



State of Illinois
Office of the Illinois
State Fire Marshal



2020 Annual Report



Partnering with the Fire Service to Protect Illinois

MESSAGE FROM THE STATE FIRE MARSHAL



To Governor JB Pritzker, the Honorable Members of the General Assembly, and the Citizens of the State of Illinois:

I am pleased to present the 2020 Annual Report for the Office of the Illinois State Fire Marshal (OSFM).

In the face of the many challenges brought on by the COVID pandemic, the OSFM has continued to meet the public safety mission of the agency. Some examples of that success include:

- Conducting more than 70,000 inspections, and in so doing reducing the risks to Illinois citizens from potential fire dangers, boiler and pressure vessel explosions, elevator accidents, and protected the environment from potential environmental hazards from leaking underground storage tanks
- Closing 53 arson investigations with an arrest
- Providing more than \$6.1 million for firefighter training to fire departments across the State of Illinois
- Collaborating with the Illinois Fire Service Institute to establish a Blended Basic Firefighter Operations Academy that allows volunteer firefighters to receive certification through OSFM at no cost. This Academy combines online learning and hands on training at regional facilities every other weekend.

I am proud of the work we have done over the past year and I would like to thank the staff of OSFM for their dedicated service to the agency and for their continued professionalism in serving the citizens of Illinois. Finally, I would like to thank Governor Pritzker and the General Assembly for the budgetary appropriations which allow our agency to properly serve the residents and firefighters of Illinois.

A handwritten signature in black ink, appearing to read "Matt Perez".

Matt Perez
State Fire Marshal

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AGENCY OVERVIEW

History

The Office of the Illinois State Fire Marshal was created through an Act of the General Assembly on June 15, 1909. The Act required the Governor to appoint a State Fire Marshal who would be responsible for overseeing the agency. The initial charge to the agency was to inspect buildings to ensure they were safe from dangerous conditions, as well as to conduct cause and origin investigations of fires and, if evidence existed, to require the arrest of individuals for the crime of arson. In order to fund the operations of the agency, the General Assembly established a tax to be paid by insurance companies on the gross premium receipts collected on fire insurance policies. This tax still exists today and remains the primary funding source for the agency.

Over the course of the next century, the mission of the Office of the Illinois State Fire Marshal was expanded to require the agency to ensure the safety of Illinois citizens from other potential dangers, including regulating boilers and pressure vessels, elevators, fire prevention related industries, pyrotechnics, and underground and aboveground storage tanks, as well as by providing education, training and certifications to firefighters who choose to participate in such programs. Additionally, the agency makes grants and loans available to the fire service for training and equipment needs.

Today the agency is responsible for meeting or enforcing mandates contained in more than 40 state and federal statutes as well as the numerous rules associated with those statutes.

To learn more about the Office of the Illinois State Fire Marshal visit our website at www.sfm.illinois.gov. You can see a short video about our office at <https://www2.illinois.gov/sites/sfm/About/Pages/OSFM-Video.aspx>

Agency Mission

The Office of the Illinois State Fire Marshal is dedicated to working with our partners and providing assistance to the fire service in the protection of life, property and the environment through communication, inspection, investigation, certification and licensing.

