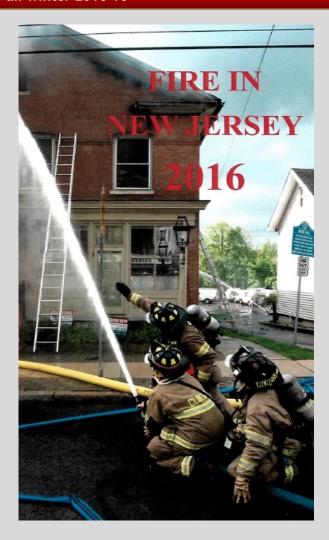
The Newsletter of the New Jersey Division of Fire Safety

FIRE FOCUS

Excellence in Public Safety

Lt. Governor Sheila Y. Oliver, Commissioner Richard Mikutsky, Director and State Fire Marshal Fall-winter 2018-19

New Jersey Department of Community Affairs New Jersey Division of Fire Safety Volume 14 Issue 2



The New Jersey Division of Fire Safety in cooperation with the state's career and volunteer fire departments has posted the 2016 "Fire in New Jersey Report" (click link).

Fire in New Jersey 2016



IN THIS POSTING...

Fire in New Jersey 2016

Fall Course Brochure

Firefighter Cancer Resources

Mid-Atlantic Regional Fire Safety Event

New Code Books

In Memoriam

NEED VOLUNTEERS?

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MATIONAL VOLUNTEER FIRE COUNCIL FIRE • EMS • RESCUE

FIRE IN NEW JERSEY 2016 REPORT

The "Fire in New Jersey" report relies on the state's 600 career and volunteer fire departments to provide the data that comprise the report. The goal is 100 percent reporting each year. The Division works with local departments to achieve this goal through the National Fire Incident Reporting System Unit.



Division Director and State Fire Marshal Richard Mikutsky and Bureau Chief Louis Kilmer present Kearney Fire Chief Steve Dyl with a Certificate of Achievement for 100 percent National Fire Incident System (NFIRS) reporting for 2017.

Al Evangelista, representing Passaic County, accepts recognition on behalf of reporting fire departments in Passaic County.

Contact the New Jersey Division of Fire Safety NFIRS Unit

609-984-3476



MID-ATLANTIC REGIONAL FIRE SAFETY SUMMIT

On behalf of public education representatives from Maryland, Delaware, DC, New York, Pennsylvania, New Jersey, and NFPA, we are pleased to introduce the <u>Mid-Atlantic Regional Fire Safety Summit</u>. This one-day event, to take place at the Sheraton Raritan Center in Edison, New Jersey, is geared towards fire prevention, firefighters, and fire safety education professionals. It will be held on <u>November 28, 2018 from 10:30am – 3:30pm</u>. Fire safety professionals from across the region, and the country, will be on hand to speak on a number of topics.

Registration for this event is quick, simple, **FREE**, and <u>includes lunch</u>.

To register, simply click on the image below and fill out the short online form.



TRAINING UPDATE



REGISTER TODAY!



- to the National Fire Incident Reporting System (NFIRS).
- Almost two-thirds (64 percent) of the reported calls to fire departments required Emergency Medical Services (EMS) and rescue services.
- Only 5 percent of all reported fire department runs were fire related.
- In 2016, fire departments responded to more severe weather calls reported on Saturdays than any other day of the week.
- About half (52 percent) of the reported calls were to residential properties.
 Only 3 percent of these were fire related.
- Approximately 9 percent of reported runs involved mutual or automatic aid.



A recent study of national NFIRS data from 2016 is quite startling since it shows the shifting response dynamic of the fire service from fire calls to EMS calls. The notion of a career or volunteer fire department as solely a fire response unit is changing dramatically and the New Jersey fire service would do well to recognize and accommodate this change.

