

Subject		Number	
SOP FOR SAFI	24-07AMII		
Originating Department		Effective Date	
MONTGOME	ERY COUNTY FIRE AND RESCUE SERVICE	12/1/05	
STANDA	RD OPERATING PROCEDURES FOR SAF FIREFIGHTING OPERATIONS	E STRUCTURAL	
	endments from FCGOs 11-03 and 11-04 dated adments are in red/times new roman font & that page nur	 The second s second second se second second sec second second sec	
Issue	ed by: MONTGOMERY COUNTY FIRE AND RESC Policy No. 24-07AMII		
Supersedes a	edes FRC SOP for Safe Structure Firefighting Oper and Revokes DFRS Directive #03-13, Interim Water Supersedes and Revokes Fire Chief's General Orde Tanker Response Change , 9/20/05.	r Supply ,10/29/03	
	Authority: Montgomery County Code Section 21- Effective Date: December 1, 2005	2(d)(4)	
SUMMARY:	Standard response assignments for structure fin operational safety, effectiveness, and efficiency current standard apparatus dispatch assignmen procedures for fire and rescue personnel and un structure fires. From time to time, addenda add structure firefighting procedures will supplemen	 This SOP amends the nts and operating nits responding to dressing specific 	
DEADLINE :	Send all comments pertaining to this SOP to Be Montgomery County Fire and Rescue Service, Street, Rockville, MD 20850, by JUNE 15, 2009 be e-mailed to <u>beth.feldman@montgomerycour</u>	12th Floor, 101 Monroe 5. Comments may also	
Section 1. Defi	nitions.		

a. <u>Apparatus</u>. Fire and rescue service vehicles, including engines, aerial units, rescue squads, brush trucks, tankers, ambulances (BLS Units), Medic (ALS) Units, and special service units.



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b.	b. <u>Certified</u> . Documented proof of an individual's knowledge, skills, and abilities, and determination of competency through a process identified by the Fire Chief, which may include successful completion of testing, evaluation, or practical exercise components, indicating an individual is eligible to serve at a specific rank.		
C.	<u>Crew</u> . A group of two or more firefighters, rescuers, and emergency medical services personnel responding to an incident, staffing a specific unit.		
d.	d. <u>Equipment</u> . As used in Sections VII through X of this SOP, this term indicates full Personal Protective Equipment (PPE). In an IDLH atmosphere, personnel must use Self Contained Breathing Apparatus (SCBA) with integrated PASS device activated, and crews must carry handlight(s), a portable radio, tools, hose, and other equipment appropriate for the structure's construction and operational tactics.		
e.	Fire Control Room . An area located in some high rise buildin equipped as required by National Fire Protection Association (This area may include:		
	 Voice fire alarm system panel and controls; Fire department two-way telephone communication par Fire detection, sprinkler valve, water flow, and alarm an HVAC and elevator location and operation control pane Emergency generator and fire pump status indicators; Controls for stairway door locking systems; or Controlled-access telephone in public telephone system 	nunciation panels; ls;	
f.	High Rise Building. A structure more than five stories in height, or seventy-five feet above the lowest fire department vehicle access.		
g.	Immediately Dangerous to Life and Health (IDLH). An atmo immediate threat to life, would cause irreversible adverse heal impair an individual's ability to escape from a dangerous enviro	th effects, or would	
h.	Incident Commander (IC) . The officer on the scene who is in and is responsible for making the strategic decisions and assign or functional positions necessary to control an incident. The IC	gning other supervisory	



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	function or responsibility appropriate to a given incident that hat to another Command Officer.	as not been delegated
i.	Initial Entry Team (2-in crew). A minimum of two personnel participate in interior structure firefighting, one of whose rank r higher. These personnel must maintain constant visual and/or other while entering and operating in a burning structure.	nust be FF/R III or
j.	Integrated Emergency Command Structure (IECS). The op command that provides for the control of emergency incidents command structure all qualified personnel who have met appli experience requirements.	by integrating into the
k.	Interior Structural Firefighting. The physical activity of performand rescue while inside buildings or enclosed structures that a beyond the ignition stage.	
Ι.	Known Life Hazard. A circumstance where responding person person in distress, or have received reliable information from the Communications Center or a bystander indicating that a person atmosphere.	he Emergency
m.	MAYDAY. An emergency distress signal indicating that one or personnel need emergency assistance to escape an Immediately Health (IDLH) atmosphere or other life threatening situation.	
n.	PASS Device . Acronym for the Personal Alert Safety System integrated into the Self-Contained Breathing Apparatus (SCBA	
0.	Personal Protective Equipment (PPE) . Equipment consistin pants, boots, and gloves that comply with NFPA 1971 Standar <i>Structural Fire Fighting</i> ; SCBA that meet NIOSH certification a Standard, <i>Open-Circuit Self Contained Breathing Apparatus fo</i> the integrated PASS device that complies with NFPA 1982 Sta <i>Safety Systems for Fire Fighters</i> .	d, <i>Protective Ensemble,</i> nd NFPA 1981 or <i>Fire Service,</i> including



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p.	Personnel . All on-duty career and volunteer firefighter/rescue medical service providers.	er and emergency	
q.	PAR. Acronym for Personnel Accountability Report.		
r.	Rapid Intervention Company (RIC) . The third due engine of assignment, whose crew consists of at least two personnel, o unit officer, and one who is certified as minimum staffing on a rescue squad, who are available to rescue an MCFRS member necessary.	ne who is certified as a n engine, aerial unit, or	
S.	Rapid Intervention Dispatch (RID) . An automatic dispatch of unit, rescue squad, EMS unit (an ALS unit, if one is not alread and a Command Officer, when ECC determines the incident is units on the scene report a working fire.	ly on the fire ground),	
t.	Rapid Intervention Group (RIG). A combination of crews contended on the units from the RID.	onsisting of the third	
u.	Rural Area . For purposes of this SOP, any fire box area in M is not supplied by a municipal water distribution system suppo	• • •	
v.	Standby Team (2-out crew) . At least two personnel who quators on an engine, truck, or rescue squad, who observe the initial tentering an IDLH atmosphere, and are available, trained, and response to rescue the entry team.	wo-person team	
w.	Stationary Command Post. A formal Command Post identif locator.	ied by a geographic	
x.	<u>Team</u> . Two or more personnel who are certified to participate One member must be, at a minimum, qualified as a Firefighte member must be, at a minimum, qualified as a Firefighter/Res accordance with the MCFRS <i>Training, Experience, and Crede</i>	r I, and the second scuer III or higher, in	

y. Unit. A specific piece of apparatus staffed by firefighter, rescuer, or emergency



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medical services personnel. The term "unit" is also used as part of a radio designation for an individual firefighter/rescuer or EMS provider.

z. <u>Unit Officer</u>. The officer in charge of a specific fire, rescue, or EMS unit. To be a unit officer on fire apparatus, personnel must be certified as a Firefighter/Rescuer III or higher rank. To be a unit officer on an ambulance/BLS (Basic Life Support) Unit, an EMS Provider must be certified as an EMT-B. To be a unit officer on a Medic Unit/MICU (Mobile Intensive Care Unit) or ALS (Advanced Life Support) Unit, an EMS Provider must be certified as an EMS Provider/Paramedic or ALS Provider.

