



How to get Help

How to Ask for Help

Request Script

Request Notes

People Who Will Help You

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How to Make the Request for Mutual Aid

How to Request Mutual Aid When You Need Help

- 1. Make your request directly** to the person or organization from whom you are requesting mutual aid (see names and contact numbers on Page 7 of this document). If you do not know who to ask for mutual aid, see #2 below.

- 2. Contact the Lewis and Clark County Fire Coordinator at the numbers below:**

If you need support for any part of the Montana Fire Service Mutual Aid process, including a request for mutual aid, contact the Lewis and Clark County Fire Coordinator at the numbers below:

Lewis and Clark County Fire Coordinator at:

Lewis & Clark Co. 911 Center 447-8293, 442-7883, 447-8461

or:

Dave Mason (Baxendale FD) 461-0570 c, 431-2448 c,
443-7700 h, 441-0821 p

Ken Mergenthaler (Eastgate FD) 431-2450 c, 227-8503 h,
441-0691 p

Jerry Shepherd (West Valley FD) 431-3833 c, 443-5071 h,
441-0631

Bob Drake (Tri Lakes FD) 431-3600 c, 441-0681 p,
475-3298 h

If you are not sure how to proceed, see #3 below.

- 3. Call anyone on the list of “People Who Will Help You” on the next page.**

If you need support for anything regarding Montana Fire Service Mutual Aid, call anyone on the list of “People Who Will Help You” on **page 7**.

Montana Fire Service Mutual Aid Contacts Request Script

Say the following things:

1. "This is an emergency."
2. "This is _____
(your name, FD, and role or rank)."
3. "I have a _____
(structure fire, wildland fire, or rescue) emergency."
4. "I am requesting Mutual Aid from _____
(contact's name)."
5. "Please contact _____
(list all contact names) by pager."
6. "Have _____ (contact names)
call me at _____ (your call back number)."
List multiple people and multiple numbers.
7. "If you can't reach _____
(contacts) within 10 minutes, please call me back."
8. "Thank You."

Montana Fire Service Mutual Aid Contacts Request Notes

1. Who is asking for help?

Name(s):

Call back numbers (including 911 Center, any BOO #s,
other contact info):

Organization:

Role or rank:

Requesting Mutual Aid

2. What is the problem there?

C. A. N. report from incident:
(Structure fire, Wildland Fire, Rescue, other)

3. What help is being asked for? For how long will the help
be needed?
4. Where should we stage? Who/How contact once
staged? (Comm)?

People Who Will Help You

Lewis & Clark County Fire Coordinator at:
Lewis & Clark Co. 911 Ctr 447-8293, 442-7883, 447-8461
Dave Mason (Baxendale FD) C 461-0570, 431-2448, H 443-7700
Ken Mergenthaler (Eastgate FD) C 431-2450, H 227-8503
Jerry Shepherd (West Valley FD) C 431-3833, H 443-5071
Bob Drake (Tri Lakes FD) c 431-3600
Fred Cady (Fort Ellis) c 580-2582, 522-5863
Rich Cowger - (c 321-1180) or @ Stillwater Co 911 @322-5326
Butch Weedon w 771-4328 Cell 788-0222
Steve Hester - C 781-8949, H 761-3307
Terry Larson Cell 670-8858
John Culbertson - Cell 581-2873, W 388-4480, H 585-1296
Tom McIsaac c 696-0571
Tom Kuntz(Red Lodge FD, 406-855-6198) @ Carbon Co911 Center
@ 446-1234
Steve Harada - 911 Ctr in Wolf Pt 653-6240 - W 768-5476, Hm
653-1463, Cell 868-1178
Gordon Gieser - w 549-3601, c 546-8844, h 822-8844
Gary Mahugh (Creston FD) – Hm 755-9535, Work/cell752-0163
Bill Rash (Lockwood FD) – Work 252-1460, c. 855-0400
Jim Mastin - Cell 223-9461, home 1-757-495-3366
Bob Fry (AAGG) w – 224-2999
Steve Larson (Helena FD) - C 431-7665, W 447-8472
Britton Gray - c 581-2580, Disp. 307-344-2535, h 307-344-9006
Brian Crandell - p 522-5710, or aps@bigsky.net, h 585-1103
Mike Doto – cell 491-9308, home 782-9308
Jason Revisky - c 580-9473, 24 hr Command Duty 599-4204
Jane Ellis - home 777-3304
Scott Waldron – West Yellowstone Dispatch 646-7600, c 640-1033
Jason Jarrett - c/p 580-1838
Leonard Lundby – h 727-5968, c 899-8873, Cas. Co 911 454-6979
Brian Nelson – Wibaux FD – c 701-218-0267 or 701-872-6648, h,
406-795-2605, 911 Center -795-2222
Ed Burlingame – c. 249-0745, h. 387-4582
Bob Burlingame – 703-999-6488, 571-641-0702
Craig Jeppson – c. 498-5444
Craig Hansen (Chinook FD) – c 945-3834
Rodney Dresbach (Flathead-West Valley) c 406-253-0208
Frank Maradeo (Missoula Co) Missoula Co Disp 406-258-4760
Scott Marsh c 660-1641
Brad Lord c 880-8882
Doug Lobaugh C 750 6046
Nate Curtis c-788-9339
NRC 1-800-424-8802 MT DES 841-3911
CHEM-TREC 1-800-424-9300 Poison Cntrl 1-800-525-5042



Montana Mutual Aid Concept

*Montana Mutual Aid Mission Statement &
Concept*

*MMA Procedures: How Montana Mutual
Aid Works*

“Mayday” Procedure



Counties That Will Help You

Etiquette

Responding Command Staff Notes

Pre-Response Check List



Montana Mutual Aid Mission Statement

“We are committed to a timely and measured response to a request for help”.

Concept

Yes, you can ask for help from another fire department (or other organization) without having a written mutual aid agreement in place. See the sections of Montana Code Annotated.

It makes sense to have things in place before the big one. Start local, with your neighbours. Work from there.

Meet and greet long before you call for help. MMA meeting have been a good place to meet and greet.(see dates on cover).

You can ask for Command help (Friend-O-Command, Command Psychic Friends Network, Command Helpers, Command Staff, others), as well as fire trucks and fire fighters (and anything else you need).

There are many options for people to call for help and people who will help you navigate the Montana Mutual Aid process.(see page 7, People Who Will Help You)

It is helpful to have response plans in place before you have the need for them. “There are times when making it up as you go ain’t the best choice”.

Response plans can include Mutual Aid Run Cards, Maps, Commo Plans, Phone Lists, Logistics Lists, others. See Lewis and Clark County folks, Flathead County folks, Law Enforcement folks, EMS folks, Hospital folks, Public Health folks, Emergency Management folks, others.



The more people in your organization that know how to use Montana Mutual Aid, the better the chance your requests for help will go smoother.

“If you want to get, you gotta give”.

Take a look at your own stuff. Make an assessment of what you can give. Staying home and covering for people who have responded to a MMA request is, in fact, just as righteous as going. Sometimes, all you can give is coverage at home.

Procedures - How Montana Mutual Aid Works

24 Hour Request/Contact Procedures and Time lines:

The initial contact shall be made to a 24 hour communications center capable of generating a callback to the requesting party within 15 minutes. An answer confirming or denying the request must be given within 30 minutes of the request to an available phone number. Responding agencies should attempt to be responding within 60 minutes of the initial contact. All responding agencies may replace crews as often as necessary to maintain the capability of the resource for the duration of the commitment.

Standard Deployment Increments/Operational Periods:

The standard deployment increments for apparatus and personnel are 12 and 24 hours from time of request to time of return home. The standard deployment increments for management staff are 24 and 48 hours from time of request to time of return home. Requests for apparatus, personnel and management staff are renewable by the requesting agency. The standard minimum operational period will be 8 hours. Task Forces are expected to stay intact.

Who Pays What Costs:

A requesting agency shall provide fuel and reasonable welfare items for responding agencies. However, responding agencies may elect not to be reimbursed.



Insurance Coverages/Liabilities:

Each responding agency shall be responsible for insurance on their people, their equipment, and their actions.

Equipment Breakdown Costs:

As a minimum, responding agencies shall be responsible for their own equipment costs. The Requesting agency may reimburse all or part of equipment breakdown costs.

Logistical Support:

Responding agencies should be self-sufficient. Motor fuel and oil will be the responsibility of the requesting agency. Responding resources should send and use what they can afford to give. Transitions if a Declaration is made or a responsible party is identified: In the event a funding source becomes available either through a declaration or responsible party, responding agencies may be compensated from the time of deployment.

Upon Release from a Montana Mutual Aid Request:

Upon release from a mutual aid request, Fire Departments may enter into other arrangements. The original requesting agency is not expected to facilitate other arrangements.

Management System:

The requesting agency will identify and operate under some incident management system.

Accountability: The Incident Commander shall be responsible for the complete, written check-in, tracking of activity, location, and time (for the duration of their deployment) and demobilization of every unit deployed to their incident.





Risk Management Plan:

The following Risk Management Plan is applicable to all Fire Departments when ever they are deployed to a mutual aid incident when no mutual aid agreement exists between the requesting and responding fire department[s]:

The Incident Commander or Task Force Management Staff for mutual aid Task Force deployments (here after, Incident Commander) will integrate risk management onto the regular functions of Incident Management.

The basic risk analysis plan shall be based on the following approach:

1. Response is initiated on the assumption that lives and property can be protected from imminent danger
2. Firefighter will risk their lives a lot (calculated, significant) to protect savable lives.
3. Firefighters will risk their lives a little (calculated, significant) to protect savable property.
4. No risk to Firefighters will be allowed to protect lives or property that are already lost.

The Incident Commander shall weigh the risk to firefighter against the possible results of their actions. There are situations, including but not limited to situations where violent reactions endanger operations or rescue incidents where there is no possibility of victim survival, where the risk to firefighters is unacceptable and a decision to take “No Offensive Action” shall be permitted to be the appropriate decision. Firefighter safety and survival shall be the major consideration when conducting offensive and/or defensive operations.

In evaluating risk, the Incident Commander shall consider the following as the basis of the decision:

1. Risk Management based operations
2. Standard Conditions
3. Standard Operating Procedures
4. Fully Trained Operating Crews
5. Fully Protected Firefighters



6. Quickly Established and Visible Command
7. Safety Monitors & Tactical Reserve (On Deck-RIC)
8. Early and ongoing Incident Evaluation
9. Pessimistic evaluation of, and reaction to, changes
10. “Experience Bank” review and critique

Standard risk management shall be the regular on-going basis for all Firefighters in the incident management system to understand where Firefighters will be, where Firefighters will not be, what Firefighters will be doing and what Firefighter will not be doing at the incident scene.

At large incidents and special operation incidents, the Incident Commander shall assign a Safety Officer position to a qualified person with the specific responsibility to identify and evaluate hazards and to provide direction with respect to the safety of operations.

No risk or incident need shall justify deviation from this standard.

“Mayday!” Procedure

Lost, Trapped or Missing Fire Fighter

Mayday

The radio message “Mayday” will be used by fire fighters to report their status as being lost, trapped, or injured and needing rescue. Any member may use “Mayday” to report a lost fire fighter. Any report of “Mayday” will receive priority radio traffic.

The term “Mayday” will be reserved ONLY to report a lost, trapped, or injured fire fighter(s). The term “emergency traffic” will be used to report all other emergencies.

On Deck / Rapid Intervention

The IC must have ready an equipped, incident knowledgeable, “On-Deck” team ready to deploy. At a minimum, the IC should brief the team about the incident strategy, tactics, risks, crew location and communications plan. The “On-Deck” team must be a component of the IC’s incident plan.

Montana Fire Service Mutual Aid Contacts (Counties)

Beaverhead Co. – BDH Co 911 @ 683-3700, Scott Marsh c 660-5051, w 683-3757, h 683-5326, Rick Later c 660-0332, w 683-5051, h 683-4808
Blaine Co. Kraig Hansen, Blaine Co 911 357-3260, or cell 945-3834
Butte Silver Bow Co. – BSB 911 #782-4224, Mike Doto (c 491-9308, h 782-9308), Mike Leary (c 498-3707, h 494-3615)
Broadwater Co. – Pg Ed Shindoll, c 949-5535, 266-4425, or Chuck Plymale @ Broadwater Co. 911 Center #266-3441
Carbon Co. – Pg Tom Kuntz (cell 855-6198), @ CC 911 #446-1234
Cascade Co. –Pg Leonard Lundby, Chief Weedon, or Nate Curtis, 911 #454-6979
Dawson Co. - Pg Tim Mort or Richie Chrisafulli, DC 911– 377-2364
Flathead Co. – Pg Creston Duty Officer @ FC 911 #758-5610
Gallatin Co. – Pg Amsterdam or Big Sky Duty Command Officer Management Staff @ GC 911 @ 582-2100, ex. 2 or 582-2124
Glacier Co. - Pg Joe Wippert (Browning FD) 338-5000(24 hr PSAP), cell 868-8621, work 338-2952, Lyle Rutherford 868-8621
Jefferson Co. – Pg Montana City Chief – Rick Abraham or Montana City Duty Officer @ Jeff Co 911 #225-4266 or #225-4075
Lake Co. – John Fairchild cell 212-0042 or pg @ LC 911 883-7301
Lewis & Clark Co. – Pg Mason, Mergenthaler, Shepard, Wegner, Drake or Duty Fire Coord. @ L&C 911 447-8293/442-7883/447-8461
Lewistown FD - Page Jason Manley @ LFD, FC 911 Ctr #538-3413
Madison Co. – Pg MVFD Fire Chief Sean Christensen @ MC 911 #843-5301, c 570-6741, d 682-4748, h 682-7864, Station 682-3311
Missoula Co.– Frank Maradeo @ Msla Co 911 # 523-4760 or 258-4760
Park Co. – call Park County 911 # 222-2050
Phillips Co. – 911 Center 654-1211, Malta FC Michael Flatt, 673-3252
Ravalli Co. – Pg Bill Perrin (hm 777-3937) or Three Mile FD Chief – Russ Giese hm 777-2749, cell 880-2749 or RC 911 @363-3033
Richland Co. - Richland Co. 911 # Dispatch Center 433-2919, pls page Chief-Ken Volk c480-2327 home 488-5029 and or Deputy Rural Chief-Rob Gilbert c 489-2763 office 433-1122 h 488-1486
Roosevelt Co. - Steve Harada - 24 hr 911 Ctr Wolf Point 653-6240 W 768-3622, H 653-1463, C 868-1178, Doug Hopson AC–650-8022
Sanders Co – Randy Woods, Hot Springs 741-2325w, 741-2472h
Stillwater Co. – Pg Rich Cowger (c 321-1180) @ SCo 911 #322-5326
Valley Co. - Valley Co. Long Run- Bob Hanson- 263-5733, 228-4333
Yellowstone Co. – Derek Yeager, Laurel Fire, c 672-5182, Bill Rash (Lockwood) 252-1460, c. 855-0400

Guest-Host Etiquette - General

(by Fire Chief Jane Ellis(ret.), Stevi Fire)

INVITATION

Guest: Get an invitation. Standing invitations are acceptable and encouraged

Host: Extend invitations thoughtfully.

CHECK-IN/OUT

Guest: Connect as soon as possible with the host system. Some communication en route is helpful. Check-in formally when you arrive on scene. Check out as you leave.

Host: Have a clear way to receive incoming resources. Designate check-in frequency and staging area. A cell contact for en route resources is helpful. Have a demob plan and check-out available as soon as possible in case someone needs to leave suddenly. Make check-out easy.

BRIEFING

Guest: Accept the plan of the host. Let the host know as soon as possible if you need something you don't have in order to complete your assignment.

Host: Have a plan, and communicate it clearly and fully. Provide maps and a comm plan as a minimum. Provide a complete written plan as soon as possible.

MANNERS

Guest: Be nice. Make suggestions politely, but keep working while you're talking. Play your role. If you have an issue talk to the host, not everyone else.

Host: Be nice. Know what you want. Listen to suggestions. Evaluate suggestions quickly and implement, modify or discard.

SAFETY

Guest: Operate safely or, please stay home.

Host: Have a safety system in place or build a safety system with the first capable people to arrive.

RESPECT THE WORK

Guest: Come to work. Be good at the work you represent yourself as capable of doing. Do not disqualify the work because of your qualifications. It all needs to get done.

Host: Know what work you want done. Have everyone work inside the Risk Management Plan. Manage the work and the responders. Ask yourself, "Am I capable of managing this incident?" If the answer is "No", get command help coming early.

LOGISTICS

Guest: Bring your own stuff to support your work and your basic needs while you are at the incident.

Host: Provide as much logistical support as you can.

UNDERSTANDING

Guest: Show up, listen, learn and help out. Be understanding.

Host: Listen and learn from responders. Be easy to help. Be understanding.

TRANSLATING

Guest: Come prepared to translate. Work using the host's terms.

Host: Be ready to translate from host to guest, and between guests.

APPRECIATION

Guest: Appreciate the opportunity to serve.

Host: Appreciate the assistance you receive.

Guest-Host Etiquette – Command Staff**BE CONSIDERATE**

Guest: Be considerate of the conditions under which the hosting Chief is operating.

Host: Be cognizant of what the responder is giving up to come and help.

SITUATION

Guest: Recognize the hosting entity and understand their situation.

Host: Understand your situation and explain it succinctly.

LISTEN

Guest: Listen a lot. Help quietly.

Host: Know what you want, ask for it. Listen for feedback.

ASSIGNMENTS

Guest: Accept whatever assignment you are given and capable of. Don't bitch about being assigned a task or position that might not be your favorite role.

Host: Accommodate the strengths and preferences of guests where/when you can.

PUBLIC INFO

Guest: Don't talk to the media (or anyone else for that matter) unless the host specifically asks you to.

Host: Make clear who the PIO is. Ask media to work through that person.

FRIENDS DON'T LET FRIENDS

Guest: Friends don't let friends run incidents what they are too tired to be effective. If you have to deliver this news, do so in private.

Host: Manage yourself. Take a hard look in the mirror. Listen when you are so tired you can't. Don't wreck your support system.

INTERPERSONAL

Guest: You have an absolute obligation to get along with whomever else the host has asked to come and help. Manage your past, present and future. If you can't go along with the host, ask the host for a note allowing you to leave. Try to find your own replacement if you select yourself out of the response.

Host: Try not to invite mortal enemies. If you need the enemies, brief them privately, tell them you need them both and you need them to cooperate. Ask them not to make things any harder for you than they already are.

DEMOB

Guest: Leave when its time. If you can't tell when it's time, ask.

Host: Don't keep anyone longer than you need to. Be sensitive to signs that people want to go home.

Pre-Response Trip Checklist

- Invitation - Get one.
Standing, pre-arranged invites are good.
Note: (consequence for arriving without an invitation may include: Ex-Lax, ex-communication, execution, execution w/prejudice, execution w/extreme prejudice)
- Warm, dry work clothes
- Personnel roster list
- Food, water and required meds for responders
- Shelter, sleeping bag
- Hygiene stuff-toothbrush, chem toilets, hand soap, dish soap, etc
- PPE & SCBA
- Radios and batteries and chargers
- Cell and sat phones and batteries and chargers
- Flashlights - all shapes and sizes, and batteries, lots
- Batteries for everything (lots)
- Tools - hand, power, extrication
- Compressed air
- Generator, lights, cords
- Thermal imagers, 4 gas meters
- Fuel and oil, spare parts
- A developed plan for rotation of personnel, shared with host
- Other _____
- Bonus points for bringing enough to share.

Notes:

Montana Enabling Legislation

7-33-2108. Mutual aid agreements -- request if no agreement exists -- definitions.

1. A mutual aid agreement is an agreement for protection against natural disasters, incidents, or emergencies or disasters, incidents, or emergencies caused by persons.
2. Fire district trustees may enter mutual aid agreements with the proper authority of:
 - a. other fire districts;
 - b. unincorporated municipalities;
 - c. incorporated municipalities;
 - d. state agencies;
 - e. private fire prevention agencies;
 - f. federal agencies;
 - g. fire service areas; and
 - h. governing bodies of other political subdivisions.
3. If the fire district trustees have not concluded a mutual aid agreement, then the trustees, a representative of the trustees, or an incident commander may request assistance pursuant to 10-3-209.
4. As used in this section, “incidents”, “disasters”, or “emergencies” has the meaning ascribed to the term in 10-3-103.

History: En. Sec. 1, Ch. 107, L. 1911; amd. Sec. 1, Ch. 19, L. 1921; re-en. Sec. 5149, R.C.M. 1921; amd. Sec. 1, Ch. 130, L. 1925; re-en. Sec. 5149, R.C.M. 1935; amd. Sec. 3, Ch. 97, L. 1947; amd. Sec. 2, Ch. 75, L. 1953; amd. Sec. 2, Ch. 77, L. 1959; amd. Sec. 1, Ch. 118, L. 1959; amd. Sec. 1, Ch. 2, L. 1965; amd. Sec. 1, Ch. 333, L. 1969; amd. Sec. 1, Ch. 120, L. 1973; R.C.M. 1947, 11-2010(d); amd. Sec. 2, Ch. 149, L. 1993; amd. Sec. 1, Ch. 46, L. 1997.

7-33-2405. Mutual aid agreements -- request if no agreement exists -- definitions.

