Westbury Fire Department Hose Company # 2

Training Drill – January 16, 2020

I. **Topic 1 – <u>Strategies & Tactical Considerations @ Restaurant Fires</u> – (1.5 Hrs interactive ppt) Objectives:**

- Review of Incident Priorities at Structure Fires
- Review the Reading a Structure/Assessment of a Buildings Hazards
- Review an Effective Initial Arrival reports painting the picture of the scene for later arriving
- Review components of an Effective Size Up
 - Practical application of physically doing All Components on actual past fire scenario
- Review Setting an Action Plan from your size up information
- Review Priorities of the 1st Arriving Engine Company
- Review Priorities of the 1st Arriving Ladder Company
- Review priorities of the 2nd Arriving Engine Company
- Review how fulfilling the priorities of first 3 companies will make or break a fire incident
- Review of Offense, Defense and Transitional Operations
- Review of use of Urgent messages on the Fire ground
- Review of Personal Accountability and a Officers PAR Reports
- Review of Scene Safety in Master Stream operations
- Review of a Collapse Zones
- Review of having a Command structure with effective fire ground communications

II. Topic 2 - BlowHard BH-20 PPV Fan - (10 Min. – Video – 20 Min. Hands on)

Objectives:

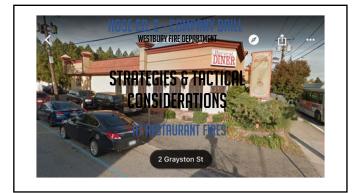
- Review its storage on the Rigs
- Review putting into operations via stored battery power
- Review putting into operations via electrical power
- Review Positive and Negative pressure ventilation

III. Topic 3 - MSA Thermal Image Camera – (10 Min. Overview – 20 Min. Hands on)

Objectives:

- Review the Features of the MSA 7200
- Review the TIC Use
- Review TIC Maintenance and Stowing on Rig

Lead Instructor: Ex-Captain D. Iglesias











Painting The Picture – Scene Overview (Side 2) Again Overhead Wires Again 1 story – wonder how high is that front parapet over roof line Plenty natural ventilation front – gets less as we get to rear (2/3 corner) maybe goes from customers area to an employee/service area (reading building?) Weight of those ceramic roof tiles over windows Again Large Ornamental decorating – how top heavy

Painting The Picture – Scene Overview (Side 3)



- Better assessment of the height of the parapet & see how top-heavy ornamental items are (why seeing all 4 side is very important) (? is parapet backed braced into roof that's now on fire)
 Windows in rear have steel window bars = a concern!
 Less Ventilation Points (typical for commercials due to security concerns less visible to traffic)
 Appears to be multiple additions bunch of different elevations (a danger for the "roof position")
 Multiple fan vents on the roof are we really going to see these at Night?
 Bilco door (for people, deliveries or both)

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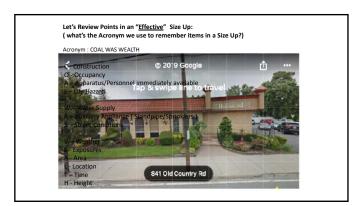


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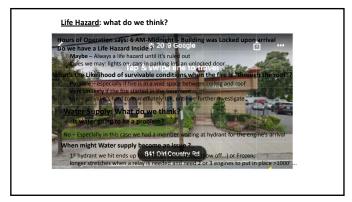
















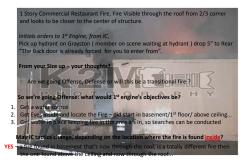


Time:



19

Plugging our Size Up info into a plan of attack our "Action Plan"



20

Plugging our Size Up info into a plan of attack our Action Plan

1 Story Commercial Restaurant Fire, Fire Visible through the roof from 2/3 corner Looks to be in the center of structure. From this Photo – is the Fire "through the roof" or "in the vents system exiting the roof via the vents" – thoughts?

- WE HAVE A STUCTURE FIRE How can we tell? Width of the visible fire from vents it would maintain width of vent for a
- it would maintain width of vent for a period at least until it ultimately involves the structure

 Distance smoke off celling Thermal Plain good 4' off the celling if the fire's only in Ducts should have little smoke most smoke exiting via ducts for the volume it can handle.