Section 2. Applicability. This SOP was developed in cooperation with all components of the MCFRS, including the International Association of Fire Fighters Local 1664, and the Local Fire and Rescue Departments. It applies to all Montgomery County Fire and Rescue Service **personnel**.

This SOP generally applies to structural firefighting operations. Section 4. I., Initial Operations, applies to all incidents where an **IDLH** atmosphere exists.

Section 3. Policy. MCFRS requires the use of Standard Operating Procedures for mitigating structure fires. All fire and rescue service **personnel** must use safe and efficient procedures on all structure fire incidents.

Section 4. Procedures.

- I. INITIAL OPERATIONS
- a. All **personnel** who are prepared to work at the scene of a structure fire must wear full **PPE** and carry hand lights and other tools appropriate for their assigned position. In **IDLH** atmospheres, SCBA must be used and **PASS devices** must be activated.
- b. The requirements of 29 CFR 1910.134, *Respiratory Protection Program,* may be met by forming a **Standby Team** outside as the **Initial Entry Team** enters a structure where an **IDLH** atmosphere may exist, or by performing exterior functions until the **Standby Team** or **RIC** is operational.
- c. To meet the **IDLH** atmosphere entry requirements of 29 CFR 1910.134, *Respiratory*



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Pro	tection	Program:		
1.		nitial Entry Team must be formed before entering re an IDLH atmosphere exists.	an interior structural fire	
2.	the II Initia	andby Team prepared to rescue the Initial Entry DLH atmosphere before the Initial Entry Team e al Entry Team Officer, normally the officer of the gn this responsibility to:	nters the structure. The	
	Α.	A certified EMS crew that is qualified for Stand	dby Team assignment;	
	В.	Certified personnel from additional arriving un and rescue squads);	lits (engines, aerial units,	
	C.	Certified personnel on the first arriving unit when staffing (i.e., a unit staffed with four or more pe		
	D.	Any other combination of certified personnel we stand by Team assignment	who are qualified for	
3.		of the members of the Standby Team must main al Entry Team visually, verbally, or by radio.	tain contact with the	
4.	but n respo This	second member of the Standby Team may be as nust wear PPE , have SCBA immediately available ond immediately to assist in rescuing the Initial E member must not be assigned to functions that w al Entry Team if he/she abandoned those operation.	e, and must be able to ntry Team , if required. vould further endanger the	
5.	is in situa	e Initial Entry Team requires assistance/rescue w place, the Standby Team must inform Command ition and its plan of action. Both Standby Team n al Entry Team if it can be done safely.	l or the ECC of the	



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- 6. Any **unit** assigned as the **Standby Team** must be prepared to carry out its preassigned job task in accordance with this SOP, or, once it has been relieved by the **RIC**, be prepared to be redeployed by the **IC**.
- d. A **unit** arriving at an **interior structural fire** where an **IDLH** atmosphere exists must not begin interior operations if a **Standby Team** is not available. Before a **Standby Team** is in place, the initial **crew** may prepare the structure for entry. This **crew** may perform appropriate exterior operations including, but not limited to:
 - 1. Exposure protection;
 - 2 Exterior attack;
 - 3. Stretching attack lines to the boundary of the IDLH atmosphere; or
 - 4. Controlling utilities, i.e., outside gas shut-off.

EXCEPTION: If arriving **personnel** find a **known life hazard** and immediate action may prevent the loss of life or serious injury, the **crew** may begin appropriate interior operations without a **Standby Team** in place. Once the **known life hazard** has been resolved, **personnel** must withdraw until a **Standby Team** or **RIC/RIG** has been assembled

- e. If the initial arriving **Unit Officer** determines that initial operations must begin in an **IDLH** atmosphere before establishing the **2-out crew**, he/she must make a radio announcement identifying the **units** involved, their mission, and their location in the **IDLH** atmosphere. ECC must repeat this announcement to the responding companies and Command Officer. This action is authorized only when a known rescue situation exists and the **2-out** requirement has not been met.
- f. The rationale for abating the **Standby Team** must be fully documented on the Incident Report.
- g. When interior firefighting operations are significantly delayed because the **2-out** requirement has not been met, the circumstances must be fully documented on the Incident Report.

II. RAPID INTERVENTION.

a. The third due engine will function as the initial RIC on all structure fires, unless the IC



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	specifically orders it to take another assignment.		
b.	The RIC will relieve the Standby Team when it arrives on the Standby Team will carry out its SOP assignment or be redept RIC must be on the fire ground, positioned to relieve the Stan preferred relief is face-to-face. During large-scale incidents, reradio.	oyed by the IC . The d-by Team . The	
C.	The RID will be dispatched when a working incident is identified the scene. The RID includes: one aerial unit, one rescue squar if one is not already on the fire ground), and one Command O adequate resources remain available for other incidents, not n squads should be dispatched to one structure fire incident, un requested by the IC .	ad, one EMS unit (ALS, fficer. To ensure that nore than two rescue	
d.	Units from the RID will combine with the RIC to form the Rapi	id Intervention Group.	
e.	The RIG must be located where it can rapidly assist personne operations. This may be: at the Command Post for a house fi entryway for a commercial or multi-family occupancy; one floo rise structure ; or as assigned by the IC .	re; at the primary	
f.	When stationed on the exterior, the RIG must be outside the or be able to maintain a view of the structure to observe its collar potential for other catastrophic events.	•	
g.	The RIG must monitor all critical operational radio talk groups including the Fire Department Talk Around (FDTA) channel, a location of crews operating in/on the structure. The RIG office to Command any need for additional units and/or special equ rapid intervention mission.	nd must know the er should communicate	
ł	RIG members must be equipped to protect or rescue opera Appropriate equipment includes, but is not limited to: a po and in place; hose line(s) ready (charged or uncharged, de location); Thermal Imaging Camera; rope; and any other to	rtable radio; full PPE on epending on the RIG's	



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	appropriate for the operation.	
NOTE	E: Maryland Occupational Safety and Health (MOSH) requirement Team are not abated by the arrival of additional units . Howe NFPA 1500 <i>Rapid Intervention Company</i> (RIC) terminology a requirement, and ensures that a rescue team is appropriately stationed to perform its duties.	ver, transition to the nd functions meets this
III.	MAYDAY. An emergency distress signal indicating that one or mergensonnel need emergency assistance to escape an Immediately Dan and Health (IDLH) atmosphere or other life threatening situation.	
	This FCGO describes 1) conditions that warrant a MAYDAY, 2) pr declaring a MAYDAY and 3) Incident Commander Actions during	
1.	Conditions that warrant a MAYDAY.	
	All personnel must be able to recognize situations where they, their mminent danger. Personnel must declare a MAYDAY when they are personnel involved in distress, including any of the following condition	involved in, or witness
	A. A crew member has fallen through a roof or floor;	
	B. A crew member has been caught in a catastrophic event such as backdraft or collapse.	a flashover, explosion,
	C. A crew member has become entangled, trapped, pinned, stuck, or in an IDLH atmosphere.	or separated from their crew
	D. A crew member who may be disoriented, missing, lost, or off a large/open area with limited visibility;	hose line or tag line in a
	E. A crew member's primary exit is blocked by fire or structural co is not immediately available;	ollapse and an alternate exit



