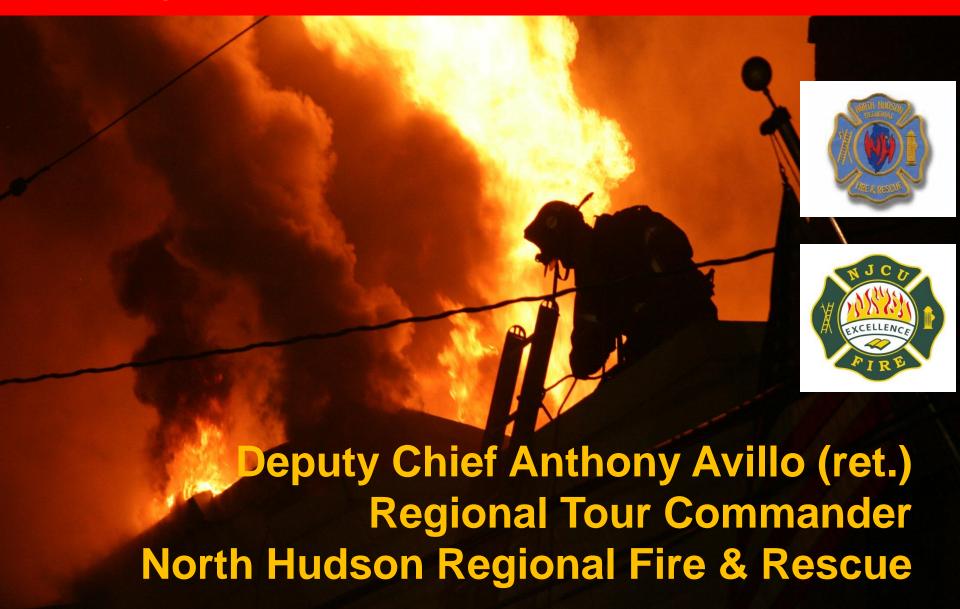
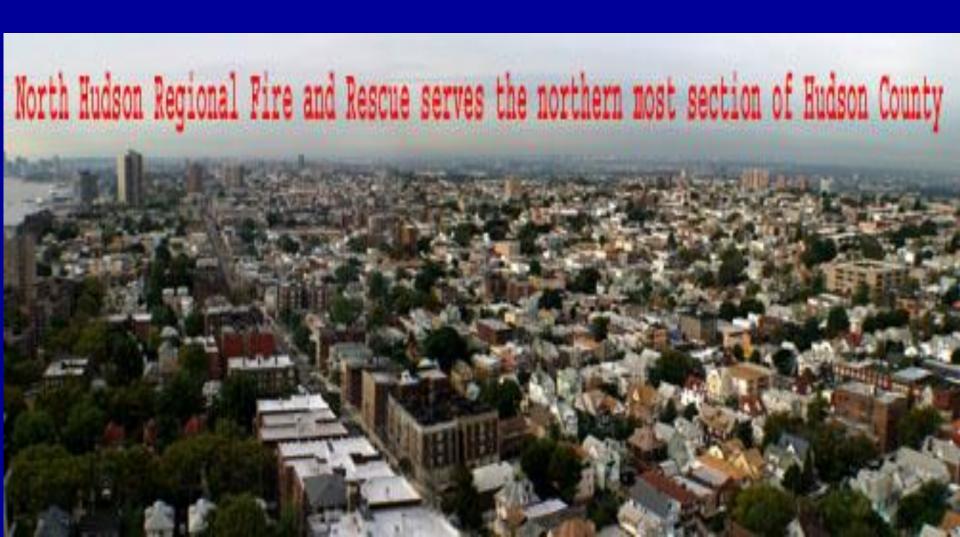
Fireground Strategies: Control of the Hard Environment



NHRFR est. 1999







Your Plan



Must meet 3 primary objectives of the IC:

- 1. Get 'em in safe
- 2. Work 'em safe
- 3. Get 'em out safe

Accountability is based on all Officers doing their job all the time

The hardest work is done before you arrive

95% to 5%



Hard Environment vs. Soft Environment

Actions in the 95% dictate actions in the 5%

"Flip the Switch" mentality a myth

Not addressing this





Supervision

1

- You ARE Responsible
- You WILL be Held Accountable
- You MAY Be Unpopular
- You MUST be Satisfied





PPE Policy Enforcement

video

Н

B A

S I C Waist Straps

- Wear your Hood
- Chin Strap belongs <u>Under</u> Your Chin
- Wear the proper gloves!!



