STRUCTURAL COLLAPSE INCIDENT WORKSHEET

ADDRESS: __________________________________________

TAC CHANNEL: _______ DISPATCH TIME: ______

ASSIGNMENT:
______________________________________________________
______________________________________________________
______________________________________________________

Miscellaneous Other Dispatch Information:
_______________________________________________
_______________________________________________
_______________________________________________

Initial Actions:

- Designate a Staging Area for units except the 1st due engine.
  Staging Area: __________________________________________

- 1st due engine: (Engine No. ______)
  1. Position wagon at a hydrant; no closer than 500-feet.
  2. Investigate from a defensive location outside the potential collapse zone (1-1/2 times building height)
  3. Gather the initial report information:

    Type of Construction: _________________________________
    Type of Occupancy: _________________________________
    # of Stories: _________________________________
Dimensions: _________ - ft. X ____________ - ft.
# of Victims: Known _______ Suspected: _______
Other: _______________________________________
______________________________________________

o 1st due Specialty:
  1. Safety functions.
     ______ Control pedestrian & vehicle traffic.
     ______ Establish & mark a “Safe Zone”, all sides.
     ______ Eliminate potential sources of vibration.
     ______ Control utilities.

o Specialty pieces (______/_______)
  1. Begin / assist with removal of surface and lightly trapped victims. (Do we need to shore first?)
  2. Initiate other collapse rescue operations.

Drawing(s) of Incident Site
** Always be aware of secondary collapse potential.  

Use “risk” vs. “gain” mindset when making decisions !!!

Phase I : Size-up and Assessment

- Conduct a more detailed size-up. (all sides, roof, below-grade floors)

  Side A : ________________________________
  Side B : ________________________________
  Side C : ________________________________
  Side D : ________________________________
  Roof : ________________________________
  Below Grade : ________________________________

- Secure witnesses, persons familiar with the building.

  1. ____________________________________________
  2. ____________________________________________
  3. ____________________________________________
  4. ____________________________________________

- Type of collapse (circle type)

  Cantilever   “V” Type   Pancake
  Lean-To      Tent
Phase I: Size-up and Assessment (cont’d.)

- Determine victim information & removal priorities. (location, #, rescue / recovery, both)

  1. Location: __________ #: ___ Rescue/Recovery
  2. Location: __________ #: ___ Rescue/Recovery
  3. Location: __________ #: ___ Rescue/Recovery
  4. Location: __________ #: ___ Rescue/Recovery

  General victim removal priorities:
  1. On the surface or lightly covered.
  2. Can be seen or heard.
  3. In known locations, but cannot be seen or heard.

  Search techniques
  Visual
  Search cam
  Canine
  Call out/listen
  Victims who can be heard
  Thermal imager
  Delsar remote listening device

- Assess voids and spaces where viable victims are likely.
  ___________________________________________________
  ___________________________________________________
  ___________________________________________________

- Determine Utility & Hazardous Material Problems

  Water: ________ Utility notified: ____________
  Sewage: ________ Utility notified: ____________
  Electricity: ________ Utility notified: ____________
  Natural Gas: ________ Utility notified: ____________

  HazMat issues:
  1. ________________________________
  2. ________________________________
Additional Initial Command Actions.

___Develop an Incident Action Plan for operation.
(See attached “Recommended Command Structure”)

Our general shoring strategy is to initially set temporary shoring so we can move forward as fast as possible. Temporary shoring is then replaced by permanent Shoring. Temporary shoring removed is then re-used in forward or other locations, as needed.