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F. Ac	crew member's low air alert activates and an immediate exit	is not available; or
G. An risl	y other situation when the life safety of a crew or a crew merk.	mber may be at immediate
2. Procedu	ures for calling a MAYDAY.	
	e crew member(s) declaring a MAYDAY must immediately ommander by:	notify the Incident
1.	Depressing the Emergency Button (EB) to activate the radio feature (enabling that radio to override all other voice transm Talkgroup), and	
2.	Verbally transmitting on the assigned tactical talkgroup " M MAYDAY " followed by their unit number, their location, the and their resource needs.	
3.	The acronym LUNAR may be used as a memory aid for tran MAYDAY information to the Incident Commander:	nsmitting critical
	L – Location U – Unit N – Name A – Assignment and air supply R – Resources needed	
4.	After successfully transmitting the MAYDAY, the crew me Personal Alert Safety System (PASS) device(s) to assist resolucation.	
	hen the crew member cannot successfully transmit a MAYDA ese two additional actions may be utilized:	AY on a trunked Talkgroup,
-	Depress the EB and transmit the MAYDAY on the NOVE the closest Battalion Chief's active Vehicle Repeater System	U

Battalion Chief's VRS is in STANDBY mode, the EB signal will activate the VRS.



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- Transmit the MAYDAY on the OSCAR Talkgroup. The Incident Commander may not be able to receive the MAYDAY on OSCAR Talkgroup, so other units on the scene must be prepared to relay the MAYDAY message to the Incident Commander. By pressing the PTT and then the EB, a distinct warble tone is transmitted over the OSCAR Talkgroup to alert listeners of the MAYDAY; however, ruthless preemption and transmittal of the radio ID does not work on the OSCAR Talkgroup. For these reasons, all portable radios must be kept in the programmed SCAN mode and the Incident Commander, Rapid Intervention Company (RIC) and Rapid Intervention Group (RIG) must monitor the OSCAR Talkgroup.
- C. When an EB is activated with no MAYDAY voice transmission, the Emergency Communications Center (ECC) must notify the Incident Commander of the EB activation. The Incident Commander must attempt to verbally contact the crew member with an activated EB. If there is no response following two requests, the Incident Commander must declare a MAYDAY.
- D. The Incident Commander must declare a MAYDAY for any crew or crew member not accounted for during a Personnel Accountability Report (PAR) following two requests.

3. Command Actions during a MAYDAY

- A. Upon receiving a MAYDAY, the Incident Commander must acknowledge the MAYDAY and then declare radio silence on all appropriate tactical talkgroups in use on the incident.
- B. All units must continue to conduct their tactical assignments until instructed otherwise by the Incident Commander, with due consideration for the presence of an active MAYDAY.
- C. The Incident Commander must attempt to determine the exact location of MAYDAY crew members, the nature of the MAYDAY and the resources needed to conduct rescue operations.
- D. The Incident Commander must direct the Stand-By Team, the RIC, or the RIG to intervene and conduct rescue operations. The Incident Commander may reassign any units in the vicinity of the MAYDAY crew members to assist in rescue operations.
- E. The Incident Commander may have units not directly involved in the MAYDAY switch to



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	a Ii	n alternate tactical Talkgroup, provided that the command team nd voice radios to manage operations on multiple Talkgroups. I ncident Commander, the ECC must transmit an Alert Tone (Cen hen announce the alternate tactical Talkgroup.	f instructed to do so by the
	F. The Incident Commander must ensure a PAR is rapidly conducted when a MAYDAY has been declared, beginning with the units in the greatest danger. Any crew or crew member not accounted for during the PAR must be considered an additional MAYDAY.G. When the MAYDAY situation has been stabilized and all operations return to normal, the Incident Commander must transmit a "MAYDAY ALL CLEAR" announcement.		
	N P	The Incident Commander must conduct and document a Post-Ind MAYDAY Incident in accordance with the Montgomery County Policy and Procedure # 20-02, <i>Incident Command System</i> , Attac Analysis.	Fire and Rescue Service
IV.	SIZE-UP AND INITIAL COMMUNICATIONS. Timely and effective communications are necessary as companies engage in structural firefighting operations. The three components to these reports include: Water Supply Instructions; Initial On-Scene Reports (IOSR); and Situation Reports.		
a.	The first and fourth engine crews and other appropriate units will give water supply instructions by radio while en route.		
b.	The	first arriving unit will give an IOSR, including:	
	1.	the arrival side of the building;	
	2.	the number of its stories;	
	3.	the type of its occupancy;	
	4.	conditions evident on arrival, with associated geograph <i>Incident Command System</i> terminology;	ic location, using
	5.	a request for additional resources (example: a call for the	he RID); and



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	6.	if deviating from the SOP, designating other unit assig	nments.		
C.		first arriving unit to the side of the building opposite the fin R, including:	rst unit will give an		
	1.	the number of stories on that side of the building; and			
	2.	conditions evident with the associated geographic loca <i>Command System</i> terminology.	tion, using <i>Incident</i>		
d.	After the initial size-up, the first arriving unit will: give a situation report; advise other companies what the initial actions will be; designate the Stand-by Team and the point of entry; and indicate the Command mode.				
e.	Control of Communications for Task Force or Greater Alarm Fires . To maintain control of radio traffic on primary tactical talk groups, ECC will assign all apparatus dispatched on task force or greater alarms to a talk group separate from the incident's main talk group.				
	1.	Units responding on task force or greater alarms must assigned talk group, and not transmit on the tactical tauntil assigned to the incident.			
	2.	Units assigned on task force or greater alarms will sta are given specific orders by the IC or Section Chief. on the greater alarm will become the Staging Manage a Command Officer. The Staging Manager will be the to communicate with Command from the staging area	The first due engine er, in the absence of e only unit (person)		
V.					
a.		stigative Mode . In this Command Mode, the first due off while investigating.	icer has Command by		



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b. Attack M	Iode . In this Command Mode, the situation found on a	arrival requires

- Attack Mode. In this Command Mode, the situation found on arrival requires immediate action. The company officer's assistance is required, and that officer must be directly involved with the attack. The company officer will supervise the crew, and will have Command responsibility by portable radio. This Command Mode is limited to a few minutes, and will end when:
 - 1. the situation is stabilized; or
 - 2. the situation is not stabilized, but the company officer withdraws to the exterior and establishes a **Stationary Command Post**; or
 - 3. Command is transferred to another company officer or to a Command Officer.

VI. TRANSFERRING THE INITIAL COMMAND TO A COMMAND OFFICER. A Command Officer will establish a formal Command Post on all structure fire assignments where five or more **units** are operating on the fire ground. The transfer to a formal Command Post is made in one of the ways indicated below.

- a. The first arriving Command Officer will assume Command by radio when **units** are operating in either Investigative or Attack Mode. The first arriving Command Officer will communicate by radio with the **Unit Officer** who has Command, receive a situation report, and then assume **Stationary Command Post** operations. If the first arriving Command Officer cannot contact the **Unit Officer** with Command either face to face or by radio, the first arriving Command Officer will assume Command, and announce this assumption of Command by radio.
- b. Command can be passed **only once** from **Unit Officer** to **Unit Officer**. On the arrival of the first arriving Command Officer, that officer will assume Command, either by radio, or face-to-face. All other transfers of Command will be made face-to-face at the Command Post.
- c. A company officer in charge of the **Standby Team** can perform the Command function until the arrival of a Command Officer.