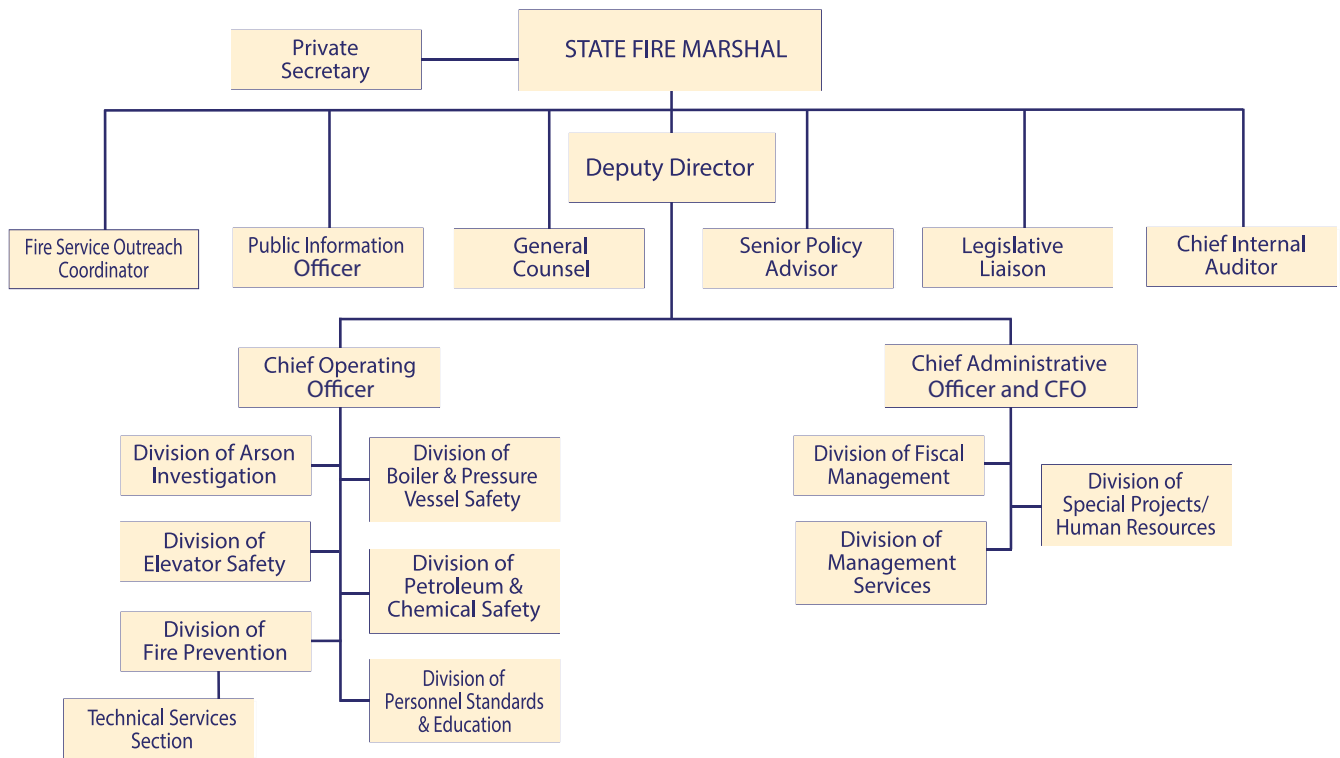
Core Values

Integrity • Commitment to Excellence • Service • Respect • Teamwork



State of Illinois
**OFFICE OF THE ILLINOIS
STATE FIRE MARSHAL**

Organizational Structure



Financial Information

\$ Actual	FY19 Expenditures	FY20 Appropriation
Fire Prevention Fund (047)		
Personal Services	\$9,586,610	\$11,268,100
Retirement	\$5,226,879	\$6,178,500
Social Security	\$607,405	\$811,900
Group Insurance	\$1,948,126	\$3,339,000
<i>Subtotal - Personal Services and Related</i>	<i>\$17,369,020</i>	<i>\$21,597,500</i>
Contractual Services	\$1,329,804	\$1,150,100
Travel	\$105,182	\$100,000
Commodities	\$108,693	\$90,000
Printing	\$28,229	\$19,600
Equipment	\$472,768	\$350,000
Electronic Data Processing	\$1,899,162	\$2,090,700
Telecommunications	\$192,097	\$193,400
Operation of Automotive Equipment	\$129,206	\$181,200
Refunds	\$4,180	\$5,000
<i>Subtotal - Other Operations</i>	<i>\$4,269,320</i>	<i>\$4,180,000</i>
Public Safety Shared Services Center	\$93,337	\$0
Electronic Firefighter Certification Testing	\$62,068	\$590,000
Firefighter Online Training Management System	\$0	\$300,000
<i>Subtotal - Lump Sums</i>	<i>\$155,405</i>	<i>\$890,000</i>
Chicago Firefighter Training Grant	\$2,838,800	\$3,041,600
Community Risk Reduction	\$3,168	\$50,000
Cornerstone	\$350,000	\$350,000
Explorer-Cadet School	\$65,000	\$65,000
Firefighter Training Programs - Illinois Fire Service Institute	\$230,000	\$280,000
Firefighter Training Reimbursement	\$950,000	\$950,000
Supplemental Firefighter Training Reimbursement	\$0	\$500,000
Gross Decontamination Buckets	\$360,000	\$0
Hazmat Emergency Response Reimbursement	\$0	\$10,000
Illinois Firefighter Peer Support	\$60,000	\$60,000

