

**SOUTHERN STONE COUNTY FIRE PROTECTION DISTRICT
STANDARD OPERATING GUIDELINE**

Subject:
HAZARDOUS MATERIALS

Effective Date:
1-1-99

S.O.G.# 8

Revision Date:
7-1-2002

Applies To: All Personnel

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I. GENERAL

- A. The primary goals of our operation will be in isolation, containment and stabilization of the incident.
- B. Extreme caution shall be adhered to for minimizing exposure of personnel and the general public.
- C. All tools and equipment should be made available as needed to provide maximum protection and efficiency.
- D. Intervention shall be determined by COMMAND to avoid inappropriate risks to personnel and equipment. Personnel responding to a reported Hazardous Materials incident must **SLOW DOWN** and conduct a thorough size-up of the scene before committing resources to the incident.
- E. The following references should be utilized as a guide so that no major items will be overlooked: Command Chart, Haz. Mat. Data Sheet, Safety Plan, Chemtrec Information Sheet and all reference materials available.
- F. **WHEN IN DOUBT - ASSUME THE WORST**

II. ALARM RESPONSE

- A. Upon receipt of a potential hazardous materials incident the first response district shall respond with a minimum assignment of:
 - 1. (1) Chief Officer, (1) Engine, (1) Tanker, (1) Haz-Mat Unit, Service 10 and (1) Ambulance.
 - 2. If deemed necessary by command, the Technical Rescue and Hazardous Materials Team shall be activated and dispatched to the scene.
- B. The dispatcher will obtain weather information and relay the information to the units in route to the incident.
- C. First arriving units shall establish COMMAND and initiate a size-up.
- D. The first unit on scene should remember to SLOW DOWN to avoid committing itself into a dangerous situation. The following guidelines should be utilized as rigidly as possible.
- E. ***Alarm Response – Requests for Mutual Aid. When responding to a request for mutual aid, the same alarm assignment will be made as for in-district response. The Hazardous Materials Team will meet at Station 1 for a briefing BEFORE response to the incident. The Haz-Mat Incident Commander will contact the***

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requesting agency for a briefing and will give specific instructions. Before arriving at the scene, the Hazardous Materials Team will stage at a considerable distance from the scene while Command determines where the control zones have been established or will establish control zones as deemed necessary as the situation dictates. The Hazardous Materials portion of the incident will then come under command of the Southern Stone County Fire District's command system.

III. COMMAND POST

- A. Give initial report of the hazardous material incident, with information of exact location and equipment involved.
- B. Size-up incident, stay up wind and up hill, COMMAND will be side A, request assistance as needed.
- C. Determine the HOT ZONE, WARM ZONE AND COLD ZONES as defined in the definitions. Work zones shall be based on the hazardous materials present and recommendations from the North American Emergency Response Guide book.
- D. Personnel shall determine information available to fill out the operational data sheets.
- E. All personnel should avoid contact with contaminants, eliminate ignition sources, rescue only if prudent.
- F. COMMAND should establish the Incident Management System including a supervisory network to include a minimum of two sides of the operation. The following IMS components should be established; Operations, Safety, and include sectors as decontamination, medical, entry, back up, resources and zones as required by the incident at hand.
- G. COMMAND should notify all appropriate agencies, as needed for information assistance, mitigation, and evacuation purposes.
- H. Continuous updated information of data shall continue with weather reports to COMMAND every 15 to 30 minutes.
- I. Command should give regular briefings to all members working on the hazardous materials site

IV. COMPANY RESPONSE

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- A. All units shall remain up wind in the cold zone till exact information is obtained on the material and a written action plan, safety plan, and evacuation plan is determined by the command staff.
- B. All ambulances shall remain in a staged area on the outside perimeter of the cold zone (Level 1 Staging)
- C. Only the fire units being utilized in the direct operation will be allowed in the area of the warm zone and these shall be limited.
- D. Specific members selected by COMMAND will operate as the HAZARDOUS MATERIAL TEAM, and back-up team.
- E. Command staff should determine activation of any of the following for assistance; Tri-Lakes Haz. Mat. Resources, Mutual Aid Assistance, State and Federal Agencies.