THE FULL REPORT

WORTH REPEATING

GROUND BASED SPARKLING DEVICES & NOVELTIES ARE NOW LEGAL IN NEW JERSEY



NJDFS SMOKE ALARM DRIVE THRU

The Division of Fire Safety recently completed its initial distribution of smoke alarms and distributed the rest as part of WABC-TV's Operation 7: Save a Life program in its 20th year. The smoke alarm giveaway, which is underwritten by WABC New York and Kidde, provides alarm units free of charge to vulnerable populations such as elderly and low-income

residents.

"This enduring partnership with WABC is critical to getting life-saving smoke alarms into the homes of people who otherwise wouldn't receive them," said Lt. Governor Sheila Y. Oliver, DCA Commissioner. "We thank WABC for its commitment to fire safety and look forward to

participating in this important program in the years to come."

Operation 7: Save a Life is a program created and run by WABC-TV, a major broadcast television station in New York City. Each year as part of Operation 7: Save a Life, the station provides both on-air and online fire safety programming in cooperation with Kidde, a major manufacturer of fire safety products. The program also includes the distribution of thousands of free smoke alarms to fire service agencies such as the New Jersey Division of Fire Safety in the station's viewership area. The Division of Fire Safety, in turn, delivers the alarms to individual fire departments, which provide them to the elderly and disadvantaged within their respective jurisdictions.

The Division of Fire Safety recently hosted distribution events at the Middlesex County Fire Academy in Sayreville and Kean University in Union where fire departments from Bergen, Essex, Hudson, Hunterdon, Mercer, Middlesex, Monmouth, Ocean, Passaic, Union, and Warren counties received approximately 3,500 smoke alarms in total to give to residents who

need them the most.

The remaining complement of the 5,000 smoke alarms allocated to the Division of Fire Safety through the Operation 7: Save a Life program will be distributed during National Fire Prevention Week in October.

"The New Jersey Division of Fire Safety is gratified to be

able to assist the greater effort that WABC and its Operation 7: Save a Life partners make each year. We thank our local fire departments for working with us to help those residents who can least afford it, get the most fire protection possible," said Richard Mikutsky, Division of Fire Safety Director and Acting State Fire Marshal.

Approximately 60 percent of home fire fatalities nationwide result from fires in residences without working smoke alarms, according to the National Fire Protection Association. The association's statistics also show that the risk of dying in a home fire is reduced by half in residences with working smoke alarms.



NJDFS ISSUES FIREFIGHTER CANCER CAUTIONS

(Editor's note:) NJDFS Director Richard Mikutsky has placed the rising rate of cancer among firefighters as a top Division priority and is using all available means to raise awareness of this serious concern. (from NIOSH)

Firefighting is a dangerous profession, and a growing body of research and data shows the contributions that job-related exposures have in the development of cancer. The National Institute for Occupational Safety and Health recently undertook two large studies, (https://firefightercancersupport.org/wp-content/uploads/2013/10/NIOSH-Firefighter-Cancer-Study-w-Summary.pdf) which focused on firefighter cancer and concluded that firefighters face a 9 percent increase in cancer diagnoses, and a 14 percent increase in cancer-related deaths, compared to the general population in the U.S.

Latest statistics suggest that 63% of all firefighters will get some form of cancer. Increased risk for firefighters compared with the general population is as follows:

- Testicular cancer (2.02 times greater risk)
- Multiple myeloma (1.53 times greater risk)
- Non-Hodgkin's lymphoma (1.51 times greater risk)
- Skin cancer (1.39 times greater risk)
- Prostate cancer (1.28 times greater risk)
- Malignant melanoma (1.31 times greater risk)
- Brain cancer (1.31 times greater risk)
- Colon cancer (1.21 times greater risk)
- Leukemia (1.14 times greater risk)

Some of the more hazardous carcinogens are Benzene, Formaldehyde, PCB's, and Asbestos, among many others.

Additionally, there are significant chemical hazards, such as Carbon Monoxide, Hydrogen Cyanide and Phosgene, just to name a few.