1. A mutual aid agreement is an agreement for protection against natural disasters, incidents, or emergencies or disasters, incidents, or emergencies caused by persons.
2. The governing body of a fire service area may enter mutual aid agreements with the proper authority of:
 - a. other fire service areas;
 - b. unincorporated municipalities;
 - c. incorporated municipalities;
 - d. state agencies;
 - e. private fire prevention agencies;
 - f. federal agencies;
 - g. fire districts; and
 - h. governing bodies of other political subdivisions.



3. If the governing body of a fire service area has not concluded a mutual aid agreement, the governing body, a representative of the governing body, or an incident commander may request assistance pursuant to 10-3-209.
4. As used in this section, “incidents”, “disasters”, or emergencies” has the meaning ascribed to the term in 10-3-103.

History: En. Sec. 1, Ch. 149, L. 1993; amd. Sec. 5, Ch. 46, L. 1997.

7-33-4112. Mutual aid agreements -- request if no agreement exists -- definitions.

1. A mutual aid agreement is an agreement for protection against natural disasters, incidents, or emergencies or disasters, incidents, or emergencies caused by persons.
2. Councils or commissions of incorporated municipalities may enter mutual aid agreements with the proper authority of:
 - a. other incorporated municipalities;
 - b. fire districts;
 - c. unincorporated municipalities;
 - d. state agencies;
 - e. private fire prevention agencies;
 - f. federal agencies;
 - g. fire service areas; or
 - h. the governing body of other political subdivisions.
3. If the council or commission has not concluded a mutual aid agreement, the council or commission, a representative of the council or commission, or an incident commander may request assistance pursuant to 10-3-209.
4. As used in this section, “incidents”, “disasters”, or emergencies” has the meaning ascribed to the term in 10-3-103.

History: En. Sec. 1, p. 73, L. 1899; re-en. Sec. 3326, Rev. C. 1907; re-en. Sec. 5109, R.C.M. 1921; re-en. Sec. 5109, R.C.M. 1935; amd. Sec. 1, Ch. 4, L. 1937; amd. Sec. 1, Ch. 97, L. 1947; amd. Sec. 1, Ch. 151, L. 1947; amd. Sec. 1, Ch. 73, L. 1949; amd. Sec. 3, Ch. 2, L. 1965; R.C.M. 1947, 11-1901(b); amd. Sec. 3, Ch. 149, L. 1993; amd. Sec. 6, Ch. 46, L. 1997.

7-33-2202. Functions of county governing body. The county governing body, with respect to rural fire control, shall carry out the specific authorities and duties imposed in this section:

1. The governing body shall:
 - a. provide for the organization of volunteer rural fire control crews; and
 - b. provide for the formation of county volunteer fire companies.
2. The governing body shall appoint a county rural fire chief and such district rural fire chiefs, subject to the direction and supervision of the county rural fire chief, as it considers necessary.





3. The county governing body shall, within the limitations of 7-33-2205 through 7-33-2209, protect the range, farm, and forest lands within the county from fire.
4. The county governing body may enter into mutual aid agreements for itself and for county volunteer fire companies with:
 - a. other fire districts;
 - b. unincorporated municipalities;
 - c. incorporated municipalities;
 - d. state agencies;
 - e. private fire prevention agencies;
 - f. federal agencies;
 - g. fire service areas; or
 - h. governing bodies of other political subdivisions.
5. If the county governing body has not concluded a mutual aid agreement, the county governing body, a representative of the county governing body, or an incident commander may request assistance pursuant to 10-3-209.

History: En. Sec. 2, Ch. 173, L. 1945; amd. Sec. 1, Ch. 229, L. 1973; and. Sec. 13, Ch. 397, L. 1977; R.C.M. 1947, 28-602(part); amd. Sec. 1, Ch. 615, L. 1983; amd. Sec. 2, Ch. 46, L. 1997.

7-33-2313. Powers and duties of chief -- request for assistance -- definitions.

1. The chief of every fire department shall inquire into the cause of every fire occurring in the town in which the chief serves as the chief and shall keep a record of every fire. The chief shall aid in the enforcement of all fire ordinances, examine buildings in the process of erection, report violations of ordinances relating to prevention or extinguishment of fires and, when directed by the proper authorities, institute prosecutions for the violation of those ordinances, and perform other duties as may be imposed upon the chief by proper authority. The chief's compensation, if any, must be fixed and paid by the city or town authorities. The chief shall attend all fires, with the chief's badge of office conspicuously displayed. The chief shall prevent injury to, take charge of, and reserve all property rescued from fires and return it to the owner on the payment of the expenses incurred in saving and keeping it. The amount of the expenses, when not agreed to, must be fixed by a justice of the peace.
2. The chief shall devise and formulate or cause to be devised and formulated a course or plan of instruction or training program making available to each regular member of the chief's department not less than 30 hours of instruction each year in matters pertaining to firefighting. The chief shall supervise the operation of





the training plan or program and maintain training records for each current and former firefighter for the purposes of the public employees' retirement board provided for in 2-15-1009.

3. If the county commissioners, trustees of a fire district, or governing body of a fire service area have not concluded a mutual aid agreement to protect an unincorporated town or village against natural incidents, emergencies, or disasters or incidents, emergencies, or disasters caused by persons, the chief may request assistance pursuant to 10-3-209.
4. As used in this section, "incidents", "disasters", or "emergencies" has the meaning provided in 10-3-103.

History: En. Sec. 3236, Pol. C. 1895; re-en. Sec. 2080, Rev. C. 1907; re-en. Sec. 5147, R.C.M. 1921; re-en. Sec. 5147, R.C.M. 1935; amd. Sec. 6, Ch. 118, L. 1965; amd. Sec. 18, Ch. 157, L. 1977; R.C.M. 1947, 11-2007; amd. Sec. 4, Ch. 46, L. 1997; amd. Sec. 2, Ch. 429, L. 2003.

10-3-209. Political subdivision requests for assistance -- application to fire districts, fire service areas, and fire companies in unincorporated places -- immunity.

1. If an incident, emergency, or disaster occurs in a political subdivision that has not concluded a mutual aid agreement pursuant to 10-3-202, the local or interjurisdictional agency, incident commander, or principal executive officer of the political subdivision may request assistance from another public or private agency.
2. a. The following individuals or entities may request assistance with an incident, emergency, or disaster if a mutual aid agreement has not been concluded for protection of the area within the jurisdiction of these individuals or entities:
 - i. the trustees of a rural fire district created pursuant to Title 7, chapter 33, part 21, a representative of the trustees, or an incident commander for the district;
 - ii. the chief of a rural fire company organized pursuant to 7-33-2311 or an incident commander for the chief;
 - iii. the governing body of a fire service area created pursuant to Title 7, chapter 33, part 24, a representative of the governing body, or an incident commander for the area.
- b. A request for assistance by an individual or entity under subsection (2. a.) may be made to any of the following:
 - i. a fire district;
 - ii. an unincorporated municipality;
 - iii. an incorporated municipality;
 - iv. a state agency;
 - v. a private fire prevention agency;
 - vi. an agency of the federal government;
 - vii. a fire service area; or
 - viii. the governing body of a political subdivision.



3. A public or private agency receiving a request pursuant to subsection (1) or (2) shall determine if it will provide the requested assistance, or will provide other assistance, and shall inform the requesting local or interjurisdictional agency, principal executive officer, incident commander, or other individual or entity making the request, as soon as possible, of that determination. The nature and extent of assistance provided by a public or private agency may be determined only by that public or private agency.
4. The incident commander of the local or interjurisdictional agency making a request for assistance has overall responsibility for command of the resources provided by a public or private agency responding to a request. However, operational control of individual pieces of equipment and personnel furnished by the responding public or private agency remains with that agency.
5. This section does not waive an immunity or limitation on liability applicable to any of the following entities or individuals requesting or receiving assistance pursuant to this section:
 - a. a fire district;
 - b. a fire service area;
 - c. a fire company;
 - d. an unincorporated municipality, town, or village;
 - e. a political subdivision; or
 - f. an agent, employee, representative, or volunteer of an entity listed in this subsection.

History: En. Sec. 8, Ch. 46, L. 1997.

10-3-103. Definitions. As used in parts 1 through 4 of this chapter, the following definitions apply:

1. "Civil defense" means the nuclear preparedness functions and responsibilities of disaster and emergency services.
2. "Department" means the department of military affairs.
3. "Disaster" means the occurrence or imminent threat of widespread or severe damage, injury, or loss of life or property resulting from any natural or artificial cause, including tornadoes, windstorms, snowstorms, wind-driven water, high water, floods, wave action, earthquakes, landslides, mudslides, volcanic action, fires, explosions, air or water contamination requiring emergency action to avert danger or damage, blight, droughts, infestations, riots, sabotage, hostile military or paramilitary action, disruption of state services, accidents involving radiation byproducts or other hazardous materials, bioterrorism, or incidents involving weapons of mass destruction.

4. Disaster and emergency services” means the preparation for and the carrying out of disaster and emergency functions and responsibilities, other than those for which military forces or other state or federal agencies are primarily responsible, to mitigate, prepare for, respond to, and recover from injury and damage resulting from emergencies or disasters.
5. “Division” means the division of disaster and emergency services of the department.
6. “Emergency” means the imminent threat of a disaster causing immediate peril to life or property that timely action can avert or minimize.
7. a. “Incident” means an event or occurrence, caused by either an individual or by natural phenomena, requiring action by disaster and emergency services personnel to prevent or minimize loss of life or damage to property or natural resources. The term includes the imminent threat of an emergency.
b. The term does not include a state of emergency or disaster declared by the governor pursuant to 10-3-302 or 10-3-303.
8. “Political subdivision” means any county, city, town, or other legally constituted unit of local government in this state.
9. “Principal executive officer” means the mayor, presiding officer of the county commissioners, or other chief executive officer of a political subdivision.
10. “Temporary housing” means unoccupied habitable dwellings, suitable rental housing, mobile homes, or other readily fabricated dwellings.

History: En. Sec. 3, Ch. 218, L. 1951; amd. Sec. 2, Ch. 220, L. 1953; Sec. 77-1303, R.C.M. 1947; amd. and redes. 77-2302 by Sec. 9, Ch. 94, L. 1974; amd. Sec. 4, Ch. 335, L. 1977; R.C.M. 1947, 77-2302; amd. Sec. 4, Ch. 430, L. 1983; amd. Sec. 2, Ch. 71, L. 1987; amd. Sec. 1, Ch. 176, L. 1995; amd. Sec. 1, Ch. 391, L. 2003



Initial Actions, Notes and Checklists

*Common Benchmarks & Tactics for
Structure Fires*

*Common Benchmarks and Tactics
for EMS/MCI*

Start Triage

Resource Definitions

The Prepared FD

Montana Engine Company +



Command Strategy

Initial Response Incident Commander

Common Benchmarks & Tactics for Structure Fires (2007-11)

1. Fire Control and Primary All Clear

Challenge and Verify – Where is the fire? What time is it?

Where is fire? What time is it?(beginning, middle, or end of b/m/e).
 What is burning? – The Contents? The Structure? The Exposures?
 What is survivability of fire area? smoke? fire? Protect savable lives - Remove people from the fire and/or fire from the people.
 Find the fire - Cut the fire off - layers and voids - Open up - Vent - TI - Exposures

Strategy and Tactics and Orders - Offensive when the hazard is behaving. Go defensive when it isn't

Offensive Attack

Inside
 Control utilities
 From unburned side w/vent, Open up - layers & voids

Primary Search

Inside
 Control utilities
 Vent & line unburned side) Open up layers and voids

Defensive Attack

Outside
 Control utilities,
 Away from collapse zone
 Protect exposures

To Do:

Command Strategy

| | |
|--|--|
| <input type="checkbox"/> Establish On Deck - forward deploy, brief, recon(TI), improve egress, est.Triage <input type="checkbox"/> Access & Egress - open up New access & egress – ladders up and down <input type="checkbox"/> Check for extension, all sides, voids, layers, find burned/unburned line(TI) <input type="checkbox"/> Check for extension in exposures/layers /voids/Loss Control(TI) | <input type="checkbox"/> Supply water to pumper (Offensive - lay in, or 1st tanker, direct connect) <input type="checkbox"/> Secondary Search/All Clear - Occupant/Customer Accountability - Customer care <input type="checkbox"/> Rehab - set up, connect w/ EMS <input type="checkbox"/> Aggressive Loss Control (w/SCBA) <input type="checkbox"/> Liaison, PIO, Customer Care |
|--|--|

2. Loss Stopped

- Aggressive Loss Control - Clean up, cover up, store (w/SCBA)
- Check for extension (TI)
- Monitor atmosphere

3. Incident Stabilized & Customer cared for

- Customer Care/Recovery Assistance to customer – **connect**

Critical Factors - Structure Fire

| Critical Factor | Unknown | Discernable | Clearly Present | Serious Hazard | Extremely Severe | Fatal |
|------------------|---------|-------------|-----------------|-----------------|------------------|--------------------|
| Build Size | | Small | Medium | Large | Humongous | Ultra |
| Fire Stage | | Incipient | Working | Extended | Deep | Fully Inv |
| Heat | | 200K | 400 Warm | 600 Hot | 800 Real Hot | 1000 Fatal |
| Smoke | | Faint | Light | Moderate | Heavy | Zero Vis |
| Struc Stabil | | OK | Light | Shaky | Weak | Kaboom! |
| Fire Load | | Light | Light+ | Mod | Mod+ | Heavy |
| Occ Hazard | | OK | Light | Mod | Mod+ | Heavy |
| Access In | | OK | Mod Barrier | Complex | Heavy Security | Locked Out |
| Exit Out | | OK | Complex | Detained | Stuck | Flat-Assed Trapped |
| Interior Clutter | | OK | Confused | Obstacle Course | Awful Maze | Grid lock |

| Comm/Res | Small-Med Residence | Med-Lg Residence | Sm-med Commercial | Med-Lg Commercial | Huge-Ultra Commercial |
|---------------------------|---------------------|-------------------|-------------------|-------------------|-----------------------|
| % involvement | 10% | 20% | 30% | 40% | 50% |
| Penetration into Haz Zone | 50' normal distance | 80' small stretch | 150' Big stretch | 250' too damn far | 400' fatally far |
| Aggression | Coma | Moving | | Moving Quick | Running |
| IC's Instinct | OK | Known | Uneasy | Stressed | Oh Shit |
| Fire Location | Known | | | | Unknown |
| Building Shape | Known | | | | Unknown |
| Elevation | Known | | | | Unknown |
| Sides & Layers | | | | | |
| Inside | | | | | |
| Top | | | | | |
| Bottom | Known | Main Area | Layers | | Unknown |
| Side A | | | | | |
| Side B | | | | | |
| Side C | | | | | |
| Side D | | | | | |

Command Strategy

Thank you to Fire Chief Alan V. Brunacini for this material and for sharing his wisdom with us.

Common Benchmarks and Tactics for EMS/MCI

07/31/98

1. All Patients Triage/ Extricated

- Initial dispatch information for Hazmat Cues
- Get smarter about incident (people, AQ monitoring, Info)
- Hazmat cues – Occupancy/ Containers/ Signage/Papers

People

- Locate/ Designate Transportation & Treatment Areas
- Locate Patients – Consider ejections & walk aways (homes)
- Stabilize Vehicle/ Mechanism

Cribbing/Chokes, Deflate tires, De-energize

- Protect/ Access points – 1 3/4" handline per vehicle

De-energize, Remove Glass, Try Doors

- Triage – Give Pt numbers (I and D) to Treatment & Transport
- Ask Treatment for Pt movement plan to Treatment Areas
- Extricate Pts – Roof, Doors, Dash Roll
- Move Pts to Treatment Areas

2. All Patients In Treatment (Primary All Clear)

- Establish Treatment Areas: Immediate/ Delayed/Minor/ Morgue
- Tell Triage/ Extrication about patient movement plan
- Re-Triage within Treatment Area – ABC's
- Tell Transport Pt numbers (**I and D**) & ask about loading areas
- Move Pts to loading areas

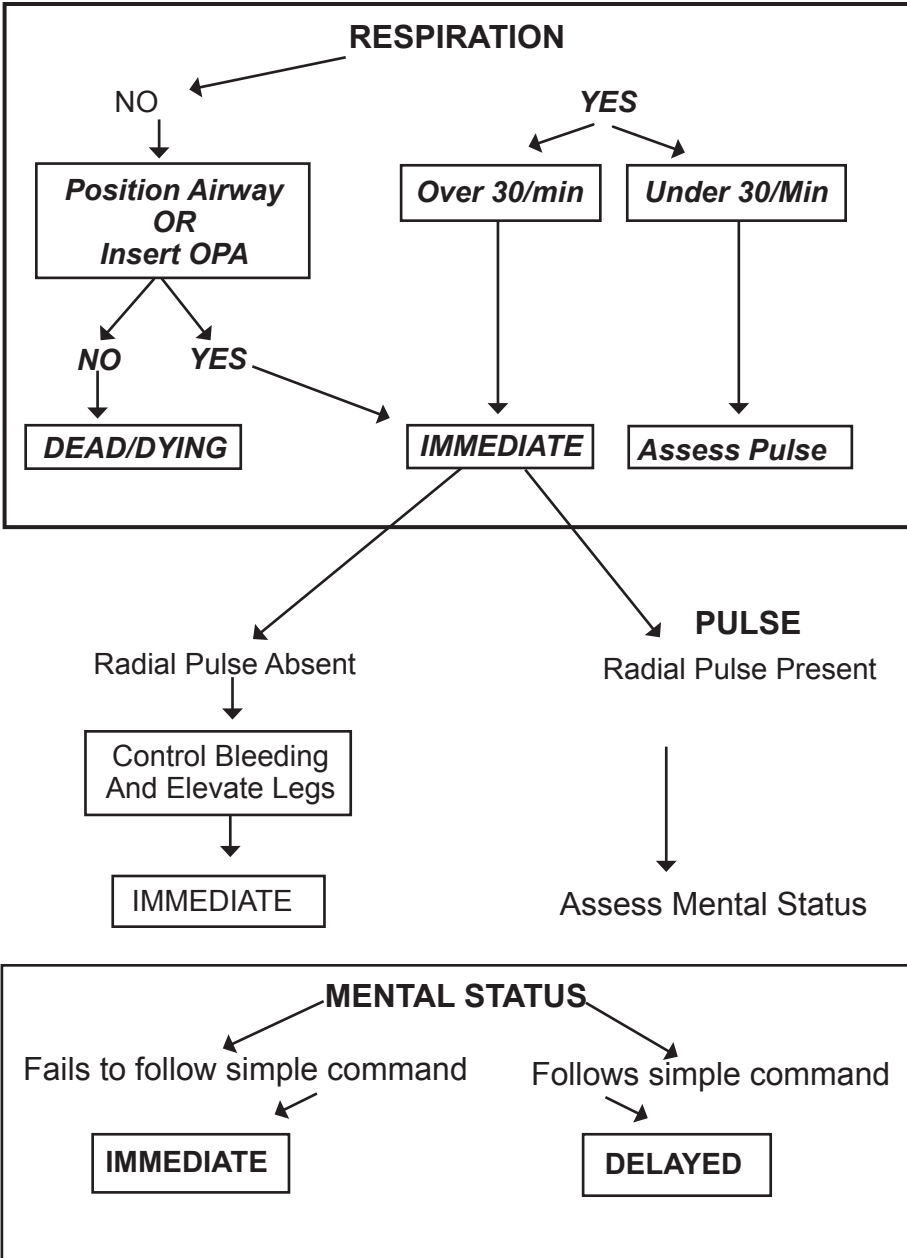
3. All Patients Transported

- Tell Treatment Pts movement plan to loading areas
- Contact Medical Control with Pt numbers (**ID**) / Get destinations
- Record Pt's ID, Transportation & Destination

LOAD/GO

Start Triage

All Walking Wounded → MINOR



Command Strategy

Resource Definitions

I. Structure Fire Crew

A structure fire crew is defined as three or more fire fighters (including the crew leader), capable of operations inside a structure fire, with their own equipment, supervision, communication and transportation.

Equipment:

SFPPE

1 SCBA per fire fighter (if possible, 1 or more spare tanks per SCBA)

1 Halligan tool or equal per crew (“irons”)

1 flashlight per crew

1 radio

Supervision: One crew leader per crew

Radio Call Sign: Last name of crew leader (incident) or Structure Crew (Dispatch)

II. Emergency Medical Service Crew:

An emergency medical service crew is defined as two (prefer three or more) members, all of whom are capable of BLS operations at the first responder level with their own equipment, supervision, communication, and transportation.

Equipment:

EMS “Jump Kit”

Oxygen tank, regulator, and delivery equipment (mask and/or cannula) Infection control equipment including, but not limited to, gloves, eye protection, mask, long sleeves, long pants and shoes

1 radio

1 flashlight

Supervision: One Radio Call Sign: Last name of crew leader (incident) or EMS Crew (Dispatch)

III. Structure Fire Engine:

A structure fire engine is defined as a mobile fire apparatus with specified equipment, a driver/operator and a Structure Fire Crew. Staffing will include one fire fighter qualified to drive and operate the engine, and a Structure Fire Crew. Driver/operator will stay with the engine. Engines for structure fire assignments will have the following capabilities:

Pump, 500 GPM(minimum), with 20' suction hose capable of flowing the rated capacity of the pump

Water tank, 400 gal.

