

Standard Operating Guideline			
SOG Name:	Incident Safety Officer		
SOG Number:	100.2		
Standard:	TBD		
Guideline Owner:	Emergency Operations – Incident Operations		
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PURPOSE:

The Incident Safety Officer (ISO) position is integral to the safety of all members operating at an emergency incident scene. This guideline is prepared so that department members have a reference to perform their position as an ISO if assigned based upon current Dothan Fire Department (DFD) Standard Operating Guideline (SOG) and/or DFD policy, assigned by an incident commander (IC), or as required by incident type (hazardous materials incident, member of an Incident Management Team during deployments, etc.). This guideline in no way diminishes the responsibility of each member's commitment to safe work behaviors and to work within SOGs at all times.

A. GENERAL

SECTION 1

An ISO should be appointed to manage the incident safety program at all emergency scenes.

SECTION 2

The IC is the ISO until the ISO responsibilities are delegated either by SOG and/or assigned by the IC. The incident commander has overall responsibility for the safety of responders working at an emergency incident.

SECTION 3

The ISO is a member of the command staff working at a particular emergency incident. Based on the complexity and/or the geography of the incident, assistant ISO's may be assigned. The ISO is responsible for developing the risk assessment and safety plan for that incident.

- The assigned ISO has the authority to alter, suspend and/or terminate any unsafe
 acts, which involve imminent hazard occurring at the incident scene. The ISO
 shall immediately notify the IC of any actions requiring corrections.
- The assigned ISO that identifies an unsafe condition, operations or hazards that do not present an imminent hazard shall take appropriate action through the IC.
- Assistant ISO's (AISO) shall be granted the same authority for the incident.

B. POSITION QUALIFICATIONS

SECTION 1

Prior to serving as an ISO, members shall meet the following criteria:

- A Fire Sergeant/Engineer for more than one (1) year or above
- Certified as a Fire Officer I (NFPA 1521)
- Completed the 40-hour Alabama/Pro-Board Incident Safety Officer certification course or NFA ISO course (16 hours)

- Have the knowledge, skills, and abilities (KSAs) to manage incident scene safety to include KSAs of the IAFC Rules of Engagement for Structural Firefighting and the NFFF Life Safety Initiatives)
- Have and maintain a knowledge of safety and health hazards involved in emergency operations
- Have and maintain a knowledge of building construction
- Have and maintain a knowledge of the personnel accountability system
- Have and maintain a knowledge of incident scene rehabilitation

C. RESPONSE GUIDELINES

SECTION 1

The designation of an ISO shall follow DFD SOG's and policies.

- Structure Fire Responses: normally the second-in engine company officer will assume ISO unless changed by the incident commander (i.e. need for immediate rescue, additional water supply, etc) OR the second-in company officer identifies a shortfall (i.e. only three members on unit)
- Multi-Story/High Rise Fire: An ISO will be designated by the IC
- EMS (multiple unit responses): An ISO will be designated by the IC
- Technical Rescue (Rope, Confined Space, Trench, Structural Collapse, Water and Extrication): An ISO will be designated by the IC
- HazMat Level II Response: two safety officers will be identified by the IC: An ISO and a HazMat Group Safety Officer
 - o Level I HazMat incidents will be designated by the IC

SECTION 2

Training & Safety Division members and staff officers may be appointed to ISO positions as required based on incident needs. Every Officer should be prepared to function as the ISO when assigned by the IC.

D. ISO FUNCTIONS

SECTION 1—INCIDENT MANAGEMENT SYSTEM

NFPA 1561 states, "The IC shall ensure that adequate safety measures are in place." In the DFDs Command and Control Incident Management System, the IC is responsible for the safety and welfare of all members, other first responders, and citizens that are onscene at an incident. Based on the size, complexity, and Operational SOGs, the IC must delegate responsibilities that include safety. The incident command system can be expanded to include functions necessary to effectively command and control an incident. Though the IC is still responsible for the safety and welfare of all on-scene at the incident, this responsibility is delegated to the ISO.