The microscopic particles of incomplete combustion are heavily laden in the smoke of all types of fire to which we respond. These known cancer-causing toxins are present in structure fires, car fires, dumpster fires, wildland fires and smoke from any fire in general.

The risk of absorbing these chemicals through the skin has been shown to occur, even through firefighting personal protective equipment (PPE). Chemical / carcinogen absorption increases as the body temperature increases from physical exertion. Skin becomes 400% more absorptive for every 5 degrees increase in core body temperature. In general, body temperature increases between 3-5 degrees while performing firefighting activities. The body takes approximately 30-50 minutes to return normal temperature after firefighting. Additionally, PPE off gasses vapors of the chemicals found in smoke well beyond extinguishment of the fire. The guideline below provides minimum recommendations to reduce the hazards of cancer causing agents related to firefighting.

ON-SCENE MEASURES

- Always wear full PPE during firefighting activities.
- Use Self Contained Breathing Apparatus (SCBA) from the initial attack until completion of the investigation. Don SCBA mask and go on air prior to entering smoke / hazard zone.
- Recognize the need for decontamination.
- Utilize positive pressure decontamination upon exiting an Immediately Dangerous to Life and Health (IDLH) environment.

- Upon leaving IDLH /smoke atmosphere, do not remove PPE until gross decontamination is completed.
- Perform gross field decontamination of PPE with water and dish detergent soap to remove any potential carcinogens.
- Utilize hand wipes to remove products of combustion from the head, neck, jaw, throat, underarms and hands immediately while on scene.
- Use nitrile exam type gloves for cleaning equipment.
- Rinse all hose, tools, equipment, and SCBA's with water and dish detergent soap before placing back on the apparatus.

PPE DOFFING PROCEDURE

- Remove structural gloves and use latex gloves for remainder of doffing.
- Remove helmet.
- Remove SCBA mask.
- Remove hood quickly to reduce spreading contaminants on face and neck.
- Remove SCBA.
- Remove turnout coat.
- Use wipes to clean neck, face, hands & groin.
- Remove bunker pants and boots.
- clean inside helmet with wipes.
- Place all gear in a plastic bag for storage and washing.

IN-STATION MEASURES

- Use latex gloves when handling any contaminated equipment or PPE.
- Ensure that PPE is laundered and dried as soon as possible after exposure to carcinogens.
- Shower thoroughly after exposure to products of combustion.

- Change to a clean uniform and wash contaminated uniform immediately, and separate from other laundry, after a fire.
- Do not take contaminated PPE or station uniforms home or store in lockers or vehicles.
- Decontaminate apparatus interior immediately after a fire.
- Open all bay doors or use mechanical exhaust system when apparatus is entering or exiting the station to facilitate diesel exhaust removal.
- Perform vehicle and equipment checks outside of the station; including running of small equipment.
- No vehicle idling in the apparatus bay.
- Keep turnout gear out of living and sleeping space.
- Keep doors between apparatus floor and living spaces closed and limit traffic through these doors as much as possible.
- Wear work or latex gloves when possible and wash hands frequently.
- Cancer prevention is not an easy, one-step project. The practices for prevention are as varied as the exposures firefighters encounter at any given incident. Attached is a list of resources to help you develop a comprehensive cancer reduction program, including on-scene decontamination.

Finally, prevention is a long-term and evolving process that must start today.

Firefighter Cancer Initiative:

https://www.youtube.com/watch?

v=Y1HJIiZM0rM&list=PL1Dvr5f_AgZeqvLJs5dPM6

RwGcLy0_fKX&t=0s&index=4

Bruce Smith Story / Game Changer:

https://www.youtube.com/watch?v=X7 nJDErpPg

Post Fire On Scene Decontamination:

https://www.youtube.com/watch?