If you are not doing this right what else are you doing wrong?



This is NOT setting the example

DON'T
SUCK AT
BEING SAFE







Dangerous Tools:

As soon as you go from comfortable to cocky, trouble starts: John Prachar

Supervision



- The Dichotomy of Comfort
 - Acceptable vs. Unacceptable Discomfort

- The ultimate measure of an individual is not where he stands in moments of comfort, but where he stands at times of challenge and controversy
- ---MLK

The Dichotomy of Comfort



- Acceptable vs. Unacceptable Discomfort
 - Do you have the right to be comfortable?
 - What should your level of comfort be?
 - What makes your superior and the organization uncomfortable better make you uncomfortable
 - Don't let your superior be uncomfortable for you

CONFRONT THE UNCOMFORTABLE

Supervision



- "It's OK"
- "Don't Worry About it"
- "It's no big deal"

How many officers have regretted saying those words?

Unintended Consequences

Failure of Imagination



Supervision

- Everything is not always OK never dismiss an opportunity to fix yourself and your people
- The opportunity you miss (or ignore) on this alarm might be disastrous on the next
- Do not be afraid to address unacceptable performance – that is you job
- Keep it constructive, but make sure the issue is addressed and an understanding (and expectation) is agreed upon



George Washington vs. George Wishy-Washington

UNDERSTAND THIS: YOU OWN EVERYTHING









Be a Boss!!



I can be your friend and I can be your Boss. If I can only choose one, I have to be your Boss.

--BC Frank Vasta NHRFR (ret.)

Be a Boss!!



A friend may get you killed. A Boss will get you home.

--BC Steve Quidor NHRFR (ret.)

Hurt Feelings Report and UNFAIR TREATMENT REPORT DATA REQUIRED TO SUBMIT	
PART 1 - ADMINISTRATIVE DATA	
A. Whiners avatar name (Last, First, Middle)	B. Date of report
8 2 3 2	8
C.Society (if applicable)	D. Society rank
Part I - INCIDENT REPORT	
A. Date feelings were hurt or unfair treatment	B. Time of hurtfulness or unfair treatment
C. Location where hurtful incidentor unfair treatment occurred	
D. Avatars sympathetic to Whiner	
E. Name of company who hurt your feelings (MA/FPC/EF)	
PART III - INJURY (mark all that apply)	
A. Which eye read the words of hurtfulness/unfairness?	B. Is there permanent feeling damage?
☐ Left ☐ Right ☐ Both	☐ Yes ☐ No ☐ Maybe
C. Did you require a tissue for tears? Ves	D. Has this resulted in a traumatic brain injury? [Yes
PART IV REASON FOR FILING THIS REPORT (mark all that apply)	
[I am thin skinned	MA/FPC/EF needs to fix my problems
Two Beers are not enough	T I am a wimp
My feelings are easily hurt	It is unfair to me
T I didn't sign up for this	loot is bad
☐ Lam a crybaby	T I am going to quit if this is not fixed
There are not enough items in loot	Titems in loot suck need better items
My Commodore 64 can't play VU10	☐ I want my mommy
MY CGA monitor displays all black	The weather makes me cold
□ I am scared of the dark	My Beer Is warm
The ubers get all the good loot	Noobles get all the good loot
Sweat prices are too low	Someone laughed at me in chat
☐ All of the above	Other - submit form Mercury Meltdown
PART V NARRATIVE Tell in your own words how your sensitive feelings were hurt or how you were treated unfairly	

Your People



- Want to know when they are doing a good job
- They also know when they are not
- If you don't say anything, they will think you don't care!
- Discipline will erode further
- Do not widen the gap between acceptable and unacceptable discomfort – tougher to get back



BOTTOM LINE

You have to give a

Orders



• What's an order????

How is it given?

How do they know?

Where do you begin?