The ISO is a member of the incident management command team and should complete safety strategies & tactics based upon the incident type and DFD guidelines. The ISO is responsible for developing and managing the incident safety plan based on the hazards (or possible hazards) at the incident. The ISO should be readily identifiable at the scene and should utilize available tactical worksheets and/or checklists (see Addendums 1 & 2).

SECTION 2—INCIDENT SCENE SAFETY

The ISO is responsible for the following at an incident scene:

- 1. Upon arrival, conduct a 360 degree evaluation/reconnaissance of the incident and report to IC to verify/confirm:
 - 1) Overall situation status and resource status
 - 2) The current mode of operation (Strategy) and Incident Action Plan (IAP)
 - 3) Known hazards and concerns and the establishment of control zones
 - 4) Leave personal accountability tag and conduct face-to-face communication with IC.
- 2. Don the Personal Protective Equipment (PPE) appropriate for the potential hazards that he/she will be exposed to.
- 3. Monitors conditions, activities, and operations to whether they fall into the criteria of the department's risk management plan
- 4. Ensures that an incident rehab has been established in accordance with department guidelines and policies
- 5. Will monitor the scene and report the status of conditions, hazards, and risk to the IC
- 6. Will ensure that the personnel accountability system is being utilized
- 7. Will ensure that established control/safety zones, collapse zones, hot zone and other designated hazards areas are identified and communicated to all members present on the scene. Hazard tape will be used whenever at all possible.
 - Yellow—keep non-firefighters, responders out of hazard zone
 - Red—all personnel do not enter without explicit permission from IC
- 8. One of the important functions of an ISO is to offer judgment about the collapse potential of buildings during incidents.
- 9. Will evaluate motor vehicle scene traffic hazards and apparatus placement and take necessary actions to mitigate hazards
- 10. Will monitor radio transmission barriers that could result in missed, unclear or incomplete communications
- 11. Will communicate to the IC the need for assistant ISO's due to need, complexity or duration of the incident
- 12. Will survey and evaluate the hazards associated with the designation of a landing zone.
- 13. Any designated ISO must perform these functions, duties and responsibilities when assigned by the IC or SOG. Member's must remove themselves' from the thought process of being a tactical officer and concentrate on safety concerns.

SECTION 3—FIRE SUPPRESSION

The ISO upon arrival at the incident scene will:

- 1. Will ensure that a rapid intervention crew (RIC) is established and that the RIC has the appropriate number of crew members and appropriate equipment to meet the needs of the incident
- 2. Advise the IC of hazards, collapse potential, and any fire extension within the involved building or buildings

- 3. Evaluate visible smoke and fire conditions and advise the IC, tactical management officers, and company officers for the potential of a hostile fire events (flashover, backdraft, smoke explosion, and rapid fire spread) or other fire event that could pose a threat to operating teams
- 4. Will monitor the accessibility of entry and egress of structures and the effect it has on the safety of members to conducting interior operations
- 5. The ISO assumes the role of initial RIC Leader in the case of a MAYDAY

SECTION 4—EMERGENCY MEDICAL SERVICES OPERATIONS

The ISO, upon arrival and designation at the incident scene will:

- 1. Follow the provisions as outlined in Section D.1 & D.2 of this SOG
- 2. Ensure compliance with the DFD Infection control plan
- 3. Ensure that critical incident stress management is considered and established as needed, especially with mass casualty incidents

SECTION 5—HAZARDOUS MATERIALS OPERATIONS

The ISO, upon arrival and designation at the incident scene will:

- 1. Meet the provisions as outlined in Section D.1 & D.2 of this SOG
- 2. Hazardous Materials ISO will meet the requirements of NFPA 472, Standard for Professional Competence of Responders to Hazardous Materials Incidents
- 3. Attend strategic and tactical planning sessions and provide input on risk assessment and member safety
- 4. Ensure a safety briefing, incident action plan (IAP) and an incident safety plan are developed and made available to all members on scene
- 5. Verify that all members are in correct PPE for the operation and the IAP/Safety Plan is being adhered to at all times.
- 6. Ensure that all zone designations (hot, warm, cold and other) are clearly marked and communicated to all members