v=rWT4Ia0sU1s&index=7&list=WL&t=0s

Firefighter Cancer Support Network:

https://firefightercancersupport.org/

Firefighter Cancer Alliance:

http://www.firefightercanceralliance.org/

Firefighter Cancer Foundation:

http://www.ffcancer.org/

Cleaning and Decontamination Considerations

after the Fire-IFSI research resources:

https://www.firehouse.com/safety-health/ppe/

turnout-gear/article/12352711/ifsi-research-

supplement-cleaning-and-decon-considerations-

after-the-fire

Fire Service Research: 10 Considerations Related

to Cardiovascular & Chemical Exposure Risks:

https://clarity.firehouse.com/

issue/59b1aabf57ab464f74618fe5

United States Fire Administration, (USFA):

https://www.usfa.fema.gov/

current events/032218.html

AFC - Best Practices for Preventing Firefighter

Cancer:

https://www.iafc.org/topics-and-tools/resources/ resource/best-practices-for preventing-cancerposter **UL-FRSI Cardiovascular and Chemical Risks Faced by**

Firefighters:

https://ulfirefightersafety.org/research-projects/

assessing-the-cardiovascular-and-chemical-risks-

faced-by-firefighters.html

The Silent Killer Firefighter Cancer: https://

www.youtube.com/watch?v=fyZ HQM9Z c

Lexipol:

http://www.lexipol.com/firefighter-cancer-

prevention/

First Responder Center for Excellence: https://

www.firstrespondercenter.org/cancer

The Division with Kean University hosts an annual First
Responder Safety Conference annually for further information
contact Tony Correia Health and Safety advocate:
acorr1954@gmail.com



NVFC RELEASES LAVENDER REPORT CLICK GRAPHIC FOR FULL REPORT

OFDP AT PICATINNY ARSENAL EXERCISE

Office of fire Department Preparedness personnel join with the United States Army Civil Support Team, NJ Department of Corrections COBRA team, Picatinny Arsenal Hazmat, and Morris County decon teams at a recent exercise designed to enhance cooperative response.





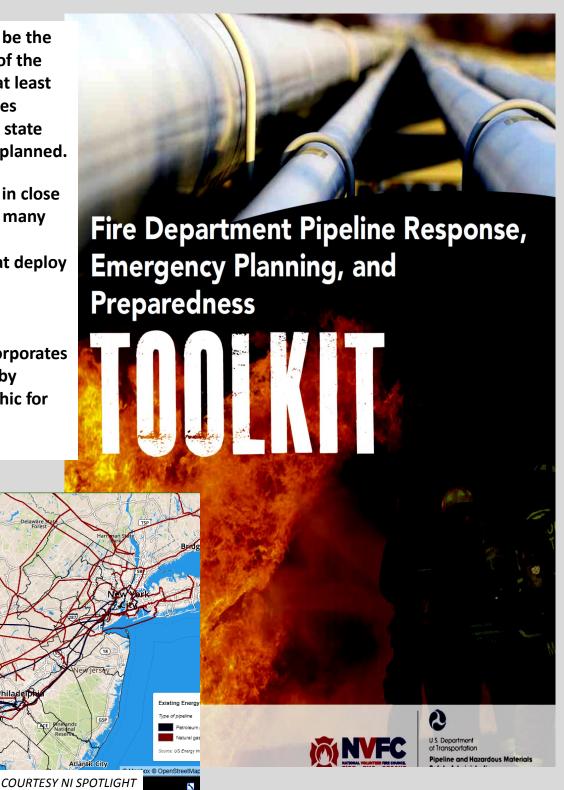


NVFC POSTS PIPELINE HAZARDS

New Jersey may be the pipeline capital of the Northeast with at least 10 major pipelines crisscrossing the state and many more planned.

All of them pass in close proximity to the many volunteer fire departments that deploy within the state.

Make sure your department incorporates the suggestions by clicking the graphic for the full report.





<u>Essentials of Community Risk Reduction</u> is a new, online, free course from <u>The Vision 20/20 Project</u> and <u>IFSTA ResourceOne</u>. This short course helps you gain a better understanding of the importance of Community Risk Reduction to the fire service and to the community. Being a fire fighter is so much more than responding to fires and medical emergencies – it is helping to make the community a safer place to live and work, and this can range from teaching fire prevention to pool safety.