1

- Begins with expectations / supervision
- Continues on the fireground when Nothing is Showing
 - If you allow a breakdown in discipline when there is nothing showing, forget about operational discipline when it is hitting the fan

All Business



- Little things done right in investigation mode pay BIG dividends when something is showing
 - Apparatus positioning
 - SOP adherence
 - PPE
 - Communications

Dress Rehearsal mentality

Response



Proceed with Caution

Slow the Companies down

- Are these phrases used?
- What do they mean?

Command Post Positioning





- Consider escalation
- Consider elementsbldg hijhack
- CP as a manifold
- Proximity to Rehab
 Keep the Kittens
 in the Box

Where is your Command Post?







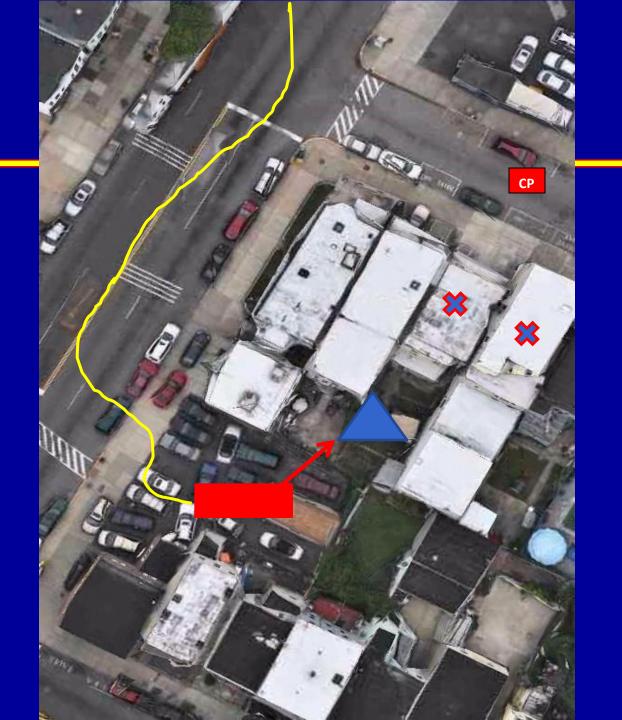


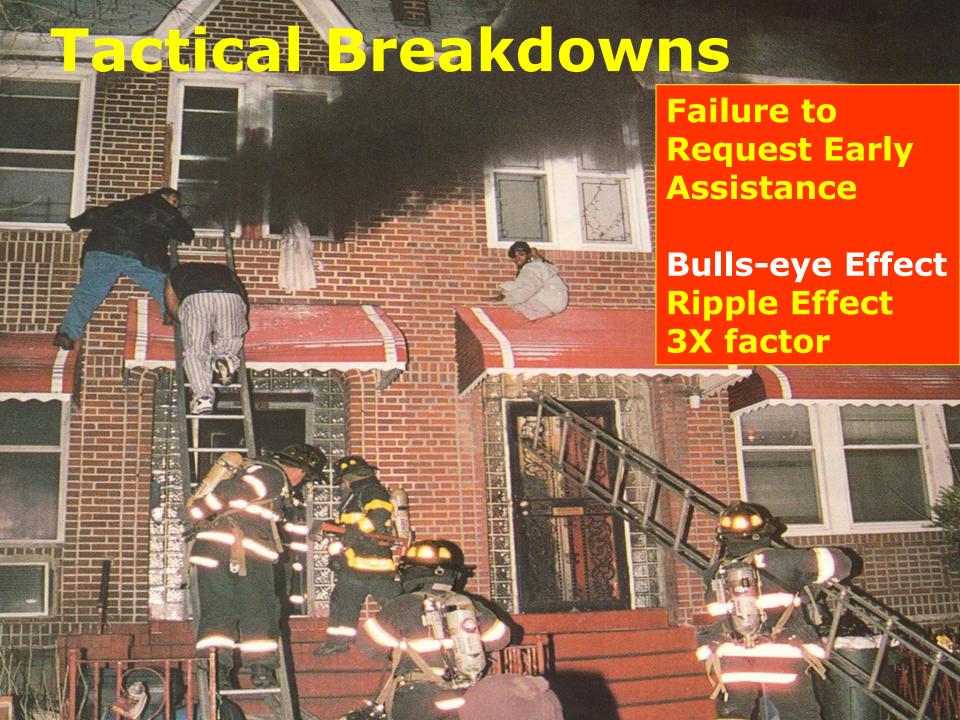
Intelligence and Technology

- Modern Tools of Command
 - Toughbook
 - Cell Phone
 - Google Earth
 - Google Maps
 - Drones