SECTION 6—TECHNICAL RESCUE OPERATIONS

The ISO, upon arrival and designation at the incident scene will:

- 1. Meet the provisions as outlined in Section D.1 &D.2 of this SOG
- 2. If a technical rescue operation, the tech rescue ISO will meet the requirements of NFPA 1670, *Standard for Professional Competence of Responders to Technical Rescues* and, if possible be a member of the DFD Technical Rescue Team
- 3. Attend strategic and tactical planning sessions and provide input on risk assessment and member safety
- 4. Ensure a safety briefing, incident action plan (IAP) and an incident safety plan are developed and made available to all members on scene
- 5. Ensure that all zone designations (hot, warm, cold and other) are clearly marked and communicated to all members

SECTION 7—ACCIDENT INVESTIGATION & REVIEW

1. Upon notification of a member injury, illness or exposure, the ISO will immediately communicate to the IC to ensure EMS care is provided

- 2. The ISO will initiate the accident investigation procedures as indicated in DFD Operations SOG 120.4 and DFD Policy #11
- 3. In the event of a serious injury, fatality, or other harmful occurrence, the ISO shall notify the Chief of Training & Safety by voice (radio and/or phone) and request assistance.

SECTION 8—POST INCIDENT ANALYSIS

- 1. The ISO will participate in the post incident analysis—informal and formal.
- 2. The ISO will prepare a written report (See Addendum 2) for the formal post incident analysis that includes pertinent information about the incident in relation to safety and health issues.
- 3. The ISO will include information about issues relating to the use of PPE, accountability system, rapid intervention crews, rehab operations and other issues affecting the safety and welfare at the incident scene

E. SAFETY INTERVENTION

SECTION 1

Intervention at incident operations involves three approaches: Life threatening, non-life threatening, and on-going incident planning process

SECTION 2—Life Threatening Conditions

Life-threatening (imminent) conditions will be corrected immediately and directly by the ISO. Where time permits, the IC must be notified and corrective action will be initiated by Command immediately.

- 1. In situations where there is not enough time to notify the IC, the ISO shall immediately stop any action or countermand any order under these circumstances by DIRECT and IMMEDIATE intervention (i.e. orders crews out of a building, countermands an order for crews to go to the roof, etc). Such action may be taken with the understanding that the ISO works for the IC and is accountable to the IC for actions taken. COMMAND MUST BE IMMEDIATELY ADVISED OF ANY DIRECT INTERVENTION BY THE ISO UNDER THESE CIRCUMSTANCES
- 2. A change of strategy and/or tactics by Command or Division/Group/Unit leaders may be required as a result of the ISO's actions. All operating on the incident scene must be notified of hazards, required safety corrections or an updated IAP (objectives, strategies, tactics & tasks)
- 3. Also known as Firm Intervention—immediately stop, alter or suspend an action or operation due to imminent threat¹

SECTION 3—Non-Life Threatening Conditions

Non-Life threatening situations involve a more "one-on-one" correction of safety problems with individuals--firefighters, company officers, and/or division/group leaders. This is the most frequent type of intervention and normally does not affect incident strategy.

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¹ Imminent threat—an activity, condition, or inaction that will most certainly lead to injury or death

- 1. Examples include but are not limited to: wear of SCBA (including the mask); correct ladder position, wear of a safety vest
- 2. Where corrective action does not affect the strategy; the IC may not have to be notified. Corrected items should be noted for discussion at a post incident analysis
- 3. Also known as a soft intervention—aware that a hazard exists

SECTION 4—On-going incident planning

During long duration, higher complexity, larger area operations are on-going, several assistant safety officers may be needed and utilized. The ISO will need to ensure that a safety plan is in place and/or review or establish a safety plan. The IC based on the incident may ask the SO to develop a proposed plan and recommendations for the IC.

