



109 Years of Service to Volunteer Firemen

# The Signal

[www.njnyvfa.org](http://www.njnyvfa.org)



**Volume 61 No. 4** Official Publication of the NJ & NY Volunteer Firemen's Association **MAY 2022**

## From the President's Pen...

I want to thank the Moonachie Fire Department for hosting our April meeting. Thank you Justin Derevyanyk as our guest speaker and speaking about knowing your community construction and unexpected obstacles in trailer parks. We also celebrated Frank Gluckler's 97th birthday. On May 15 was our memorial service at the Bergen County Police and Fire Academy in Mahwah N. J. We honored 162 brother and sister firefighters that have passed away and two line of duty deaths

all from Bergen and Rockland Counties. These men and women will never be forgotten. I look forward to seeing everyone at the New Jersey and New York VFA convention on June 3rd in Oradell. New members are always welcome. Please go to our website [www.njnyvfa.org](http://www.njnyvfa.org). Stay safe and God bless. Please keep our military in your thoughts and prayers.

President Roy De Young, Jr

## GOVERNOR MURPHY ANNOUNCES \$10 MILLION FIRE SERVICE PPE GRANT PROGRAM

HACKENSACK, NJ – Governor Phil Murphy was in Hackensack on Monday May 16, 2022 at the Hackensack FD Headquarters to announce a new Fire Service PPE Grant Program. The funds come from the American Rescue Plan funding that all states received. The funds will be awarded in a competitive grant program administered by the Department of Community Affairs through the Division of Local Government Services. Fire departments will be able to apply for up to \$75,000. Further details will be made available in the near future.

Murphy was welcomed to Bergen County by County Executive Jim Tedesco, himself a 46 year fire service member who served twice as fire chief in Paramus. There was a list of notable dignitaries attending the announcement including the Lieutenant Governor Shiela Oliver, the director of the state's Division of Fire Safety Rich Mikutsky, 9th District Congressman Josh Gottheimer, 37th District Assemblywoman Shama Haider, IAFF General President Ed Kelly who traveled from Massachusetts for the announcement, PFANJ President Steve McConlogue from Elizabeth, and FMBA North District Vice President Kyle Hughes from Paterson. Also attending were Robert Ordway, President of the New Jersey State Firemen's Association along with Vice President Joseph Hankins, Bergen County Executive Committeeman Jerry Naylis and Passaic County Executive Committeeman John Lane. They were joined by a packed firehouse full of fire chiefs, officers and firefighters from Bergen

County and all parts of the state.

A number of invited guests gave remarks to the crowd. A common thread was the dangers faced by all firefighters, career and volunteer, each and every day as they respond to fires and other emergencies. All firefighters need proper protective equipment because they are exposed to a myriad of unknown toxins and hazards at every call. The grant program will be for turnout gear including coats, pants, helmets, hoods and boots. Funds will also be available to provide sanitizing of turnout gear.

Tedesco was happy to see the grant program supported by career firefighter unions and the volunteer firefighting community, all of whom will benefit from the grant program. He emphasized that it was important that all sectors of the fire service were recognized and will be able to participate in the funding.

The Governor thanked Congressman Gottheimer for his continued support of emergency services and his work to bring federal tax dollars back to New Jersey. Murphy praised Gottheimer for his leadership and participation in the Congressional Fire Service Caucus ever since he arrived in Congress.

In closing the Governor thanked Hackensack Fire Chief Thomas Freeman for hosting the event at his headquarters. There was no shortage of local fire service representation with attendees from Harrington Park, Old Tappan, Teaneck, Bergenfield, Englewood, Oradell, and Moonachie as well as Hackensack.

**ANNUAL CONVENTION WILL BE JUNE 3<sup>RD</sup> AT 8:00 PM  
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The officers and members of the NJ & NY Volunteer Firemen's Association extend their deepest sympathy to the families of our departed comrades:

FF George Wargo Sr. SW Johnson Fire Company, W. Haverstraw, NY FD  
Ex-Chief Michael J. Yorke, Sloatsburg Fire Dept., Sloatsburg, NY FD

Listings of deceased members is published based on their last address on record and may not be the same as the town in which they served.