Additional Alarm Rule of Thumb



- If the incident is still escalating and you do not have at least 3 companies in reserve, order an additional alarm
 - Relief / Reinforcement
 - Unplanned for problems
 - Hydraulic Reserve

Incident Command 41

Resources



Better to be looking at them than looking for them

-- Tommy Gavin

Controlling Rehab is essential to controlling the fireground

FF Rehab



Rehab Guidelines



- Rehab does not mean go and get lost
- Rest the company and get back to the CP
- Minimum 15 minute rest period after 2 cylinder uses
- If you are closing in on ½ hour at rehab, you are there too long – we need you back to CP
 - We shouldn't have to call you





The Best
 Accountability
 System is a
 Strong
 Command
 Structure

Freelancing

- M
- Is it an accepted evil as a part of your fireground?
- How do you prevent it?

UNITED FRONT

Task Assignment Model (Decentralized Command Ops)



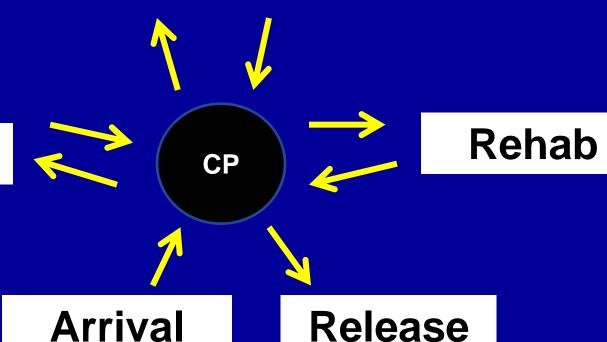
- 1. Stay Together as a Unit
- 2. Report to C.P. for Assignment
- 3. Report to Assigned Operational Area
 - Report Progress to Division Supervisor
- 4. Operate in Assigned Division ONLY
- 5. When Relieved, Report Back to C.P. for Re-assignment or Rehab
- 6. If Re-assigned, Go Back to Step #3
- 7. When Rehab is Complete, Go to Step #2

The Accountability Model



Operating

Staged



Accountability and the Command Board



- Company Officer roles:
 - Get and Follow orders
 - Ensure company integrity
 - Keep Command informed of status
 - Operating
 - Rehab
 - Staged

No Independent Action ... EVER!!!



ALL

Assignments Begin and End at the Command Post

Accountability



Whatever you think is the right thing to do is the WRONG thing if it does not go through the COMMAND POST

Decentralization

Breaks the fireground into manageable portions



- Assigns responsibility to major operational areas
- Provides greater accountability
- Decreases span of control
- Reduces radio traffic
- Breaks up the opinion brigade

CASE STUDY

- Roc Harbor Complex
- North Bergen NJ
- Lightweight wood frame
- No sprinklers
- Rear of buildings front on access road
- Entrances in "Horseshoe"