\$ Actual	FY19 Expenditures	FY20 Appropriation
Minimum Basic Firefighter Training	\$1,000,000	\$1,000,000
Mutual Aid Box Alarm System	\$125,000	\$125,000
New Fire District Grant	\$0	\$500
Senior Officer Training	\$0	\$55,000
Small Equipment Grant	\$3,332,248	\$3,500,000
<i>Subtotal - Grants</i>	<i>\$9,314,216</i>	<i>\$9,987,100</i>
Fire Museum Building Rehabilitation	\$0	\$2,000,000
<i>Subtotal - Capital</i>	<i>\$0</i>	<i>\$2,000,000</i>
Total - Fire Prevention Fund (047)	\$31,107,961	\$38,654,600

\$ Actual	FY19 Expenditures	FY20 Appropriation
Underground Storage Tank Fund (072)		
Personal Services	\$1,953,649	\$2,380,300
Retirement	\$1,030,019	\$1,305,200
Social Security	\$143,095	\$182,100
Group Insurance	\$384,493	\$768,500
<i>Subtotal - Personal Services and Related</i>	<i>\$3,511,257</i>	<i>\$4,636,100</i>
Contractual Services	\$225,182	\$231,800
Travel	\$4,133	\$8,300
Commodities	\$7,059	\$9,000
Printing	\$48	\$3,500
Equipment	\$4,323	\$10,000
Electronic Data Processing	\$695	\$10,500
Telecommunications	\$17,576	\$19,000
Operation of Automotive Equipment	\$61,378	\$67,100
Refunds	\$0	\$4,000
<i>Subtotal - Other Operations</i>	<i>\$320,393</i>	<i>\$363,200</i>
Chicago Underground Storage Tank Program	\$550,000	\$550,000
<i>Subtotal - Grants</i>	<i>\$550,000</i>	<i>\$550,000</i>
Total - Underground Storage Tank Fund (072)	\$4,381,650	\$5,549,300

\$ Actual	FY19 Expenditures	FY20 Appropriation
Fire Fighter Memorial Fund (510)		
Illinois Fire Museum and Illinois Firefighter Memorial Foundation	\$118,827	\$0
Maintenance and Rehab of Fire Museum Building and for Museum Artifacts	\$0	\$75,000
Medal of Honor Ceremony, Scholarships and Firefighter Memorial Maintenance	\$0	\$200,000
Total - Fire Fighter Memorial Fund (510)	\$118,827	\$275,000

\$ Actual	FY19 Expenditures	FY20 Appropriation
Fire Prevention Division Fund (580)		
U.S. EPA Underground Storage Tank Program Grant	\$470,185	\$1,000,000
Total - Fire Prevention Division Fund (580)	\$470,185	\$1,000,000
TOTAL - ALL FUNDS	\$36,078,623	\$45,478,900
General Funds	\$0	\$0
Other State Funds	\$35,608,438	\$44,478,900
Federal Funds	\$470,185	\$1,000,000
Headcount - Full-Time Equivalent (as of 6/30)	140.5	161.5*

*Budgeted

Revenue	Fiscal Year 2020
Insurance Taxes	\$31,585,483
Fees and Fines	\$3,875,826
All Other Sources	\$566,285
Total	\$36,027,595



OFFICE OF THE ILLINOIS STATE FIRE MARSHAL

STRATEGIC PLAN

In 2018 the State Fire Marshal, agency executive staff, and agency managers engaged in a process to develop a 10- Year Strategic Plan for the Office of the Illinois State Fire Marshal. Taking the time to create a strategic plan is vital to the continued success of any agency as it provides a sense of direction and outlines measurable goals. The agency released its Strategic Plan (2019-2029) in December 2018.