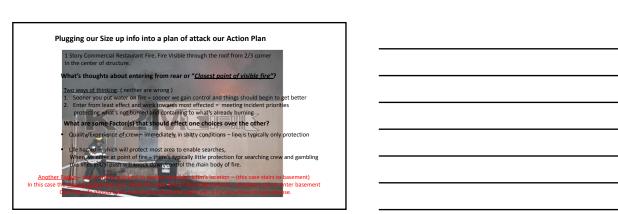
 Accord fuel. 8. Employer of the company of the celling if th
- Area of Heat & Smoke thermal plain already
 hot enough to break windows outside fire area (remember this is an addition to building different roof line)
 You have High Heat and a Large volume of fire inside this structure and it's below ceiling line

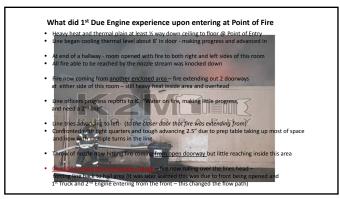


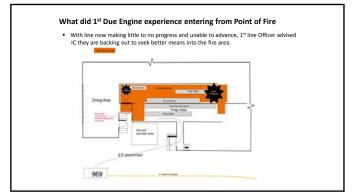
Plugging our Size Up info into a plan of attack our Action Plan We spoke earlier about our #1 objective being protection of life. In this "dosed building" — where in this building would one expect Occupancy — Sleeping or Office Area, outside kitchen area? If started in Kitchen area — the cook probably started fire and self extricated — unless a catastrophic event occurred like an explosion. • Could you have people in this building with NO Clue there is a fire occurring (No AFA) or are unable to escape outside? If so where may that be?? • What would be the quickest way to access conditions in basement? Taking the Basement Window Some time basement Window Some time basement windows are 2 or 3 panes of glass, take one, move curtain (if one) and look inside • If conditions are clear — or even a haze, could we have Survivable Victims down there? What would be the quickest and safest means to get to these potential victims? Through the Bilco Door, going directly into the basement from the outside and not having to go through the insidefire conditions. (entering below the fire)

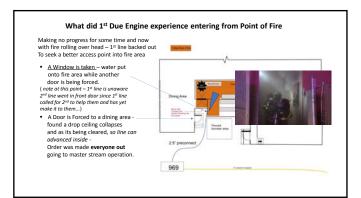
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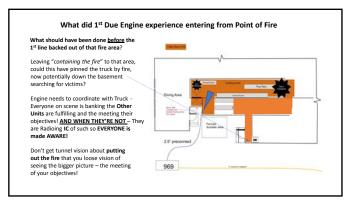
Plugging our Size Up info into a plan of attack our Action Plan We spoke earlier about #1 objective being protection of life. In this closed building – where in this building would one expect Occupancy You've taken the window to the basement and found heavy dark smoke pushing from that single pane we've taken, what is this Telling you? The Likely hood of survival victims is slim (with a fire burning long enough to have started in the basement to now burned through the roof) only life hazard is us and the decisions we make or are made for us... You're the OV and found this heavy smoke pushing from basement (Fire is learned in the Basement) – knowing what you know to this point – what do you immediately need to do? * Notify Command. of your findings – Possibly via an URGENT MESSAGE; ("when a fire is found or has extended to an area unknown to command" = Urgent Message") Besides Alerting (C, you'll also be alerting that 1st line and whoever else is operating on the 1st floor, now operating above the fire, Should this change the IC's already implemented Tactics? YES















Plugging our Size up info into a plan of attack our Action Plan

With Crews entering from the rear – From our size up info, what learned factor becomes a concern for personnel safety?

Could the crew on that first line or 1st truck bail out a rear window if they had to?

If your OV and see this, what do you need To do?

- Report such OVER THE RADIO to IC:

 1. Alerts those operating inside as well

 2. Gets IC to assign or assist you in removing



31

With 1st Engine – committed in Rear (1) 200' 2.5" with objective: get water on fire ally primary entry is the front door, this case it was rear, what changes for 1st truck?

othing except OV instead of going to rear goes to front, ahead of the 1st line,

of still goes to the Roof

try team doing searches, protected by 1st hoseline, so entering from their entry point,

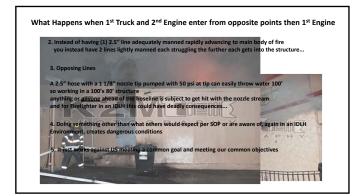
try should Not be entering a head of the line, unknow, to the 1st engine age. Their objective is to support 1st lines and get primary water on the fire achieved, then pull heir own line to support in that way.

32

Westbury FD Primary Objectives don't change if the Action plan is an Offensive Attack







Due to the lack of progress from the 2-operating handline inside (approx. 500 GPM on a fire at 50% involvement needing about 400-500 GPM) and determining there was no life hazards outside the e.

IC should call an URGENT message—so all operating personnel listen up and take note with IC Stating "discontinuing interior attack to exit the structure"

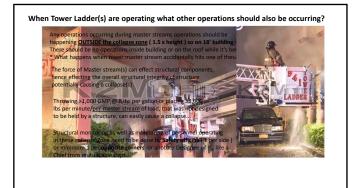
A change from Interior to Exterior operation should always be prompted by an URGENT Message.