Decentralization & Progress Reports











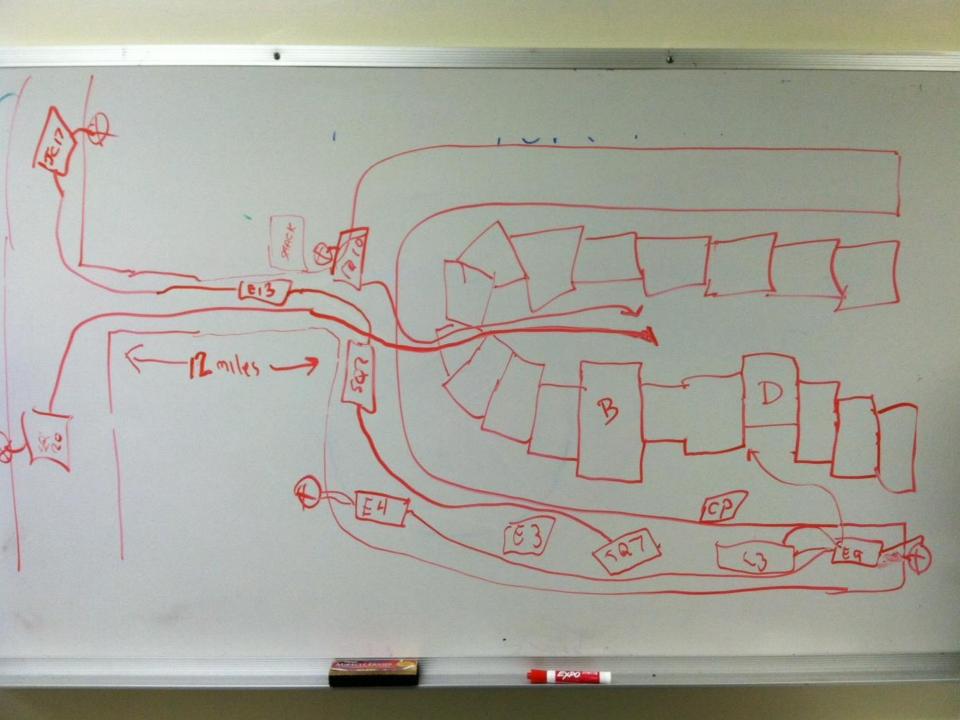


Lessons Learned / Reinforced



- Water Supply
 - 1st hydrant dead
- Hydraulic Reserve
 - 5 water supplies
 - Water Supply Officer
 - Personnel intensive LDH
- Manifolds and Deck Guns
 - If you can go big















Accountability



Division Supervisors set up early Provide REAL Accountability

- Account for:
 - Who is in Division (Div. PAR)
 - Where they should be
 - What they are doing
 - When they should come out

DECENTRALIZATION

Command Limitations



- Virtually ALL Command problems come from areas he/she can't see
 - Rear
 - Roof
 - Shafts

BE NOSY!!!!!!

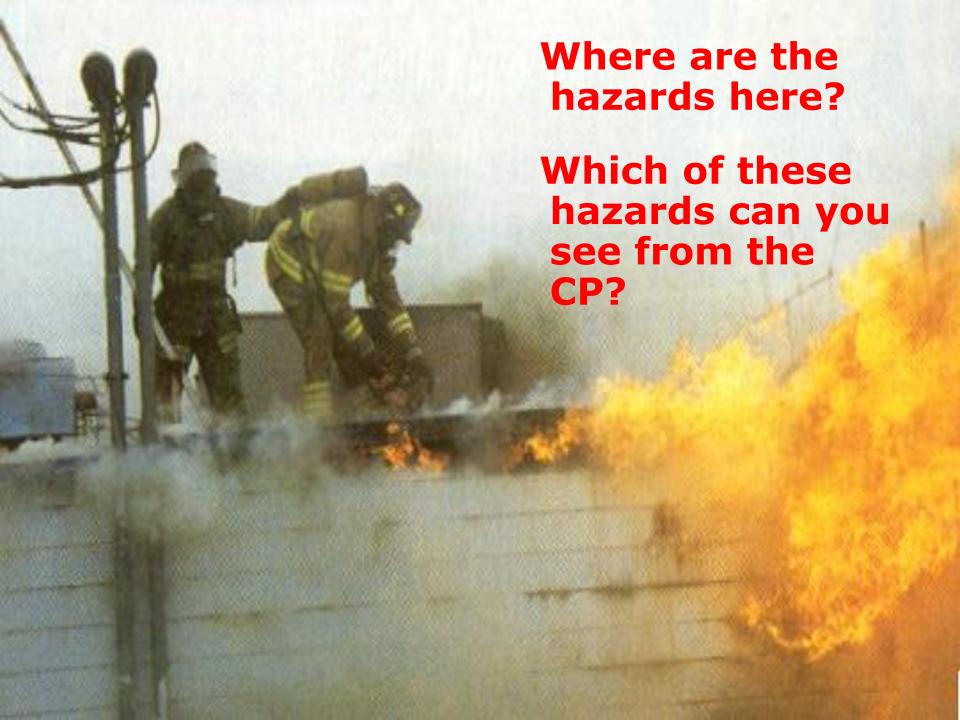
- Interior
- Exposures

TIMELY PROGRESS REPORTS FROM ALL AREAS HELP DEFEAT THIS HANDICAP





 Will someone tell you about this condition while you still can do something about it?