OSFM will work on achieving four main goals over the next 10 years. Those strategic goals are:

- Improving Staff Competency By Investing In Them - We will increase training opportunities for all OSFM staff and consequently achieve greater competency, expertise, and resiliency within our agency.
- Enhance Our Ability To Communicate With Our Partners and Stakeholders - We will increase our public outreach efforts and capitalize on those relationships with our industry partners and stakeholders.
- Increase Our Productivity And Efficiency - We will reduce inefficiencies, adjust our staffing levels as necessary, and leverage Information Technology to our advantage.
- Advance Public Safety Interests By Assessing Emerging Threats And Vulnerabilities - We will monitor and assess developing threats and weaknesses that impact fire prevention, life safety, and the Illinois Fire Service.

The agency outlined 21 specific objectives and courses of action to be taken to meet the goals laid out in the Strategic Plan. OSFM will review this plan annually to ensure that our agency remains on track with the stated objectives and goals.

A copy of the agency's Strategic Plan can be found on our website at <https://www2.illinois.gov/sites/sfm/SFMDocuments/Documents/OSFMStrategicPlan2019-2029.pdf>

FIRE SERVICE OUTREACH

The Fire Service Outreach Division serves as a point of contact for fire departments and our fire service partners with the purpose of ensuring good communication and support. The division represents the OSFM at conferences and regional meetings in order to increase the agency's visibility and accessibility. Additionally, the division provides resources for fire departments to assist them in their fire safety education efforts.

Obviously, the COVID-19 pandemic greatly affected this division as most of the events organized or attended by Fire Service Outreach personnel were cancelled such as the state fairs and conferences.



“Be Alarmed!” Smoke Alarm Program

The OSFM in cooperation with the Illinois Fire Safety Alliance operates the “Be Alarmed!” smoke alarm installation program. The program provides smoke alarms, with 10-year sealed batteries, to Illinois fire departments that in turn install in the homes of their at-risk citizens. Fire departments are also provided fire safety assessment materials to educate their residents about possible fire hazards. The program saw a sharp decline in the number of alarms distributed as local fire departments paused their installation programs as part of their COVID-19 precautions.

2020 Statistics:

- 185 Illinois fire departments from 61 different counties participating in the program
- 2,232 10-year concealed battery smoke alarms distributed to Illinois fire departments
- 1,655 of these alarms were installed in Illinois homes by year's end
- 597 Illinois homes now protected with new smoke alarms
- 1,376 (803 high-risk) Illinois residents educated on smoke alarm maintenance, home fire safety, and home fire escape plans as well as protected by new smoke alarms
- 80% of pre-existing smoke alarms in homes that received new 10-year concealed battery smoke alarms were non-functional or were expired (943 of 1,175 pre-existing alarms)

Illinois Fallen Firefighter Memorial and Firefighter Medal of Honor Awards Ceremony

Unfortunately, the Fallen Firefighter Memorial and Firefighter Medal of Honor Awards Ceremony had to be cancelled in 2020. The families of Captain Jake Ringering and Firefighter Kody Vanfossan were notified they will be honored at the 2021 ceremony. These two firefighters died while in the performance of their duties in 2019.

The Firefighter Excellence Award and the Firefighter Excellence Unit Citation are given for an act of service in the line of duty, demonstrating excellence and professionalism in service to the citizens of the state of Illinois.