Equipment:

1-150 foot(or longer), preconnected 1.5 inch(or larger) hose

1 - Positive pressure blower/fan

1 - Ventilation saw

Ladders, one 20' extension, one 14' roof

Able to adapt to 2.5" male and female, 4.5" male, 6" female, and 5" Storz

Hydrant wrench, 1 radio, 1 flashlight

Definition may be met using multiple vehicles (ex. 2 door engine with a pick up truck, with a D/O and a Structure Fire Crew)

Radio Call Sign: "Engine"

IV. Brush or Wildland Fire Engine

A mobile fire apparatus with specified equipment and a minimum staffing of three fire fighters including a qualified driver/operator, a fire fighter(may be more than one), and a crew leader capable of fighting wildland fires. The driver/operator will stay with engine. Brush or Wildland apparatus will have the following minimum capabilities and equipment:

Pump, 50 GPM, with 20' suction hose capable of flowing the rated capacity of the pump.

Water tank, 200 gal.

Equipment:

Personal Protective Equipment for members fighting a wildland fire:

Clothing, Nomex or NFPA 1977 compliant or greater protection
One fire shelter per person assigned to the apparatus
Hand tools, three wildland tools of the department's choice and
bladder bag 2 radios, 1 of which shall be portable
1 flashlight

Radio Call Sign: *"Brush or Wildland"*

V. Tanker or Water Tender

A mobile fire apparatus with specified equipment and a driver/operator. One fire fighter capable of driving and operating the apparatus, with personal protective equipment appropriate to the call (either wildland or structure fire).

Pump, suggest 250 gpm
Tank, 1000 gal., Dump, 34 inches above ground level, Fill,
5 inch Storz coupled.

Equipment:

Portable Tank
1 flashlight,
Radio Call Sign: *"Water Tender" or "Tanker"*

VI. Rescue

A mobile fire apparatus with four(or more) fire fighters including a crew leader and a driver operator capable of performing rescue services and the work of a structure fire crew. The crew assigned to the Rescue will have the equipment, supervision, and transportation specified for a Structure Fire Crew elsewhere in these procedures.

Additional Equipment:

Set of basic rescue hand tools including but not limited to:
1 - Ball-peen hammer, 1 - Spring loaded center punch, 1 - chisel
Cribbing

Lifting device - air bags, jacks, spreader, rams Hand winch for remote holding - related rope, straps, etc.
AC power generation - related lights, extension cords, adapters
Power hydraulic spreader
Ram - power hydraulic or hand hydraulic
Reciprocating saw - blades for metal and wood, spare blades for both
Other power saw(s) - to cut wood and metal, extra blades, chains, saw fuel 2 radios, 1 of which shall be a portable radio
1 flashlight

Recommended Equipment:

Air Quality Monitor(ex. four gas, LEL, O2, H2S, CO)

Radio Call Sign: “Rescue”

VII. Ladder

A mobile fire apparatus with specified equipment and a crew leader, a driver/operator and a minimum of two fire fighters. The aerial device will have a rated ladder, or platform, with a minimum working extension of 65 feet.

Equipment:

All equipment specified for a Structure Fire Crew
Full NFPA compliant(to current standard) of ground ladders
1 flashlight

Radio Call Sign: “Ladder” or “Truck”

VIII. Support

A mobile fire apparatus with a driver/operator capable of supporting breathing air, salvage, loss control, emergency decontamination, defensive spill containment, and fire fighter rehab services.

Equipment:

SCBA cascade or compressor - three large tanks, 4500 psi minimum
Assorted absorbents (clay, other)
Brooms
Fire Fighter rehabilitation supplies
Loss Control/Salvage supplies

Emergency decontamination supplies (Haz-Mat First Responder Operations Level)

2 radios, 1 of which shall be a portable radio

1 flashlight

Radio Call Sign: *“Support”, or “Squad”*

IX. EMS Vehicles (non-transporting)

A mobile fire apparatus that delivers an EMS Crew (including an assigned crew leader) and additional BLS equipment to an incident. This definition is for non-transporting units. This vehicle is staffed with an emergency medical service crew which is defined as two (prefer three or more) members, all of whom are capable of BLS operations at the first responder level with their own equipment, supervision, communication, and transportation.

Equipment:

EMS “Jump Kit”

Oxygen tank, regulator, and delivery equipment (mask and/or cannula) Infection control equipment including, but not limited to, gloves, eye protection, mask, long sleeve shirt, long pants and shoes

BLS orthopedic stabilization equipment

Blankets

2 radios,

1 of which shall be a portable radio

1 flashlight

Radio Call Sign: *“QRU”*

X. Transport Ambulances

The request for transport ambulance resources will be initiated by the IC, or designee, of the specific incident. See page 131.

XI. Command Vehicles

A mobile fire apparatus, capable of seating four full sized fire fighters, offering strong radio communications capability and support for incident management functions.

Equipment:

Full set of incident management system documentation
Full set of reference material appropriate to the incident
2 radios, 1 of which shall be a portable radio, 1 flashlight

Radio Call Sign: *“Management”, “Command”*

XII Management Staff

A fire fighter with the ability to perform a variety of incident management functions. Also a person with a specific ability in the requested area of incident management, i.e. Water Supply Branch Director.

Equipment: Personal Protective Equipment, appropriate to the call (structure and/or wildland fire)

Flashlight and 1 radio

Transportation: Individual, may be a fire department vehicle or when authorized by the Fire Chief of the fire department granting mutual aid, a personal vehicle.

Radio Call Sign: *“Management Staff”, “Command Staff”*

Notes:

1. All radios are required to be capable of communicating on a minimum of the 7 frequencies including those listed in the communications plan.
2. Transportation of fire fighters on Structure Fire Crews, EMS crews, and Management Staff shall be by fire department vehicle or, when authorized by the Fire Chief of the fire department granting mutual aid, a personal vehicle.

XIII. A Prepared Fire Department(or community) –

notes by Jane Ellis, 12-06-2006

1. Competent with the basics
 - Command
 - Fire fighting and Rescue
 - EMS - (if not direct delivery, then closely connected with whoever does EMS)
2. Agile, able to adapt basics to other types of events
3. Connected with:
 - Other emergency responders, EMS, SAR, LE, 911, PH, Mutual Aid, Community groups - Churches, service groups, youth groups, etc.
 - Public - ability to communicate
4. Families covered
 - Spouse /kids know members will be gone
 - Provide for emergencies @ home
5. Acknowledge the possible, prepare(first) for the reasonable & likely
6. Stockpiles - 1-2 weeks of stuff
 - Basics and Non-perishable, As small storage as possible
 - Make clear decision about whether the stockpile is for public or department(& families)
 - Maintain stockpile - or don't bother to develop it
7. Encourage other agencies to do their part(FD shouldn't have to stockpile body bags)
8. Know how to quickly put citizen volunteers to use
9. Questions to think about: How long? How complete?
For how many? How large an area?
10. Host set expectations for help.

Maybe it's incremental. Are we more/better prepared than we were yesterday?

USAR in Montana - Equipment Lists

Engine Co. + (plus)

Some, Some More, A lot

Collapse Rescue

Basics PPE - For every one -

for 1 rescue crew of 5 FFs for 24 hours of work

Dust masks - (N-95) - (6 per FF/ 30 per crew)

Eye protection - glasses and goggles, full face respirators

Ear plugs - disposable

Work gloves - plain leather, 3 pair FF/ 15 pair per crew

Work clothes - coveralls, bib overalls and shirt, pants, & jackets (hats), Hard hats or rescue helmets

Helmet lights and flashlights plus batteries and bulbs

Batteries - industrial alkaline (30 AA per person 150 per crew)

Drinking water - 35 ½ liter bottles (case)/ FF - 5 cases/ crew

Food - 20 meals for 5 person crew per 24 hours

Knee pads - two sets/FF, 10 sets /crew - foam or hard

Marking crayons, perm markers, and spray paint - lots

Marking instruction diagrams - laminated & corded

Yellow barrier tape - 5 rolls (1,000 ' per roll)

Waterless hand soap - 8-16 oz per crew per 24 hours

Paper towels, TP

Eye wash, eye drops, sun screen, lip protective

Small pocket mirrors, 6 per crew

Rain gear - 1 set per person

Duct tape - 1 roll per person

Hand tool kit - small hand tools

Folding chairs

Tarps

Notes: Add more for give-aways, extra water, dust masks, etc.

Hand tools - Dismantle or disassemble Wood Frame

Pry bars - 60" pinch single bevel chisel point (ex. Council Tool),

Hand saws for wood

Metal hack saws - spare blades

Irons - axes and or sledge or maul

Crow bar(36 inch) and

Nail puller (Wonder bars) - all sizes

White buckets and white bucket straps

Shovels - 28" folding head, square nose (start with longer handle, cut to size), spade (long handle)

Bottle jacks - 12 ton, 20 ton

utility knives - extra blades

Hand mauls - 4 lbs with ribbed handle (Nupla)

1 inch x 12 inch or longer cold chisels (Enders) with 9 or 10 inch

Vise grips for stand off

24 ea 4" x 4" and 2"x 4" 8', 12" x 12" by 3/4" gussets what will fit on your truck,

Tool belts

16 to 20 oz framing hammers, tapes, nails (8p and 16p),

squares, pencils

Listening sticks (solid and 1.5 to 2 inch PVC)

The next step is electrical powered recip saws, gen set, cords, lights

Power Tools - first step - recip saws, gen sets, cords, lights

2 ea, 2 kw generators (46 lbs ea)

2 ea, 100' 10/3 cords

2 ea, 300-500 watt work lights

2 ea, 11 amp recip saws with long cords, many extra blades (boxes of 100)

2 ea extra gas, plugs, oil and small tools.

The next step is search cam, more power tools, chain and rotary saws, hydraulic rescue tools, air bags etc.

Power Tools - second step - Search Cam is force multiplier

Search camera

Chain saws

Rotary saws

Drills (cordless with lots of spare batteries and chargers)

Rebar cutters

Power hydraulic, bolt cutters, hack saws, recip saws

Hydraulic tools set - spreaders, cutters, rams

Air bags

Rope rescue gear,

Shoring stuff wood members, 2inch pipe and screw jack ends

Air compressor and hoses and air nailers

The next step is power tools for concrete construction

Power Tools - third step - Concrete boring and saws

Boring tools

Concrete saws.

Shoring notes:

20+ - 5/4" - 4' x 8' sheets

Wood (4" x 4") or pipe (2 inch) with screw jack ends are fine

12 inch power miter saw

Ellis clamps

Airshore or Paratech type stuff

Hazardous Materials

Haz-Mat Critical Factors

Common Benchmarks

Critical Factors

Chemical/Biological Indicators

Chemical & Physical Properties

Vapor Density

Decontamination

Haz-Mat Operations Checklist

*8 Common Hazardous Materials found in
Montana*

WMD Considerations/Actions

Haz-Mat Critical Factors

John Culbertson, PhD, Captain, Central Valley Fire District

There are basically 5 questions or considerations that need to be addressed to get a very good handle on hazard behavior.

1. **Is it a SOLID, LIQUID, or GAS?**

SOLID = Keep water off it!! Otherwise probably not a big deal. Cover it if it is blowing around.

LIQUID = What is its vapor pressure? Over 20 mm Hg is significant, consider where the vapors are going and their effects. Where is it flowing? Consider defensive confinement.

GAS = Hard to control where it's going. Is it dispersing or hanging around?

2. **What are the environmental/topography conditions?**

Temperature, Wind, Precipitation. All effect the hazard behavior, how depends on the product. Use NIOSH Pocket Guide. Stay upslope, upwind

3. **Will it BURN?** If an LEL/UEL is listed, it has the potential to burn. What is its FLASH POINT (F.I.P.)? If it less than ambient, it could flash.

4. **Will it RISE or SINK?**

LIQUIDS = If it is soluble (miscible) it will not separate. It will make a new solution. If it is NOT soluble, Specific Gravity will tell you if it will sink or float (Water =1, < floats, > sinks). If it floats, there is a good chance it is flammable.

GASES/VAPORS = Use Molecular Weight (M.W.). M.W. air = 29, < rises, > sinks.

5. **Will it mix with water?**

Solubility = % by weight that will mix with water. Miscible means completely soluble. Ties in with question #4.

These questions are in no particular order and they are for the most part dependant upon one another.

Common Benchmarks & Tactics for HazMat FRO (02-01)

1. Primary All Clear and Hazard Confined

Strategy is DEFENSIVE at FRO level

- Identify Product
- Hazard Behavior Prediction - NAERG and Chem Physical Properties (NIOSH guide)
- Establish Emergency Decon
- Find responsible party
- Stay out of the product

| Isolate | Evacuate | Decon /Hot Zone/ Confine |
|---|--|---|
| Deny Access Monitor hazard & weather | PPE w/SCBA Monitor hazard & weather | Known Product (NAERG) PPE w/SCBA Monitor hazard & weather |

- **Protect saveable lives** - Remove people from hazard and/or hazard from people
- **FIND THE COLD ZONE & DO DEFENSIVE CONFINEMENT** (Wind and slope)
- Utilities / Ignition Sources - control'em
- Set up Rehab
- Execute Water Supply Plan
- **Establish On-Deck or RICs**, forward deploy, brief, recon, improve egress, establish Triage/EMS
- Check for extension, all sides, voids, downslope, downwind, downstream
- Check for extension in exposures/layers /Loss Control
- Secondary All Clear - Occupant/Customer Accountability

2. Incident Stabilized & Customer cared for

- Customer Care/Recovery Assistance

Connect with the Customer

Command - Critical Factors Worksheet for HazMat Incidents

| | | Nothing savable - no risk to FFs - Protecting savable property - Risk a little - Protect savable lives - Risk a lot | | | | |
|-----------------------|----------------------|---|-------------------------|------------------------|-------------|---------|
| | Discernable | Clearly present | Serious Hazard | Extremely Severe | Fatal | Unknown |
| Are people present? | NO people | YES people | | | | |
| Is there a release? | NO | YES (use ERG) | Flammable | Flammable and/or Toxic | | |
| Where is it going? | Away from people | | | Toward people | | |
| Fire involvement | Product burning | | Ignition source present | | Impingement | |
| What is it? | Solid | | | Liquid/Gas | | |
| Ventilation | Diluting on it's own | | | Not diluting | | |
| Wind/Slope alignment? | Neither in alignment | One in alignment | One in alignment | Both in alignment | | |

Chemical/Biological Incident Indicators

Indicators of Possible Use

Unusual Dead or Dying Animals

Lack of insects

Unexplained Casualties

Multiple Victims

Serious illness

Nausea, disorientation, difficulty breathing, convulsions

Definite casualty patterns

Unusual Liquid, Spray or Vapor

Droplets, oily film

Unexplained odor

Low flying clouds/unrelated to weather

Suspicious Devices/Packages

Unusual metal debris

Abandoned spray devices

Unexplained munitions

Haz-Mat Situations

Indicators of a Possible Haz-Mat Incident

1. Vapor plume – low lying fog – cloud
2. More than a single product mixing or potentially mixing
3. Product is on fire or fire is impinging on container
4. Product is reacting with air or water – looks like it is boiling or bubbling
5. Victims are down and not responding
6. Victims complaining of dizziness, nausea, difficulty breathing, burning/reddened skin, diminished level of consciousness.
7. Dead animals or plants
8. Fire with weird color flame or smoke
9. Container severely damaged – large crack dents, exposed to direct flame contact
10. Sound – rapid escape of gas or liquefied gas – loud roar, high pitch, crackling noise
11. Container cooking off or ruptured containers in area
12. Containers and equipment used to make illegal drugs (acetone, ammonia, lye, lithium, etc)

Chemical & Physical Properties for Haz Mat

*Culbertson, Storum, NAERG, & NIOSH
Pocket Guide, r.2007-03*

1. **Temperature is a big deal**
68°F - 72°F standard temp floor
2. **MW - Molecular Weight** (tells if a vapor/gas will rise or sink)
air = 29, mw of >29 tends to sink, mw <29 tends to rise and dissipate, look low/down/down hill
3. **VP - Vapor Pressure**
760 mmHg = 1 atmosphere at 68°F
VP of product >760mm, product will be gas,
lower ignition temp
VP of product <760mm, product liq/solid,
higher ignition temp
For reference:
VP of 10 mmHg is a liquid that is very volatile

| | | | |
|------|------------------|---------|-----------|
| VP-0 | VP-18 | VP-180 | VP-2610 |
| rock | H ₂ O | acetone | Acetylene |
4. **FP - Flash point in °F - Need ambient temp**
FP <ambient - produces vapor, LEL somewhere
FP >ambient - no vapor, no LEL
For reference - gasoline has a FP of -36oF
5. **IT - Ignition temp -Ranges 350°F-1200°F**
we bring ignition sources(fire trucks, tools)
6. **SOL – Solubility – Will it mix with water?**
Miscible – Completely mixes with water (100% soluble in water)
7. **SPGR** - Specific gravity - When mixed with water, and not miscible, will it sink or float? SPGR water = 1 SPGR >1 sinks, SPGR < 1 floats

Vapor Density

John Culbertson, PhD

1. If >1 but <2 , mixes well with air, generally found at waist level.
2. If >2 but <3 , does not mix well with air, generally found at knee level.
3. If >3 , does not mix with air, found low to the ground.

Notes on vapor density/molecular weight/mixing:

Our atmosphere is a very dynamic, turbulent, mixing chamber, even at ground level.

We need to stress the word “tendency” when we refer to vapors rising or sinking. If there is even the slightest of a breeze, a chemical with a $VD >1$ can be found at dangerous concentrations well above the ground.

For example: use is Argon (Ar). It is the third most abundant chemical in our atmosphere. It has a MW of 40 ($VD = 1.4$). It is found at an equal concentration from ground level to over 60,000 feet.

Another example are the chlorofluorocarbons (CFC's). CFC's are VERY heavy, but in a short period of time they make it to the stratosphere and have an effect on the ozone layer.

All this is scientifically proven. Even considering the longer mixing times that Ar and the CFC's have compared to a hazmat event, significant mixing occurs almost instantly due to the nature of our turbulent atmosphere.

Therefore, in the chem. Physical properties for the six chemicals, under Vapor Density, you might change “will” collect in low areas to “can”.

People should not think a product will only be found low to the ground and possibly not worry about an ignition source 10 feet above ground.

Concentration in air (ppm) 1300 Rule

For approximate vapor concentration of a solid or liquid chemical in a container (building), Multiply VAPOR PRESSURE by 1300.

Example: Vapor Pressure of 50 mm Hg

$$50 \text{ mm Hg} \times 1300 = 65,000 \text{ ppm}$$

Compare 65,000 ppm to IDHL. Gives worst case scenario.

Haz Mat Emergency Decon FRO Level

(03/02/07)

For Fire Fighters with PPE and SCBA

- Step 1 **Rinse all surfaces** w/diffused water stream, (watering wand), completely wet, about 1 minute
- Step 1a **Spray soap solution** on all surfaces (pump spray can), no scrub/contact, completely cover with soap spray, about 2 minutes (use only for oily, immiscible products)
- Step 2 **Rinse all surfaces** w/diffused water stream, (watering wand), completely rinse off all soap solution, about 2 minutes
- Step 3 **Move** to undress area at end of decon area
- Step 4 **Remove SCBA facepiece last**, remove and bag PPE gear and clothing.
- Step 5 **Put on clean Tyvek** suit
- Step 6 **Do EMS** evaluation

For patients:

- Step 1 Rinse while they are removing clothing
- Step 2 Remove clothing, leaving undergarments on person (bag)
- Step 3 Rinse again after clothing is removed
- Step 4 Put on clean Tyvek suit, go to EMS evaluation

Haz Mat notes:
 CL2 - Poisonous gas, skin absorbable
 _____ cide = bad for humans
 Infinite dilution is the solution
 “What is the worst thing that will happen if we do nothing?”