All personnel operating inside structure shall exit in orderly fashion, Engine Co securing the Fire and only exiting after truck Co's are clear.

Once outside Each member shall report to their officer so each officer can report PAR to Command

Only after IC has PAR from every operating unit, shall the Defensive Operation Ommence, especially the taking of window, excelling the fire growth!





What are some other concerns with these type fires:

Linified Command with Good Communication — 1 Boss with 1 Objective that everyone is aware of
Units utiliting their objective(s) — once completed getting a new assignment from command, that meets action plan
t deas are not transmitted over ratio — (creates confusion) — meet faces to face with command to discuss
All actions coordinated by command — so IC knows who's doing what and from where — no freelancing
making the scene a free for all with each officer fulfilling what they believe to be right.

Water

I Mutual Aid Dept — issue with thread difference — one side of OCR to the Other (Different Water District)
Dept's potentially effecting, should be made aware of this – prior to any incident
Engines Feeding a Tower Ladden — Nor giving more water then engine is taking in, supplement intake

Leadership maintaining a Span of Control
Long incidents it's tough for rigiposses to maintain a span of control of their original personnel,
since ever FF will have different physical limitations.

Members is olidin't be jumping all over — again all assignment should be coordinated via IC
and a leader monitoring the personnel assigned to them for their assignment = accountability

Set the bigger nature — Fire with the only life hazards being the decisions you make, or ones made for you.

Red Les Mary and Choice, so everyone goes home the way they arrived — remember we didn't dark the fire



BlowHard	BH-20	Ventilation	Fan
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Overview of Fan

- <u>Dimensions</u>: 24" h x 24" w x 10" d (*closed*)
- Weight: 50lbs with Battery (40lbs w/o)
- Battery: Li-ION 20-80 Min. (Faster fan < time of battery use) Battery is @ 80% charge plugged in 60 Min.
- Power: 110 VAC 8 AMP (regular house plug)
- <u>Setback</u>: 6 18 Feet
- <u>Tilt</u>: Adjustable angle
- <u>Capacity</u>: 10,200 CFM
- <u>Fan Speed</u>: 0-3,900 RPM Soft Start - Variable Speed



BH-20

2

Overview of Fan

- Shoulder strap for Carrying
- Extension Cord for prolonged use (Attached to Fan in Rig)





Fans Storage on Rig

Fan is secured in rig by a strap – buckle lock At face of the fan



Note:
If fan was <u>NOT</u> Plugged in make sure you have the extension cord with you,
Battery could give you limited Time of Use



4

Putting Fan into Operation

When you pull from rig, it should come off rig in **nice neat package**.

The <u>Extension Cord</u> attached to frame of fan – so its not left behind

The <u>Carrying Shoulder Strap</u> also attached to the fan

These item may need to be removed Before the fan is put into operation — **but** Should **ALWAYS** be put back to Fan before Stowed back in the rig for its next use.



5

Putting Fan into Operation

After carrying to location of use:

Place Fan on ground 6-18' from opening -The bigger the opening the further the distance needed (standard door – typically 6-8' required)

For <u>Positive Pressure</u> (fan blowing in) The carry handles should be facing out

For <u>Negative Pressure</u> (fan sucking outwards)
The Carry handles should be facing in towards opening



Putting Fan into Operation

To open the fan and set the desired angle:

Looking down at the fan –at the handle side at the right handle - on the fan itself there is A locking leaver

This <u>Locking Leaver</u> need to be pushed towards the fan (inwards) and the fan head will unlock and be able to move and put to the desired angle, once released it will lock into that position

Position can be re-adjusted by again pushing leaver inwards



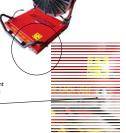
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Putting Fan into Operation

Once Fan is opened – (in the same position the Locking Leaver was before it was opened) You'll see a knob

This knob is the $\underline{\mathit{OFF/ON}}$ switch and fan speed control

Turning Knob to right will turn the fan ON (you'll get a green light showing fan is active) and the more you turn to right the FASTER the fan speed > CFM air movement.



8

Putting Fan into Operation

Once Fan is operation – You'll want to test the air flow assuring the flow is covering the opening.

Adjustments can be made by increasing/decreasing **Distance**For the **Width**Or

Or Angle of Fan head For Height



Putting Fan into Operation

Running the Fan on Battery Power – At Fan Max = 20-30 mins operation < fan speed > run time

When exceed capacity of battery – The fan will need to be plugged into 110 power To continue operating (same plug that was used when you stored Fan on rig and plug it)



10

Putting Fan back in service After Use

Reverse the process: Turn Fan off

- Secure extension cord
- Assure Shoulder straps back on fan
 Fold back to Home position
- Carry back to rig

- Back At Rig:
 Put in position and secure with strap
 Plug fan back into plug

Recharging:
• After about 60 Min on charge the Battery will be at about 80% capacity.