Interior vs. Exterior Perspective

Strategy Modification

- Cues to consider:
 - Discovery / presence of lightweight construction – check involvement!!
 - Failure to locate seat of fire in timely manner
 - Evidence of smoke conditions worsening even though water is being applied
 - Forcible entry difficulty
 - Ventilation difficulty
 - Water supply problems

Guard dog barriers







Strategy Modification

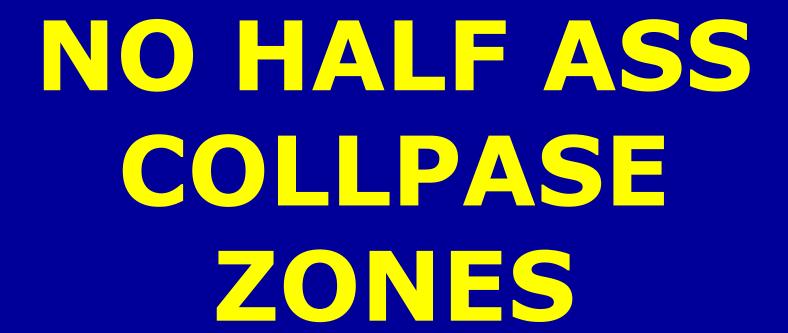


- Cues to consider:
- Indicators of flashover / structural compromise
 - Operations that "eat up" personnel (tough rescue)
 - Fires in attached buildings w/ any of above concerns
 - Fireground experience or gut feelings

More critical during offensive ops because personnel are inside building



Defensive Ops Control





Tactical Breakdown



- Arrival and Operations
- Failure to Recognize / Respect the Presence of Truss / Lightweight Construction

Lightweight Structures

M

- How do you tell?
- No roof ops except from independent support
- Cautious attack from protected area
- Careful assessment of voids

DON'T TRUST THE TRUSS

LIGHTWEIGHT BUILDING INDUSTRY AND POLITICIANS:

TRYING TO KILL FIREFIGHTERS ONE PIECE OF CRAP BUILDING AT A TIME



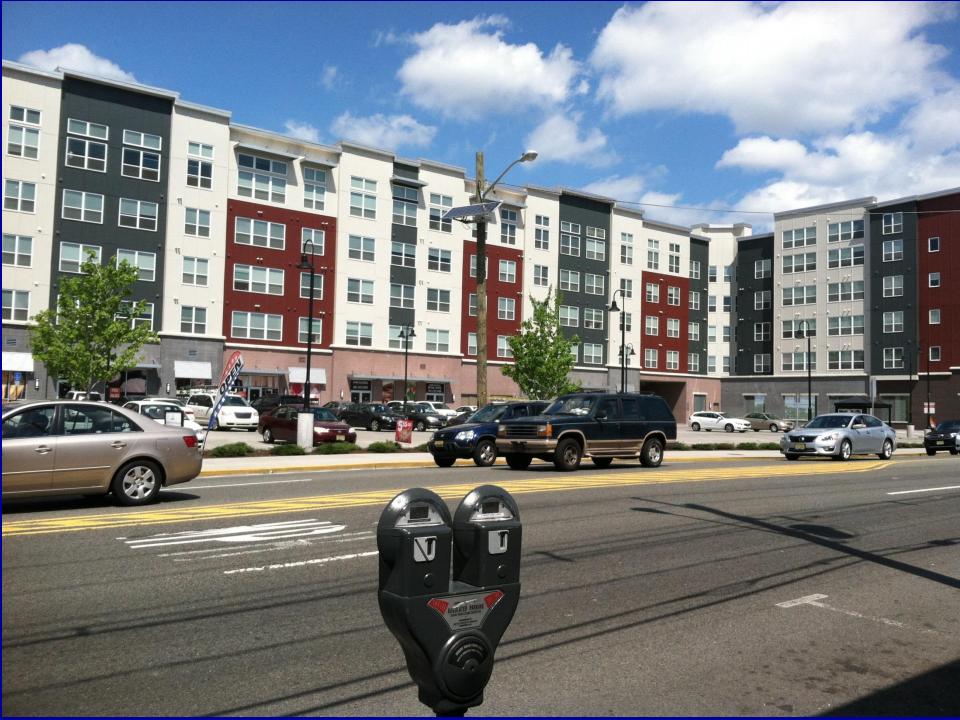






Is Lightweight Construction present? (Recognition) No **Yes** Involved or **Operate in safe manner** threatened? consistent with building construction and structural conditions Yes No 1. Withdraw from area or 1. Increase building **Supervision** 2. Prepare for collapse 2. Operate cautiously 3. Consider "stop" point 3. Continue to based on fire extent monitor voids and building layout 4. Reinforce operation









Firefighters narrowly escape collapse

Firefighters in Edgewater evacuated a burning structure just moments before there was I total failure of lightweight truss construction, sending a large portion of the second floor into the first, adverting what could have been a tragedy on April 29, 2010.

Shortly after midnight, Edgewater firefighters were dispatched to 880 River Road for a

report of a fire. A heavy smoke condition in a two story approximately 65x125 row of Jump to FILE stores was visible 04291011



on arrival. The smoke appeared to be coming from between the two floors in an area of



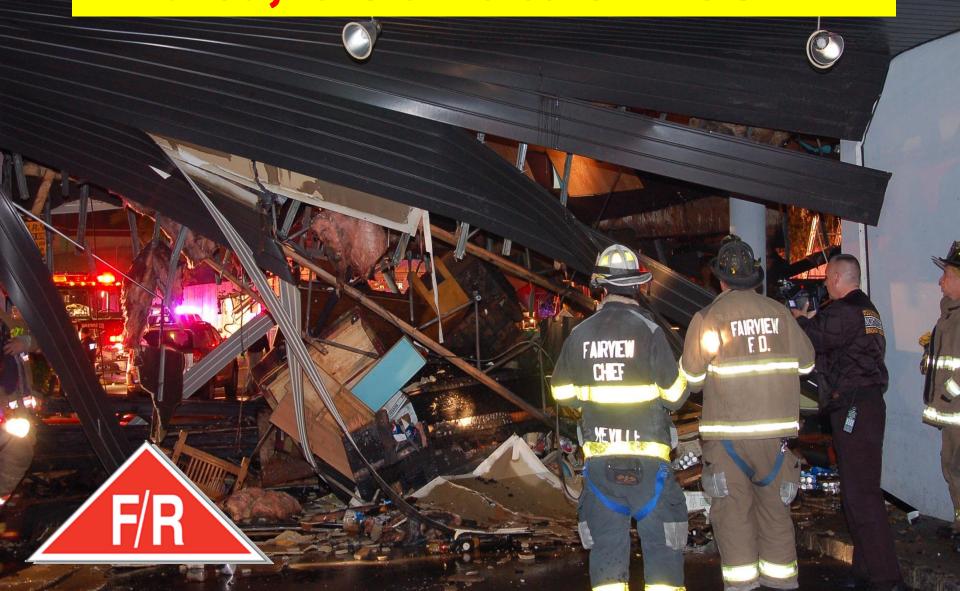
the building that had a passway from front to back on the first floor and part of a Karaoke bar on the second.

A line was stretched to the second floor as the front of the structure was opened up. Flames were soon venting out of the openings made between the two floors

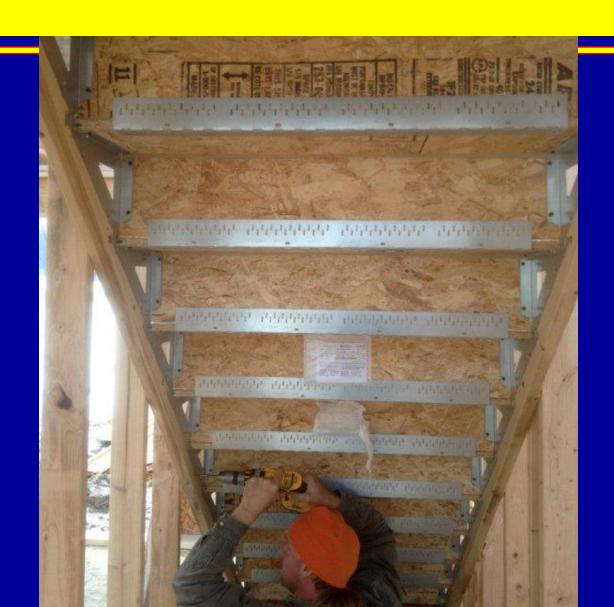
Without warning, conditions rapidly deteriorated and all mem- LICE bers were ordered to evacuate the building. Firefighters quickly left the building, by both the interior stairs and bailing out the windows to ladders outside. The hoseline and some equipment had to be left inside.