- 1. Command must be kept aware of any adjustments that affect overall incident site operations through frequent and timely progress reports
- 2. Consideration for a Safety Section within the IMS may be considered (span of control of Assistant ISOs (AISO)
- 3. Safety must remain a part of the on-going planning process with Command and/or the SO
- 4. Utilize NIMS compliant planning process (Planning P) and forms (ICS 215A, etc)

<u>(Signature on File)</u>

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DOTHAN FIRE DEPARTMENT

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Addendum 1 Incident Safety Officer Worksheet—Fire Suppression

Incident Name: Incident Date:	Diagram of Incident Wear full PPE & Stay Upwind	Safety Officer Check-In □ Report to IC	
Incident Time: Location: Incident Type: Fire		□ Report to IC Command Post □ Set Up □ Visible □ Safe Location Is strategy clear? □ Offensive □ Safety Officer ID □ Vest □ Helmet 360 Recon—stop, alter, or suspend any operation posing imminent threat to personnel—report these to IC immediately □ Conditions □ Hazards □ Risks □ Check in with Div / Group / Unit Officers □ Utilities secured □ Accountability system in place □ RIC briefed, equipped & in place □ Adequate lighting □ Medical unit established for personnel □ Rehab established □ Develop Incident Safety Plan □ Zones of Control □ Entry □ Collapse Zones □ Safety Zones □ Roof Ops □ Zones Identifiable □ Apparatus placement □ Traffic control/hazar □ Monitor Communications	n Ge
Truss Construction Under construction/renovation Older Building Special hazards What? Utilities: Gas Electric Master Streams in Place? How long? Burn time? HazMat? What		Fire Conditions Smoke: Color Volume Velocity Backdraft potentialSmoke Explosion Flashover potentialRapid Fire SpreadStructural integrity □ Review and revise IAP & incident safety plan □ Provide safe location for media	

Addendum 2 ISO Incident Checklist/Report

Safety Officer:	Incident Number:	Date:
Response Type:	Location:	
Incident Commander:	Div/Group Leaders:	
Time of Incident (1):	ISO on Location (2): Elapsed	Time (2-1):
(2) Complete 360° of incided following items as they \(\sqrt{= O} \) Strategy & Tactics □ Offensive / Defensive Defensiv	strategy rertical, horizontal, fans, crew locations as—volume / velocity / density / color drawing, crew locations, RIC locations the action necessary) s / Electric / LP gas tanks / cold / rain / wind / snow / ice s: roof / walls / floors / facades / signs t assessment, continue to observe all lifety of personnel, include the following	re line tape), checking the essment. cable items s, means of egress—) / other construction features sted items as well as others g (periodically check back roups / sections access zone MS / crew rotation (2 footing / two means of s / water supply / tools /

(4) Exercise emergency authority to immediately stop, alter or suspend an action or operation due to imminent threat or unsafe acts—notify IC immediately/ as soon as practical—ensure all personnel are aware of any special circumstances or imminent threat

FIRE RESCUE

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- a. In other non-imminent (non-life threatening) unsafe acts, one-on-one intervention may be best to fix the issue. IC may or may not be notified if it does not impact strategy; post incident analysis process may be a good place to review.
- b. Be aware of the need for CISM
- c. In the event of an accident/injury, the ISO is responsible for initiating the investigation process per DFD SOG #23 and DFD Policy #11. The following actions should be considered and completed if necessary:
 - i. Treat and transport as necessary
 - ii. Scene preservation
 - iii. Secure PPE/equipment, consider evidence
 - iv. Document seen with photos

	ne sketch			
	nesses & statem	nents		
(6) Resources				
□ Investigator	□ Police	□ Ambulance	□ Electric	
SEAL Gas				
□ Engineer	□ Heavy Eq	uipment	□ HazMat	\Box TRT
Scene Sketch (str	reet names ann	aratus hose lines hy	drants, direction, etc)	
Seene Sketch (str	reet names, app	aratus, nose nnes, ny	drants, direction, etc)	

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