___Conduct a pre-operational briefing (objectives, roles, responsibilities, etc.)

___ Ensure all are aware of the alert signal & egress routes in the event of an unexpected emergency.

___ Medical Branch established.
(Triage, Treatment, and Transport Groups)

___ Equipment Staging Area : _______________________
___ Cut Station Location : _________________________

___ Safety Officer(s) assigned.

___ ”Look-Outs” and building movement monitoring devices in place.

___ Notify Bldg. Inspector ; Red Cross ; other resources

  Bldg. Insp : _________________ Phone : __________
  Red Cross : _________________ Phone : __________
Phase II. Removal of Surface & Lightly Covered Victims

- Remove surface and lightly covered victims from the collapse zone. (*Do not overlook the need to shore!!*)

Phase III. Search Voids and Accessible Spaces

- Search voids and accessible areas. (under stairs, voids formed by “V”, lean-to, tent collapses, etc.)

- Shoring, breeching, and breaking will likely be required.

  *Anticipate the need for personnel, equipment, and material resources. Request same early so operations can continue without stoppage.*

  *Our general shoring strategy is to initially set temporary shoring so we can move forward as fast as possible. Temporary shoring is then replaced by permanent shoring. Temporary shoring removed is then re-used in forward or other locations, as needed.*

Phase IV. Selected Debris Removal w/ Special Equipment

- This phase will involve the removal of “selected” debris based on viable victim information obtained to this point.

- This phase will likely involve cranes, loaders, etc. from outside resources. Acquisition may take an extended time. Call for these resources early into the incident.
Phase V. General Debris Removal

- This phase begins after all known victims have been removed.

- This phase will likely involve cranes, loaders, etc. from outside resources. Acquisition may take an extended time. Call for these resources early into the incident.

- The pace of this phase is dependent on the reliability of further victim information and the time frame since the collapse occurred.

Phase VI. Termination

This final phase will involve all demobilization task to include:

- Accounting for and determining the condition of personnel & equipment.

- Ensuring all involved agencies have completed their tasks.

- Ensuring all victims have been provided for and custody of building has been passed to responsible party.

  Responsible Party: ________________________________

  Contact #’s: ______________________________________

- Debriefing, documentation, and critique information complete.
Structure / Hazards Marking System

(2-ft. x 2-ft., orange box near main entrance)

A square box with **no** diagonal slashes means the building is accessible and safe to search. Minor structural damage.

A square box with **one** diagonal slash means the building is significantly damaged. Some areas are safe, but others need shoring or bracing.

A square box with **two** diagonal slashes means the building is not safe to search due to sudden collapse potential. Remote search ops may proceed at a significant risk. If rescue ops must proceed, safe haven areas and rapid evacuation routes **must** be created.

An arrow located next to a marking box indicates the direction of travel to a safe entrance.
Search and Rescue Marking System

- Outside: Make a single, diagonal slash near main entrance when entering. Make a 2nd diagonal slash when exiting, and fill in all 4 quadrant boxes with information as listed.
- Inside: Make a single, diagonal slash when entering. Make a 2nd diagonal slash when exiting an interior room and only enter, “HAZARDS” in right quadrant & victim status in bottom quadrant.

```
15 NOV '06
1400 HRS

DCFD
RS-3

RATS

3-DEAD
2-LIVE
OR
NO VICTIMS

DATE & TIME THAT
SEARCH TEAM LEFT THE
BUILDING

HAZARDS

IDENTITY OF
SEARCH TEAM

NUMBER OF
LIVE AND DEAD
VICTIMS LEFT
```
** Victim Marking System:**

**Mark as close to the victim, as possible.**

- **“Potential Victim”**
  - DCFD
  - RS-3

- **“Confirmed Live Victim”**
  - DCFD
  - RS-3

- **“Confirmed Dead Victim”**
  - DCFD
  - RS-3

- **“Victim Removed”**
  - DCFD
  - RS-3
Structural Collapse Command Structure

IC/Ops

PIO

Safety Officer

Look-Outs

Liaison w/Other Agencies

Suppression Branch Director

Utilities Group Supervisor

Accountability Group Supervisor

Rescue Branch Director

Site Assessment Group Supervisor

Search Group Supervisor

Cut Group Supervisor

E-15 OIC

Medical Branch Director

Triage Group Supervisor

Treatment Group Supervisor

Transport Group Supervisor

Shoring Group Supervisor