## Upcoming Meetings and Events

### Membership Meetings-Last Friday of the Month

\*Unless otherwise noted. All meetings start at 8:00 PM

#### 2022

- June 2 New Jersey Homeland Security Conference  
Kean University, Union, NJ  
Check in starts at 8:00 a.m.
- June 3 **CONVENTION - ORADELL, NJ**  
**St. Joseph School**  
**305 Elm St., Oradell, NJ**  
**7:00 pm Doors Open**  
**8:00 pm Meeting Starts**
- June 4 Midland Park Fire Department - Wet Down
- June 11 Carlstadt Volunteer Fire Department  
150th Anniversary Celebration  
Jefferson Street Fire Headquarters  
1:00 p.m. to 5:00 p.m.
- June 11 Saddle Brook Fire Department - Wet Down
- June 20 Haworth Fire Department  
Golf Outing at River Vale Golf Course
- June 25 Harrington Park Fire Department - Wet Down  
13 Kline Sreet, Harrington Park, NJ  
1:00 p.m. to 5:00 p.m.
- June 25 Northvale Fire Department  
125th Anniversary Celebration  
204 Washington Street, Northvale, NJ  
5:00 p.m. to dark - Fireworks to follow
- July-August **NO MEETINGS**  
**HAVE A GREAT SUMMER**

Anyone wishing to host a meeting, please contact one of our Officers at [njnyvfa@gmail.com](mailto:njnyvfa@gmail.com) or their personal email address as listed in this newsletter.

Please bring a face mask to meetings until further notice.

## CANCER PREVENTION BEST PRACTICE NO. 2

A second hood should be provided to all entry-certified personnel in the fire department. Firefighters should wash their hoods after each fire or emergency service use including training fires and drills. The hood absorbs high quantities of smoke and cancer causing particulate matter. The face and neck have been identified as significant areas of dermal exposure to products of combustion and potential carcinogens.

**Remember that freelancing on the fireground is dangerous to firefighters and the overall operation. All tasks, functions and operations should be assigned and done based on orders from the incident commander, your officers and comply with your operational guidelines. This includes entry into the fire building.**

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**7TH ANNUAL TRAINING SEMINAR**

**SAT. OCT. 1ST, 2022**

**7:30 AM - 3:00 PM**

**TOPICS**

- COMMON SENSE COMMAND: STAY FOCUSED ON THE MISSION
- THAT WAS THEN THIS IS NOW: THE NEED TO ADOPT BEHAVIORAL CULTURAL CHANGE IN THE FIRE SERVICE
- LEADERSHIP IN THE REAL WORLD
- GOODWILL AMBASSADOR

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## ANNUAL MEMORIAL SERVICE HELD AT BERGEN COUNTY FIRE ACADEMY

MAHWAH, NJ – The New Jersey and New York Volunteer Firemen's Association conducted their annual memorial service on Sunday May 15, 2022 at the Bergen County Fire Academy in Mahwah, NJ. Over 250 firefighters and family members attended this year's event. Of special note was the recognition of two Fire Service Line of Duty Deaths, both of which occurred in Rockland County, New York.

Arriving attendees passed under the Stars and Stripes as the flag was hung between aerials from the Spring Valley, NY Fire Department and the Maywood, NJ Fire Department. In a symbolic twist of irony, one of the LODDs was Jared Lloyd of Spring Valley, NY Fire Department which is Company 17. The aerial from his fire company is Ladder 17. The aerial from the Maywood, NJ Fire Department also carries the identifier of Ladder 17.