Hazardous Materials Checklist/ Site Safety Planning

1. Incident type:

- | | |
|---|------------------------------------|
| <input type="checkbox"/> Chemical release | <input type="checkbox"/> Fire |
| <input type="checkbox"/> Meth Lab | <input type="checkbox"/> Terrorism |
| <input type="checkbox"/> Casualty/EMS | <input type="checkbox"/> Bomb |
| <input type="checkbox"/> Other: _____ | |

2. Risk Management Assessment:

- Savable Life at Risk
- Savable Property at Risk
- No Risk

3. Incident location and directions:

| |
|--|
| |
| |
| |
| |

4. Hazards:

- | | |
|--|--|
| <input type="checkbox"/> Flammable | <input type="checkbox"/> Topography |
| <input type="checkbox"/> Slip, Trip, Fall – Surfaces | <input type="checkbox"/> Toxic Inhalation Hazard (TIH) |
| <input type="checkbox"/> Corrosive | <input type="checkbox"/> Lighting |
| <input type="checkbox"/> Explosive | <input type="checkbox"/> Out of sight - Recon-go/no go |
| <input type="checkbox"/> Reactive | <input type="checkbox"/> Energized |

5. Environment:

- Current Winds: Direction: _____ Speed: MPH
- Forecasted Winds: Direction: _____ Speed: MPH
- Temperature: Current ___ Range - High ___ Low ___
- Precipitation: Current Yes ___ No ___
- Forecasted: Yes ___ No ___ Dew Point _____

6. Container:

- Flame Ire impingement(fall back 1 mile IAW Guide Pg. 115)
- Battle Damage - No leak _____/Leaking _____

Hazardous Materials Checklist (cont'd)

7. Chemical:

- Chemical Name: _____
- UN Ident. #: _____, ERG Guide # _____,
NIOSH Guide pg. _____, yr. _____, color _____
- NFPA 704 Fire ___ Life ___ Reactive ___ Special ___
- Amount in container _____ Gallons, or Pounds
- Amount spilled _____
- Continuous spill ___ Yes ___ No
- Estimated Rate of Leak ___ (amount) per ___ (time)
- Vaporizing/Evaporating? ___ Yes ___ No
- Spilled on Ground ___ Yes ___ No
- Spilled on Water ___ Yes ___ No

8. Incident Command:

- Incident Name: _____
- Incident Commander: _____
- IC, Organization: _____
- HM Task Force Liaison: _____
- HM Task Force Leader: _____
- HM Tech Safety Officer: _____
- PIO phone number: _____

9. Responsible Party for Release:

- Name: _____
- Address: _____
- Insurance Company: _____
- Phone Number: _____
- Point of Contact: _____
- On-Scene Liaison: _____



Hazardous Materials Checklist (cont'd)

10. Action Plan:

- Handle locally with single jurisdiction resources: __Yes __No
- Deny Access by isolating incident __Yes __No
- Evacuation __Yes __No
- Protect in Place __Yes __No
- Zones secured(consult NAERG) __Yes __No
 - Hot
 - Warm
 - Cold
- Call for local mutual aid? __Yes __No
- Call for State Assistance? __Yes __No
- Emergency (FRO) Decontamination __Yes __No
- Tech Level Decontamination __Yes __No

Decon source document:

- FRO actions
- Tech - Recon Actions
- Tech - Entry Actions
- Entry Rescue __Yes __No
- Stay back and allow to self stabilize __Yes __No
- Monitor spill and call for additional expertise __Yes __No
- Confine spill to protect property and envir. __Yes __No
- Notifications and documented __Yes __No

11. Injuries and Fatalities:

- Number injured at scene: _____
- Number exposed to release: _____
- Number contaminated: _____
- Number fatalities at scene: _____
- Hospital notified? __Yes __No
- Coroner Notified? __Yes __No



Hazardous Materials Checklist (cont'd)

12. Personal Protective Equipment:

- Equipment on site:
- Level A Yes No
- Level B Yes No
- Level C Yes No
- F/F Turnouts Yes No

- Number Self Contained Breathing Apparatus: _____
- Amount of Grade D air needed - # of tanks _____, psi _____

- Equipment needed on site:
- Level A Yes No
- Level B Yes No
- Level C Yes No
- SCBA Yes No
- F/F Turnouts Yes No

13. On Deck - Rapid Intervention Plan

Staffing needed: _____

Level of Protection needed: _____

HM Cert Level needed: _____

- Staffed Equipped Training Cert

Location

- Decon Plan for On Deck - Rapid Intervention
 Commo Plan

Radio Procedures for On Deck - Rapid Intervention Deployment

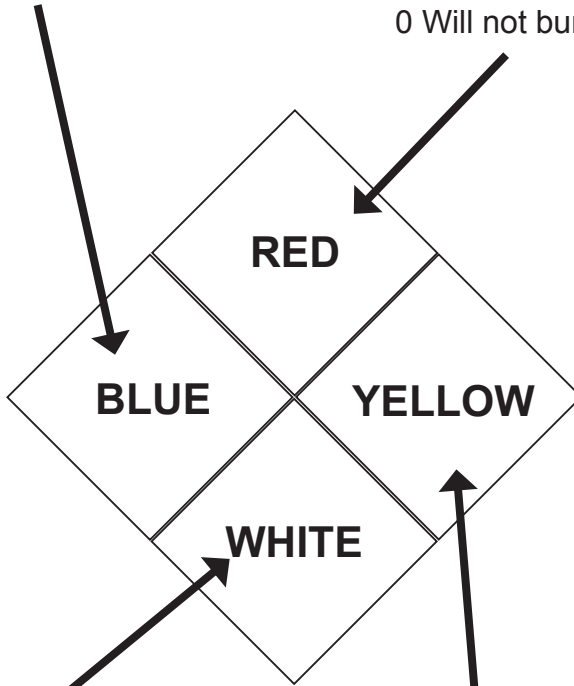
On Deck - Rapid Intervention works for: _____

HEALTH HAZARD

- 4 Deadly
- 3 Extreme Danger
- 2 Hazardous
- 1 Slightly hazardous
- 0 Normal Material

FIRE HAZARD

- 4 Below 73° F
- 3 Below 100°F
- 2 Below 100°F <200°F
- 1 Above 200°F
- 0 Will not burn



SPECIFIC HAZARD

- ACID – Acid
- ALK – Alkali
- COR – Corrosive
- OXY – Oxidizer
- P – Polymerization
- W – Use no Water

REACTIVITY

- 4 May Detonate
- 3 Shock & heat may detonate
- 2 Violent Chemical change
- 1 Unstable if heated
- 0 Stable

83rd Civil Support Team – Montana National Guard

How to Request our Assistance:

Official requests for support during an incident must process through your local Disaster and Emergency Services (DES) Coordinator to the State DES Operations Center at (406) 841-3911.

What We Do:

- We work for the Incident Commander
- We respond to incidents involving weapons of mass destruction (WMD), hazardous materials, and other emergency situations
- We operate in cooperation with regional HAZMAT teams and other local first responders
- We provide presumptive identification of chemical, biological, and radiological agents
- We provide recommendations on event mitigation, medical treatment, and follow-on state and federal resources
- We facilitate communications interoperability and provide secure reach-back capabilities
- On request, we can provide immediate response to save lives, prevent human suffering, and mitigate property damage under the authority of Department of Defense Directive 3025.1

What We Don't Do:

- We do not assume command of an incident
- We cannot perform Explosive Ordinance Disposal/Bomb Squad operations
- We cannot conduct mass casualty decontamination operations
- We cannot operate continuously for more than 72 hours on scene without additional personnel and resources

Special Considerations:

- We can deploy an Advance Party to a incident scene within 90 minutes of alert by the MT National Guard Joint Operations Center
- Our primary means of deployment is via ground transport, our ability to quickly arrive on scene is limited by the driving time to your location
- Our support does not cost any \$\$\$
- We are always available to conduct training at your location at no cost. We will tailor training to fit your needs. To schedule training with the 83rd CST, please contact (406) 324-3680 (office)

State of Montana Hazardous Materials Response Teams

There are 6 hazardous materials regional response teams. To request a hazardous materials regional response team, contact State of Montana, DES at **406-841-3911** and ask for the Duty Officer to contact you.

Emergency Response Guidebook Notes (ERG)

Following are ERG guides for 8 common hazardous materials released in Montana

Unknown Material/Mixed Load - NAERG Guide 111

SCBA mandatory. Fire isolate ½ mile.

DECON: Use water, 10 gpm for 20 minutes, remove clothing

LPG – PROPANE NAERG Guide 115 Placard: 1075

Gases-Flammable

Initial Isolation 160 to 330 feet. **Tank fire isolate** 1 mile.

DECON: Move to fresh air.

| Chemical / physical properties | Behavior |
|--|---|
| Vapor density = 2.0 (Air =1); M.W. = 44 | Gas will collect in low areas. |
| B.P. = -44 F | Gas at normal Montana temps. |
| Vapor Pressure = 107 psi (190 mm Hg) | Pressure in container liquifies the gas, release will create a vapor cloud. |
| Explosive range 2.1 % - 9.5 % | Vapors are highly flammable. |
| Auto ignition temp. = 761 F | Static electrical arc and vehicles are ignition sources. |
| IDLH = 2100 PPM or 10% of LEL | SCBA mandatory. |
| Warmer, windy weather is better. | Helps disperse vapors |
| Colder, calmer weather, not so good. | Vapor cloud stays more oncentrated, greater risk of health or explosion hazard. |

**MTH – Natural Gas - NAERG Guide 115 - Placard: 1971
Gases-Flammable**

Initial Isolation 160 to 330 feet. Tank fire isolate 1 mile.

DECON: Move to fresh air.

| Chemical / physical properties | Behavior |
|---|--|
| Vapor density = 0.55 (Air =1); M.W. = 16.04 | Gas will collect in elevated areas |
| B.P. = -258° F | Gas at normal Montana temps. |
| Vapor Pressure = N/A if found in piping supply | Generally shipped as gas in distribution and delivery pipelines. |
| Explosive range 5 %-15 % | Vapors are highly flammable. |
| Auto ignition temp. = 1004°F | Static electrical arc and vehicles are ignition sources. |
| IDLH = None Listed | SCBA mandatory, gas is an asphyxiant |
| Warmer, windy weather is better. | Helps disperse vapors |
| Colder, calmer weather, not so good. | Vapor cloud stays more concentrated, greater risk of health or explosion hazard. |

GASOLINE

NAERG Guide 128, Placard 1203

Flammable liquid

Initial Isolation 330 to 660 feet. Tank fire isolate 1 mile.

DECON: Use water, 10gpm for 20 minutes, remove clothing.

Reportable Quantity = 25 gallons

| Chemical / physical properties | Behavior |
|--|--|
| Vapor density > 1 (Air =1); M.W. about 72 | Vapors will collect in low areas |
| Flash point = -45 F, Vapor pressure = 300 mm Hg | Vapors will collect in low areas |
| Flash point = -45 F, Vapor pressure = 300 mm Hg | Liquid at normal Montana temps. |
| Specific Gravity = 0.7 (Water = 1) , not soluble in water. | Liquid will float on water. |
| Auto ignition temp. = 530 F | Vapors will ignite by any arc or spark |
| Vapors are a health hazard attacking CNS. | SCBA mandatory |
| Warmer weather increases evaporation. | More flammable vapors being liberated. |

ANHYDROUS AMMONIA
NAERG Guide 125, Placard 1005
Gases-Corrosive

Initial Isolation 330 to 660 feet. **Tank fire isolate** 1 mile.

DECON: Use water, 10gpm for 20 minutes, remove clothing.

| Chemical / physical properties | Behavior |
|--|--|
| M.W. = 17 Gas will initially go to low places because it is cold, but as it warms up it will have a tendency to rise | |
| B.P. = -28 F | Gas at normal Montana temps |
| V.P. = 129 psi | Liquified gas / container under pressure |
| Miscible | Mixes with water, corrosive run-off |
| Explosive range 15% to 28%. May create explosive atmosphere when gas is confined. Should be treated as an explosive gas when released inside a structure or enclosed area. | |
| Auto Ignition Temperature = 1274 F | May find ignition source from arc, spark, or open flame |
| IDLH = 300 ppm (0.003%) | SCBA mandatory |
| Warmer, windy weather is better. | Helps disperse vapors |
| Colder, calmer weather, not so good. | Vapor cloud stays more concentrated, greater risk of health or explosion hazard. |

SULFURIC ACID
NAERG GUIDE 137 Placard 1830

Corrosive-Water reactive

Initial isolation 160 to 330 feet. **Tank involved in fire**, isolate ½ mile.

DECON: Use water, 10gpm for 20 min., remove clothing, transport.

| Chemical / physical properties | Behavior |
|---------------------------------------|---|
| Reactive with organics and water. | Do not apply water, violent reactions and harmful vapors. |
| S.G. = 1.84, Miscible | Heavier than water, but mixes with water. |
| Nonflammable | Won't burn, but can support combustion and may produce flammable gases (hydrogen). |
| V.P. = .001 mm Hg | Very minimal vapors in pure form. Readily forms vapors when it comes in contact with the environment, especially water. |
| Freezing Point about 37 F | Could freeze in winter time. |
| Temperature change in weather | Could freeze in winter time. |

CHLORINE

NAERG GUIDE 124, Placard 1017

Gas-Toxic and/or Corrosive - Oxidizing.

Initial Isolation for large spill 900 ft; downwind 4.2 miles (night).

Fire isolate ½ mile.

DECON: Use water, 10 gpm for 20 minutes, remove clothing, transport.

| Chemical / physical properties | Behavior |
|---------------------------------------|--|
| Vapor density = 2.67 , M.W. = 71 | Gas is heavier than air, will collect in low places. |
| B.P. = -29 F | Gas at normal Montana temps. |
| V.P. = 100 psi | Liquified gas / container under pressure. |
| Nonflammable - strong oxidizer | Violent reaction with ammonia, acetylene, fuels |
| Miscible | Mixes with water, toxic run-off. |
| IDLH = 10 ppm (.0001%) | SCBA mandatory. |
| Warmer, windy weather is better. | SCBA mandatory. |
| Colder, calmer weather, not so good. | Vapor cloud stays more concentrated, greater risk of health or explosion hazard. |

CARBON MONOXIDE
NAERG GUIDE 119, Placard 1016

Gases-flammable

Initial Isolation 330 to 660 ft. Tank fire isolate 1 mile

DECON: Move to fresh air.

| Chemical / physical properties | Behavior |
|---|---|
| M.W. = 28 (Air = 29) | Vapors are buoyant in air. |
| B.P. = -313 F | Gas at Montana temps. |
| V.P. = 514 psi | Gas at high pressure in container. |
| Explosive range: 12.5% to 74% | Wide explosive range. |
| Auto ignition temp = 1166 F | May find ignition source from arc, spark, or open flame. |
| IDLH = 1200 ppm (.12%) colorless, odorless | SCBA mandatory, use monitor. |
| Warmer, windy weather is better. | Helps disperse vapors. |
| Colder, calmer weather, not so good. | Vapor cloud stays more concentrated, greater risk of health or explosion hazard. |

NOTE: Petroleum products spills and injuries were not calculated by Center of Disease Control because they were not hazardous chemicals according to their charter. Flammable gases and liquid (organic and hydrocarbon) were the most significant spills in Montana accounting for 56% of all spills reported in the state.

Weapons of Mass Destruction

Bomb Threat Standoff

| Threat Description | Explosives capacity (TNT equivalent) | Building Evacuation Distance ¹ | Outdoor Evacuation Distance ² |
|---|--------------------------------------|---|--|
| Pipe Bomb | 5 lbs | 70 FT | 850 FT |
| Homicide Belt | 10lbs. | 90 FT | 1080 FT |
| Homicide Vest | 10lbs. | 110 FT | 1360 FT |
| Briefcase/Suitcase Bomb | 50 lbs | 150 FT | 1850 FT |
| Compact car | 500 lbs | 320 FT | 1500 FT |
| Sedan | 1,000 lbs | 400 FT | 1750 FT |
| Passenger/cargo van | 4,000 lbs | 640 FT | 2750 FT |
| Small moving van(single)/delivery truck | 10,000 lbs | 860 FT | 3750 FT |
| Moving van (tandem) | 30,000 lbs | 1,240 FT | 6500 FT |
| Semi-trailer | 60,000 lbs | 1,570 FT | 7000 FT |

Notes and sources: various sources, validated by Wizard Boy(McGinnis), Bomb Tech, Missoula Co. SO

¹ Governed by ability of an un-strengthened building to withstand severe damage or collapse

² Governed by the greater of fragment throw distance or glass breakage/falling glass hazard. Note that pipe and briefcase bombs assume cased charges which throw fragments farther than vehicle bombs.

WMD - Chemical

1. Stay Upwind, Uphill, and out of the product.
 2. Isolate scene (80 to 160 ft) and deny entry.
 3. Establish IC (size up, commo, crew tracking)
 4. Use risk management plan
 ____ Savable life ____ Savable property ____ Nothing to save
- Prepare for mass decon.
 - Shut down HVAC systems, prevent air movement.
 - Contact law enforcement. Connect with LE in-charge person
 - Customer care (what can you do to help customer).

WMD - Chemical NAERG Guide 153

SCBA mandatory.

DECON: Use water, 10 gpm for 20 min., remove clothing.

| Chemical / physical properties | Behavior |
|--|---|
| Vapor Pressure and Vapor Density = most have low VP and large VD | Most do not give off significant vapors, but if they do, are much heavier than air. |
| Explosive range = ? | Most are not flammable |
| IDLH = most are low. | Toxic, SCBA and skin protection mandatory. |
| Warmer, windy weather not so good. | Helps spread the agent |
| Colder, calmer weather is better. | Will help reduce spread of agent. |

Improvised Chemical Devices (ICD)

| Nomenclature | Probability Pathology | Evidence | Initial Incident Actions |
|---|--|---|---|
| <p>Local hazardous materials sites used against community</p> <p>Small explosive device or charge designed to breach containers at fixed site facility</p> <p>Transportation containers with explosive device to contaminate community</p> <p>Nonbulk containers left in a facility with Hazardous/Toxic chemical with timer</p> <p>Chemical weapon or dispensing device to atomize liquids</p> | <p>MINOR: Weapons grade warfare agents have not been employed to date.</p> <p>MODERATE: Improvised devices could be used by criminals and terrorists.</p> <p>Dispensing a hazardous chemical (ex. Chlorine) could be accomplished easily, chemicals can be stolen or acquired. Understand the chemicals physical properties and environmental conditions to understand its effect on a targeted population.</p> <p>People poisoning symptoms: SLUDGE S salivation L lacrimation U urination D defecation G gastro intestinal distress E emesis</p> | <p>Any container that has been breached without cause.</p> <p>Any abandoned pressure and non-pressure container</p> <p>Any explosion that may have caused a spill or leak.</p> <p>Any container out of place</p> <p>Events and venues that REPORT a release or odor</p> <p>Sick people inside a facility with rapid on-set of like symptoms</p> | <p>Follow ERG safety protocol.</p> <p>Stay upwind and uphill of incident ERG GP 153</p> <p>PPE: SCBA and F/F turn-outs in the Cold Zone</p> <p>SCBA and Level B in the warm zone</p> <p>Before patient treatment DECON</p> <p>Remove outer garments leave under clothing</p> <p>Complete wet DECON with water GOOD</p> <p>A Foam (CAFS) and H₂O rinse – BETTER</p> <p>Once patients have been DECONed, provide treatment NOT BEFORE!</p> |

WMD - Biological

1. Stay Upwind, Uphill, and out of the product.
2. Isolate scene (30 to 80 ft) and deny entry.
3. Establish IC (size up, commo, crew tracking)
4. Use risk management plan
 ___ Savable life ___ Savable property ___ Nothing to save
 - Prepare for mass decon.
 - Shut down HVAC systems, prevent air movement.
 - Contact law enforcement. Connect with LE in-charge person
 - Customer care (what can you do to help customer).

WMD - Biological NAERG Guide 158

SCBA mandatory.