V. HAZARDOUS MATERIAL TEAM (SPECIAL OPERATIONS)

- A. All members shall be protected with full protective clothing and SCBA as required by the material involved and shall dress in the cold zone.
- B. All members shall be checked in the warm zone for closures, suit integrity, etc., before entering the HOT ZONE.
- C. The hazardous material team shall be required to utilized the following equipment when entering the HOT ZONE: Full protective clothing, Radio communications with command or haz. mat. sector officer, and Entry and Back-Up members, Monitoring equipment, and tools as required. Control zones, including the decon corridor shall be set up prior to anyone entering the Hot Zone.
- D. The hazardous material entry team shall be limited to one half the time of the SCBA once it is donned.
- E. After assignment is completed the hazardous material team shall move to the warm zone for decontamination process or re-gearing after evaluation.
- F. Back-up team shall consist of a 1 to 1 ratio as entry team members, and should be protected with same level of protective clothing and equipment as entry team.

VI. DECONTAMINATION

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- A. Initial DECON shall be accomplished in the warm zone. DECON team shall be in full protective gear and SCBA. Protective gear shall consist of no less than one level of protective clothing lower than the entry team.
- B. The DECON team at termination of the incident shall decon themselves then move out of the area.
- C. DECON shall be done in a basic 5 step operation as follows:
 1. ENTRY - Drop all non-essential tools & SCBA which will then be deconed separate, if worn exterior of suit.
 2. PC - Protective clothing will be decontaminated and diluted by appropriate means while on the person. Run-off water from decontamination shall be contained.
 3. DROP - All protective clothing shall be dropped and if possible members will be decontaminated and personal clothing will be bagged.
 4. SHOWER - Members shall shower for decontamination.
 5. MEDICAL - Evaluation area and treatment if necessary, transportation to emergency department if needed. Medical personnel shall wear disposable clothing, masks and gloves during evaluation, treatment and transportation.
- D. All runoff water and materials shall be contained for a period of time until considered safe by COMMAND.

VII. DEFINITIONS

- A. HOT ZONE - This area is where the personnel are in immediate danger from the hazardous material condition. Access will be restricted to personnel only with the appropriate protective clothing and equipment. Assigned personnel will be monitored at the entry time and exit time. The HOT ZONE shall be described to all units as soon as possible. This is the primary evacuation area.
- B. WARM ZONE - This is the area outside the Hot Zone, which poses a lesser degree of danger. Personnel shall use protective equipment with SCBA anytime within this zone. Decontamination shall be accomplished at the outer edge of this zone. Secondary evacuation area of all civilians downwind initially where vapors may be carried.
- C. COLD ZONE - Surrounding area of restricted zone, which should include risk free situation. This zone shall contain the COMMAND POST and all level 1 staging of apparatus.

VIII. Training

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Persons on the Special Operations Team or Hazardous Materials Team shall have a minimum training of Hazardous Materials Operations, although Technician is desired. The Fire District will provide sufficient training on an annual basis to insure that personnel are competent in hazardous materials operations.

IX. Department of Natural Resources

The Department of Natural Resources will be notified on all Hazardous Materials Incidents that the District responds to. Gasoline spills of fewer than 50 gallons do not have to be reported to the DNR.

X. Hazardous Materials Trailer

The Hazardous Materials Trailer is located at Station 1 in Branson West. It is compliant with the requirements of NFPA 1901 – Hazardous Materials Response Vehicles Standard. An Inventory of the equipment carried on the trailer is attached. The radio designation is Haz Mat 1. The response of the trailer to incidents will be by Station 1 personnel or any member of the Hazardous Materials / Special Operations Team. It shall be the responsibility of the Hazardous Materials Team Leader to see that the unit is kept in a response ready mode at all times.

XI. Physicals

The District's physician will do physicals for the Districts Technicians every two years. At anytime that a Technician gets contaminated, they will be transported to a Medical Facility for evaluation, after proper decontamination procedures have been carried out.

XII. Billing

The incident commander shall be responsible for gathering all billing information for the incident. Billing for Hazardous Materials Incidents is authorized under 29 CFR1910.120. Hazardous Materials billing sheet is attached and will be kept in the trailer and with Chief Officers.

XIII. Response to Anthrax or Related Incidents

In the event of a possible Anthrax exposure or any other suspicious substance the

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Fire District has established these Protocols.

It is recommended that these calls not be dispatched over the radio and any radio traffic to and on scene should be held to an absolute minimum. These calls need to be handled through telephone communications for low profile purposes.

Certain criteria need to be met before we respond with any units in cases that involve a letter or package. First and foremost these calls are a police matter. If we receive a call directly we need to refer them to law enforcement of their jurisdiction. The other criteria will be listed in dispatch with other information that will be needed, note and instruction to be followed.

If the criteria is met and the law enforcement agency is in understanding that they will be responsible for the package and having it tested, then we will initiate a response team.