Individuals awarded the Firefighter Excellence Award were:

- Lieutenant Thomas Stahl - Beach Park Fire Protection District
- Firefighter Pablo Ramirez - Beach Park Fire Protection District
- Engineer Jeremy DeJournett - Belleville Fire Department
- Firefighter Matthew Preston - Belleville Fire Department
- Captain Salvatore Mastrodomenico - Chicago Fire Department
- Firefighter Chris Jagels - Huntley Fire Protection District
- Firefighter Eric Smith - Huntley Fire Protection District
- Captain Justin Wilkinson - Rosewood Heights Fire Protection District
- Firefighter Kyle Roberson - Rosewood Heights Fire Protection District

Departments awarded the Firefighter Excellence Unit Citation were:

- Benton Fire Department
- Champaign Fire Department
- Huntley Fire Protection District
- Lincolnshire/Riverwoods Fire Protection District
- Murphysboro Fire Department
- Orland Park Fire Protection District
- Rosewood Heights Fire Protection District
- West Frankfort Fire Department
- Wood River Fire Department
- Zeigler Fire Department



There were no Medals of Honor or Valor awarded in 2020.

LIFE SAFETY AWARD

The Fire Prevention and Life Safety Award recognizes individuals whose extraordinary efforts in the field of fire prevention and life safety. There are three eligible recipient categories – Fire Departments/ Fire Protection Districts/Township Fire Departments (may be a department or an individual), OSFM Operations Staff, and OSFM Administrative Staff – with awards given to one nominee from each category. Nominations for this award are due to OSFM by March 1 of each year.

The award recipients in 2020 were:

- Deputy District Chief Walter Schroeder – Chicago Fire Department
- Robert Wetzels – OSFM Administrative Staff
- Mitch Kushner – OSFM Operational Staff



National Fire Incident Reporting System

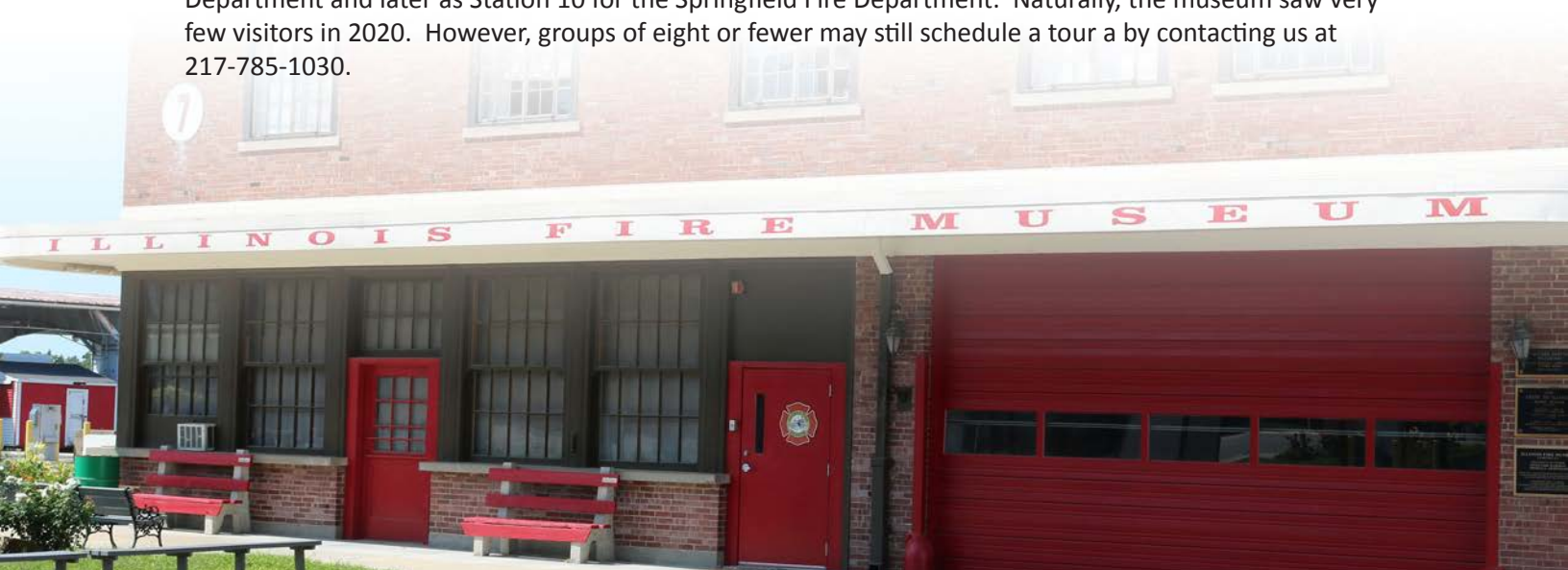
The Fire Investigation Act (425 ILCS 25) mandates that all Illinois fire chiefs investigate and report all fires to the Office of the Illinois State Fire Marshal. The statute requires that this reporting be in compliance with the National Fire Incident Reporting System’s (NFIRS) standards. All fire departments are required to be compliant with their NFIRS reporting in order to qualify for any state or federal grants.