DECON: Use water, 10 gpm for 20 minutes, remove clothing.

| Chemical / physical properties | Behavior |
|-------------------------------------|--|
| Most are spores or in aerosol form. | Will move with air currents. |
| Explosive range = 0. | Not flammable |
| Infective dose = most are low. | Toxic, SCBA and skin protection mandatory. |
| Warmer, windy weather not so good. | Helps spread the agent |
| Colder, calmer weather is better. | Will help reduce spread of agent. |



WMD - Biological - Powders

(Unknown, small quantity)

NAERG Guide 158

Use HEPA APR or SCBA

Decon - Wash hands, remove clothing, wash hands, take shower

Fire responder actions

1. Isolate area
2. Shut down HVAC or ventilation system in area of powder
3. Establish appropriate decon based on degree of customer contact with powder
4. Establish appropriate decon plan for responders based on degree of contact with powder
5. Request response of and connect with in-charge LE person

Notes:



Improved Biological Device (IBD)

| Nomenclature | Probability Pathology | Evidence | Initial Incident Actions |
|---|--|--|--|
| <p>Biological contamination Bacterial, Toxin or Virus that must have a host to survive (except anthrax) Container may be herbicide sprayer, spray can, or some other device to spread agent</p> | <p>MINOR Biological agents are difficult to culture and most will not survive outside of a host. Sun light kills most viral and bacterial agents</p> <p>Inhalation and ingestion are the primary routes of exposure 1 to 7 days incubation flu like symptoms progressively worsening</p> <p>People experiencing complaining of health problems and powder calls are psychosomatic</p> | <p>Community has a number of unexplained illnesses as tracked by the community health agency</p> <p>RP may report white powder or suspicious container</p> | <p>Follow Community Health Agency recommendation</p> <p>ERG GP: 158</p> <p>PPE: Universal Precautions for infectious disease control</p> <p>Not an emergency</p> <p>Reported white powders call Community Health Agency, take names, numbers and addresses.</p> <p>ALL EMPLOYEES WASH HANDS. Infectious Disease Universal Practices. Seek treatment if something comes up</p> |

Improvised Explosive Device (IED)

| Nomenclature | Probability Pathology | Evidence | Initial Incident Actions |
|---|---|--|--|
| <p>Pipe-bombs to Rider Rent trucks (Ammonium Nitrate and Fuel Oil) ANFO</p> | <p>SIGNIFICANT: The WMD tool of choice (so far) for Terrorist Used in Oklahoma City and 1995 and 2001 in New York</p> <p>Mechanical injury and burns. There may be other WMD chemical or radiological devices Inhaling particulates from building collapse will have longterm health consequences.</p> | <p>Detonation and rubble pile</p> <p>Unexploded, any device in any shape.</p> <p>Usually metallic – car, plane or train.</p> | <p>DETONATION:</p> <p>Stay out of line of sight and take cover</p> <p>Rescue those outside of the collapse zone. Grab and go</p> <p>Patient treatment starts when out of the line of sight, outside of the collapse zone.</p> <p>PPE: SCBA and Turn-outs</p> <p>UNEXPLODED: Follow bomb threat stand-off on Page 40 or the MT mutual</p> |

Improvised Radiological Device (IRD)

| Nomenclature | Probability Pathology | Evidence | Initial Incident Actions |
|--|--|---|---|
| <p>Low level radiological source (industrial or medical equipment) with explosive device to disperse radiological material</p> | <p>MINIMAL: Materials are available and technology is low. However high level radiological sources are tightly controlled</p> <p>Alpha/Beta particles ingestion/ inhalation primary route and is extremely hazardous</p> <p>Gamma photons passes through the body and is measured dose x time</p> <p>Radiation poisoning 50 REM blood count changes</p> <p>100 REM Nausea and Fatigue WBC reduction</p> | <p>Reading on radiological meter greater than background</p> <p>10 mr/hr considered action level</p> <p>Small explosion</p> <p>Radiological container with DOT markings</p> | <p>Approach uphill and upwind ERG GP 165 PPE: F/F</p> <p>Turn-outs Taking meter readings mark hot zone</p> <p>Walking patients DECON remove clothing any METER reading wash with H2O - GOOD A foam - BETTER</p> |



Earthquake Technical Rescue/USAR

Earthquake Intensity/Scales

Structural Engineering Notes

USAR Building Marking System

Windshield Survey

Collapse



Confined Space

Trench

USAR

Utah USAR Team Info

Base of Operations



Earthquake Response

Standard Earthquake Intensity Rating (LACoFD)

Level 0 = Nothing felt

Level 1 = Earthquake felt, no damage

Level 2 = Items off shelves; windows broken

Level 3 = Block walls down

Level 4 = Structures off foundations

Level 5 = Structural collapse

Earthquake Response

Standard Site Survey

1. Move apparatus to safe location, generally outside
2. Contact dispatch on dispatch channel
3. Make site survey of personnel, equipment, and facilities
4. Report intensity, resource stat., site survey to Fire Coordinator
5. Secure utilities and station as needed

Standard Jurisdictional Survey

1. Intensity Level of 2 or greater, do jurisdictional survey
2. Record activity on unit log
3. Give report to Fire Coordinator or IC or In Charge person
 - Status of high hazard occupancies
 - Status of major transportation arteries
 - Other significant information
 - Determine resources needed
4. Only interrupt jurisdictional survey to respond to life threatening incidents

Standard Risk Management Plan

- | | | |
|--|---|-----------------------------|
| <input type="checkbox"/> risk a lot | → | protect savable lives |
| <input type="checkbox"/> risk a little | → | protect savable property |
| <input type="checkbox"/> no risk | → | lives/property already lost |



Structural Engineering Tips

- Buildings and building elements are built straight and plumb. As materials fail, they start to deflect. If a beam, floor, roof, truss is sagging during a fire or destructive event, there is a reason – stay clear, remain safe.
- Bridges are built straight and plumb. If it sags or is bouncy, stay clear, remain safe.
- Buildings are comprised of interlocking parts that are co-dependant for stability. A roof is supported on walls. However, the roof also supports the walls from tipping over. If you lose a wall, don't go near that part of the roof. If you lose the roof, be prepared to either brace the walls, or not go near them. They may tip over.
- One critical concept to grasp is that of redundancy. Redundancy is defined as a structural element that is duplicated, for example a floor joist or roof rafter. If a redundant element is lost, the adjoining redundant elements may share the load, avoiding catastrophic failure.
- Vertical load bearing elements are either walls or columns. Neither item is considered redundant. If you lose a non-redundant element, catastrophic failure may occur. Don't lose a column!
- Steel beams and columns lose 50% of their strength at 1100° F.
- Steel beams can sag as low as 600 degrees F, which can compromise structural integrity.
- Concrete beams, columns, and walls lose strength at 600 degrees F and a significant portion of their strength at 1000 degrees F.
- On average, a building is designed using a safety factor of 2:1. The building was designed assuming full strength of all members, and under ideal conditions. No building was meant to be on fire, nor was it designed for that condition! If you are on a fire, not only have all safety factors been eliminated, but the fire has cut into the structural support. Don't count on a non-existent safety factor. You are at a structure for a reason – it is on fire.

Matt Anderson, PE, M.S. structural engineering
Compass Consulting Engineers 406-546-8379



Earthquake Scales

| Moment Magnitude | Richter Magnitude | Mercalli Intensity | Description |
|------------------|-------------------|--------------------|---|
| 1.0 – 3.0 | 2 | I | Usually not felt, detected by Instruments |
| 3.0 | 2 | II | Felt by few, especially on upper floors of buildings, detected by instruments |
| 3.9 | 3 | III | Felt noticeably indoors, vibration like a passing vehicle, cars may rock |
| 4.0 | ... | IV | Felt indoors by many, outdoors by few, dishes and doors disturbed, like heavy truck nearby, walls cracking sound |
| 4.9 | 4 | V | Felt by most people, slight damage; some dishes and windows broken, some cracked plaster, trees disturbed |
| 5.0 | 5 | VI | Felt by all, many frightened and run outdoors, damage minor to moderate |
| 5.9 | 5 to 6 | VII | Everyone running outdoors, much damage to poor design buildings, some chimneys broken, noticed by people driving cars |
| 6.0 | 6 | VIII | Everyone runs outdoors, damage is moderate to major. Damage minor in well designed structures, major in well designed structures, major columns, and walls fall, heavy furniture turned, well water changes; sand and mud ejected |

Earthquake Response



| | | | |
|------|-----------|-----|---|
| 6.9 | 7 | IX | Major damage in all structures, ground cracked, pipes broken, shift foundation |
| 7.0+ | 7 & 8 | X | Major damage most masonry & frame structures destroyed, ground badly cracked, landslides, water sloshed over river banks, rails bent. |
| | 8 | XI | Almost all masonry structures destroyed, bridges fall, big fissures in ground, land slumps, rails bent greatly |
| | 8 & above | XII | Total destruction. Ground surface waves seen, objects thrown up into air. All construction destroyed |



Notes:

Richter Magnitudes (ML) are based on the movement of an instrument needle and increase logarithmically, 10 times for each number jump, so ML 8 is not twice as large as ML 4, it is 10,000 times as large! Richter Magnitude is an open-ended scale.

Moment Magnitude (MW) is the modern version of the Richter Magnitudes. Moment Magnitude is based on the energy released by an earthquake and is also logarithmic, but by a factor of 32, not 10. MW 4 releases 65,000,000 btu while MW8 releases 69,000,000,000,000 btu. The largest Moment Magnitude recorded to date was 9.5 and occurred in Chile on 05/22/1960.

Mercalli Intensity (MM) is based on actual observations of the resulting damage, and therefore can not be measured on instruments.



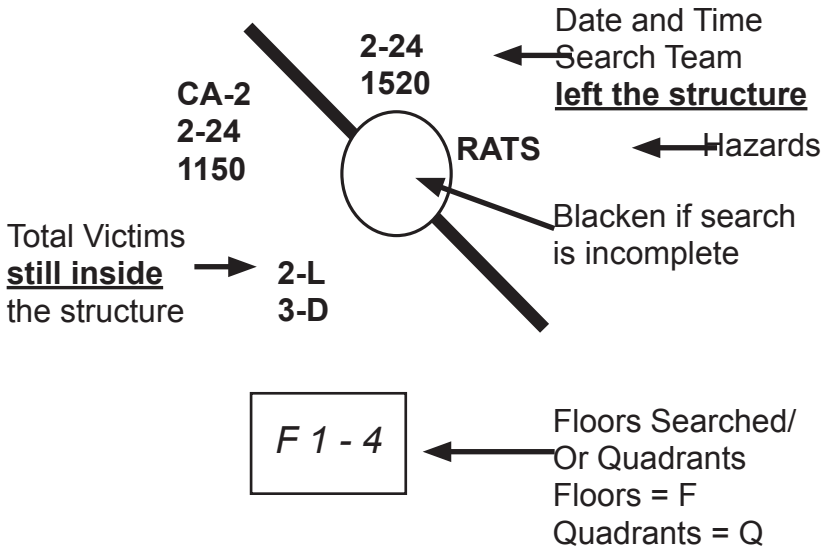
Search Markings

Utilizing the Standard USAR Decal

Main Entrance Search Marking WHEN YOU ENTER

- * Search Team Identifier → CA-2
- * Date of Entry → 2-24
- * Time of Entry → 1150

Main Entrance Search Marking WHEN YOU EXIT - INCOMPLETE SEARCH/ NO ENTRY

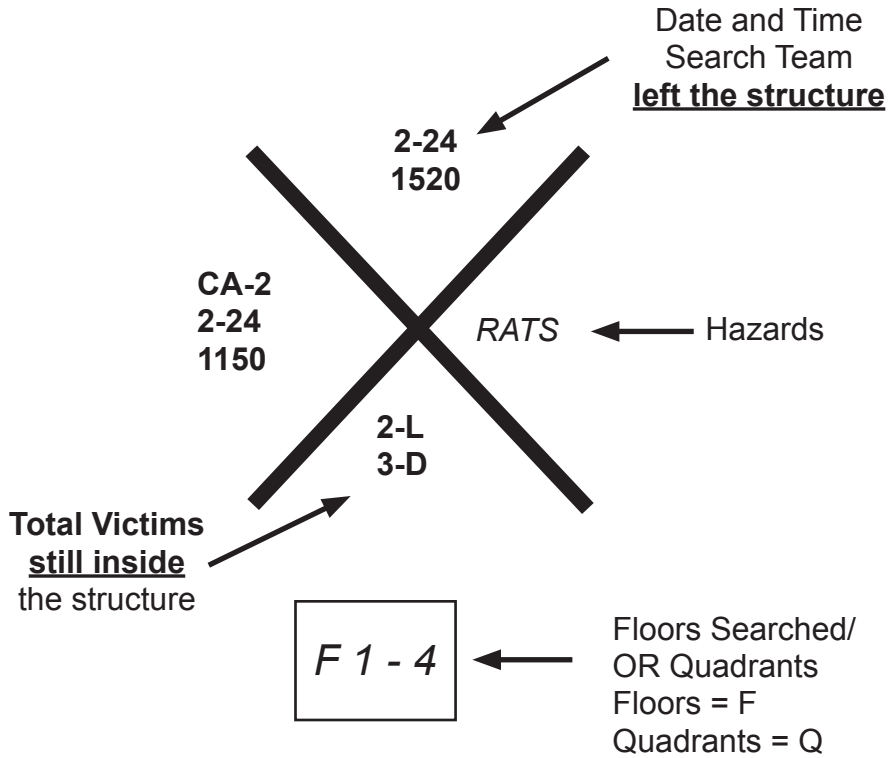


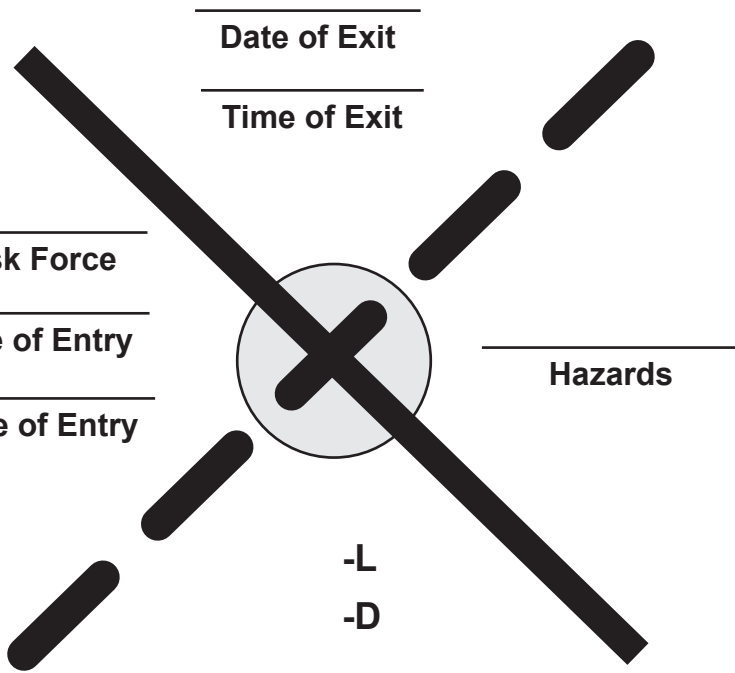
Search Marking

SEARCH MARKINGS (continued)

Main Entrance Search Marking


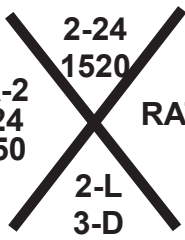
When You Exit - Completed Search





Search Marking

Address:
Areas searched if incomplete

| | | |
|---|--|--|
| <p>***** SEARCH MARKING LEGEND *****</p> | <p>Incomplete Search/No Entry 2-24 1520 CA-2 RATS 2-24 1150 2-L 3-D</p>  | <p>Completed Search 2-24 1520 CA-2 RATS 2-24 1150 2-L 3-D</p>  |
|---|--|--|



USAR - Building Marking System

(US Army Corps of Engineers)

US&R STRUCTURE SPECIALIST FOG ENGINEERING REFERENCE

BUILDING MARKING SYSTEM

GENERAL:

A uniform building marking system has been developed by the National US&R Response System.

There are 4 categories of structural markings:

- Identification Marking
- Structure/ Hazards Evaluation Marking
- Victim Location Marking
- Search Assessment Marking

The building marking system was established to ensure:

- Differentiation of structures within a geographic area
- Communicate the structural condition and status of
- US&R operations within the structure

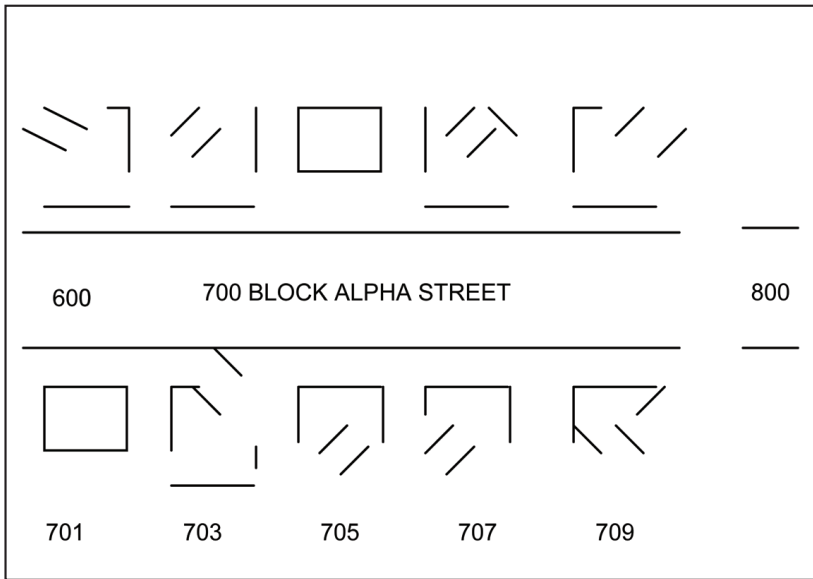
Identification markings on structures should be made with International Orange spray paint and placed on the building surface.

Identification markings should be placed on the normal address side of the structure.

If at all possible, the existing street name and building number will be used. If some previously existing numbers are obliterated, an attempt should be made to reestablish the numbering system based on nearby structures.

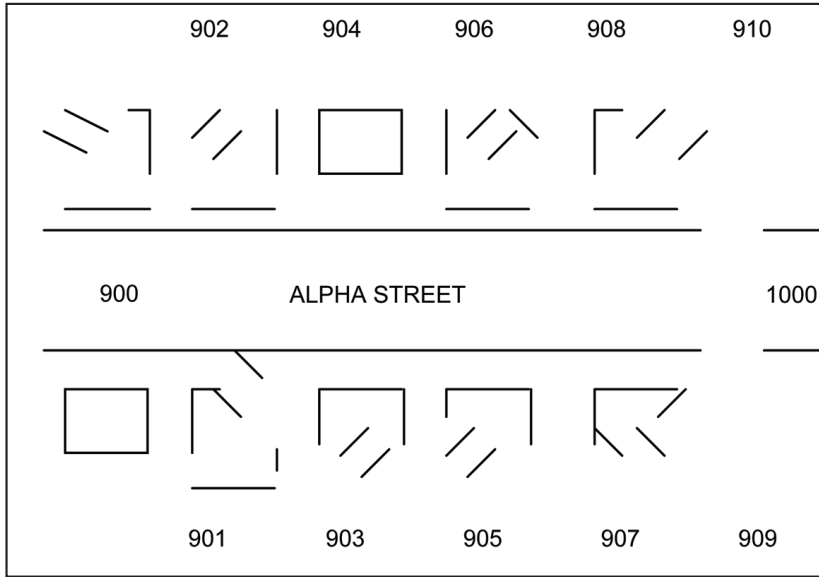
If no numbers are identifiable on the given block, then US&R personnel will identify the street name and number based on other structures in proximity to the site and the structures will be assigned appropriate numbers to differentiate them.

IDENTIFICATION MARKING



Search Marking

Case 1 – Some numbers are known, fill in between



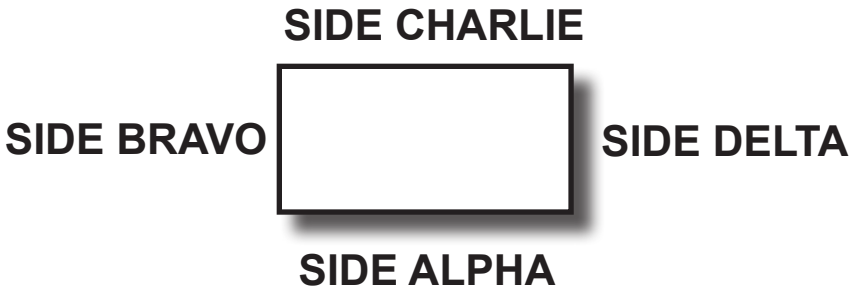
Case 1 – Some numbers are known, fill in between

Search Marking

BUILDING MARKING SYSTEM (cont)

Identification Marking

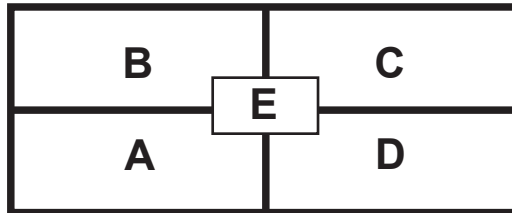
It may be necessary to identify locations within a structure, and refer to locations within a single structure. The ADDRESS SIDE of a structure will be referred to as SIDE ALPHA. Other sides of the structure will be assigned numerically in a clockwise direction from Side ALPHA.



700 BLOCK ALPHA STREET

Building Quadrants

The interior of the structure will be divided into QUADRANTS. Quadrants will be identified ALPHABETICALLY in a clockwise manner starting from where the side 1 and side 2 perimeter meet. The center core will be identified a QUADRANT E.



US&R Structure Specialist FOG

ENGINEERING REFERENCE

BUILDING MARKING SYSTEM (cont)

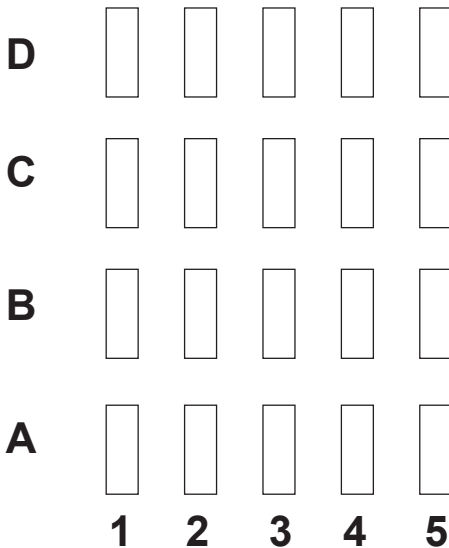
Identification Marking

Multi-Story buildings must have each floor clearly identified. If the floors are not clearly discernible, they will be numbered as referenced from the exterior. The grade level floor will be designated as Floor 1 and, moving upward the second floor would be Floor 2.

Conversely the first floor below grade level would be B-1, the second B-2, etc.

In the event that structural columns require identification, use the existing column grid identification numbering system from the structural plans if at all possible. In the event that the plans are not available use the structural column grid shown below. Mark columns with 2 ft high orange/red letters/numbers. In multi-story buildings, some columns should be with the story level just below the column mark.

(Mark thus: FL-2 for 2nd floor)



Search Marking



Windshield Survey

First Step - Pre-Event

by Capt. Ed Burlingame, Fairfax Co. F&R(ret.), Blankenship FD, MT FSTS)

How

- Divide the potential affected area into pre-designated divisions.
- Establish travel routes that quickly cover as much ground as possible.
- Establish priority structures.
- Select a division command and staging area.

Pre-Event Risk Assessment

Locate and Survey Structures that are important for health, safety, shelter and continuity of services.

- Fire & Police Stations
- Medical Facilities
- Assisted living facilities
- Schools and public buildings
- Churches
- Utilities – Power, water, sewer, gas
- Roads, bridges, culverts
- Dams, ponds, impoundments
- Private structures

Pitfalls & Hazards

- Have the survey for your assigned division ready prior to arrival in the area.
- Avoid stopping to render assistance, keep moving to get the big picture.
- Be objective and cautious of early overstatement or understatement of damages.
- Keep personnel safety in the forefront.