We will respond with the Haz Mat team, Haz Mat 1 and personnel with a minimum of 2 technicians and 1 Chief Officer. The officer will be at least HAZMAT OPS level certified. All team members are to have been properly briefed on our protocols, signs and symptoms and facts about Anthrax. The proper PPE will be level C and SCBA, bunker gear or personal clothing is not to be considered proper PPE. We will not be working without the proper PPE, if it is warranted for us to be there then it is warranted for us to protect ourselves. Unless certain medical conditions warrant an ambulance we will not need an EMS unit standing by.

Upon arrival of the team their contact should be with the law enforcement agency in charge. With the information from dispatch and what is gathered from the law officers the team should be able to make a decision if any other resources are needed. Dispatch should be notified at this time of the situation. If any additional resources are needed then they are to call them.

The Product will be triple bagged and we will use zip-lock bags if possible. The samples can be no larger than 12" x36". We will then have no further contact with the letter, package or product. It will be left with the law enforcement agency. We will not transport it or have it tested. Keep in mind that these calls are to be considered crime scenes.

Before anybody is allowed to leave the scene, including the exposed party there will be a debriefing. We will advise every one of the signs and symptoms of

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b.anthraxis and answer any questions; anybody may have on the situation.

There will be incident reports made on all these calls and the on scene officer needs to fill out the narrative section. This section needs to be as complete as possible and notes should have been taken on scene to assist in making sure no pertinent information is left out. The rest of the team members should also make a report explaining what they saw touched and heard that may be warranted. The call taker should also make out a report if they received any pertinent information. All these reports then need to be attached to the incident report.

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APPENDIX I

INFORMATION NEEDED BY CHEMTREC

1-800-424-9300

1. WHAT HAS HAPPENED
2. WHERE
3. WHEN
4. CHEMICAL (S) INVOLVED
5. TYPES AND CONDITION OF CONTAINERS
6. SHIPPER AND SHIPPING POINT
7. CARRIER
9. COSIGNEE AND DESTINATION
10. NATURE AND EXTENT OF INJURIES TO PEOPLE
11. PREVAILING WEATHER
12. COMPOSITION OF SURROUNDING AREA
13. WHO CALLER IS AND WHERE HE IS LOCATED.
14. HOW AND HERE TELEPHONE CONTACT CAN BE RE-ESTABLISHED WITH CALLER OR ANOTHER RESPONSIBLE PARTY AT THE SCENE

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**APPENDIX II
WHAT CHEMTREC SHOULD TELL YOU**

PRODUCT_____

COMMON NAME_____

SYNONYMS_____

PHYSICAL FORM AND APPEARANCE_____

ODOR_____

EFFECT WITH WATER_____

SHIPPING OR BILL OF LADING DESCRIPTION (DOT CLASS)_____

NATURE OF PRODUCT_____

SHIPPER OR MANUFACTURER_____

FIRE HAZARD_____

EXPOSURE HAZARD_____

IN CASE OF ACCIDENT

SPILL OR LEAK_____

FIRE: **FLASH POINT**_____ **IGNITION TEMPERATURE**_____

SPECIFIC GRAVITY_____ **VAPOR DENSITY**_____

EXPOSURE_____

POLLUTION HAZARD_____

OTHER INFORMATION_____

**Southern Stone County Fire Protection District
Hazardous Materials Trailer**

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Inventory

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Personal Protective Equipment

- 6 – Kappler Level A (rear entry) suits – Large, XL, XXL
- 12 – Kappler Level B (CPF-4 – rear entry) suits) - XL, XXL
- 24 - Kappler Level C (Saranex Laminated Tyvek) suits – XL, XXL
- 5 - Kappler Level A – Training Suits L, XL, XXL, XXXI
- 5 – Draeger 4500 psi SCBA with Masks
- 3 – MSA APR with filters
- 6 – Helmets
- 6 – Pairs Haz Max Green Boots (assorted sizes)
 - Gloves – Nitrile (assorted sizes)
 - Gloves – N-Dex (assorted sizes)
 - Gloves – Silver Shield (assorted sizes)
 - Glove Liners (assorted sizes)