The second LODD honored was Thomas Pomplin of the Piermont, NY Fire Department. Pomplin was born a slave in the 1800's. He died after becoming sick following a fire in Nyack, NY that the Piermont Fire Department was called to assist at. He succumbed on August 5, 1854. His death went unnoticed for over 168 years. His sacrifice was identified during a records check by the Piermont Fire Department.

Both Jared Lloyd and Thomas Pomplin had their names inscribed on the firefighter's monument located at the Bergen County Fire Academy so these men and their sacrifice will never be forgotten.

During the ceremony 162 firefighters from both Bergen County, NJ and Rockland County, NY were recognized and honored during the day's events. The service came to order at 2:00 p.m. with NJNYVFA Trustee John Malool of the Ridgfield Park FD serving as the Master of Ceremonies. Following an invocation by Past President and Chaplain William Drew of the New Milford FD, the Rockland County Fire Department Pipe and Drum Band escorted in the colors, presented by the Hillcrest Volunteer Fire Company Honor Guard.

Association President Roy De Young welcomed everyone and thanked all for attending. Memorial Certificates were presented to the families and fire departments attending the event to mark the contributions of the fallen firefighters. After the presentation of the Memorial Certificates there was a procession to the memorial at the entrance to the Law and Public Safety Institute. Past President Peter DeVries read a moving scripture passage. The monument with the newly inscribed names was unveiled by President De Young assisted by Jared Lloyd's two sons. Red roses and red carnations were then laid at the monument by all attending as final farewells were offered.

The firefighter's monument at the Bergen County Fire Academy was paid for by the New Jersey and New York Volunteer Firemen's Association and is maintained by the association. President Roy De Young remarked that remembering our departed brothers and sisters is one of the most important tasks that we as firefighters can perform. He was pleased that this was a standing room only event and was grateful for the turnout.



*The Stars and Stripes greeting visitors to this year's memorial service*



*President Roy De Young with Jared Lloyd's two sons at the unveiling of the memorial stone*



*The Hillcrest Volunteer Fire Company Honor Guard*



*A comrade bids farewell*

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# FIREGROUND REHAB: WHAT IS IT AND WHY IS IT SO IMPORTANT – PART 1.

By Cynthia K. Kneisler RN, MICP - NJ

The call came in at 0200 hrs; report of a structure fire; 2nd alarm on arrival. Before long it would be a 3rd alarm. The news agencies would report more than 60 firefighters responded and injuries were minimal. Thankfully! But what were those injuries? Was it a burn injury? A trip and fall incident? Or heat exhaustion? Was EMS on the scene? And was a Rehab area set up to assess and monitor the firefighters?

Firefighter safety is the most important factor at any fire scene. In recent years, fireground rehab has become an important component of firefighter safety. But it still remains very difficult to get firefighters to report to the rehab area at any fire scene. Many firefighters are still under the impression that if they go to a rehab area they will be transported to a local hospital. They also tend to think it is a sign of weakness to sit in rehab for any length of time.

Fireground rehab, in reality, is the Firefighter's chance not only to rest but rehydrate in a timely fashion and allow the firefighter to stay on scene, and remain in the game. Think if you will, about professional sports. Football, for one, constantly shows athletes in heavy gear, sweating profusely, working hard at their game, then sitting on the sidelines to hydrate and rest without a second thought – yet firefighters cannot do this!

A well run, well stocked firefighter rehab area can make all the difference between firefighters remaining at a fire scene and going back in to the event, or having to be removed to the hospital due to a health concern. It has only been in the last 25 years that the fire service has begun to realize the importance of addressing proper fire fighter rehab and including it as part of standard operating procedures or operational guidelines. Yet many departments still fail to plan for one of the most important components of firefighter safety.

Despite improvements in firefighting techniques and modern technology, firefighting remains one of the most physically demanding jobs involving manual labor that can test the maximum extremes of human physical endurance. First published in 1987, the first edition of National Fire Protection Association (NFPA) 1500, Standard on Fire Department Occupational Safety and Health Programs pointed out firefighter safety issues that were injuring and killing firefighters. They also provided standard methods for correcting those issues in order to reduce the amount of fatalities as a result of stress and overexertion on firefighters involved in an emergency scene or training exercise.