<u>Essentials of Community Risk Reduction</u> is divided into four modules, and when you finish all four you earn a Certificate of Completion that helps document your professional development.

- Module 1 Community Risk Reduction
- Module 2 Fire and Burn Prevention
- Module 3 Preventing Home Injuries
- Module 4 Achieving Model Performance

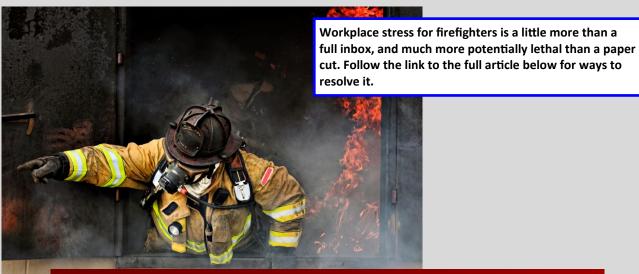
Why do you need this course?

- Home fires have changed fire is faster, much faster
- Smoke alarm guidelines have changed one alarm is never enough.
- Making a home safer includes reducing risks, and this can include fires, cooking, falls or pool safety, to mention a few.
- This course can show you how to effectively use messages that resonate with high-risk populations
- Discover best practices to reduce loss there is no need to reinvent lessons learned by others
- Focus on community risks specific to the community around your fire station and the priority risks throughout your entire jurisdiction
- Plan and deliver programs that measure up with model performance measures.
 Yes, prove your program achieves the goal a safer community.

ESSENTIALS OF COMMUNITY RISK REDUCTION

CLICK ABOVE GRAPHIC

FIREFIGHTER...BURNOUT?



- Place an emphasis on a safety-conscious transformational style of leadership. This will counter many of the stressors that lead to burnout. This style of leadership also promotes fairness and equity and it builds engagement.
- Require supervisors to provide rest and rehabilitation during firefighting operations, and allow for post-event rest and recovery.
- Promote health and wellness goals and a positive safety climate.
 This will help to counter the effects of stressors leading to burnout.



INCREASE HOME INSPECTION RESULTS



- Plan deliberately ahead of the event. Conduct your home visits on nights and weekends to significantly increase the odds of finding residents at home.
- Ask a community health worker to promote your event 3-4 days in advance by going door-to-door and speaking with residents, or leaving hang tags if no one is at home.
- Consider the weather. Residents in this study were reluctant to allow firefighters into their homes during rainy weather.

¹Debinski, B. McDonald, E., Frattaroli, S., Shields, W., Omaki, E., Gielen, A. (2017). Predictors of participation in a fire department community canvassing program. Journal of Burn Care and Research: Vol 38 (4), 225-229.

Full article

NYU OFFERS FREE FIREFIGHTER TRAINING

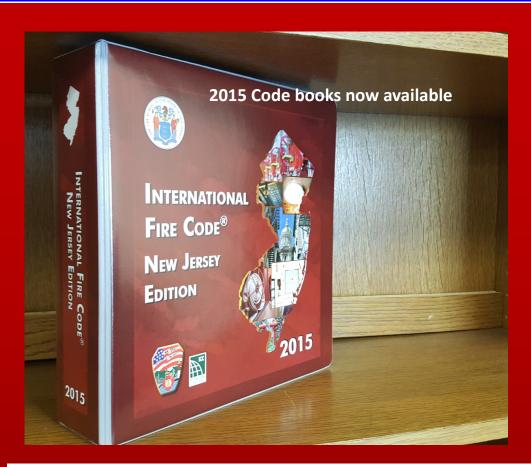


To help fire departments meet their complex training needs, the New York University (NYU) Fire Research Group created "Advanced Learning through Interactive Visual Environments (ALIVE). ALIVE is a web-based system free for all fire departments and firefighters. Fire departments face many challenges creating good training programs: they must find, train and retain good instructors; develop effective training and exercise modules; test for impact; and repetition is important with training so these criteria must be met over and over.