Windshield Survey

| | | |
|---------------------------------------|---|--|
| Date _____ Time _____ | Unit | Route <input type="checkbox"/> NE <input type="checkbox"/> SE <input type="checkbox"/> NW <input type="checkbox"/> SW |
| Road/Highway/ Bridge Assessment | <input type="checkbox"/> Blocked/Trees Down <input type="checkbox"/> Flooded <input type="checkbox"/> Clear Accessible <input type="checkbox"/> Other _____ Location _____ Needs _____ | |
| Damage Assessment | <input type="checkbox"/> Fire <input type="checkbox"/> Trees Down <input type="checkbox"/> Structure Collapse <input type="checkbox"/> Roof Damage <input type="checkbox"/> Flooded <input type="checkbox"/> Snow <input type="checkbox"/> Power Lines <input type="checkbox"/> Electric Out <input type="checkbox"/> Water Out <input type="checkbox"/> Sewers Out <input type="checkbox"/> Other Needs _____ | |
| Victim Assessment | <input type="checkbox"/> Uninjured/Displaced # _____ <input type="checkbox"/> Fatalities <input type="checkbox"/> Injuries # _____ Immed _____ Delayed _____ Minor _____ <input type="checkbox"/> Other _____ | |
| Specific Occupancy Assessment | <input type="checkbox"/> Hospital <input type="checkbox"/> Nursing Home <input type="checkbox"/> Public Assembly <input type="checkbox"/> School <input type="checkbox"/> Comm Office <input type="checkbox"/> Comm Retail <input type="checkbox"/> Electric <input type="checkbox"/> Gas <input type="checkbox"/> Water <input type="checkbox"/> Sewer <input type="checkbox"/> Apt <input type="checkbox"/> Townhome/Condo <input type="checkbox"/> Single Family Target Hazard # ____ Code Color ____ Name/Address _____ Needs _____ | |

Search Marking

Collapse Incident Response

Tactical considerations for the First Responder - Operations Level

1. Stay away from damaged buildings.
2. **Primary assessment**
 - Secure witnesses or responsible person.
 - Determine location, number and conditions of patients/victims
 - Determine intact access to patients, possibility to improve.
 - Is there a way out for responders?
 - Can you make more?
 - Determine location and number of buildings involved.
3. **Secondary assessment**
 - Type of building
 - Building construction type
 - Assess hazards - secondary collapse, gas, electric, water.
 - Assess needs for additional personnel – (search dogs, ARC, structural engineer)
 - Assess need for additional equipment – (100 ton cranes, heavy equipment)
 - Assess transportation conditions – (establish transportation corridor)

4. Subdivide incident organization

- Safety
- Building Triage
- Search
- Accountability
- Extrication (tech rescue)
- Medical - MCI Plan
- Air Op
- Hazmat
(FRO or Tech)
- Staging
- Information
- LE Liason

Collapse Incident Response

1. Rescue Operations

- Remove surface patients
- Make general area safe (traffic, etc)
- Make rescue area safe - secure utilities
- Establish perimeter - deny access
- Establish transportation corridor
- Establish Treatment & Transport areas and morgue – patient accountability
- Remove non-essentials from rescue area
- Establish building triage teams
- Establish planning process for building search teams and rescue teams
- Transfer patients to treatment
- Selective debris removal to support FRO rescues

2. Action plan for specific building

- Determine structure type
- Interview neighbors, survivors to determine how many potential victims and points last seen.
- Obtain building plan or draw crude plan
- Probable location of voids
- Best access
- Multiple, hardened exits for responders
- Basements
- Move info to supervisor and to Planning function

3. Use call out - listen search techniques

Confined Space Incident Response

Confined Space - defined:

1. Large enough to physically enter
2. Not designed for continuous employee occupancy
3. Limited entry and egress

Permit Required Confined Space - defined

1. Atmospheric Hazards
2. Configuration Hazards
3. Engulfment Hazards
4. Any other recognized hazard

Acceptable Entry Conditions:

Oxygen between 19.5% and 22.5%

Lower Explosive Limit(LEL) <10% of the products LEL

Toxicity <IDLH

Monitor the atmosphere continuously.

Source document - OSHA 29 CFR 1910.146



Confined Space Incident Response

Tactical Considerations for the First Responder Operations Level

Phase 1 - Size-Up

Primary Assessment

- Secure witness or competent person
- Identify immediate hazards
- Location, number, condition of patients _____
- Secure entry permit _____

Secondary Assessment

- What type of space _____
- Products in space or last in space _____
- Hazards: atmospheric, mechanical, electrical
- Diagram of space
- Structural stability of space _____
- Required personnel and equipment at scene _____

- Additional resources necessary? _____
- Atmospheric monitoring: ventilation,
- Strategy - offensive(rescue) or defensive(recovery)

Phase 2 - Pre-entry Operations

- Initiate Fire Department Confined Space Rescue Permit
- Make General Area Safe
 - Establish Perimeter
 - Evacuate if necessary
 - Traffic and crowd control
- Make Rescue Area Safe
 - Establish/Affirm accountability
 - Secure hazards - lock-out, tag-out



Trench Incident Response

Trench defined:

- Any trench 4 feet deep or greater must have a means of egress within 25 feet of any worker.
- Any trench with a hazardous atmosphere or a potential hazardous atmosphere that is 4 feet deep or greater must be monitored prior to employee entry.
- An excavation 5 feet deep or greater must have an approved protective system to protect employees from cave-ins.
- Protective systems shall be placed from the top working down and removed from the bottom working up so as to protect the employee during construction or removal.
- Many FDs consider all soils to be “Type C” and protective systems and practices shall be used accordingly.
- Timber shoring should be designed by a registered engineer, licensed in Montana.

Source Document: OSHA 29 CFR 1926

Trench Incident Response (continued)

Phase 1 - Size up

Primary Assessment

- Secure witnesses or competent person
- Identify immediate hazards
- Location, number, condition of patients/victims

Secondary Assessment

- Trench collapse Yes___, No___
- Proper equipment and personnel on scene Yes___, No___
- Additional resources necessary, ventilation, shoring, retrieval system

Phase 2 - Pre-Entry Operations

- Traffic control
- Crowd Control
- Heavy equipment shut down
- Establish zones -
 - Hot <50'
 - Warm > 50' and < 150'
 - Cold >150' out to 300'
- Make rescue area safe
- Establish accountability and lobby control
- Secure hazards - gas, electric, utilities
- Place ground pads
- De-water trench from outside trench
- Monitor atmosphere from outside trench
- Ventilate from outside trench

Phase 3 Rescue Operations

- Make trench lip safe
 - Assess spoil pike
 - Approach from ends
- Place/affirm ground pads

Hazard Zone Command – USAR Notes

General Notes:

Risk management model applies
Search and rescue of Patients (survivable) the objective
Divide area to be searched - assign sectors
Triage structures and likelihood of occupied/survivable (by patients) structures
Hasty - Primary - Secondary Searches by Sector
Load equipment for use - first needed is last loaded
Set up out side, clear area, well lit, outside collapse zone

Basic Approach:

Triage - Hasty - Primary – Secondary (accounting)
Secure site(s) - Deny access
Secure utilities
Survey site(s)
Search for surface patients first - Do the easy stuff first
All quiet - Shout/whistle/horn and listen
Examine for voids
Assess Voids
Bore holes
Check haz-mat (meter)
Search cam - look, mirrors
Enlarge opening
Harden opening
Enter/access

Shore up
Move/remove debris
Extricate

Repeat

Shore up
Move/remove debris
Extricate

Hazard Zone Command – USAR Notes

Info at time of request for USAR - or ASAP – Info

USAR TFs would like to know when you request them:

Weather forecast and NWS/NOAA weather office and zone, web address would be helpful, other reliable weather sources for your area. Also road conditions reports.

Fuel - What is available locally, where is it, do hosts have access to the fuel?

Food - What is available locally, what is it, do the hosts have access to

the food? How is food sanitation/storage? Safety concerns - What are local hazards? What do they need to bring to manage hazard/risk?

Commo plan – radio (especially initial contact, freqs, tones), phone – land line, cell, sat, E-mail addresses Is email functioning? What commo is working in local area?

Hospitals - Are local hospitals functioning? What is their level of care? Level 1 trauma center? Level 2 trauma center? Don't get hurt level trauma center?

Base of Operations (BoO) - Off load location and available help - Fork lift(s)?

Contact person - to connect USAR TF with hosts – all numbers and contact info including e-mail, meet location

Information to have ready for exchange and cross briefing upon the arrival of the USAR Team, an advance element of the USAR team, or the FEMA Incident Support Team(IST).

Hosts should be prepared to exchange the information listed below with the arriving USAR/IST leadership.

The sooner this info is exchanged, the sooner the USAR team can connect with the host responders and go to work.

This is initial briefing information from the National USAR Response System FOG.

Initial Briefing:

Provide copies of maps, pictures, plans, commo info, phone numbers, e-mail addresses, etc.

The current local incident management organization and reporting requirements

Physical location of the Incident Command Post (ICP)

Chain of Command and coordination contact information

Planning/Briefing meeting schedule and location (in MT, Strategy/Planning/Briefing)

Current Situation & Goals and Objectives– C.A.N. report

Operational Issues – consider commo, safety, risk mgmt, emergency signaling, evacuation signals and rally points

Local medical system issues

Communications issues

Transportation issues

Logistical support issues and ordering process

Hazard behavior, safety, health, and security issues

Media issues

Notes from Montana responders in addition to the above

Initial Briefing format:

Connect guest and hosts responders with similar roles .
Provide a place to meet and conduct the Initial Briefing.
The L&C County Fire Council ICP Gallatin County Fire Council and Flathead County ICP trailer are well suited.

Provide copies of maps and pictures. Multiple copies of maps is very useful. Several large format display maps helps USAR Plans folks.

Many copies (50) of 8.5" x 11" or 11" x 17" street maps with street names, addresses, North, and a scale are very useful for the USAR Search and Rescue Teams.

Have folks available to help unload and set up the USAR equipment.

A fork lift is very useful for this process. As many folks as you are able to arrange, probably not more than 30. A fork lift is very useful.

As much as possible, connect similar roles and functions. Line up the host person with the guest person. Same deal with all functions.

Hazard Zone Command – USAR Notes

Initial Briefing Tactical Worksheet: Fill out, hand off to assisting USAR leadership

- Provide copies of maps, pictures, plans, commo info, phone numbers, e-mail addresses, etc.
- The current local incident management organization and reporting requirements
- Physical location of the Incident Command Post (ICP) Chain of Command and coordination contact information Planning/Briefing (in MT, Strategy/Planning/Briefing) meeting schedule and location
- Current Situation & Goals and Objectives – C.A.N. report

Operational Issues – consider commo, safety, risk management

Local medical system issues

Communications issues

Transportation issues

Logistical support issues and ordering process

Hazard behavior, safety, health, and security issues

Media issues

Utah Task Force 1 – Specific Notes

URBAN SEARCH & RESCUE TASK FORCE FACT SHEET TASK FORCE NAME:

Composition

- Tactical unit for search and rescue operations;
- Multi-disciplinary organization:
 - Search element
 - Medical element
 - Rescue element
 - Technical support element
 - Command element;
- Totally self-sufficient for the first 72 hours of operation;
- Full equipment cache to support the Task Force's operations; and
- Supported by DHS/FEMA sponsored Incident Support Team

Capabilities

- Capable of round-the-clock search and rescue operations (two 12-hour shifts).
- Search operations:
 - Physical
 - Canine
 - Electronic.
- Rescue operations in various types of structures:
 - Wood frame
 - Steel frame
 - Unreinforced masonry

- ❑ Sophisticated medical treatment capabilities limited to:
 - Injured Task Force members; and
 - Initial treatment of victims encountered during operations.
- ❑ Technical support capabilities for Task Force operations:
 - Structural integrity assessments;
 - Liaison with heavy equipment/crane operators;
 - On and off site communication capabilities within Task Force, IST, and local jurisdiction; and
 - Hazardous materials assessments

Task Force Support Requirements

Transportation

- ❑ Vehicles/aircraft needed for the movement of the Task Force and cache. We will usually bring our own, but their may be special needs;
- ❑ Medical transport required for extricated victims; and
- ❑ Evacuation required for any injured Task Force member

Communications

- ❑ The Task Force's radios are set to frequency
- ❑ It would be advantageous to provide the Task Force with a radio from the host jurisdiction
- ❑ Reporting requirements need to be identified (how/when); and
- ❑ Secure communications with the medical transport and to member evacuation systems

Initial strategic/tactical briefing

- ❑ If available, copies of past, current, and future Incident Action Plans should be provided;

- Strategic/tactical assignment clearly identified for the Task Force
- Media considerations
- The local jurisdiction's Public Information Officer (PIO) should be identified; and
- The local jurisdiction's media procedures (info release, interviews, etc.) should be identified
- Appropriate area maps, building plans, or other information should be provided

Task Force Mission Capabilities Fact Sheet

DHS/FEMA US&R Task Forces are capable of providing the following additional actions when dispatched to a disaster site:

US&R Operations

- Conduct physical search and rescue operations in damaged and collapsed structures;
- Provide emergency medical care to disaster response personnel;
- Provide emergency medical care to the injured;
- Reconnaissance duties – assess damage and needs and provide feedback to local, State, and Federal officials;
- Assess and shut off utilities to houses or buildings;
- Assess hazardous materials surveys and evaluations of affected areas;
- Conduct structural and hazard evaluations of government and municipal buildings needed for immediate occupancy to support disaster relief operations; and
- Assist in stabilizing damaged structures, including shoring and cribbing operations, on damaged buildings as required.

Citizen Assistance/Outreach

- Direct citizens to available response and recovery services such as medical, food, water, shelter, etc., once established;
- Distribute tarps, sheeting, and furring strips to occupants of damaged dwellings; and
- Assist homeowners and occupants in securing their property from the effects of weather, looters, etc

Assistance to Local Emergency Response Personnel

- Assist local emergency response personnel in coordination of their response efforts;
- Assist in the establishment of emergency communications links;
- Clear streets, highways, airports, and government support facilities of trees and debris.
- Mark and identify streets and buildings;
- Manage, direct, and train local volunteers and first responders in basic US&R operations; and
- Provide medical treatment information to local physicians on disaster-disaster-related injuries such as crush syndrome.



Urban Search & Rescue Task Force Medical Team Fact Sheet

Task Force Name:

Composition

Organization:

- Medical Manager(s) (emergency physicians); and
- Medical Specialists (Paramedic/RN-qualified);
- Totally self-sufficient for the first 72 hours of operation; and Full medical equipment cache to support the Medical Team's operations.

Capabilities/Limitations

- Designed to provide sophisticated (and possibly prolonged) pre-hospital and emergency medical care;
- Medical Team treatment priorities:

First Treatment of Task Force members, including canine (and support personnel);

Second Entrapped victims directly encountered by the Task Force; and

Third Others as practical;

- It is not the intent of the Medical Team to be a freestanding medical resource at the disaster site;



- Capable of round-the-clock operations (two 12-hour shifts);
- Comprehensive medical equipment cache designed to support:
 - ✓ 10 critical cases
 - ✓ 15 moderate cases
 - ✓ 25 minor cases; and
- It is expected that Task Force “fixed asset” medical equipment (i.e., defibrillators, monitors, ventilators, etc.) will not leave the rescue site with any patients but will be maintained for the continued protection of the Task Force members.

Medical Team Support Requirements

Transportation

- Medical transport required for extricated victims; and
- Evacuation required for any injured Task Force member;

Communications

- Reporting requirements to the Incident Command Post; and
- Secure communications with the transport systems listed above;

Medical hand-off procedures for victims

- Type of triage tags being used;
- Exchange of assets (backboards, splints, etc.); and if necessary; procedures for handling deceased victims;

Designated local medical liaison for special medical needs

(Emergency Medical Services (EMS) Medical Director or equivalent).

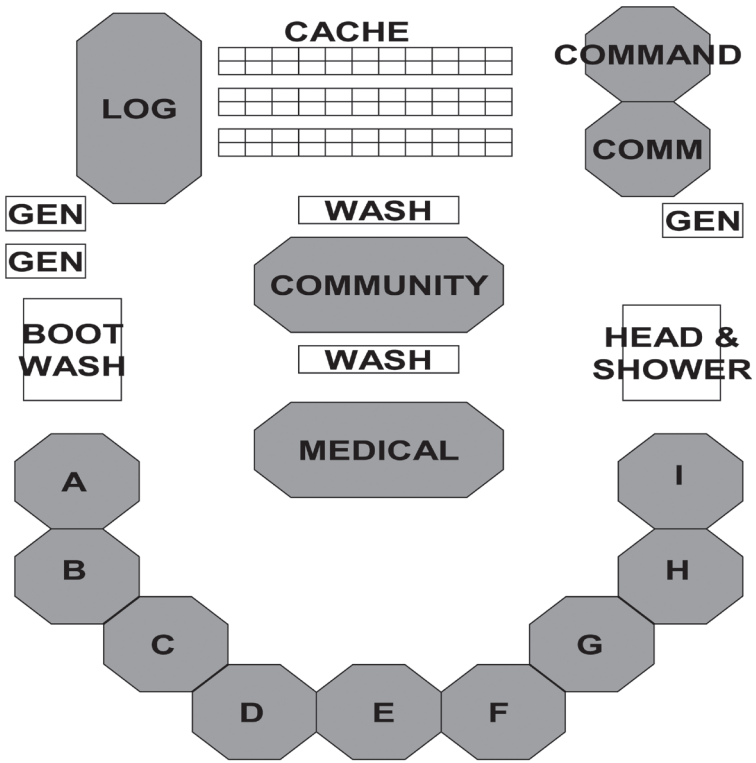
Base of Operations (BoO)

The selection of a BoO is one of the most important determinations made during a deployment. The specific location may be predetermined by the local jurisdiction or the IST prior to the arrival of the Task Force. In absence of the IST, the TFL must identify an appropriate site. Regardless of who makes the determination, the following factors should be considered:

- Proximity to the rescue work sites;
- Useable structures for shelter and cache set-up;
- Safety of useable, adjacent structures;
- Sufficient open, level space;
- Access to transportation routes;
- Safety and security;
- Tranquility (facility's quality to accommodate resting off-duty personnel); and Environmental considerations.
- Minimum size in Montana, UTTF 1 prefers about 2 acres, 400' by 200', prefers paved surface with water drainage. The USAR FOG suggests an area about 150' x 110' area is minimum needed to set-up the BoO.

Preferred size 400' x 200' (with a minimum of 150' x 150')

USAR Base of Operations Diagram



Rescue - USAR

Utah Task Force One Contact information

Erik T. Sandstrom

Unified Fire Authority
US&R Battalion Chief
2651 South 600 West
Salt Lake City, Utah 84115
Cell 801-824-3709
Fax 801-977-5127
Email: esandstrom@ufa-slco.org

Dave Vialpando

Salt Lake City Fire
US&R Captain
2651 South 600 West
Salt Lake City, Utah 84115
Cell 801-913-3658
Office 801-977-5118
Email: david.vialpando@slcgov.com

Salt Lake City Fire Dispatch

Dispatch Center 801-799-4231
Fax 801-799-3684

Wildland Urban Interface

*Common Benchmarks, Tactics and Critical
Factors for Wildland Urban Interface*

*Wildland Fire Behavior and Weather
Interpretations*

*Structure Protection in the Interface -
Triage Factors*

Wildland Fire - Interface

Common Benchmarks & Tactics for Interface

(2006-09)

1. Primary All Clear and Fire Control

Strategy and Tactics and Orders

Offensive when FFs are in LCES and the hazard is behaving.
Go defensive when FFs cannot do LCES or fire isn't behaving.

Evac Warn/Order

LCES & predict FBx,
Accountability
Deny Access

Defend Structure

LCES & predict FBx
Triage LCES by
home, Primary
Search- Prpe

Attack the Fire

LCES & predict FBx
Pick fight favoring FFs,
Protect Exposures

To Do:

| | |
|--|--|
| <input type="checkbox"/> Establish On Deck , forward deploy, brief, recon(TI), improve egress, establish Triage | <input type="checkbox"/> Supply water to pumper (Offensive - lay in, or 1st tanker, direct connect) |
| <input type="checkbox"/> Access & Egress - open up new access & egress - in and out, mark routes | <input type="checkbox"/> Secondary Search/All Clear - Occupant / Customer Accountability - Customer care |
| <input type="checkbox"/> Check for extension , all sides, spotting, downwind, upslope, burned/unburned line | <input type="checkbox"/> Rehab - set up, connect w/ EMS |
| <input type="checkbox"/> Check for extension in exposures -layers /voids/Loss Control(TI) | <input type="checkbox"/> Aggressive Loss Control |
| | <input type="checkbox"/> Assign - <ul style="list-style-type: none"> <input type="checkbox"/> Liaison <input type="checkbox"/> PIO <input type="checkbox"/> Customer Care |

2. Loss Stopped

- Aggressive Loss Control - Clean up, cover up, store (with SCBA)
- Check for extension(TI)
- Monitor atmosphere inside

3. Incident Stabilized & Customer cared for

- Customer Care/Recovery Assistance to customer - connect

Local Incident Management in the Interface

| CRITICAL FACTORS FOR ICS IN THE INTERFACE (2007-11-03) | | | | |
|---|---|------------------------|--------------------------------------|--|
| Risk Management | Nothing savable - no risk to FFs- Protecting savable property - Risk a little- Protect savable lives - Risk a lot | | | |
| Critical Factor | Discernable | Clearly present | Serious Hazard | Extremely Severe Fatal Unknown |
| Safety Zones | Site specific, and Okay (for apparatus, for personnel) | | Anything else | |
| Lookouts | Can see hazard and FFs | | Anything else | |
| Communications | First call, immediate answer (within crew, adjoining crews, to supervisor) Anything else | | | |
| Escape Routes | Site specific, and Okay Anything else | | | |
| Slope | Fire at above top of slope | Flat | Midslope, Fire below FFs, down slope | |
| Aspect | NNE E | SE | S or SSW | |
| Wind | Calm | >10 mph | >20 mph | >30 mph (higher winds = extra SZ - defensible space) |
| S.A.W. Alignment | None (no two or more factors in alignment) 2 factors in alignment | | 3 factors in alignment | |
| Able to see FFs | Can see all FFs and fire | | Can not see some FFs | Can not see FFs |
| Spotting | None | Any | Some | More Lots |
| Fuel | None/Sparse | | Grass | Canopy |
| IC's Instinct | Okay | Uneasy | Nervous | Stressed Oh Shit |



Wildland Fire Behavior and Weather Interpretations

(Thanks to Eric Kurtz, Sonny Stiger, Tim Murphy and JP Harris)

Winds: Major factor in spread of fire and spotting.