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VII. STRUCTURAL FIRE ASSIGNMENT The standard dispatch assignment for a structure fire (except for a shed or detached garage) is five engines, two aerial units, one rescue squad, one EMS unit, and four Command Officers. At least two Command Officers must respond on the assignment. All **personnel** must use the procedures below during structure firefighting operations. Personnel must not take action until their Unit Officer in charge directs them to do so. All drivers who are not specifically assigned to **apparatus** operations will assemble with their **crew**. *Fireground discipline is critical during all incident responses*. In addition to the listed responsibilities, Unit Officers must maintain **crew** integrity, ensure that **personnel** and **apparatus** take their assigned positions, and follow this and other applicable policies, including the MCFRS *Incident Command System*. The IC may modify these assignments as necessary.

Crews responding on a reduced assignment of two engines and a special service will follow the SOP for the first two engines and the first special service indicated below.

a. **First Due Engine**

1. <u>Unit</u>. Initiate water supply by laying a supply line from the most suitable hydrant, or beginning a split lay. Position the engine on Side A, reserving adequate space for the aerial unit to position. Connect to the Fire Department Connection (standpipe and/or sprinkler system), if so equipped, on or closest to Side A. If the first due engine is required to position elsewhere, this must be reported immediately to all other responding **units** and Command Officers.

2. <u>Unit Officer</u>.

A. Provide water supply instructions by radio while en route to the incident location.

- B. On arrival, give reports as required in Section 4.IV. of this SOP.
- C. Follow the **IDLH** operations provisions of this SOP.
- 3. <u>**Crew**</u>. Advance a hose line to the fire floor and begin fire attack/confinement, with attack line placement to best support the search function.
- 4. **Equipment**. Includes SCBA, portable radios, hand lights, thermal imaging camera,



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		tools, hose lines, and other equipment appropriate for the st operational tactics.	ructure's construction and	
b.	Seco	ond Due Engine		
	1.	<u>Unit</u> . Ensure and expand upon the water supply as necessar by connecting to the hydrant and improving the intake press and/or laying additional supply lines as necessary.	•	
	2.	Crew. Advance a hose line and back up the first due engine	2.	
	3.	Equipment . Includes SCBA, portable radios, hand lights, t tools, hose lines, and other equipment appropriate for the st operational tactics.	U	
c.	Thir	rd Due Engine.		
	1.	<u>Unit.</u> Position as close to the incident as possible without ir incoming units requiring a tactical position. Do not lay any		
	2.	<u>Crew.</u>		
		A. Report to the IC and advise that you are the RIC ; un	lless specifically	
		ordered otherwise, and assume the operations of the	RIC.	
		B. Secure an additional hose line and immediately relie become the RIC . This is usually done face-to-face, be larger scale incidents.	•	
		C. Monitor all critical operational talk groups and the F	DTA channel.	
		D. Determine the location of the fire and its progression	l.	
		E. Observe fire conditions, note attack progress, and de	termine the location of	

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crews working in the building.



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	F. Determine the occupancy type and building construc	tion.	
3. Equipment. Includes SCBA, portable radios, hand lights, thermal imaging camera, tools, hose lines, and other equipment appropriate for the structure's construction and operational tactics, and any additional equipment specific to the RIC function.			

d. Fourth Due Engine

1. <u>Unit.</u> Initiate water supply by laying a supply line from an unused hydrant, when possible, or beginning a split-lay to Side C. Position the unit to reserve adequate space for aerial unit positioning. Connect to the Fire Department Connection (standpipe/sprinkler system), if so equipped, on or closest to Side C.

2. <u>Unit Officer</u>.

- A. Give water supply instructions by radio while en route to the incident location.
- B. On arrival, give reports in accordance with Section 4.IV.of this SOP.
- 3. <u>**Crew.**</u> Advance a hose line to floor *above* the fire floor or to the exposure most threatened by horizontal extension, and initiate operations. Check the basement

and the floors below the fire while enroute to the floor above.

4. <u>Equipment.</u> Includes SCBA, portable radios, hand lights, thermal imaging camera, tools, hose line, and other **equipment** appropriate for the structure's construction and operational tactics.

e. Fifth Due Engine

- 1. <u>Unit.</u> Ensure, and as necessary, expand upon the water supply for the fourth due engine by connecting to the hydrant and improving the intake pressure of the fourth due engine, and/or laying additional supply lines as necessary.
- 2. <u>Crew.</u> Report to the IC for assignment; do not engage in any job task until assigned by the IC.



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4.	Equipment. Includes SCBA, portable radios, hand lights, therm hose line, and other equipment appropriate for the structure's co tactics.		

f. **First Due Aerial Unit**

1. <u>Unit</u>. Position on Side A.

2. <u>Crew:</u>

- A. Perform rapid outside horizontal ventilation coordinated with the fire attack.
- B. If necessary, perform initial forcible entry for the first due engine.
- C. Provide secondary exit(s) for interior **crews** with ground and/or aerial ladders on buildings more than one story high.
- D. After completing the duties outlined above, report to the fire floor. Initiate or assist the assigned rescue squad with search and rescue. Begin checking for extension by opening concealed spaces as necessary after

the bulk of the fire has been extinguished.

- E. Support the fire attack by providing lighting, and perform ventilation, overhaul, and salvage operations.
- 3. **Equipment**. Includes SCBA, portable radios, hand lights, thermal imaging camera, tools, and other **equipment** appropriate for the structure's construction and operational tactics.

g. Second Due Aerial Unit

- 1. <u>Unit</u>. Position on Side C.
- 2. <u>Crew</u>.



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		A.	Assist first due aerial unit with outside horizontal ver with, and supports, the fire attack plan.	tilation that is coordinated
		B.	Perform initial forcible entry as necessary for the fou	rth due engine.
	C. Provide secondary exit(s) for interior crews with ground and/or aerial ladders for buildings more than one story high.			and and/or aerial ladders
		D.	Provide vertical ventilation when ordered or approve	by the IC .
	E. After completing the duties outlined above, report to the floor above the fire. Initiate or assist the assigned rescue squad with search and rescue on that floor Begin checking for extension by opening concealed spaces as necessary after the bulk of the fire has been extinguished.		h and rescue on that floor.	
		F.	Support the fire attack by providing lighting, and per- overhaul, and salvage operations.	corming ventilation,
	3.		<u>oment</u> . Includes SCBA, portable radios, hand lights, the and other equipment appropriate for the structure's cos.	
h.	Resc	ue Squa	d	
	1.	<u>Unit</u> .	Position to avoid impeding responding or departing a	oparatus.
	2.		<u>Officer</u> . Report to the IC or division/group supervisor osequent secondary searches are completed and utilities	1 v
	3.	utilitie	Ensure completion of a systematic search of the buildes and assist, in coordination with the assigned aerial up aul, and salvage activities.	U
	4		<u>oment</u> . Includes SCBA, portable radios, hand lights, the and other equipment appropriate for the structure's cos.	



