Air **Modular Unit** (ATMU)

A weather data collection and Transportable forecasting facility consisting of seven modules, weighing a total of 355 pounds and occupying 34.2 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 an ignition device such as 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).

Bearing Position of an object with

reference to a point on a

compass.

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)

BDU Battle Dress Uniform; Fire

resistant pants

Black Water/

Vehicle capable of pumping and **Sewage Truck** hauling raw sewage (black water) 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.

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, 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 The time at "0" longitude,

Mean Greenwich, England (Zulu time).
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 designated.

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.

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 disasters)

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 Overhead

All supervisory positions 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

Iron Pipe Standard Thread

Diameter

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.

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 fires

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 specialty 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.

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 non-automotive 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

(3/4 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 Order Form used by dispatchers, 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

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 Minimum levels of supplies kept

Levels 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

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.)

NOTES