11

Questions



MSA Evolution 6000+ Thermal Imaging Camera (TIC)



13

Camera Features/Use

Switching ON and OFF

- Switching ON in normal mode,
 Press green ON/OFF button for approx. 1 second.
 (Within 5 seconds, the TIC carries out a self-test of the sensor electronics).

Status LEDs under display illuminate according to battery status "Battery Status Indicator

 Check camera function: Direct the camera toward an object or person until the thermal image shows on the display. The camera is now ready for use.

- <u>Switching OFF</u>
 Keep ON/OFF button pressed for approx. 3 seconds until all LED indicators switch off.
- Release the ON/OFF button as soon as all LED indicators switch off. The camera is switched OFF.



14

Camera Features/Use

Switching ON and OFF

- 2 Yellow = Battery 25-50% 1 Red = Battery 25-0% capacity



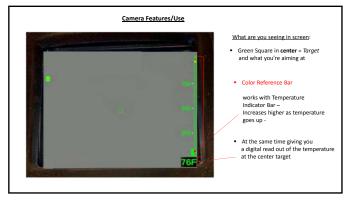
Change Battery with Spare in the Charging Unit before Using Inside – in Fire conditions

- <u>Changing Battery</u>
 Open Latch on Bottom Remove old Battery
- Insert New Battery (fits 1 way like old MSA Cameras)

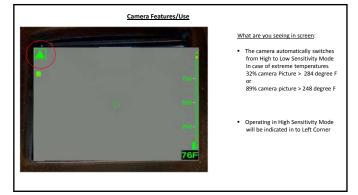




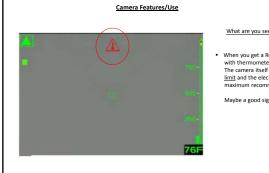








High Sensitivity Mode	
When Temperatures are	Objects:
pelow 291 °F (144 °C)	Are shown as standard gray scale images
petween 291 °F (144 °C) and 302 °F (150 °C)	Turn yellow, starting with light
	shades changing to darker shades
netween 302 °F (150 °C) and 311 °F (155 °C)	Turn orange, starting with light
	shades changing to darker shades
over 311°F (155 °C)	Turn red, starting with light shades
· ,	
In Low Sensitivity Mode	Turn red , starting with light shades changing to darker shades
In Low Sensitivity Mode When Temperatures are:	Turn red, starting with light shades changing to darker shades Objects:
In Low Sensitivity Mode	Turn red, starting with light shades changing to darker shades Objects:
In Low Sensitivity Mode When Temperatures are: between 1000 °F (540 °C) and 1047 °F (564 °	Turn red, starting with light shades changing to darker shades Objects: Turn yellow, starting with light shades changing to darker shades
In Low Sensitivity Mode When Temperatures are:	Turn red, starting with light shades changing to darker shades Objects: Turn yellow, starting with light shades changing to darker shades
In Low Sensitivity Mode When Temperatures are: between 1000 °F (540 °C) and 1047 °F (564 °	Turn red, starting with light shades changing to darker shades Objects: C Turn yellow, starting with light shades changing to darker shades C Turn orange, starting with light turn orange, starting with light



What are you seeing in screen:

When you get a Red triangle with with thermometer in it - flashing = The camera itself is at it's <u>overheat</u> <u>limit</u> and the electronics are approaching maximum recommended temperature.

Maybe a good sign that <u>YOU ARE TOO</u>?

20

Camera Features/Use

Trigger on the Handle of Camera:

- This has 3 functions:
- Squeezing trigger A Laser pointer will be displayed at your target points.

This can be useful for an Officer to direct attention to a specific point:

Nozzle cool this point, Truck open here....



Trigger on the Handle of Camera:

- · This has 3 functions:
- 2. Letting go of trigger the distance you are from aim/Laser point will display on screen.

Range <15' (will display when if less then 15') to approx. 210' Maximum distance

"RE-MEASURE" will display – if valid reading can't be displayed

- Could be used to help determine Hose length to front door –

- Read a building in your <u>size up.</u> (Scan Building)

 Will help determine the side with most heat

 Squeeze and release tripper
 then look a screen see how far away you are from building appropriate hose stretch needed

22



Trigger on the Handle of Camera:

- This has 3 functions:
- 3. Help to Gain your bearings (Compass)

You can see Camera is displaying Direction that you are aiming camera – Here NORTH

If the front of the location that you entered was facing South – What exposure are you looking at?

1

2

3

Note: Trigger Feature only works once camera warms up and camera has a GPS signal – (Can take Time)

23





