

# **Unit 4. Managing Mass Fatalities Operations**



Visual 4.1 Mass Fatality Incident Response

## **Incident Operations**

- On-scene operations:
  - Staging
  - Search and recovery
  - Notification of response personnel
- Morgue operations
- Family Assistance Center operations









## **Unit Objectives**

- Describe critical operations for mass fatalities incidents.
- Describe the protocols for on-scene operations.
- Establish procedures for working with the media.
- Identify measures required to take care of incident workers.



#### What on-scene protocols should be established in advance of an incident?



Visual 4.4 Mass Fatality Incident Response

- Establish a perimeter to keep emergent volunteers, curious onlookers, and others away from the incident scene.
- Ensure that search operations methodology is established and followed.
- Ensure that all search and recovery personnel wear PPE.



Visual 4.5 Mass Fatality Incident Response



- Protect the incident scene, even if it is not a suspected crime scene.
- Preserve evidence and personal effects.
- Manage expectations about how quickly operations can be completed.





Visual 4.6 Mass Fatality Incident Response

Who makes the decision to end rescue operations and initiate recovery operations?

> Visual 4.7 Mass Fatality Incident Response



# **On-Scene Operations: Resource Staging**

#### **Staging areas:**

- Are the location where resources, including equipment and crews, report until they are assigned.
- Are <u>not</u> intended as a holding place for:
  - Spontaneous volunteers.
  - Response/recovery resources that have been demobilized.





Visual 4.8 Mass Fatality Incident Response

# **Staging Area Issues**

- Coordinating incoming personnel and equipment
- Limiting access
- Tracking assigned resources versus those awaiting assignment





Visual 4.9 Mass Fatality Incident Response

# **Search and Recovery**

All procedures required to:

- Analyze the site to determine:
  - Whether hazardous materials are present
  - Whether the site presents a biological hazard
  - The condition of remains
- Locate, document, and remove remains and personal property
- Remove debris





Visual 4.10 Mass Fatality Incident Response

#### **Search Methods**

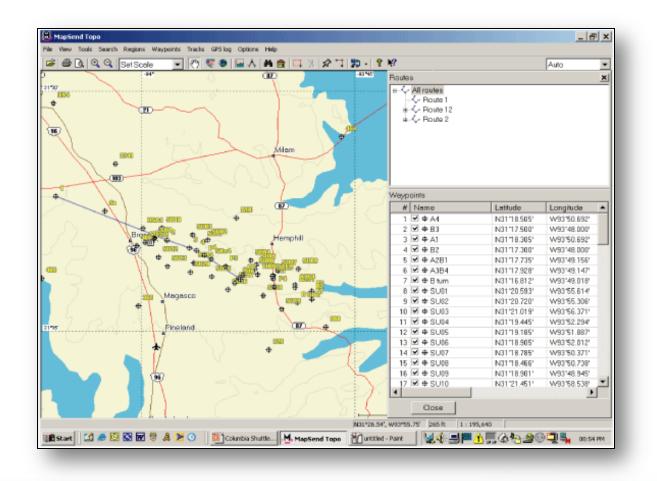
- Global positioning system (GPS)
- Total station technology
- Grid searching







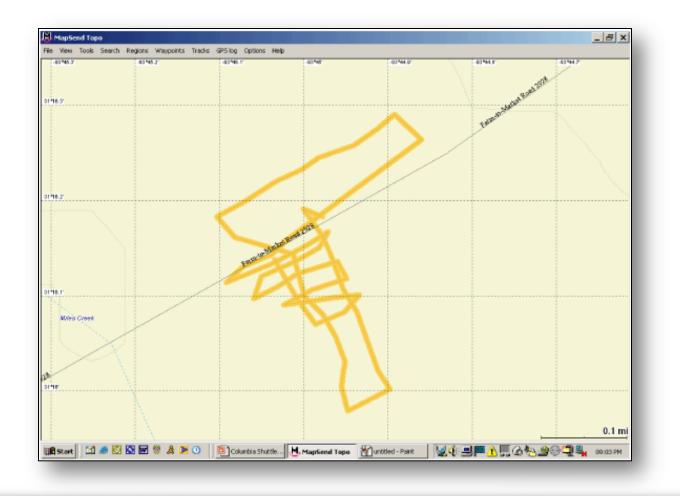
## **Global Positioning System**



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## **Global Positioning System**



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# **Global Positioning System**

- Space Segment
- Control Segment
- User Segment





Visual 4.14 Mass Fatality Incident Response

# **Identifying Remains: Grid Searching**

- Location of remains may reveal placement of the victim before the incident.
- Injuries may reveal the cause of the incident.
- Evidence is critical to ensuing investigation.
- Fragmented remains may be reassociated after the incident.