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i.	Amb	oulance or ALS Unit		
	1.	<u>Unit</u> . Position on Side A, assuring that the vehicle can leave necessary. The vehicle does not have to be included in the a	C	
	2.	Crew. Establish an aid station on Side A.		
	3.	Equipment . Includes portable radios, hand lights, cot, oxyg a burn kit, and ALS equipment (ALS Unit only). If the cre Team , all personnel must wear full PPE and SCBA s.		
j.	First	t Arriving Command Officer		
	1.	<u>Unit</u> . Normally, position on Side A, allowing space for the or rescue squad to implement tactical operations.	engine, aerial unit , and	
	2.	Officer . Establish a Command Post and assume Command accordance with Section 4.VI. of this SOP and the MCFRS		
	3.	Equipment . Wear appropriate identifier vest and have immand SCBA , a portable radio and a hand light.	nediate access to full PPE	
k.	Add	itional Command Officers		
	1.	<u>Unit.</u> Position vehicles to allow access of responding engin squads.	es, aerial units , and rescue	
	2.	Officer. Report to the IC for assignment.		
	3.	Equipment . Wear appropriate identifier vest and have imm and SCBA , a portable radio and a hand light.	nediate access to full PPE	

SUPPLY. The standard dispatch for a structure fire in a non-hydranted area is five engines, two aerial **units**, one rescue squad, three tankers, one EMS **unit**, and four Command Officers. Three Command Officers is the minimum Command Officer response. This Section of the SOP establishes



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The attac	procedu	for structure firefighting in areas of the County that lack fire hy ure is a modification of the SOP for hydranted areas, and empha e initial arriving engine, with an uninterrupted, expandable wate cs.	sizes supporting the fire
NO		tits arriving on a scene where large diameter hose (LDH) is dep I to the side of the road, driveway, etc., before charging the line	-
a.	Firs	t Due Engine	
	1.	Unit. Initiate the water supply process by laying a supply linclappered Siamese. This hose lay must begin at the drivewa structure, or from the nearest area suitable for dump site oper this site must be identified in the unit's on-scene report.	y entrance to the involved
	2.	<u>Unit Officer</u> .	
		A. Determine and advise whether a tanker shuttle or rela implemented for the water supply. Advise the water	• •
		shuttle or relay operation so the fifth due engine can p establish a fill site or relay water source.	osition there and
		NOTE: If the water source is accessible and located within engine's Siamese, a relay operation is the preferred v	
		B. Direct other incoming engines and tankers to support water shuttle or water relay is developed.	t the initial attack until a
		C. On arrival, give reports in accordance with Section 4	.IV. of this SOP.
		D. All firefighting operations must adhere to the require this SOP.	ements of Section 4.I. of
	3.	<u>Crew</u> . Advance a hand line to the fire floor and begin fire a attack line placement to best support the search function.	ttack/confinement, with

4. **Equipment**. Includes SCBA, portable radios, hand lights, thermal imaging camera, tools, hose lines, and other **equipment** appropriate for the structure's construction and



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		operational tactics.		
b.	Seco	ond Due Engine		
		<u>Unit</u> . Position the engine close to the attack engine, and sup ek engine as necessary. Leave clear access to the drivewa er and aerial unit .	oply tank water to the ay for the first arriving	
		NOTE: As the second due engine positions, the crew may line(s) from the middle of the road or driveway.	need to move the supply	
	1.	<u>Unit Officer</u> . Quickly assess the availability of a water sour or a pond near the involved structure).	rce (e.g., a swimming pool	
	2.	<u>Crew.</u> Advance a hose line and back up the first due engine	2.	
	3.	Equipment. Includes SCBA, portable radios, hand lights, t	hermal imaging	
		camera, tools, hose lines, and other equipment appropriate f construction and operational tactics.	or the structure's	
c.	Thir	rd Due Engine.		
	1.	<u>Unit.</u> Locate in an uncommitted position as close to the inclusion impeding other apparatus for planned water supply operation directed to:		
		A. Operate as a draft engine to support the initial attack or	from a static water source;	
		B. Begin laying supply lines for water relay operations,	as directed.	
	2.	Driver. Be prepared to pump water to the clappered Siames engine, and stand by for instructions from the WSGO. Be pr of the fourth due engine to create a dump site.		



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3. <u>Crev</u>	<u>7.</u>	
А.	Report to the IC and advise that you are the RIC ; u otherwise, and assume the operations of the RIC .	nless specifically ordered
В.	Secure an additional hose line and immediately relied become the RIC . This is usually done face-to-face, larger scale incidents.	•
C.	Monitor all critical operational talk groups and the H	FDTA channel.
D.	Determine the location of the fire and its progression	n.
E.	Observe fire conditions, note attack progress, and de crews working in the building.	etermine the location of
F.	Determine the occupancy type and building constru-	ction.
hose line	ent. Includes SCBA, portable radios, hand lights, the s, and other equipment appropriate for the structure's nal tactics, and any additional equipment specific to the	construction and
d. Fourth Due E	ngine	
	osition the engine to allow the first tanker and the first ucture, while best positioning either for dump site, or r	-
	For dump Site Operations: Position the unit to his position must allow the engine to draft from the four sinkers to fill the folding tanks, preferably using their sinkers to fill the folding tanks.	lding tanks, and enable the
to	onnect to the clappered Siamese and leave the supply o charge. Try to enable first due tanker and aerial unit ructure before charging the supply line.	C
В	. For Relay Operations: Position as necessary to	o initiate the relay.



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	2.	<u>Unit Officer</u> . Place into operation the initial dump site operatio operations.	ns, or perform relay	
	3.	Crew. Manage dump sire operations.		
	4.	Equipment. Includes SCBA, portable radios, had lights, therm hose lines, and other equipment appropriate for the structure's coperational tactics.		
e.	Fi	fth Due Engine		
	1.	<u>Unit</u> . Establish the first fill site; do not respond directly to the	he scene.	
	2.	Unit Officer. Place into operation the initial fill site or relay	/ water source as	
		identified.		
	3.	<u>Crew</u> . For fill site operations, set up at least two LDH suppl ball valves attached, capable of filling tankers at a minimum Maintain fill site operations, and establish water supply conn apparatus .	rate of 500 GPM each.	
	4.	Equipment. Includes SCBA, portable radios, hand lights, the tools, hose lines, and other equipment appropriate for the structure operational tactics.		
f.	Fi	rst Due (Nurse) Tanker		
	1.	Unit. If staffing permits, drop off portable tank at the end of clappered Siamese. Position the unit near the first due engir line to the tanker, and from the tanker to the first arriving engine with tank water, and transition to supplying water fro source as one becomes established. Try to maintain a full tag supply is interrupted	ne and connect the supply gine. Supply the first due m the dump site or relay	
	2.	<u>Crew</u> . Assist the driver with water supply operations.		

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g. Second Due Tanker	

1. <u>Unit</u>. The primary responsibility for this **unit** is to support the fire attack by immediately pumping the Siamese, and continuing to pump the Siamese until it runs out of water.

The tanker will leave its folding tank and all appropriate appliances to be used in developing dump site operations at the dump site.

If the fourth engine is not in a position to set up the dump site, the second tanker should supply the Siamese from a position that allows the fourth engine and third tanker access to the dump site.