Breeze - concern if fire is in light fuels (grass).

>15 mph - can cause fire in 1000hr fuels to run.

Aspect: The direction a slope faces. Major factor in intensity.

South-West - lots of afternoon solar pre-heat, will burn hard and fast

Slope: The steeper the slope, the harder and faster a fire will burn.

Adjective Class: Overall index of fire danger.

☐ High ☐ Very High, or ☐ Extreme are important.

Red Flag Warning, Fire Wx Watch, Front coming through, Severe Wx Warning:

Big deal! winds \geq 15mph, shifting winds.

Red Flag Warning - significant event, 4-6 hours out

Temperatures: Maximum at 85oF or above is noteworthy

1000 hr fuels: % Fuel Moisture in 3" and bigger fuels

12% or less is critical, % Fuel Mmoisture in fuels <1/4"(grass, brush) <7% is critical fire behavior indicator

Burning Index: Temps and winds – Rate of fire spread 60 + is noteworthy

Energy Release Component: How hot will the fuels burn?

50 + is noteworthy

Haines Index: Probability of extreme fire behavior 5 or 6 rating out of max. of 6 is critical

Relative Humidity: < or = to 15% is critical

Humidity Recovery: Especially in light fuels(grass).

40% or less - Active burning, intensive patrol





Structure Protection in the Interface - Triage Factors

Positives:

- + A structure on a ridge with the roadway or driveway on the opposite side from the approaching fire.
- + A structure with 100 feet or more of clearance and no ornament vegetation near the weak points of the structure.
- + A structure where safety zones are obvious (large green areas or natural barriers).
- + Fire Approaching from a higher elevation than the structure you're protecting, with little or no wind.
- + A backing fire (fire burning against the wind toward your location).
- + A north or east aspect. Because of lower fuel temperatures, & higher fuel moisture. Structures on these aspects are generally safer to protect provided wind speed is low (less than 15 mph)
- + An available source of water, such as a hydrant, private water tank, swimming pool, spa, or garden hose supply. We recommend connecting to a hydrant if one is available and you plan on staying.

Negatives:

- Any structure on a slope (mid-slope structure) with the fire approaching from below.
- A structure that is in a draw (the terrain in an in-turn), or in a saddle.

Structure Protection - Interface – Negative Triage Factors:

- A structure that is w/o defensible space, or in a saddle.



- A structure that will require locating your engine between the structure and the fire without adequate defensible space.
- A structure that has considerable vegetation (ornamental or native) impinging on it.
- A structure that has an LPG tank that is impacted or exposed with brush or other combustibles.
- A structure or road that has trees surrounding it, or branches entwined from tree to tree, giving the structure or road the appearance of being in a tunnel or cave.
- A steep slope below the structure.
- Heavy fuel below your location.
- A structure that looks like a junkyard with considerable flammable, easily ignitable material, such as old construction wood, piles of brush or leaves.
- A south, southwest, or west aspect (the direction the slope faces). These aspects are the most hazardous on which to defend a structure & will require additional defensible space.
- Time of day which should be considered as a unit with aspect. We highly recommend Campbell's Fire Prediction System class to improve your size-up or triage ability.
- Fuel type and height. Sagebrush will burn much faster than the heavier fuels, especially if they have grasses as a component of their fuel bed. These are considered light, flashy fuels.
- No water source or limited water source. Remember, don't bet crew member lives, or apparatus, on water supply or a hose line
- A wood-sided structure or one with a wood shingle roof



Notes:

These are a few of the many negatives and are just that. They're not red lights, but yellow lights. However, if you have numerous yellow lights, you might have to re-think". Do the tactics still match the current conditions?" Re-evaluate your position, and reaffirm the location of safety zones - and the time and distance to reach them - for all members. After establishing LCES and making a fire behavior prediction use any available time to mitigate negatives, such as native or ornamental fuel, removing combustibles that would perform as a host for spot fires or spread.

Thanks to Battalion Chief John P. Harris, County of Los Angeles Fire Department (ret.) for writing this stuff down and sharing it.

Notes:



Hazard Zone Command

Standard Assignment for Recon

Standard Briefing by IC

Critical Factors for Larger Incidents

Command Helpers

Haz Zone Command 1 Hr ET Conversation

MMA Task Forces

MMA FD Transport Ambulances

Haz Zone Logistics and Finance

Unified Command

Media Guide

Public Call Centers



Standard Assignment for Recon - Situation Status

If Command will be sending out crews to learn about what is happening in an area, here's some standard considerations for that assignment.

Risk management plan based action FFs may:

- risk a lot to protect a save-able life,
- risk a little to protect save-able property, or
- risk nothing to save lives or property already lost

Stay together - Company/TF-ST/Division-Groups

Communication - first call, immediate answer (talk-in-up-side ways)

Don't deploy beyond your comm / Simple, to the point communications, use CAN reports

Trigger points - Hazard behavior - Withdrawal from hazard

Don't fishhook yourself or your company

Rally plan -- Decision points, locations, comm plan x 3, updated

Push information to Plans (up) - Push situation status - CAN reports

Do the situation status - triage - don't get sucked into it

Tell us what will be needed to resolve problems - solutions

Pre-plan what to do, when you don't know what to do

On-Deck crew(s) or RIC organic to TF-ST / Division-Groups

Tracking/Accountability – Written who, where, when, what

Reporting to/on what frequency - affirmed contact – Go only as far as your comms – comms is your ticket to ride



Standard Briefing - IC to Arriving Help

Your direct supervisor is _____

You directly supervise _____

Our customer is _____

Communications - first call, immediate answer (in-out-up-down-side)

Area of operation _____

Adjacent forces _____

Staging _____

Base of operations _____

Affirm risk management plan, why

RISK A LOT, RISK A LITTLE, RISK NOTHING

Logistical support – how _____

What _____

Service interruption time line - push-pull _____

Rally plan – decision points, locations, comm plan x 3, updated

Check in – demob _____

Tracking(written - who, where, when, what) procedures

Map information _____

Escape routes _____

Safety zones _____



Thresholds/Decision points _____

Local issues - emerging, ongoing, historical, sensitive points

Planning cycle - strategy/planning/briefing/gather intel

Operations cycle –
When are you going to start working? _____

Stop working when? _____

Known local contacts in area of operation _____

Hazards in area of operation –
Known _____

Suspected _____

Historical hazard behavior prediction _____

Record personnel time, equipment time

Purchases - Incident name, print your name, Organization
name, date and time

Notes:



Thoughts on Critical Factors for Large Incidents

Determination that something is a large incident, and that you will need mutual aid should flow directly out of the incident size-up.

Questions to ask yourself during size-up:

- | | | |
|--|---|---|
| 1. Is this (or will it soon be) geographically large? | Y | N |
| 2. Is this gonna take more than 8 (?) hours? | Y | N |
| 3. Is the weather an additional problem? | Y | N |
| 4. Does this involve a technical specialty (HazMat, tech rescue, etc) | Y | N |
| 5. Is this politically sensitive (ex: school, nursing home, etc)? | Y | N |
| 6. Is there another political body that will have an interest? | Y | N |

**If the answer to any of these is yes, you need mutual aid.
Move on to the following questions:**

1. How much of what resource do I need?
 - Firefighting (geography, intensity of work)
 - Rescue (intensity of work)
 - EMS
 - Law Enforcement
 - Specialties
 - i. Haz Mat
 - ii. Tech Rescue
 - iii. Large equipment
 - Strategic reserve
2. How much management help do I need?
 - Gee, I can't figure out the answer to #1
 - Geographical/functional divisions
 - Liaisons with other agencies or political bodies
 - PIO
 - Safety
 - Senior Advisor ((your name here) control)
 - Gee, I wish someone was managing the immediate operations while I figure all this out

3. Meeting management

- Some place as quiet as possible
- Everyone who needs to be there is there, but there are no extras this is not a spectator sport
- Whoever's conducting the meeting needs to be fierce about keeping it on track and only as long as possible
- IC needs to listen to options, but then be decisive and end the discussion

4. Information dissemination

- In writing if possible
- Consistent message(s) to everyone
- Deliver just once if possible to assemble everyone who needs to hear it
- As simple as possible and still have enough detail to get the right work done
- Confirm understanding

Hazard Zone Command

Command Helpers

Ed Burlingame (Flathead Co) – Plans, Logistics, Safety
Bob Burlingame – Commo, logistics, planning, safety, Haz Mat
Craig Campbell - 570-4272, can help with most areas
Rich Cowger (Stillwater Co) – IC Support, Ops, PIO, Liaison, Safety, Plans
Brian Crandell IC Support, Ops, Safety, PIO, Liaison, Plans, Finance
John Culbertson (Gall Co) – Haz Mat, a lot of other stuff, too.
Nate Curtis c-788-9339
Mike Doto (Silver Bow) – Logistics, Ground support
Bob Drake (L&C Co.) – Finance, Logistics, Plans, PIO
Jane Ellis (Rav Co) – IC Support, Finance, Plans, PIO, Liaison
Ross Fitzgerald (Power) – Logistics, Operations
Bob Fry (Park Co.) – IC Support, IC Liaison, PIO, Ops, Plans, Safety
Britton Gray (YNP) – Structural IC Support, Ops, Safety, Plans
Steve Harada (Wolf Point) – IC Support, Operations, Safety
Jason Jarrett (Gall Co) – IC Support, SAR & LE Liaison, Operations, Safety, PIO, Plans, Commo, AAGG
Tom Kuntz (Red Lodge) – IC Support, Liaison, PIO, Plans
Terry Larson – Logistics, Operations, Safety, Plans – Tech Spec (heavy equipment, rigging), Haz Mat
Doug Logaugh - c 750-6046, all kinds of help
Dave Maser (L&C Co) – Plans
Dave Mason (L&C Co) – IC Support, Structural, Operations
Jim Mastin – Structural – IC Support, Ops, Water Supply
Tom McIsaac (FSTS) – IC Support, Ops, Plans, Liaison
Ken Mergenthaler (L&C Co.) – IC Support, Ops, Logs, Liaison, PIO, commo
Kevin Ore (L&C Co) – Safety, Ops, Interface – Structure Protection
Ed Shindoll (B'water Co) – IC Support, Structural
Bruce Suenram (MT. City) – IC Support, Plans, PIO, Safety, GIS
Scott Waldron (West Yellowstone) – IC Support, Ops, Safety, Interface – Structure Protection c#640-1033
Butch Weedon (GoreHill) IC Support, Ops, Plans
Bill Wegner (L&C Co.) – Logistics, Operations
Doug Williams (Ft Benton) – Plans, Safety, PIO
Brian Nelson – Wibaux FD – IC Support, handy guy
Craig Jepson – 406-498-5444, all around good guy
John P. Harris – 760-631-4329, 760-522-0298, will come to MT when asked, can be in MT in 4-12 hrs, interface, structure protection

Command Helpers 1 Hour ET Conversation Checklist

Standard Command Situation Status, Forecast, and Action Planning

1. What is the deal here?

What are the Conditions?, Actions?, Needs? (CAN)

What are the customer's needs?

Who are they?

What do they want?

Who/what are they connected to?

What/who is our Management Staff connection to customers?

What is at risk?

What is the applied Risk Management profile at this incident?

Immediate/Intermediate/Long-term

What is our resource status?

Fire fighters, MS? #, duration, later increments

Other FDs

Customer self help

Customer - neighbors

Customer - contractors

Coverage plan for effected FDs

Logistics indigenous/in the pipe line/available

Who has the jurisdictional responsibility for this incident?

Current Assumptions – Strategic (MS), tactical (crews)

Current Actions:

Strategy, strategic goals, tactical objectives and tactics?

Effectiveness? How to improve?

Efficiency? How to improve?

Who are we connected to in relation to outcomes/hazards?
(i.e. Northwest Energy, landowner)

2. What are three forecasts of outcomes?

Related intervention options?

Assumptions?

How do we get our neighbors (FDs) home?



How do we get home?
 How do we get customer referred/handed off (NGOs)/
 stabilized?
 Intervention options - Immediate/intermediate/long term
 assumptions/impacts
 What are our strategic goals and what are our strategy
 options?
 What objectives can we affect?
 Tactical requirements to complete objectives?
 What resources do we have to work with?
 Risk Management Profile for options from no intervention to
 Maximum intervention
 What is do-able (positive outcomes/influences) with what we
 have available?
 Is there a role for a responsible private individual (owner/
 contractor etc.) in this incident?
 Can we reach agreement with them about alternatives and
 preferred alternative?
 How effects FFs
 How effects customers
 How effects routine service delivery (us and neighbor FDs)
 How are we living with a bad situation?
 What is the highest value we can get for the time fire fighters
 are going to spend here?



3. Command Plan for Incident -

What are the challenge and verify time frames for this
 escalated incident?
 Who will challenge and verify? When?
 What is the command helper plan for this incident?
 Have we conferred with every available management staff?
 Recently? Fully informed?
 Have we called (phone)/talked to every member to see how
 they can contribute to the plan?
 Is there a person responsible for this incident?
 What is the standard logistics plan for this incident?
 Drinking water? Sanitation? Food? Shelter?
 Communications? Fuel? Transportation? Coverage? Relief?
 Rehab (med)?
 What is the sustainable water supply plan for the extended
 operations.



History of long duration:

Any event with ongoing operations at the 1 hour elapsed time/mark.

USFS calls with a smoke/fire in the National Forest and asks for Help.

Hay stack fire / Buried slash pile / Tire fires.

House fires that don't respond to offensive operations within 20 minutes.

Response to a mutual aid extended/escalated operation.

Out of county dispatches (first crew back home at alarm time plus 12 hours)

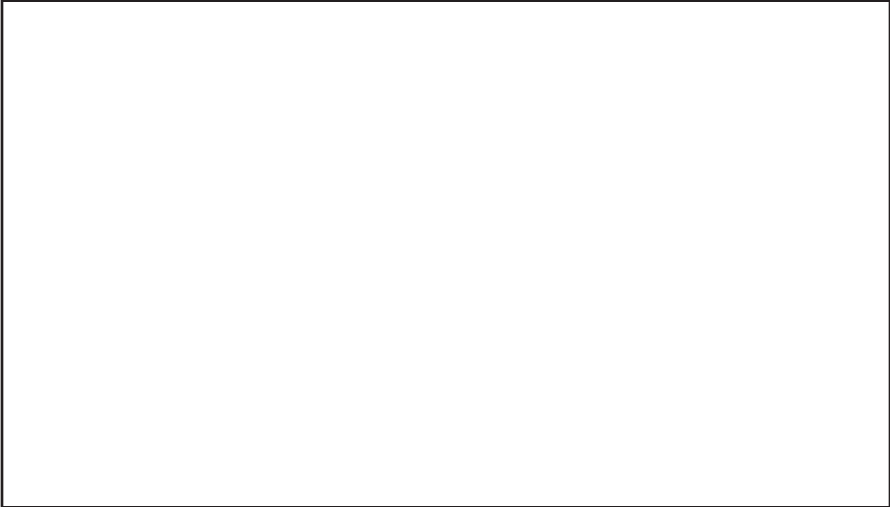
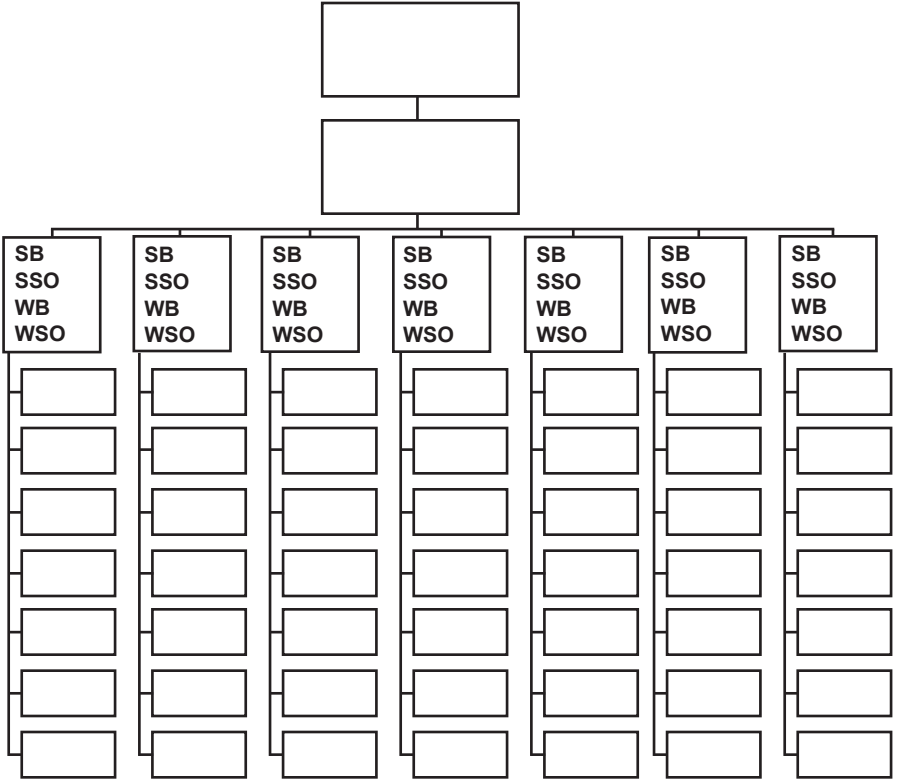
Road blockage, serious, need heavy equipment.



| | | |
|--|-----------------|----------------------------------|
| Hazard – Behavior & Potential Prepared by: | Location | ___/___/___ @ ___ Date Time |
| Hazard Location – Hazard Behavior & Current Location | | |
| Hazard Zone | | |
| Exposed | | |
| Not Involved | | |
| Weather –Wind-Direction/Speed | | Temp |
| Risk Management Model – Firefighters may, in a calculated manner: | | |
| Risk their lives a lot to protect a save-able life | | |
| Risk their lives a little to protect save-able property | | |
| Risk their lives at all to protect what is already lost | | |
| Critical Factors: see MMA Blue Book for hazard specific critical factors | | |
| People involved or exposed | | |
| Weather – wind and temp | | |
| Strategic Goals | | |
| <input type="checkbox"/> Responder operate safely <input type="checkbox"/> Provide for the safety of involved and exposed members of the community <input type="checkbox"/> Stabilize hazard, minimize spread of the hazard <input type="checkbox"/> Limit impact of hazard <input type="checkbox"/> Inform community & media about what is happening resulting from the incident <input type="checkbox"/> Respond in a manner that is cost effective <input type="checkbox"/> <input type="checkbox"/> | | |
| Safety Notes – Who is assigned to Safety | | |
| Item | Location | Resolution |
| <input type="checkbox"/> Wear PPE | Incident Wide | All properly worn |
| <input type="checkbox"/> Crews stay together | “ | Stay with crew, look for boss |
| <input type="checkbox"/> Communication connection | “ | Slow down to go faster, click it |
| <input type="checkbox"/> Driver slower - Seatbelts fastened | “ | Awareness and barrier from |
| <input type="checkbox"/> Respect traffic | | |
| <input type="checkbox"/> EMS Plan – Report medical emergencies to your supervisor as a “Mayday”. Use EMS people in your crew to provide initial care, arrange transport (fly/drive) | | |