#### Using the Structure as a Grid





Visual 4.16 Mass Fatality Incident Response

## **Search and Recovery Issues**

- Worker safety, including removal of hazards
- Debris removal
- Locating, marking, and removing remains
- Doing all of the above without disturbing potential evidence (if the site is or could be a crime scene)





Visual 4.17 Mass Fatality Incident Response

# **Activity: Search and Recovery**

- 1. Work in table groups as assigned by the instructor.
- 2. Consider your jurisdiction's ability to respond to a mass fatalities incident and answer the questions included in the activity.
- 3. Select a spokesperson to present your responses to the class. Be ready to explain your group's responses.



You have 15 minutes to complete this activity.



#### **Documentation**

- The incident scene
- Human remains, including fragmented and/or remains that are decomposing
- Personal effects
- Debris



Preserve Evidence; Don't Rush!





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#### **Document the Scene**

- Both still photographs and videotape
- Aerial photographs

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- Ground-level photographs with proper orientation or location noted in the photo
- Photograph body in relationship to wreckage and personal effects



Visual 4.20 Mass Fatality Incident Response

#### **Document the Scene**

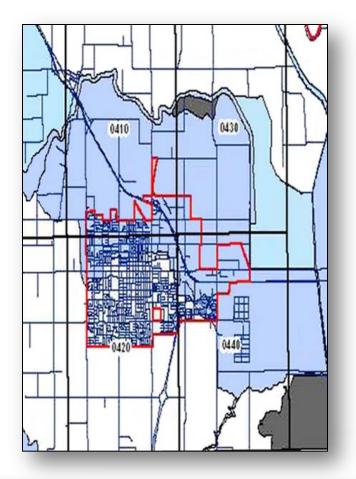




Visual 4.21 Mass Fatality Incident Response

#### **Document the Scene**

- Detailed written documentation at the scene is a must.
- Consider a detailed scene sketch.
- Assign a scribe, if necessary.
- Make certain that this documentation is put into the record of the event.





Visual 4.22 Mass Fatality Incident Response

#### **Debris Removal**

# It took 7 days to remove these remains!





Visual 4.23 Mass Fatality Incident Response

#### **Debris Removal**

#### How are you going to remove all of the debris? Where will you put it?



Visual 4.24 Mass Fatality Incident Response

# **Documenting Wreckage**

- Debris patterns may provide clues about how incidents, especially transportation incidents occurred.
- Workers should be briefed on:
  - What to look for.
  - What to avoid moving.
  - Known safety issues within the wreckage.





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Visual 4.25 Mass Fatality Incident Response

#### **Documenting Personal Effects**

- In a major event, there may be thousands of pieces of personal property scattered throughout the site.
- All of the personal property must be collected and accounted for.







#### **Personal Effects Management**

- In transportation incidents, the Family Assistance Act recommends how personal effects are managed.
- In non-transportation incidents, decisions on personal effects are made jointly with the family.
- Aside from monetary value, families gain greatly from return of personal effects.





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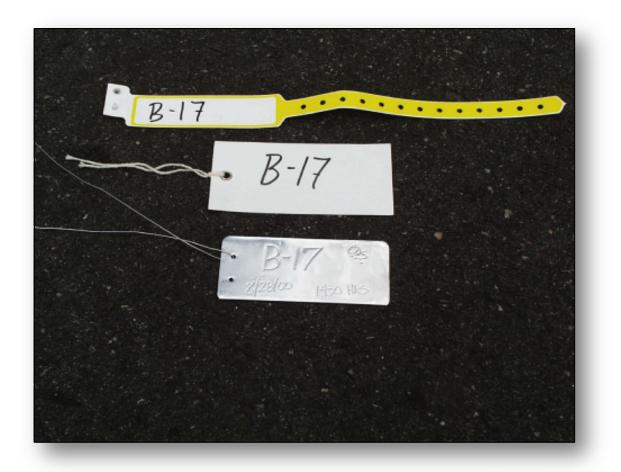
Visual 4.27 Mass Fatality Incident Response

## **Numbering System Considerations**

- The system should be simple and use whole numbers.
- Use the same number on the toe tag, the tag on the outside of the remains pouch, and on personal effects that are definitely associated with the remains.
- Assign a range of non-duplicative, consecutive numbers to each search and recovery team.
- After morgue triage, the remains should be assigned a sequential morgue reference number.
- Do not use leading zeros.