2. <u>**Crew.**</u> Assist the driver with water supply operations.

h. Third Due Tanker

1. <u>Unit</u>. Support the fire attack by pumping the Siamese until the dump site is operating.

If the fourth due engine is in position to begin development of the dump site, the third due tanker should position to set up the folding tank and dump enough water for the fourth due engine to achieve a draft. If the fourth due engine is successful in drafting, then transition can be made from tankers supplying the Siamese to the fourth due engine supplying the Siamese from folding tanks. When the fourth due engine is successfully drafting, dump remaining water into the folding tank and move to the fill site.

If in relay operations, support the Siamese until the relay is in service.

2. <u>**Crew.**</u> Assist the driver with water supply operations.

i. **First Due Aerial Unit**

1. <u>Unit</u>. Position on Side A, or in the area of highest priority to accomplish rescue operations. Provide roof access/egress, or deploy a defensive, elevated stream. If this location impedes incoming water supply **units**, position the **unit** elsewhere, e.g., in an



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		adjoining driveway.	_1	
	2.	<u>Crew</u> . Perform duties outlined in Section 4.VII.f. of this SC	OP.	
	3.	Equipment. Includes SCBA, portable radios, hand lights, t tools, and other equipment appropriate for the structure's catactics.		
j.	Seco	ond Due Aerial Unit		
	1.	<u>Unit</u> . Position on the main road, or in a location that does n access/egress of tankers.	not impede the	
2. <u>Crew.</u> Perform duties outlined in Section 4.VII.g. of this S			OP.	
	3.	Equipment. Includes SCBA, portable radios, hand lights, t tools, and other equipment appropriate for the structure's catactics.		
k.	Reso	cue Squad		
	1.	<u>Unit</u> . Position on the main road, or in a location that does n access/egress of tankers.	not impede the	
	2.	<u>Crew.</u> Perform duties outlined in Section 4.VII.h. of this S	OP.	
	3.	Equipment. Includes SCBA, portable radios, hand lights, t tools, and other equipment appropriate for the structure's catactics.		
1.	Amb	bulance or ALS Unit		
	1.	<u>Unit</u> . Position at the incident scene to facilitate the position assuring that the vehicle can leave the fireground if necessar have to be included in the aid station.		
	2.	Crew. Establish an aid station on Side A.		



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	3.	Equipment. Includes portable radios, hand lights, cot, oxy, a burn kit, and ALS equipment (ALS Unit only). If the cro Team , all personnel must wear full PPE and SCBA .		
m.	Firs	t Arriving Command Officer		
	1.	<u>Unit</u> . Position on Side A, allowing space for the first and se and aerial unit to implement tactical operations.	econd due engine, tanker,	
	2.	Officer . Establish a Command Post and assume Command accordance with Section 4.V. of this SOP and the MCFRS <i>I</i> Once a formal Command Post has been established, assign a Supervisor as soon as possible.	ncident Command System.	
	3.	Equipment . Wear appropriate identifier vest and have imm and SCBA , a portable radio and a hand light.	nediate access to full PPE	
n.	Water Supply Group Supervisor			
	1.	<u>Officer</u> . Locate available water sources and position to coor operations. The Water Supply Group should operate on a se assigned by the IC .		
	2.	Equipment . Wear appropriate identifier vest and have imm and SCBA , a portable radio and a hand light.	nediate access to full PPE	
0.	hydr	ter Supply Task Force. Upon the indication of a working stru- ranted area, or at the request of the IC, ECC will dispatch a Wa sisting of one additional engine and three additional tankers.		
p.	Wat	er Supply Task Force Engine		
	1.	<u>Unit</u> . Report to and develop the second designated fill site WSGO.	location as directed by the	

2. <u>Crew</u>. Set up at least two LDH supply lines with quarter-turn ball valves attached,



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	capable of filling tankers at a minimum rate of 500 GPM eacoperation; establish water supply connections for incoming a		
3.	Equipment. Wear appropriate PPE for fill site operations		
q. First Du	e Tanker from Water Supply Task Force		
1.	<u>Unit</u> . Support the fire attack by supplying the clappered Si the portable tanks at the direction of the WSGO. Drop off t and appliances as directed; proceed to the fill site.	• • • •	
2.	<u>Crew</u> . Assist the driver with water supply operations.		
r. Second	Due Tanker from Water Supply Task Force		
1.	<u>Unit</u> . Support the fire attack by supplying the clappered Sia the portable tanks at the direction of the WSGO. Drop off t and appliances as directed; proceed to the fill site.	• • • •	
2.	<u>Crew.</u> Assist the driver with water supply operations.		
s. Third D	ue Tanker from Water Supply Task Force		
1.	<u>Unit</u> . Support the fire attack by supplying the clappered Sia the portable tanks at the direction of the WSGO. Drop off th appliances as directed; proceed to the fill site.	• • •	
2.	<u>Crew</u> . Assist the driver with water supply operations.		

Section VII., Structure Fire Assignment.) This Section directs operational activities on the scene of emergency incidents in high rise structures. The standard dispatch is five engines, three aerial units, one rescue squad, one EMS unit, and four Command Officers. At least two Command Officers must respond on the assignment. All personnel must use the procedures below when responding to a high rise structure fire.



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divisio may be adequa	ns/group e useful	ROUPS IN HIGH RISE BUILDING INCIDENTS . In add ps normally used in the MCFRS <i>Incident Command System</i> , a during high rise building incidents. The IC should request a port the suppression/emergency operation, and to cover the r nctions.	the division/groups below additional units to	
a.		ng Access/Use of Knox Box. If a Knox Box is available, un key to open it, remove one set of keys, and re-lock the Knox	-	
		Access keys must not be left in the Knox Box, nor may the H under any circumstances.	Xnox Box be left open	
	2.	One set of keys must remain available for the Lobby Control	l Group.	
	3.	The keys are color coded and labeled:		
		Main Entrance DoorsGreen TagFire Control RoomBlue TagElevator ControlRed TagBoiler/HVAC Control Room Yellow TagOther keys (roof, et. al.)Black-labeled Tag		
۷		The first arriving unit officer must ensure that all keys have the Knox Box at the conclusion of the incident.	been returned to	
b.	as main	ays. Identify, establish, and maintain stairways as safe corrig n evacuation/escape routes and fire attack points. When using consider evacuating the upper floors by a different stairway.	g stairways as fire attack	
1		The first arriving engine company will designate the stairwa and advise the IC .	y to be used for fire attack	
2		The IC should immediately try to identify and communicate evacuation route, and the evacuation shelter location.	both the preferred	

c. **Location Unknown Procedure**. If the location of the fire/emergency is unknown or uncertain, the first arriving engine and special service will use the stairway to check the