Organization, Staffing & Communications Plan



Setting around the event

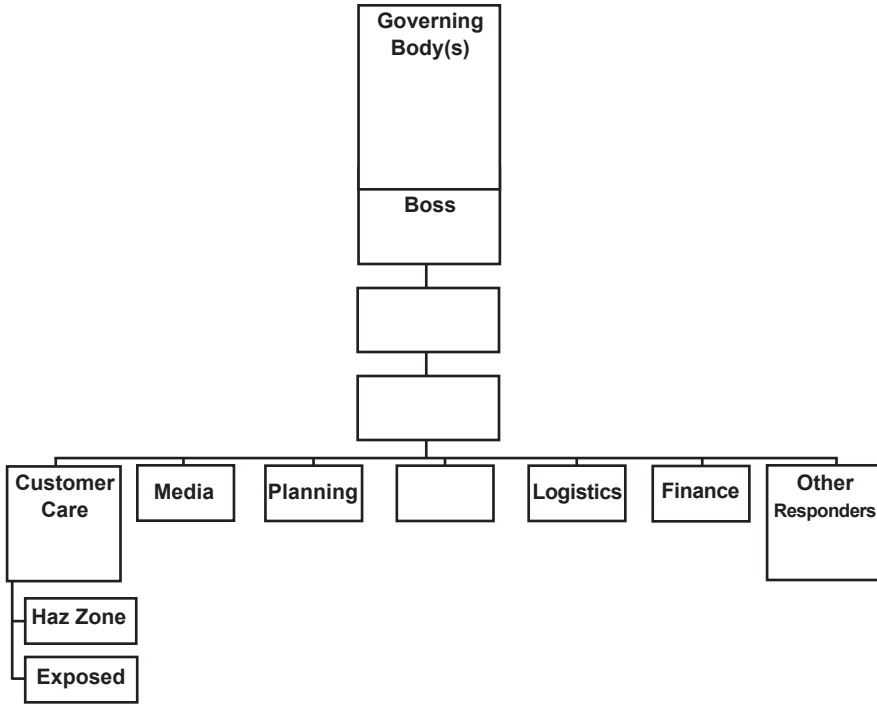
| Customer Care (Haz Zone Involved & Exposed) Contact Numbers & Email | | |
|---|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Reverse notification, AM | | |

| Logistics | | |
|----------------------------|--|--|
| Fuel | | |
| Food & Drinking Water | | |
| Porta-Potties, handwashing | | |
| MMA | | |
| Comm-Xtra Port, Rpts, AM | | |
| | | |
| | | |

| Planning | Contact Numbers & Email | |
|-----------------|-------------------------|--|
| | | |
| | | |
| Haz Behavior | | |
| Intel | | |
| GIS - maps | | |
| Weather Service | | |

| Finance | Contact Numbers & Email | |
|-------------------|-------------------------|--|
| | | |
| | | |
| Admin | | |
| Compliance | | |
| Legal information | | |

| Responding Agencies | ICs' Contact Numbers & Email | |
|-----------------------|------------------------------|--|
| LE | | |
| Roads/Public Works | | |
| Utilities | | |
| Weather | | |
| MDOT | | |
| Engineering Community | | |
| Ham Radio | | |
| | | |
| | | |



| Bosses | Contact Numbers & Email | |
|--------|-------------------------|--|
| | | |
| | | |

| Governing Body(ies)/Elected Officials | Contact Numbers & Email | |
|---------------------------------------|-------------------------|--|
| | | |
| | | |

| Media | Contact Numbers & Email | |
|----------------|-------------------------|--|
| | | |
| Reverse 911 | | |
| Tech - Twitter | | |

| Customer Care | Contact Numbers & Email | |
|--------------------------|-------------------------|--|
| | | |
| | | |
| Family Care - Responders | | |
| | | |

Task Forces available through Montana Mutual Aid

250 Fire Fighters

Lewis and Clark and Jefferson Counties Rescue Task Force

50 Fire Fighters and 6 Management Staff

Point of Contact: Lewis and Clark Co. Fire Coordinator (see page 4)

Ask for “Maximum Rescue Deployment Mutual Aid Run Card”

Flathead County: 25 Firefighters and Command Staff

Call Flathead Dispatch 406-758-5610 and ask that they page: Gary Mahugh, Chief 2501, Rodney Dresbach, Chief 1101

Gallatin and Park Counties Rescue Task Force

50 Fire Fighters and 12 Management Staff in 6 or more vehicle

Points of Contact: Call Gallatin County 911 Center at 406-582-2124 or 582-2100, ex 2 ask the dispatcher to page one of the following - Chief Jason Revisky(Big Sky Fire), and or Dave Hoekema (Amsterdam Fire)

Hi Line Task Force:

15 Fire Fighters and Management Staff

Phillips County - Clark Kelly, h 654-1969, w 654-2087

Mike Flatt ,County Chief c 390-1646, w 673-3252

Phillips County Dispatch 654-1211

Blaine County - Kraig Hansen Fire Chief, 357-3691 or cell 945-3834

Valley County - Bob Hanson- 263-5733, dispatch 228-4333

Glasgow City- Ryan Stone Chief, home 228-8665, cell 263-7865

Fort Peck - Joe Yeoman, 263-0080

Cascade County and Points North Rescue Task Force

20 Fire Fighters and Management Staff

Points of Contact Vaughn FD - Nate Curtis c-788-9339, Leonard Lundby or Gore Hill FD Command Staff (Chief Weedon [788-0222], others) at Cascade Co 911 454-6879

Stillwater and Carbon Counties Rescue Task Force

20 Fire Fighters and Management Staff

Rick Cowger (Columbus FD, 406-321-1180) @ Stillwater County 911

Center 406-322-5326 or Tom Kuntz(Red Lodge FD, 406-855-6198) @

Carbon County 911 Center @ 446-1234

Missoula Co

15 Firefighters and Management Staff

Points of Contact: Frank Maradeo (Missoula Co) Missoula Co Disp
406-258-4760, c - 406-210-1250, FS -406-677-2400

Silver Bow County Rescue Task Force

15 Fire Fighters and Management Staff

Mike Doto, c 491-9368, Mike Leary @ BSB 911 #782-4224

Eastern Montana Rescue Task Force

40 Fire Fighters and Management Staff

Steve Harada, Fire Chief, work 768-5476, Doug Hopson Asst. Chief-
cell 650-8022 add to Wolf Point/Roosevelt County

Curtis Petrik Chief- Plentywood, Cell 765-8525, Randy Guenther
Chief- Medicine Lake c- 489-0399, Sheridan Co. Dispatch 765-1200

Valley Co. Long Run, - Bob Hanson- 263-5733, dispatch 228-4333

McCone Co./Circle VFD, Jess Beery Chief, 939-3318 c, 485-3313 h

Tim Mort West Glendive FD c 989-1015, h 365-5726, w 365-2177,
Dawson Co. 911 – 377-2364

Dwight Tague – Terry FD – c 951-6165, h 635-5702, 911 Center- 788-
7101

Brian Nelson – Wibaux FD – c 701-218-0267 or 701-872-6648, h,
406-795-2605, 911 Center -795-2222

Randy Hoenke - Baker FD - c-978-3473, h 788-2566, w 778-2167,
911 Center -778-7139

George Lane - Glendive FD – c 939-3340, 911 Center 377-2364

Montana Fire Department Based EMS Transport Resources

(Under Development)

Carbon – Red Lodge

Stillwater - Columbus

Flathead – Whitefish, Evergreen, Olney

Gallatin – Big Sky, Three Forks Ambulance, West Yellowstone
Fire

Notes:

Hazard Zone - Logistics Support

Stuff folks have that they will share - you call, they haul, that's all.

Drinking water – In the possession of the FD. .5 liter, or more per bottle, by case or pallet, note: it takes about ½ pallet of drinking water per day for a TF.

Eastgate F.D. (L& C Co.) 1 pallet, .5l bottles

West Yellowstone FD (Gallatin Co.) 1 pallet, .5l bottles

SCBA compressor and fill station mobile trailers -

Ravalli County – Three Mile FD

Lewis Clark County – West Valley FD

Silver Bow County – Centerville FD

Gallatin County – multiple air cascades, no mobile compressors

Motor Fuel – Mobile

Eastgate FD – 100 gallons

Central Valley FD – 100 gallons (Support 1), fill to order

Hand sanitizer (bulk or single towelettes)

Toilets – portable

Incident Command Post – mobile

Lewis and Clark County

Gallatin County - mobile command post 6-CV through Gallatin County Sheriff 582-2124, and ICP Trailer - Central Valley Fire

Safety Equipment – PPE (gloves, N-95 mask, eye protection)

Hand tools – (sledge hammers, pry bars, shovels, buckets, claw hammers, wonderbars, Channel loc pliers, etc)

Generators and lights

Extension cords – 12/3 or better, 100'

Markers – permanent, dry erase, duct tape, spray paint, logging crayons

Barrier Tape – “Fire Line”, “Hazard”, etc.

Search Camera –

Flathead County thru Creston FD

Batteries - AAA, AA, C, D

Combustible Gas meters

Gallatin County FDs – at least 10

Serious Service Truck

Vaughn FD – 180 gallons gas, 200 gallons Diesel fuel, welder, genset lights, tools, air impact wrench (big), torch, air compressor



Flat bed truck with piggy back fork lift

Vaughn FD – 20 ft flatbed, for moving palletized stuff

Mask wipes – Wold Point FD

Class A foam – Wolf Point, Central Valley

Notes:

Logistics



Critical Issues for Large Incident Finance

1. Will it be necessary to pay for more resources than the host district's budget can absorb?
 - Will the duration exceed MMA ability?
 - Will even basic logistics (food, fuel) exceed the local budget?
 - Are there specialized resources that can only be gotten by paying?

2. If yes to any of the above, then you need to find a financial partner. Notify all the appropriate local officials as soon as possible.
 - Fire District Trustees
 - City Council
 - County Commissioners
 - DES Coordinator – make sure they are making state level notifications if the incident will exceed all local resources collectively
 - District's Attorney
 - Special Note: If the incident is haz mat, determine if there is a "responsible party". If there is, retain an attorney with special expertise in environmental law as soon as possible.

3. Do you need additional financial record keeping help?
 - Does the District already have a really handy financial person? Probably needs to be more than whoever pays the monthly bills.
 - Is record keeping assistance available from the County Auditor's office?
 - Can you find someone through MMA that can help guide financial record keeping.

4. Keep meticulous records of what is expended. You must be able to justify the reimbursement you will eventually be asking for.

- Personnel Info
 - i. W-9
 - ii. I-9
 - iii. Timesheets and some indication of what they were doing
- Equipment Info
 - i. Time used and purpose
 - ii. Have a contract, or signed release
 - iii. Be sure who owns the equipment
 - iv. Be sure operator is covered by work comp
 - v. Sole proprietor – if payment will be over \$600, get soc sec #
- Activity logs and Incident Action Plans
- If you missed info early in the incident, get it captured as soon as possible. Don't wait until the end of the incident because no one will remember then.

5. Possible funding sources

- County 2-mil Disaster Levy
- State – Governor's Disaster Fund
- Federal – FEMA
- These all will pay for extraordinary costs: people and equipment not normally on the jurisdiction's payroll
- Haz Mat – Owner/shipper is responsible for "all necessary costs", which means you can recover regular time of regular employees, too. With a haz mat incident, be prepared for a long legal fight that will involve not only the responsible party, but their attorneys. This may create cash flow issues that will need to be shared with the County, and maybe the State.



6. Wildland Fires

- DNRC – Co-op program, County Assist
- FEMA fire grants
- Be careful about signing cost sharing agreements
- Be careful about agreeing to become part of unified command. Be clear about whether or not that means you're accepting a part of the financial consequences of all the command decisions that are made.

7. Get a Disaster Declaration in place as soon as possible

- Should be handled by the County DES Coordinator. You may need to answer questions for the County Commissioners before they will adopt it.
- If it's needed, get it in place early. Be sure it dates to the beginning of the incident. Most funding sources will not cover costs incurred before the date of the incident.

8. Be prepared to be audited, maybe several years later

- Keep complete file on the incident, including activity logs, time sheets, incident action plans, copies of invoices, claims, etc
- Do not try to work from your memory.

9. Be prepared for damage claims after the incident

- Do not deny claims out of hand. Being nice and listening to Mrs or Mr Smith may make the issue go away, or may minimize the cost.
- Having good activity logs will help establish whether or not the damage was actually caused by the incident.



Hazard Zone Command - Unified Command

Example of a Unified Command procedure

Gallatin County Incident Management System UNIFIED COMMAND

Purpose: An Incident Management System (IMS) is hereby adopted for the purpose of appointing officials from local government to be in charge of response and recovery operations for specified emergencies and disasters. The Gallatin County Incident Management System (GCIMS), is a system of systems, generally organized by jurisdiction or functional discipline. (ex. Gallatin County Fire Council standard operating procedures)

Components of the IMS: The incident management system has a number of components. These components working together interactively provide the basis for an effective IMS concept of operation:

- Common terminology
- Modular organization
- Integrated communications
- Unified command structure
- Consolidated action plans
- Manageable span-of-control
- Predesignated incident facilities
- Comprehensive resource management

Unified Command: Unified Command is a system to address the operational needs of any given event. The role of the unified command participants is to create an integrated package to respond to those needs.

The need for a unified command structure is brought about because:

- Incidents have no regard for jurisdictional boundaries or functional disciplines. Virtually every response involves multiple functional disciplines and often multiple jurisdictions.
- Individual agency responsibility and authority is normally legally confined to a single jurisdiction and functional discipline.

The concept of unified command simply means that all agencies who have a jurisdictional responsibility or a functional discipline responsibility at a multi-jurisdictional incident contribute to the process of:

- Determining overall incident strategic goals
- Selection of strategies
- Insuring that joint planning for tactical activities will be accomplished.
- Insuring that integrated tactical operations are conducted
- Making maximum use of all assigned resources

Where there are multiple jurisdictions and/or functional disciplines operating on an event, every effort should be made to adopt standard operating procedures that address multiple agency interoperability. (ex. GCFC/GCSO Joint Response to Violent Incidents SOP) (Gallatin County Communications Plan)

Selection of Unified Command Participants:

The proper selection of participants to work within a unified command structure will consist of:

- Any jurisdiction or discipline who's safety of a responder is affected.
- Any jurisdiction or discipline who has customers affected by the event.
- Any jurisdiction or discipline who's workload is affected by the event.
 - ◆ Money already spent
 - ◆ Resources already committed
 - ◆ Committed to spend money
 - ◆ Committed to providing additional resources

The criteria can, and should be reviewed and verified periodically throughout the incident.

Responsibility of Unified Command Participants: It is the responsibility of the participants in the unified command group to represent their individual jurisdictions, responders, or customers needs. These needs will be the basis for identifying strategic goals and tactical objectives to mitigate the incident at hand.

Participants must have either:

- Direct “decision making authority” for the agency
 - ♦ Able to commit money and/or resources

OR

- Immediate access to someone within your agency who does have that authority.

Consider using C.A.N. (Conditions, Actions, Needs) reports as an initial means of exchanging information between agencies.

*** The intent of having the above mentioned personnel as part of the Unified Command Group is an effort to make efficient and accurate decisions in a timely manner. ***

Media Guide

Interview Tips

Be prepared, write down notes and review before interview.

Be concise.

Use the words “_____ Fire Department”. Message.

Be honest. If you don't know, say so!

Take opportunities to promote FD & human interest stories.

Remember, everything is on the record.

Be courteous and helpful to the media.

Be yourself.

If you need help, ask for a PIO.

No sunglasses. - Turnouts OK.

Fire Information

For injuries/fatalities - DO NOT release names until next of kin is notified and IC says it's okay to release names.

Good response times/time under control

Address and unit number

Cause and dollar loss - per investigator (only if known)

Do not give out name of occupant/owner

Conditions on arrival/damage, Specifics of operations

Fire prevention issues/smoke detectors

Unusual hazards/problems

Relocation of residents

Number of FD units at incident

Human interest/exceptional performance

With OK from IC/Safety, provide media w/close vantage

Each Alarm = 10 FD units/30 fire fighters

MT Fire Service Mutual Aid - Media Guide

EMS Information

For injuries/fatalities - DO NOT release names until next of kin is notified and IC/PIO says it's OK to release names.

Good response times

Injuries & treatment

Specifics of operations, Unusual hazards/problems

Human interest/exceptional performance

Coordinate information with other agencies

Numbers, genders, hospital, condition of patient(s)

IF CLEARED BY IC/PIO

Haz Mat Information Chemical/Product

Good response times and number of units

Types and quantity of chemicals

Hazards to public/environment

Cause of release

Specifics of operations

Area evacuated

Anticipated length of operation

Human interest/exceptional performance

General chemical information (see Chemical & Physical Prop)

Rescue Information

Good response times

Age, Gender, no names, injuries, resident or tourist

Cause of incident Specifics of operations - Unusual hazards

Thoughts on Public Info Call Centers

Jane Ellis

11/3/07

Big piece of customer service

Information sources

- Decide at the beginning what sources are official and what info can be given out. Call takers need to adhere to that party line.
- Sources
 - o Local Fire, Law Enforcement, Public Health
 - o State Agencies
 - o Federal Agencies
 - o Don't repeat info from the general public, but it may be valuable to pass on to Operations
- Have to have cooperation from Operations to get good current info
- Background Information
 - o Good maps with named roads, topography and incident boundary
 - o Websites
- Develop a "scout" position who goes out in the field to gather info from Ops

Staffing

- Call Takers don't all need to be responders. Helpful if some of them are. Great use for light duty people
- CT's need excellent phone skills, lot of empathy
- Need to not gossip
- Willing to stay within the party line
- Sharp enough to pass info off to Ops when it seems important
- Find people available for large blocks of time, means less training
- CT's should use call-backs when they don't know

- Training
 - How to talk to stressed people
 - Brief on evacuation policies and procedures
 - Jargon of the incident
 - What they might expect fro questions
 - Brief on any technology they might be using

Physical Facilities

- Must have a phone system where you can publish one number and have multiple pick-ups
- White boards for rapidly changing info
- Wall space to hang maps
- Notebooks for each Call Taker to keep info in
- Computers with access to internet
- Access to TV news is helpful



Your Response Information

Your Assistance Information

Your Notes

Adjoining State Contacts

MMA Radio Plan



Response Documents



Roles during a Montana Mutual Aid Deployment

- ❑ Person (s) who receive the request for help from an Incident Commander
 - Get a helper - Get 2 phone lines, one for incoming only, prefer landlines
 - Send scouts out ahead of fire trucks
- ❑ Person (s) who locate and contact MMA help for an Incident Commander
- ❑ Person (s) to assemble MMA Task Forces at home
- ❑ Person (s) who go with MMA Task Forces to incident
- ❑ Person (s) who go to incident commander ahead of MMA task forces, and help the requesting IC receive & deploy the MMA Task Forces

Connect, stage and get briefed, Scout(hazard, logistics, commo, etc)

- ❑ Person (s) who move information from the IC back to the homes of the MMA Task Forces during deployment
- ❑ Person (s) staying back to help facilitate and connect the needs of the responding mutual aid companies, and the requesting incident commander.

Other roles:

- ❑ Home response area covered during deployment
- ❑ Keep connected to responding command helpers
- ❑ Find “On Deck” help
- ❑ Facilitate logistical support (fuel, food, water, etc)





Assisting Department
 Department Name/County: _____

Task Force Leader: _____
 Stay Behind Contact: _____
 Stay Behind Phone: _____
 Resource
 Unit/Type: _____
 Date: _____ Time: _____
 Destination: _____
 Staging Location: _____
 Incident Type: _____
 Travel Radio Channel: _____
 Incident Check-In Radio Channel: _____

Assisting Personnel
 Crew Leader: _____
 Firefighters: _____

Assisting Department
 Department Name/County: _____

Task Force Leader: _____
 Stay Behind Contact: _____
 Stay Behind Phone: _____
 Resource
 Unit/Type: _____
 Date: _____ Time: _____
 Destination: _____
 Staging Location: _____
 Incident Type: _____
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Assisting Department

Department Name/County: _____

Task Force Leader: _____

Stay Behind Contact: _____

Stay Behind Phone: _____

Resource

Unit/Type: _____

Date: _____ Time: _____

Destination: _____

Staging Location: _____

Incident Type: _____

Travel Radio Channel: _____

Incident Check-In Radio Channel: _____

Assisting Personnel

Crew Leader: _____

Firefighters: _____

Assisting Department

Department Name/County: _____

Task Force Leader: _____

Stay Behind Contact: _____

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Date: _____ Time: _____

Destination: _____

Staging Location: _____

Incident Type: _____

Travel Radio Channel: _____

Incident Check-In Radio Channel: _____

Assisting Personnel

Crew Leader: _____

Firefighters: _____

Mutual Aid Contacts for Nearby States:

Idaho: Larry Simms, Fire Chief Hauser Fire Department, ID
North Idaho Fire Chiefs 1-208-773-1174
hauserfd@cda.twcbc.com

Wyoming: Rusty Palmer FC Teton County, 24 hour dispatch
TC 911 1-307-733-2331, Cell 1-307-413-2156,
Office 1-307-733-4732

South Dakota:

North Dakota:

Washington: Fire Chief Ed Lewis, Spokane County Fire
District 4 Office 1-509-467-4500, Cell 1-509-993-0330
edl@scfd4.org

Canada:

Montana Fire Service Mutual Aid

Communications Plan

As a minimum, responding agencies should have the following frequencies:

| Frequency Identifier | TX (Mobile Perspective) | RX | Function |
|---|-------------------------|----------------------|---|
| Gold | 153.905 | 153.905 | Check-In/Staging |
| Brown | 155.820 | 155.820 | Command & Coordination |
| Coral Nat Mutual Aid "VFIRE 22" no PL tone | 154.265 | 154.265 | Tac Also in ID, WY, ND, SD, WA |
| Maroon Nat Mutual Aid 'VFIRE 21" no PL tone | 154.280 | 154.280 | Tac Also in ID, WY, ND, SD, WA |
| Red | 154.070 | 154.070 | Tac |
| Ruby | 159.345 (pl 156.7) | 153.830 (Simplex) | Tac (may be repeater) |
| Scarlet Nat Mutual Aid "VFIRE 23" no PL tone | 154.295 | 154.295 | Tac Also in ID, WY, SD, ND, WA |