#### **Numbering System Considerations**



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## **Extrication and Transport of Remains**

- Extrication
- Show of respect
- Transport
- Temporary storage of remains





Visual 4.30 Mass Fatality Incident Response

# **Extrication Myths**

#### **According to OSHA:**

- There is no direct risk of contagion or infectious disease from being near human remains for those who are not directly involved in recovery.
- Pathogens associated with human remains:
  - Do not pose a risk to those who are not directly involved in recovery.
  - Do not pose an environmental risk.
- The smell of human decay does not create a public health hazard.

--www.osha.gov/oshdoc/data\_hurricane\_facts/mortuary.pdf



Visual 4.31 Mass Fatality Incident Response

# **Incident Site Collection and Storage**

- An area may be set to collect remains prior to transport to morgue.
- Refrigerated trucks may be necessary at this site.
- Remains may be transported by refrigerated truck or individually.
- This is simply an on-site storage facility.







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# **Removing Remains From The Scene**

#### Log sheet should include the:

- Field recovery number.
- Number of remains being transported.
- License number of transport vehicle.
- Name of vehicle driver.
- Signature of driver.
- Date and time of departure from site.



Visual 4.33

Mass Fatality Incident Response



## **Removing Remains From Scene**

- Store body bags in refrigerated/cooler truck until transported at 38 to 42 degrees Fahrenheit.
- Use trucks with metal construction.
- No company names should be visible.





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# **Temporary Storage**

- Arrange with vendor in advance
- Figure 20-25 bodies per truck
- No wooden floors
- Cover truck names completely
- Be prepared for mechanical problems
- <u>Sanitize thoroughly</u> after Mission
- <u>Maintain an aisle</u> down the center of the trailer





Visual 4.35 Mass Fatality Incident Response

# **Managing Catastrophic Incidents**

#### Basic procedures remain unchanged, but <u>scale</u> <u>changes everything</u>!





Visual 4.36 Mass Fatality Incident Response

# **Managing Catastrophic Incidents**

# What constitutes a catastrophic incident?



Visual 4.37 Mass Fatality Incident Response

## **Managing Catastrophic Incidents**

What issues would you face in a catastrophic incident that you might not face in incidents involving a smaller number of fatalities?



Visual 4.38 Mass Fatality Incident Response

# **Legal and Financial Constraints**

- Does your State have laws to protect MEs/Cs during a severe incident?
- Does your State have a "good Samaritan" law?
- Do purchasing requirements change?
- Is the ME/C responsible for on-scene recovery personnel?
- How do the ME/C responsibilities change if assistance is requested from the State and/or Federal government?



Visual 4.39 Mass Fatality Incident Response

#### **Managing Resources at Catastrophic Incidents**

- How many fatalities can your current resource system handle accurately, efficiently, and <u>safely</u>?
- Has your jurisdiction determined how many additional resources, including personnel and facilities, will be required for "X" fatalities?
- Who has the authority to approve resource orders?
- Has your jurisdiction identified sources for additional resources?
  - How long will it take to receive them?
  - How will they be received? Stored? Distributed? Paid for?
  - What if they don't arrive?



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Visual 4.40 Mass Fatality Incident Response

# **Activity: Managing Resources**

#### Instructions:

- 1. Work in groups assigned by the instructor. The instructor will assign a type of resource.
- 2. Answer the question about the resource assigned: What will you do if the resources you need don't arrive?
- 3. Try to develop at least 2 strategies for either obtaining or working around the needed resource.



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You have 15 minutes to complete this activity.



# **Protecting Workers**

- How will you protect:
  - Recovery personnel?
  - Transport personnel?
  - Morgue Personnel?
- How will you ensure that personnel will eat and take breaks?
- How will you enforce the requirements?



Visual 4.42 Mass Fatality Incident Response



## **Transportation and Storage**

- What facilities are available?
- What are your options?
- What actions are taboo?



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Visual 4.43 Mass Fatality Incident Response

## **Temporary Interment**

- May be necessary in a catastrophic situation
- Try to complete identification process before interment
- Must document where various sets of remains are buried







# Security

- All areas <u>must</u> be secured. There may be legal repercussions for any security breech.
- Media and other onlookers must be kept out of all facilities.
- Personnel must be safe when they are working.