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		ding, beginning on the lowest floor and moving upward. PERS EVATORS UNDER THIS CONDITION.	ONNEL MUST NOT USE
d.	eme	vator Procedures. Avoid the use of elevators whenever possible ergency service providers must not ride elevators under actual or sonnel must:	
	1.	Note the location of the nearest stairwell before entering an el	levator;
	2.	Note the location and method of operation of the emergency	stop switch, if available;
	3.	Wear full PPE and SCBAs with the cylinder valve open and regulator in hand for rapid connection;	d face pieces on, with the
	4.	Connect the regulator if the elevator car fails to stop at the n	nidway point; and
	5.	Confine the operation of the elevator to upper floors between two floors below the fire, until the fire is under control and t restriction.	• • • • • • • • • • • • • • • • • • •
e.		vators must not be used in Independent Service mode under fire SCUE PERSONNEL MUST NOT USE ELEVATORS:	conditions. FIRE AND
	1.	If fire, smoke, or heat is detected in the hoist way or elevator elevator machine room;	r shaft or reported in the
	2.	If Fireman's Service is unavailable, or cannot be confirmed a	as operating reliably; or
	3.	On any incident that is located or reported on or below the fif	th floor.
f.	Wh	en Fireman's Service mode is confirmed to be usable, the unit of	fficer must:
	1.	Check the shaft for evidence of fire, smoke, or heat before b	oarding the elevator;
	2.	Ensure the elevator is not overcrowded;	



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	3.	Ensure that at least one crew member has a portable radio at	nd forcible entry tools; and	
	4.	Stop the elevator car at a point midway to test the Fireman's orientation, and re-check the shaft for fire, smoke, or heat.	Service operation, check	
g.		tilation Procedures . The ventilation procedures below apply building incidents:	to personnel during high	
	1.	Immediately ventilate stairwells that are charged with smoke	e, using hatches	
		and bulkhead doors. Initially try to ventilate all stairwells; th stairwells used for occupant evacuation.	en pressurize those	
	2.	Use smoke ejectors, blowers, and positive pressure units to opressurize stairwells. Consider establishing Ventilation Groa separate radio talk group when appropriate.		
	3.	Until specific operational information on the air handling sy the smoke and fire is known, the IC should consider shutting systems to curtail the spread of fire, smoke, and toxic gases When possible, the IC should consult with the building engi- activating, or reactivating any portion of this system.	g down the air handling throughout the building.	
	4.	Notify all Division and Group supervisors before reactivating monitor the air and smoke within the building. Monitor Inter operational areas inside the building for possible carbon more	erior Staging areas or other	
	5.	Recognize that breaking glass to ventilate the upper floors o extremely dangerous, and should be done only as a last reso is given.	2 2	
h.	Lot	by Control Group . At high rise building fires, this Group is a	responsible for:	
	1.	Securing the lobby area, and ensuring that all elevators are r the designated floor; and	eturned to the lobby area or	



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	2.	Acquiring information needed by the IC , including: floor pl evacuation plans; type of occupancy; a list of disabled occup phone numbers, for building engineers and building manage concerning the HVAC, utilities, mechanical rooms, and fire conditions; and items including master keys, window keys, a	pants, their names and ement; information pumps; any unusual	
i.	Inter	rior Staging Group . At all high rise building fires, the IC she	ould establish an	
		or Staging Group two or more floors below the fire floor, but a itions permit.	as close to the fire floor as	
	1.	Identify the Interior Staging Group by its floor location. E.g floor would be known as "Staging 7."	g., staging on the seventh	
	2.	This Group may be divided into two areas one to provide equipment, SCBA re-supply) and the other for personne l	U	
	3.	If an Operations Section is established, the Section Chief ma location.	ay operate from or near this	
	4.	A Stairwell Support company may be established to move reactive the building. One firefighter should be placed at two floor is firefighter should carry equipment not more than two floors will report to the Interior Staging Group Supervisor.	ntervals, and each	
j.		<u>Control Room</u> . The IC may assign an officer to the Fire Corped. Personnel assigned to the Fire Control Room are respo		
	1.	Establishing telephone communications with division/group	os operating in the building;	
	2.	Providing occupants and/or fire and rescue personnel with sevacuating endangered areas via a public address system;	special instructions for	
	3.	Assisting with stairway ventilation and pressurization at the IC/Ventilation Group;	direction of the	



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	4.	Monitoring various annunciator and control panels, and kee	ping the IC informed; and
	5.	Resetting and silencing alarms as directed by the IC.	
k.	First	Due Engine	
	1.	<u>Unit</u> . Initiate water supply by laying a supply line from the beginning a split lay. Position the engine on Side A, reservi aerial unit to position. Connect to the Fire Department Comsprinkler system), if so equipped, on or closest to Side A. If required to position elsewhere, this must be reported immed responding units and Command Officers.	ing adequate space for the nection (standpipe and/or f the first due engine is
	2.	<u>Unit Officer</u>	
		A. Give water supply instructions by radio while en rou	te to the incident location.
		B. On arrival, give reports in accordance with Section 4	I.IV. of this SOP.
		C. Follow the provisions of this SOP regarding IDLH of	operations.
	3.	<u>Crew</u> . Advance a hose line to the fire floor and begin rescu or exposure protection, as appropriate. The driver should pr and/or sprinkler systems.	
	4.	Equipment . Includes SCBA, portable radios, hand lights, t tools, hose lines, and other equipment appropriate for the st operational tactics.	
1.	Secor	nd Due Engine	
	1.		

2. <u>**Crew**</u>. Advance a hose line and back up the first due engine.



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	3.	Equipment . Includes SCBA, portable radios, hand lights, t tools, hose lines, and other equipment appropriate for the st	
		construction and operational tactics.	
j.	Thir	rd Due Engine.	
	1.	<u>Unit.</u> Position as close to the incident as possible without ir incoming units requiring a tactical position. Do not lay any s	1 0
	2.	<u>Crew.</u>	
		A. Report to the IC and advise that you are the RIC ; ur otherwise, and assume the operations of the RIC .	lless specifically ordered
		B. Secure an additional hose line and immediately relie become the RIC . This is usually done face-to-face, be larger scale incidents.	•
		C. Monitor all critical operational talk groups and the F	DTA channel.
		D. Determine the location of the fire and its progression	l.
		E. Observe fire conditions, note attack progress, and de crews working in the building.	termine the location of
		F. Determine the occupancy type and building construct	tion.
		G. Usually, locate on floor below the fire floor.	
	h	Equipment. Includes SCBA, portable radios, hand lights, ther nose lines, and other equipment appropriate for the structure's operational tactics, and any additional equipment specific to the	construction and



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or beginning a space for aerial	water supply by laying a supply line from an unus split-lay to Side C. Position the unit to reserve ad unit positioning. Connect to the Fire Department inkler system), if so equipped, on or closest to Sid	equate Connection
А.	Give water supply instructions by radio while en location.	route to the incident
В.	On arrival, give reports in accordance with Section	on 4.IV.of this SOP.

- 3. <u>**Crew.**</u> Advance a hose line to floor *above* the fire floor or to the exposure most threatened by horizontal extension, and initiate operations.
- 4. **Equipment.** Includes SCBA, portable radios, hand lights, thermal imaging camera, tools, hose lines, and other **equipment** appropriate for the structure's construction and operational tactics.

l. Fifth Due Engine

- 1. <u>Unit.</u> Ensure, and as necessary, expand upon the water supply for the fourth due engine by connecting to the hydrant and improving the intake pressure of the fourth due engine, and/or laying additional supply lines as necessary.
- 2. <u>**Crew.**</u> Go to the lobby and establish the Lobby Control Group. Secure a set of building keys from the Knox Box.
- 4. **Equipment.** Includes SCBA, portable radios, hand lights, thermal imaging camera, tools, hose lines, and other **equipment** appropriate for the structure's construction and operational tactics.