In recent years we have seen a great deal of improvement in overall firefighter health, wellness and fitness programs. However, when firefighters are in the midst of working the most demanding part of their job, rehab is overlooked or ignored completely. Having a plan for rehab can continue to help reduce illness, injuries, and fatalities to firefighters.

Proper firefighter rehab involves establishing an area away from the fire scene to give the fire fighter a chance to rest. It should include a seating area (away from vehicle exhaust fumes), fans and heaters as needed for good air circulation, water and other electrolyte drinks for proper hydration, small snacks as needed, and general medical supplies to monitor any type of unexpected emergency. It also needs to have a way for EMS to remove someone if needed to be transported out should something change.

During the time a firefighter is in the rehab area, vital signs should be monitored every 10 minutes to show improvement while rehydrating. The firefighter should show signs of improvement and be without other injuries or complaints prior to returning to a fire scene.

Fire departments that do not have a plan for rehab need to establish a program with their local EMS departments. This can be done whether there is a volunteer or paid EMS service covering the area. Following some of the guidelines listed in NFPA 1500 can also help in establishing a plan on how to set up and run a proper rehab area. Having a good working relationship with the local EMS agency can greatly enhance working together at a fire scene and in running a rehab area.

Every fire service needs to closely examine their current fireground rehab procedures. Start now before the hottest days of summer are here. What are your plans? Does your department have a way of running rehab? Is cool water readily available to all in a timely fashion and can everyone take a few minutes to sit and rest as needed?

Next month we will closely examine what is needed in a rehab area and the medical monitoring that takes place while there. Remember, the goal is NOT to take a firefighter away from their job but to INCREASE the firefighter's ability to perform their job to the best of their ability. Until next month.....Thank you.

*Cynthia K. Kneisler has been involved in EMS for more than 40 years. Her career includes 22 years of BLS service with the Bergenfield Volunteer Ambulance Corps, 37 years as a New Jersey State Certified Paramedic, and now works as a New Jersey Certified School Nurse for the past 17 years. She has also presented her Fireground Rehab Class numerous times, to local EMS squads and Fire Departments about the importance of fire ground rehab.*

## APPARATUS TESTING AND MAINTENANCE

By Kevin Schade, EVT

Every year our apparatus goes through a series of required testing and generalized maintenance but what does this testing do, and is the maintenance program that you follow up to the manufacturer's specifications? This annually required testing exposes potential deficiencies in different aspects of the vehicle. Did you know that our apparatus is also supposed



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Secretary - Past President  
Editor of 5 Trumpet Journal

**New Jersey State Fire Chief's Association**

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to be weighed? Weighing the vehicles addresses several different possible issues. An overweight vehicle can cause several issues, such as premature brake failure or catastrophic failure of suspension and frame components and it affects the overall handling of the vehicle. In the event of a motor vehicle accident, the weight of the vehicle can come into question and the chauffer or AHJ can be liable.

A strong preventative maintenance program is the key to the longevity of your vehicle's components. How often does your vehicle get maintained and how often should it? As an example, the Cummins L9 motor suggests different maintenance intervals based on the average speed of the vehicle. The pumper in my house has an average speed of 5 MPH or less. So, Cummins suggests it should have an oil change at 1500 Miles / 500 Hours / 6 Months, whichever comes first. The average speed calculation also factors in idle time, so an average speed at or below 5 MPH is not unreasonable for most apparatus. As stated before, read the manuals and take action based on that information.

Fluid analysis is a fantastic way to determine if any component in the motor, transmission, hydraulic system, cooling system, etc. is wearing at an increased rate. Fluid analysis is exactly what it sounds like. When fluid is removed from your vehicle, a small amount can be sent to an outside testing company and they will analyze it for foreign materials such as metal particles or water. Hydraulic fluid analysis is actually required in NFPA 1911 as part of an annual aerial test. If a fluid analysis program is started when you receive a new vehicle, you can document the wear of the components and possibly even predict what may fail in the near or far future. Even the fluid analysis of an older vehicle can provide useful information.