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# **Taking Care of Workers**

- Provide appropriate Personal Protective Equipment (PPE).
- Provide appropriate safety briefings.
- Enforce the use of PPE and safety rules.
- Establish a stress management program.
- Ensure adequate rest and rehab.
- Provide and enforce breaks.
- Provide a consistent work schedule.



Visual 4.46

Mass Fatality Incident Response



# **Worker Responsibilities**

- Wear the PPE that is issued.
- Use universal precautions.
- Decontaminate when necessary.
- Follow all safety information and guidelines provided.
- Report any and all injuries immediately.
- Keep an eye on fellow workers.



Visual 4.47 Mass Fatality Incident Response



# **Mass Fatalities Incidents and Stress**

- Mass Fatalities incidents are stressful
- Initial discomfort & distress common
- Most people adapt well psychologically
- Most people function well
- Stress is incident-specific & cumulative
- Affected by other stressors ("real-world" issues)







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## **Preparedness for Mass Fatalities**

- Practice promotes resiliency to stress
- Use realistic training & exercises
- Learn your chain-of-command
- Develop family support plans
- Establish workplace agreements
- Maintain physical fitness
  & good health practices





Visual 4.49 Mass Fatality Incident Response

## **Traumatic Stressors in Mass Death**

- Emotional involvement—that which reminds us that the remains were people
- Personal effects makes a life real
- Bodies of children affect everyone emotionally





Visual 4.50 Mass Fatality Incident Response

## **Traumatic Stressors in Mass Death**

- Surprise and novelty—shock at the unexpected
- Sensory stimuli—be prepared for overload
- Condition of remains—natural or gruesome
- Hands and faces of the remains





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#### **Common Emotional Reactions to Human Remains**

- Sadness
- Pity
- Horror
- Repulsion
- Anger
- Fear
- Numbness
- Disgust





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# **Physical Reactions to Stress**

- Sense of being "wired" or "keyed up"
- Headaches
- Nausea
- Difficulty sleeping
- Diarrhea
- Appetite changes
- Fatigue



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#### **Managing Incident Stress: Self and Buddy Care**

- Pair off with a co-worker and look out for each other
- Remember the larger purpose of your work
- Talk with others
- Switch tasks as needed
- Be a good listener
- Use appropriate humor



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#### **Managing Incident Stress: Self and Buddy Care**

- Consider avoiding TV news during incident
- Take time to decompress at end of shift
- Limit exposure to stressors
- Avoid focusing on remains' hands and faces
- Use operational discipline:
  - Avoid overwork & fatigue—take breaks and leave at shift's end
  - Use proper PPE



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#### **Leadership Actions to Diminish Incident Stress**

- Lead by example
- Maximize worker safety
- Communicate regularly
- Limit traumatic exposure
- Visit work areas and talk with workers
- Praise and reward people's work
- Ensure adherence to work/rest cycles



Visual 4.56 Mass Fatality Incident Response



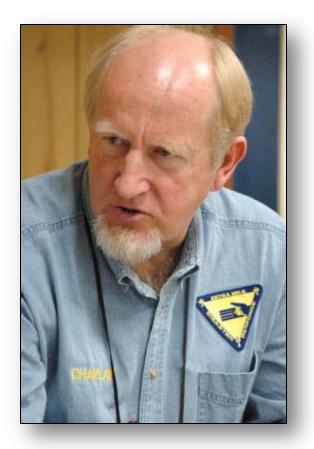
#### **Leadership Actions to Diminish Incident Stress**

- Protect workers from distractions/hassles
- Allow workers to "ease in" & vary tasks
- Pair inexperienced with experienced workers
- Remember that people react and cope differently
- Be alert to changes in workers' behaviors
- Foster supportive command climate



# **Leadership Issues as Teams Rotate Out**

- Perform After-Action Review (AAR)
  - Information sharing
  - Lessons learned
- Establish safe climate for candor
- Information on assistance resources
  - Personal
  - Financial
  - Family







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# **Working With the Media**

- Helps manage the public's expectations
- NIMS requirements:
  - Assign a PIO
  - Develop a Joint Information System
  - Establish a Joint Information Center







# **Public Information Officer**

- Must be assigned as early as possible. The PIO must also be familiar with:
  - The overall incident.
  - Procedures for recovering and identifying remains.
  - Procedures for release of remains.
  - Family notification procedures.





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## **Working With the Media**

# What are some ways to work successfully with the media?



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## **Working With the Media**

Has anyone developed templates for media releases for mass fatalities incidents?



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#### **Unit Summary**



Operational Issues



Taking Care of Workers



Working With the Media



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