Once fire has entered the truss area, it is time to GET OUT!



I- Stairs



THE UL / NIST STUDY



- Strict control over Attack / Ventilation Coordination
- Based on new fire loads and how they behave in modern buildings
 - Legacy contents: 8.5 minutes to flashover AFTER ventilation
- Modern Contents: 2 minutes to flashover
 AFTER ventilation



This ain't your Daddy's fire

THE UL / NIST STUDY

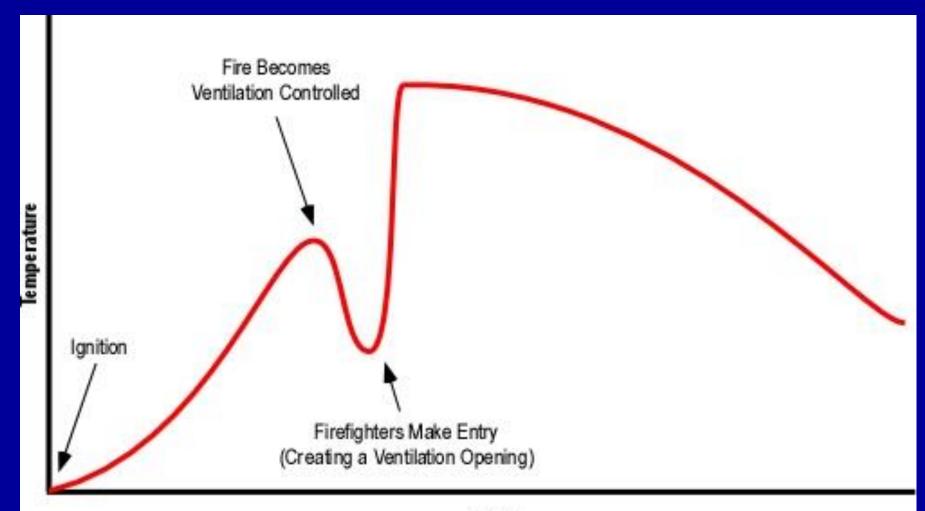


- Starve the fire until attack is ready water in line at fire area
- Control the flow paths



- KEEP THE BEAST IN THE CAGE
- ANY building openings without water application spikes temperatures
- Air introduced by openings (doors and windows) feeds fire. No H2O = bigger fire
- EVERYONE MUST REVIEW THIS STUDY

TIME TEMPERATURE CURVE



Time

Vent to Untenability

M

- 1 story
 - 100 seconds
- 2 story
 - 200 seconds

 Flashover generally occurs less than 10 seconds later



Incident Command 106



THE UL / NIST STUDY GUIDELINES



- A FF without a hoseline DOES NOT belong in any flow path under any circumstances
- All openings in the building must be controlled until water is flowing on the fire
- Attack doorway should be controlled until water is at a place where it can be applied to the burning material
 - Door control assignment

THE UL / NIST STUDY GUIDELINES



- Don't be between the fire and where it wants to go
- No venting OF ANY KIND without water on fire
 - Control all openings
 - Door control
 - VEIS close the door immedately
 - Use the reach of the stream
 - KEEP THE BEAST IN THE CAGE

THE UL / NIST STUDY GUIDELINES



- Both horizontal and vertical ventilation should be conducted only after water is being applied to the fire
- VEIS firefighters must get in and get to the door to the room and close it as a first action

THE UL / NIST STUDY GUIDELINES



- Do not rule out the Mini-Blitz
- Think cooling: Putting water on the fire NEVER made the situation worse
- Don't trust the modern fire environment
- KEEP THE BEAST IN THE CAGE!!!!





Be safe out there

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