Most departments now carry a thermal imaging camera and it has a wider range of uses than you may think. The next time you chauffer a vehicle to a drill, take a moment to walk around the truck with the TIC and look at the temperatures of your wheels. This may sound crazy but it can show you several things. Your wheels will likely be warmer than the ambient temperature but if one is hotter than another, it may indicate possible issues. Some of these issues could be a bad wheel bearing or a brake assembly that is not totally disengaging while you are driving. These issues should be addressed immediately because they will likely cause component failure in the near future and will cause the vehicle to be placed OOS.

Kevin Schade is a lieutenant in the Bergenfield Fire Department. He is a certified Emergency Vehicle Technician by the EVT Certification Commission and is employed as a fire apparatus mechanic with Seagrave Fire Apparatus.

## SAFETY STAND DOWN 2022 ANNOUNCED

*Fire departments advised to focus on situational awareness during the week of June 19-25*

Situational awareness is a critical component of emergency response operations. It is a process that helps firefighters solve problems, prevent bad outcomes, and make better decisions in high stress environments. In recognition of its importance, the theme of the 2022 Safety Stand Down campaign is "Situational Awareness: The Foundation for Good Decision-Making."

A joint initiative of the International Association of Fire Chiefs' (IAFC) Safety, Health and Survival Section, the National Volunteer Fire Council (NVFC), the National Fire Protection Association (NFPA), and the Fire Department Safety Officers Association (FDSOA), this year's Safety Stand Down program will take place June 19-25. Responder agencies are encouraged to suspend all non-emergency activities during this week to focus on training and education related to situational awareness.

The week will be broken down into five daily focus areas to highlight situational awareness during different incident types: structure fires, EMS, wildland incidents, roadway response, and acts of violence. Resources, training videos, and a PowerPoint presentation will be made available prior to the week at [safetystanddown.org](http://safetystanddown.org) to help departments plan for and implement Safety Stand Down strategies.

In addition, the NFPA will once again host the Fire Service Safety Stand Down Quiz to raise awareness and foster a greater understanding of this year's theme. Everyone who completes the online quiz will be automatically entered into a sweepstakes; 200 randomly selected participants will win a commemorative Safety Stand Down challenge coin.

Stay tuned to [www.safetystanddown.org](http://www.safetystanddown.org) for more information and resources in the months leading up to the event. New information will be added periodically. The training videos and quiz will launch in the weeks prior to Safety Stand Down.

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## A ONE-DAY PRACTICAL TRAINING SEMINAR

### ENGINE COMPANY OPERATIONS SATURDAY, JUNE 11, 2022

**Bergenfield Fire Training Center,  
25 Daggett Street, Bergenfield, NJ 07621**

Registration fee \$375 per person includes course registration, lunch, breaks and refreshments. Registration and check in begins at 7:30 a.m. Class begins at 8:00 a.m.

This class has been submitted for 0.5 Fire Instructor Technical CEUs to the NJ Division of Fire Safety. This class also satisfies the NJ PEOSH requirement for quarterly training as required under N.J.A.C. 12:100-10.3 (c) 2 for firefighters who are expected to perform interior structural fire fighting

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## NORTHEAST SQUAD CONCEPTS LLC

*June 11, 2022 Bergenfield Live Burn*

This 8-hour multi-station live burn will be focusing on many of the basics, as well as advanced engine company operations that must be completed quickly, efficiently and as smoothly as possible. All the while being prepared for any curveballs that are thrown our way.

Quality engine company operations are the hallmark of any solid fire department and often make the difference between a fire going well and a fire that goes south quickly. The best way to ensure that we are prepared for these situations is by training in as realistic of an environment as possible.