The Division provides technical guidance to users to assist them in completing their reports, and generates monthly reports on department compliance and invalid reports.

In 2020, the US Fire Administration which oversees the system, released the new “eNFIRS” system. This update resulted in a nearly month long outage of the system and numerous issues once the new system came online. The division faced an incredibly large number of requests for assistance from Illinois fire departments. In addition to issues with the system itself, most vendors of third party software used by departments had not prepared their products to comply with the 2015 specification would be enforced. In 2020, over 1.4 million reports were submitted by fire departments in Illinois. More information about Illinois NFIRS can be found at: www.sfm.illinois.gov/Fire-Service/NFIRS

Illinois Fire Museum

The Illinois Fire Museum is located on the state fairgrounds in Springfield, on the corner of Main and Central Avenue. Originally built in 1938, it served as the fire station for the Illinois State Fair Fire Department and later as Station 10 for the Springfield Fire Department. Naturally, the museum saw very few visitors in 2020. However, groups of eight or fewer may still schedule a tour a by contacting us at 217-785-1030.



Public Outreach

The agency acts as the state representative for the National Fire Protection Association's (NFPA) Public Education Network. Educational materials and information are provided to fire departments to assist them in their public education efforts.

The OSFM uses social media venues such as Facebook, Twitter and YouTube to promote communication, enhance fire prevention outreach, streamline processes and communicate the agencies mission to the fire service and public. A monthly newsletter, Marshal Matters, is also produced as a way to provide information about the latest news, programs, and other important information coming from the OSFM to the Illinois fire service.

 [OSFM's Facebook page can be found here](#)

 [OSFM's Twitter page can be found here](#)

 [OSFM's YouTube Page can be found here](#)

OSFM has a segment called Coffee with the Fire Chief. Fire Marshal Perez sits down with the Fire Chief to learn about the different departments and districts across Illinois, while exploring what makes them unique and other innovative programs they are offering. Episodes can be found by visiting <https://www2.illinois.gov/sites/sfm/News/Pages/Coffee-with-the-Chief.aspx>.

The Office of the Illinois State Fire Marshal has a presence at both the Illinois and Du Quoin State Fairs. Interactive fire prevention exhibits are designed to help parents and children understand the importance of fire safety in the home. In Springfield, agency personnel support our fire service partners as they provide fire safety education and entertainment to thousands of children. While in DuQuoin, our office leads the fire safety campaign with assistance from local fire departments from across southern Illinois. The goal of this campaign is to help reduce fire-related injuries and deaths across Illinois.



LEGISLATIVE AFFAIRS

2020 Statute Changes

No statutory changes specifically affecting OSFM were made law during 2020. OSFM will continue to work with the legislature during 2021 to address statutory changes affecting the OSFM.

2020 Rule Changes

The OSFM updated agency-related administrative rules through the Joint Committee on Administrative Rules (JCAR) process in the following sections:

41 Ill. Adm. Code 2120 Boiler and Pressure Vessel Safety

This rulemaking updated the editions of referenced codes within the Boiler and Pressure Vessel Safety rules.