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p. First Due Aerial Unit				
	1.	<u>Unit</u> .	Position on Side A.	
	2.	Crew	<u>:</u>	
		A.	Perform rapid outside horizontal ventilation coordin	ated with the fire attack.
		B.	If necessary, perform initial forcible entry for the fir	st due engine.
C. Provide secondary exit(s) for interior crews with ground and/or aerial ladders on buildings more than one story high.				ound and/or aerial ladders
		D.	After completing the duties outlined above, report to assist the assigned rescue squad with search and resc extension by opening concealed spaces as necessary has been extinguished as needed.	cue. Begin checking for
		E.	Support the fire attack by providing lighting, and per and salvage operations.	rform ventilation, overhaul,
	3.		<u>oment</u> . Includes SCBA, portable radios, hand lights, the equipment appropriate for the structure's construction	
q.	Seco	ond Due	Aerial Unit	
	1.	<u>Unit</u> .	Position on Side C.	
	2.	Crew	<u>.</u>	
		A.	Assist the first due aerial unit with outside horizonta coordinated with, and supports the fire attack plan.	l ventilation that is
		B.	Perform initial forcible entry as necessary for the for	arth due engine.
		C.	Provide secondary exit(s) for interior crews with gro	ound and/or aerial ladders



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		for buildings more than one story high.			
		D. Provide vertical ventilation when ordered or approved by the IC .			
		After completing the duties outlined above, report to the floor above the fire and initiate or assist the assigned rescue squad with search and rescue on that floor. Begin checking for extension by opening concealed spaces as necessary after the bulk of the fire has been extinguished as needed.			
		F. Support the fire attack by providing lighting, and perform ventilation, overhaul, and salvage operations.			
	3.	Equipment . Includes SCBA, portable radios, hand lights, thermal imaging camera, tools, and other equipment appropriate for the structure's construction and operational tactics.			
r.	Thir	Due Aerial Unit			
	1.	<u>Unit</u> . Position to avoid impeding responding or departing apparatus .			
	2.	<u>Crew</u> . Go to top floor (or roof) of the building and immediately ventilate all stairwells charged with smoke. Coordinate all ventilation efforts with the IC or Ventilation Group Supervisor, as appropriate.			
	3.	Equipment. Includes SCBA, portable radios, hand lights, thermal imaging camera, tools, and other equipment appropriate for the structure's construction and operational tactics.			
S.	Resc	Rescue Squad			
	1.	<u>Unit</u> . Position to avoid impeding responding or departing apparatus .			
2. <u>Unit Officer</u> . Report to the IC as soon as the primary and all subsequent secondary searches are completed and utilities are controlled.					
	3.	<u>Crew.</u> Ensure the completion of a systematic search of the building, control the			



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	4.	Equipment. Includes SCBA, portable radios, hand lights, t tools and other equipment appropriate for the structure's co tactics.			
t.	Ambulance or MICU				
	1.	<u>Unit</u> . Position on Side A, assuring that the vehicle can leav necessary. The vehicle does not have to be included in the a			
	2.	Crew. Establish an aid station on Side A.			
	3.	Equipment . Includes portable radios, cot, oxygen equipmen and ALS equipment (ALS Unit only). If the crew is used a personnel must wear full PPE and SCBA , and carry hand 1	as a Standby Team , all		
u.	Firs	First Arriving Command Officer			
	1.	<u>Unit</u> . Normally, position on Side A, allowing space for the rescue squad to implement tactical operations.	engine, aerial unit , and		
	2.	<u>Officer</u> . Establish a Command Post and assume Command accordance with Section 4.VI. of this SOP, and the MCFRS			
	3.	Equipment . Wear appropriate identifier vest, and have impact and SCBA , a portable radio and a hand light.	nediate access to full PPE		
v.	Additional Command Officers				
	1.	<u>Unit.</u> Position vehicles to allow access of responding engin squads.	es, aerial units , and rescue		
	2.	Officer. Report to the IC for assignment.			
	3.	Equipment. Wear appropriate identifier vest and have imm	nediate access to		



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full **PPE** and **SCBA**, a portable radio and a hand light.

X. BASEMENT FIRES IN SINGLE FAMILY, DUPLEX, AND TOWNHOUSE STRUCTURES

- a. Effective size-up and communication at a basement fire are critical to the success of this operation. The location and extent of the fire, the type of building construction, and points of access to the basement must be determined early. If the fire is known to be in the basement, the first arriving engine officer must quickly determine if there is an exterior access to the basement by checking for a basement entrance visually, or based on reports from other **units**. An exterior door most often will be in the rear of the structure.
- b. When attacking a basement fire, the objectives are to protect the primary search, and to keep the fire from extending vertically by containment and extinguishment.
- c. Normally, the first due engine **crew** will stretch the first line to the first floor to contain the fire, and protect the occupants and searching firefighters by closing the basement door and/or using a hose stream aimed at the ceiling over the stairway. **THIS HOSE STREAM MUST NOT BE DIRECTED DOWNWARD INTO THE STAIRWELL**. The officer advancing this line must carefully size up the structure's integrity when determining whether the line should be positioned at the top of the stairs, or from a position closer to the entrance door. The first due **unit officer** must notify the **IC** when this hose line is in place, and confirm that the **crew** is maintaining its position on the first floor.
- d. The **IC** will direct the second or **fourth** due engine **crew** to advance a hose line to the exterior basement doorway for attack. The **IC** will ensure that the engine **crew** with the attack line at the exterior basement entrance does not begin the attack until the first line is confirmed to be in position and ready, and the first due engine **crew** has confirmed that it is not advancing down the basement stairs.
- e. If the first due engine **crew's** position becomes untenable and it cannot hold its position on the first floor, the **crew** must notify Command so that any **crews** operating above it can evacuate before the engine **crew's** withdrawal. The engine **crew** will then take a position outside, normally at the main entrance, and attempt to prevent the



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	fire from extending to the rest of the dwelling from that location can be knocked down. The IC will also consider removing the above the basement once the primary search is completed, ev- is not under control. The first arriving engine officer and/or the taking this position initially (and delaying the primary search) of involved basements, especially in dwellings of lightweight cons	crews from positions yen if the basement fire e IC will also consider luring fires in heavily			
f.	f. Basement fires sometimes must be extinguished with the first attack line advanced down the interior stairs, if an exterior entrance into the basement is not accessible, or if there is no exterior entrance at all. The first due engine officer must first determine if it is safe to descend the basement stairs for a direct attack on the fire by evaluating the structure's stability, the life hazard, and the fire and heat conditions at the top of the stairs. If attack will begin through the interior basement stairs, the officer will transmit this information to the IC , who will then ensure that no other hose lines are advanced through, or operated into, any exterior basement openings from opposing positions.				
g.	If the interior basement stairs cannot be used for an attack, an basement entrance, the IC will direct crews to other available				
Sec.	 Implementation and Enforcement. The Fire Chief is the im enforcement authority for all policies and regulations of the M Fire and Rescue Service. 	•			
Sec.6	6. Effective Date. This policy is effective on December 1, 2005				
Appro	oved:				
	has W. Carr, Jr., Chief Date Date gomery County Fire and Rescue Service				

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