This class strives to create these environments and challenge the student to make on-the-fly decisions to overcome a variety of challenges and get water on the fire as quickly as possible. Some of the stations may be viewed as being "truck company" disciplines, but often must be completed by engine company personnel. This class consists of 6 learning stations, each with their own set of challenges and issues.

The stations are:

- Stretching through cluttered floors
- Basement fires
- Water can discipline
- Engine company based ventilation
- Lines over ladder
- Nozzle selection, pressures, flows and teamwork

Class will run approximately 8 hours with short breaks in between each station. Lunch and water will be provided. Students must bring full, compliant turnout gear and SCBA with a spare cylinder. Expect a day of fun, learning and hard work. We want to learn with you and will not teach AT you. We look forward to seeing you on June 11th.



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## LEGISLATIVE UPDATE

Members of the state legislature have added 107 new bills recently bringing the total number of bills currently filed for this session of the New Jersey Legislature at 6,853. Of this total, the New Jersey State Firemen's Association is tracking at total of 102 bills. 71 of the bills deal with Fire and Emergency Service topics and 31 bills deal with pension issues.

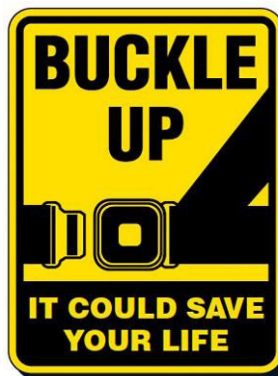
The recently filed proposed bills all deal with recreational use of cannabis.

The Governor recently signed a bill allowing the retirement age for the chief of a career department to increase to age 67.

The Senate and General Assembly are currently holding budget hearings and it is anticipated that very little other legislative activity will take place prior to a vote on the state budget. By law the state budget must be adopted by July 1, which is the start of the new fiscal year for the State of New Jersey.

However, there was a hearing scheduled in the State Senate Labor Committee to consider S-651, which would amend current Worker Compensation law to extend worker compensation to a period of up to 24 hours following the incident for cardiovascular or cerebrovascular injury or death. This would bring our New Jersey's Worker Compensation law in line with the federal Hometown Heroes Act for the PSOB benefit that was amended by Congress in 2003. On the regulatory front several items are being worked on in Trenton. One is the regulations for junior firefighters. This would establish the specific rules and regulations for junior firefighters including training requirements at fire training facilities and academies.

The second item being worked on is the review of the new fire code. The plan is to adopt the 2018 edition of the International Fire Code with New Jersey amendments. Once the Division of Fire Safety review is complete, the entire package then goes to the Governor's Office for final review prior to being published in the New Jersey Register.



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## TAIL BOARD TALK THE LONG STRETCH

By Jerry Naylis

This month we continue our ongoing discussion of engine company operations and in particular hose line stretches. In our dialogue the issue of what is the job of the engine company engendered some interesting commentary. Ultimately, the question and answer boiled down to the most important task in a fire ground operation ... get the first line in operation. Think about this. Nothing is more important than getting the first line in operation and putting water on the fire. Yes, life safety is our number one priority. But often times saving a life can be better accomplished if we are putting water on the fire, holding the fire back or better yet, gaining the upper hand and putting the fire out.

Having said all of this, we need to evaluate what we have on our apparatus and think about how best to use our resources. Many, if not most engines are set up to use pre-connected hose lines. Whether you have a 200 ft. or a 250 ft. pre-connect and the hose is 1 3/4-inch or 2 1/2-inch, and regardless of the nozzle type, we lead off at most fires with the pre-connect. And for many if not most of our fires, that is okay if we are dealing with a one- or two-family dwelling fire or a first floor fire in a commercial occupancy on Main Street USA. But how do we deal with the fire in a garden style apartment, town house or residential development where the building is set back and is more than 300 ft. from the where our pumper ends up? What about the upper story of a walk up type building (residential or office building) that was built many years ago and has no standpipe? Now we have to start thinking outside of the box and our normal comfort zone.