Containments Equipment and Materials

- 1 - 65-gallon Over Pack Drum (Plastic)
- 1 - 85-gallon Over Pack Drum (Plastic)
- 1 - 85-gallon Over Pack Drum (Steel)
- 1 - 55-gallon Over Pack Drum (Steel)
- 5 – 55 gallon Plastic Drums with lids
- 4 – 30 gallon plastic containers with lids
- 6 – 5 gallon buckets with lids
- 1 – plastic drum funnel
- 1 – assortment plastic funnels
- 2 – drum bung wrenches – non-sparking
- 1 – drum up-ender
- 1 – flat head axe
- 1 – pick
- 1 – 36” bolt cutters
- 1 – Tool Box – assorted tools
- 1 – fluid transfer pump (electric)
- 1 – fluid transfer pump (manual)
- 1 – Drum repair kit
- 1 – pipe repair kit
- 1 – soft wood plug and wedge kit
- 2 – MC 306 Dome Clamps
- 1 – Chlorine Kit “A”
- 4 – round point shovels (long handle)
- 4 - square point shovels (long handles)

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- 2 – square point plastic shovels (short handle)
- 2 – squeegees
- 2 – street brooms
- 2 – pool skimmers (long handle)
- 10 – bags Sphag Sorb absorbent
- 10 – bags Oil Dry absorbent
- 1 – 5 lb. Plug and Dike
- 300 Ft. – 6” x 10’ floating booms
- 200 – 12” x 12” absorbent pads
- 1 – roll of 38” by 144’ absorbent
- 10 – 9” x 9” oil pillows
- 1 – roll 6 mil plastic (10’ x 100’)
- 10 – Gallons of Bio-Solve w/ pump dispenser

Decontamination

- 1 – Collapsible Decon Shower
- 3 – Containment Pools
- 180’ – 5/8” garden hose
- 4 – shower wands
- 2 – fire thread to garden hose manifolds
- 1 – 30’ x 50’ tarp
- 1 – 18’ x 30’ tarp
- 4 – quarts detergent soap
- 4 – long handle decon brushes
- 2 – pump up sprayers

VII. Monitoring / Testing

- 1 - Aim Multi-Gas Detector
- 2 – Radiation Detectors
- 1 – pH wide stick test paper
- 1 – Draeger Haz Mat Simultest Kit

VIII. Reference Materials

- 1 - Computer with Cameo, Marplot, Aloha, Niosh, Misc. resources (with Printer)
- 1 – Power Supply for computer
- 1 – set CHRIS Manual
- 4 – North American Emergency Response Guides (2000 edition)
- 1 – American Association of Railroads Emergency Action Guide
- 1 – Assorted resource materials

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- 1 - pair Binoculars
- 4 – rolls duct tape
- 2 – rolls fire lane tape
- 1 – assortment garbage bags
 biohazard bags
- 10 – Orange traffic cones
- 4 – broom handles
- 1 – Set grounding rods, clamps, cables
- 4 – steel fence posts
- 1 – rolls plastic fencing (overflow, underflow dams)
- 1 – 10 lb. ABC fire extinguisher
- 1 – CO2 Fire Extinguisher
- 1 – 5 KW gasoline powered generator
- 1 – Heavy Power Cord
- 4 – 30” step ladders (wooden)
- 1 – Dead Blow Mallet
- 1 – Rubber Mallet
- 1 – Case Paper Towels

- 1 – 18’ Enclosed Trailer with 4’ x 8’ concession door.
- 1 – Mobile Radio – **not yet installed**

X. Personnel

- 12 – Technicians
- 60 – Operations
- 25 - Awareness

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Request for Mutual Aid – Checklist

The following information is valuable and should be elicited from any agency requesting mutual aid of the Hazardous Materials Team.

1. What has occurred?
2. What has been done currently to correct the situation?
3. Are there any victims that need rescue?
4. Have control zones been established?
5. What equipment do you have on scene and is it in the cold zone?
6. What are the current weather conditions?
7. Have you identified the product?
8. Approximately how much product is there?
9. What kind of container is it in?
10. Has evacuation taken place?
11. Are there any visible placards or labels?
12. Is there a responsible party on scene or available to assist?
13. Is there any fire involved?
14. Who is the on-scene Incident Commander?
 - a. Radio Frequency?
 - b. Cell phone number?

Have the following steps taken!

Establish control zones in accordance with the NAERG and **COMPLETELY ISOLATE THE AREA. DENY ENTRY TO ALL PERSONNEL INCLUDING LAW ENFORCEMENT AND EMS PERSONNEL.**

Establish a Command Post in the well into the Cold Zone, uphill and up wind from the incident.

Begin evacuation in the areas that are in danger, if it can be done safely.

Keep all personnel and equipment in the cold zone.

If any equipment, vehicles or personnel are contaminated, they must remain in the warm zone until they can be properly decontaminated.