It is expensive and taxing to departments and personnel. NYU's training meets these criteria. ALIVE recently added to their previous offerings of Lightweight Structures, Wind-Driven High-Rise Fires, and Modern Fire Dynamics. Newly released modules include: Residential Fires, Fire Scenarios, Improving Cardiovascular Health, and Wildland Fires (beta version) Firefighters and departments can access training modules by visiting the NYU Fire Research Group's site or downloading the iOS/Android apps on mobile devices.

Fire departments interested in offering ALIVE training to their members can register by emailing the NYU Fire Research Group

CONTACT: <u>fire.research@nyu.edu.</u>



The Division of Fire Safety has adopted the 2015 International Fire Code NJ Edition (IFC) as the State Fire Prevention Code. Effective July 1, 2018, the 2015 IFC NJ Edition was made available for purchase through the International Code Council (ICC). All purchases for any IFC materials (loose leaf copy or PDF download) must be made through the ICC. The ICC accepts various payment methods including purchase orders. For more information regarding purchasing IFC materials, please contact the ICC at 1-888-422-7233, or visit their website store at www.iccsafe.org.

Each year, the Division of Fire Safety pays for ICC memberships for each Local Enforcing Agency (LEA). As such, the appointed Fire Official for each LEA receives the ICC Membership Number in order to receive a discount on IFC materials. Please retain the ICC Membership Number in a secure place within the LEA's fire prevention office so that in the event you retire/resign, the incoming Fire Official is able to locate the ICC Membership Number for future purchases. If you are unable to locate the ICC Membership Number for your LEA, you must contact the ICC directly and they will assist you. Member prices are as follows:

- ICC Member Price \$119.00 Loose Leaf Hard Copy
 - ICC Member Price \$116.00 PDF Download

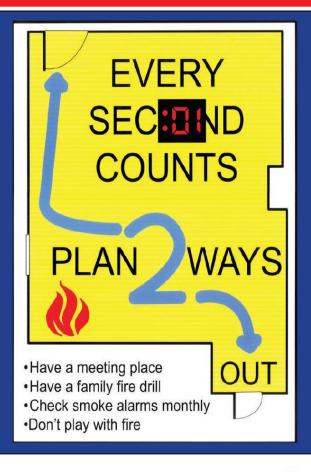
https://codes.iccsafe.org/public/document/details/toc/1172

To purchase the Uniform Fire Code Book (the red book) please contact the NJ Division of Fire Safety's Publications Unit.

2019 CALENDARS ARE IN!

2019 NJ Fire Safety Calendar

New Jersey Division of Fire Safety / New Jersey Fire Prevention & Protection Association





Printed Courtesy of



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Contact your County Poster Contest Coordinator to receive your calendars

COUNTY POSTER COORDINATOR CONTACT LIST



AT ISSUE:

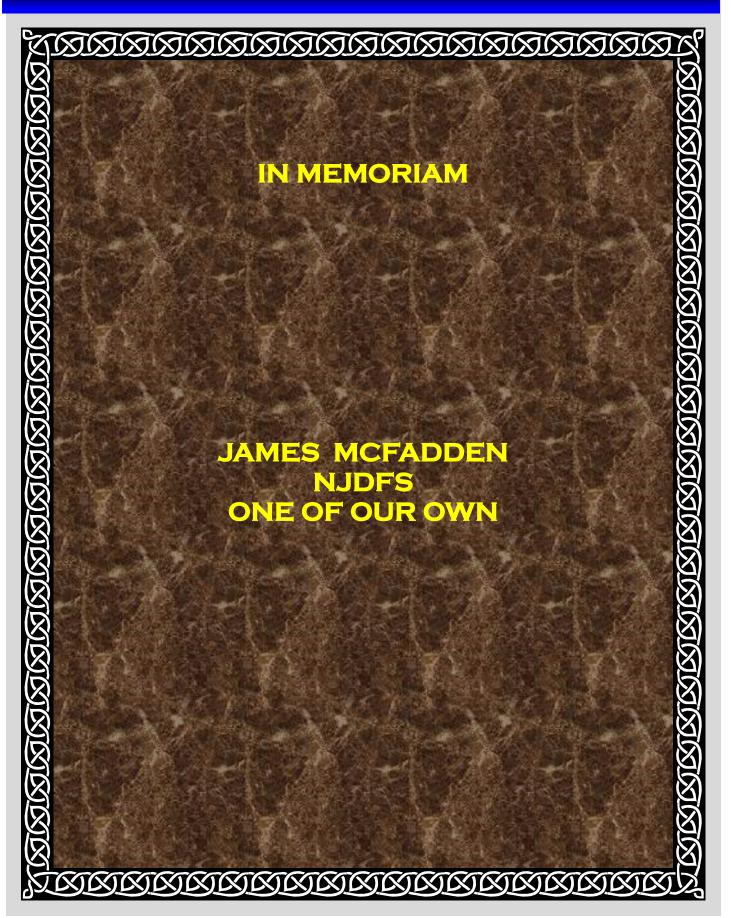


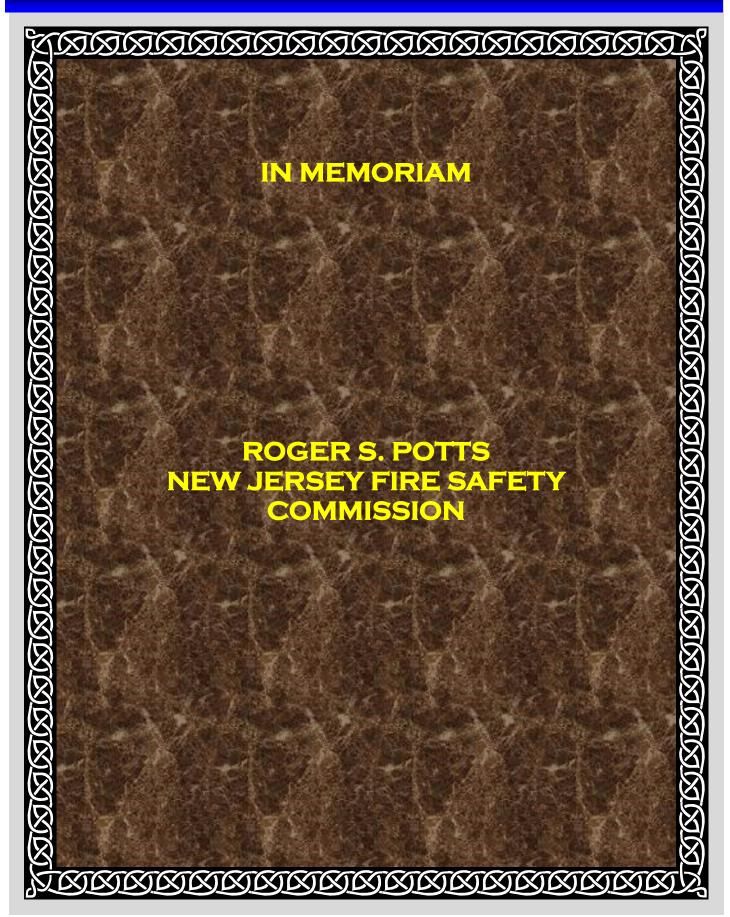
NEW JERSEY FIRE SERVICE LEGISLATION











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Fire Focus Quarterly gladly accepts editorial contributions meeting its internal electronic publication standards from members and affiliates of the *New Jersey Fire Service* and the general public exclusively via email and email attachment only.

Please send material c/o Jerry Clark, Content Producer, Public Information Assistant, New Jersey Division of Fire Safety, Community Risk Reduction Unit to: jerold.clark@dca.nj.gov

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