Let us use the example of the garden apartment complex that many of us have in our jurisdictions. How far is the distance from the curb where our pumper will be parked to the last building in the courtyard? Have you measured the distance with a tape or better yet a walking wheel? Some of these are 300 feet or more. Now add on the working lengths of hose and you could need between 400 ft. and 500 ft. of hose to reach the rear bedroom on the second floor. The fact is the typical pre-connect is not going to make the stretch. Now what do we do? We still need to get the first line in operation and flowing water on the fire, even if that means using two or more companies to accomplish the task.

When I asked this question and posed this case I was told to just put two pre-connects together and that should do the job. So I asked are you sure? It was then that I was met with somewhat of a blank stare. Then I asked the really hard question, how much friction loss would that generate and what would we have to pump the hose line at to get the right volume of water to combat the fire. This is where the discussion got interesting.

Let's say that we wanted to flow 175 gpm and we had a 15/16" smooth bore nozzle. The desired nozzle pressure would be 50 psi. In reality we could expect approximately 167 gpm if our nozzle had a coefficient of discharge of 0.90. This would create roughly 33 psi in friction loss per 100 ft. of hose. Thus, this single 400 foot long 1 3/4-inch hose line would generate 132 psi in friction loss.

Add on 50 psi for nozzle pressure and we are pumping at 182 psi just for a single hose line that may or may not reach the front door and likely won't make it to the second floor let alone the fire room. Some may suggest adding additional lengths of 1 3/4-inch hose to make to achieve the goal of getting to the fire room. But now your pumper is screaming because the pump discharge pressure is 248 psi just for the single hose. And you have basically maxed out your pumper. But don't despair, there is a better way.

We want a stretch of 500 ft. so that we can be assured of reaching the intended goal. Make the first 300 feet of the stretch with 3-inch hose (2 1/2-inch hose if you don't have 3-inch hose). Attach a 2 1/2-inch to 1 1/2-inch reducer, and then attach the 200 foot of 1 3/4-inch hose. Using the friction loss formula  $Q^2$  for 3-inch hose and the friction loss formula  $2Q^2 + Q$  for the 2 1/2-inch hose where:

$$Q = \text{flow} / 100$$

we determine that the friction loss in 3-inch hose when flowing approximately 167 gpm is 2.78 psi per 100 feet and the friction loss in 2 1/2-inch hose flowing the same 167 gpm is 7.25 psi per 100 feet. The total friction loss in the 3-inch hose is 3 times 2.78 or 8.34 psi for a 300 foot stretch plus the friction loss for the 1 3/4-inch hose of 33 psi per 100 feet or a total of 66 psi, plus nozzle pressure of 50 psi for a total pump discharge pressure of 124.34 psi which we round to 125 psi. If we use 2 1/2-inch hose instead of 3-inch hose the friction loss numbers are slightly higher – 21.75 psi for the 2 1/2-inch hose plus 66 psi for the 1 3/4-inch hose plus 50 psi for the nozzle equals 137.75 psi rounded up to 140 psi which is still a very manageable number that will enable the pumper to discharge additional hose lines when needed. This concept works well when stretching to the upper floors of a tenement type multiple family dwelling.

A long stretch does require more personnel and so you may need to merge two companies to make it work. But you will find that you can get water on the fire much faster than everyone trying to stretch a hose line from their own pumper and find that everyone is coming up short. Remember, this is not a game of who gets there first but how quickly the operation can succeed by getting water on the fire.

When you drill on this technique you may find that your friction loss numbers may vary. This is due to a number of variables in fire hose including actual interior diameter of the hose, hose roughness, and coefficients of discharge for the coupling and the nozzle you use. A fog type nozzle will require a nozzle discharge pressure of 100 psi which in turn will increase your pump discharge pressure. Like all new techniques, test these approaches before using them on the fire ground.

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