Advisory Boards, Committees and Commissions

Illinois Fire Advisory Commission

The Illinois Fire Advisory Commission is a statutorily created body (20 ILCS 2905/3) that provides advice, counsel and assistance to the State Fire Marshal on matters related to the exercise of powers and duties of the agency. Commission members are appointed by the Governor for a term of three years. Appointed members of the Commission include three professional, full-time, paid firefighters, one volunteer firefighter, one Fire Protection Engineer who is registered in Illinois, one representative of the insurance industry, one Engineer with knowledge of the fire sprinkler industry and one Engineer with knowledge of the fire alarm and fire extinguisher systems, and three persons with interest and knowledge in the fire prevention methods. In addition to the appointed members, the following individuals serve in an ex officio capacity: Chicago Fire Commissioner, executive officer of the Illinois Fire Chiefs Association, executive officer of the Illinois Association of Fire Protection Districts, executive officer of the Illinois Fire Inspectors Association, executive officer of the Illinois Professional Firefighters Association, executive officer of the Illinois Firemen's Association, executive officer of the Associated Firefighters of Illinois, executive officer of the Illinois Society of Fire Service Instructors, and the head of the Illinois Fire Service Institute. Members of the Commission do not receive compensation but are reimbursed for travel expenses.

Fire Fighting Medal of Honor Committee

The Committee is statutorily (20 ILCS 3985/3001) responsible for developing an annual award program to recognize firefighters who were killed, seriously hurt, or displayed exceptional bravery or heroism in the line of duty, working with firefighting organizations in the state to design, develop, and procure a Fire Fighting Medal of Honor and selecting an appropriate date or occasion for presentation. The Committee consists of ten members. There are two statutorily designated members – the State Fire Marshal and Chicago Fire Commissioner – and eight members appointed by the Governor. The members appointed by the Governor include: three fire chiefs from areas other than Chicago, three representatives of statewide firefighter organizations, and two retired Illinois firefighters. Fire chiefs serve a two year term while all other appointments serve a one year term. Members of the Committee do not receive compensation but are reimbursed for travel expenses.



Board of Boiler and Pressure Vessel Rules

This statutorily created Board (430 ILCS 75/2) is responsible for formulating definitions, rules and regulations for the safe and proper construction, installation, repair, maintenance, alteration, inspection, use, and operation of boilers and pressure vessels in the state. The Board also establishes fees for examinations, commissions, inspection certificates, inspections, annual statements, shop inspections, and other services. The Board consists of seven members appointed by the Governor who serve a term of four years. Members of the Board include: representative in state owners of high pressure boilers and pressure vessels in utilities, manufacturing, or processing, representative in state owners and users of low pressure vessels in commercial buildings, multiple housing, or hotels, representative of

boiler manufacturers in state, representative of a boiler insurance company licensed to insure boilers and pressure vessels in the state, representative of the boilermakers, representative of the steam operating

engineers, and one mechanical engineer, registered in Illinois, on the faculty of and engineering college, or equivalent experience. Members of the board do not receive compensation but are reimbursed for expenses.

Elevator Safety Review Board

This statutorily created Board (225 ILCS 312/25) reviews and adopts rules for the enforcement of the Elevator Safety Act. The Board also has the authority to grant exceptions and variances, hear appeals, hold hearings, establish fee schedules, and authorize licenses. The Board consists of 17 members who are appointed to four year terms, with three members appointed by the State Fire Marshal and 14 members appointed by the Governor. Members of the Board include: three representatives of the fire service community, one representative from a major elevator manufacturing company or its authorized representative, one representative from an elevator servicing company, one representative of the architectural design profession, one representative of the general public, one representative of an advocacy group for people with physical disabilities, one representative of an advocacy group for senior citizens, one representative nominated by a municipality in this state with a population under 25,000, one representative nominated by a municipality in this state with a population of 25,000 or over but under 50,000, one representative nominated by a municipality in this state with a population of 50,000 or over but under 500,000, one representative of an advocacy group for condominium owners, one representative of an institution of higher education that operates an in-house elevator maintenance program, one representative of a building owner or manager, and two representatives of labor, involved in the installation, maintenance, and repair of elevators - one from Cook County and one from a county in the state other than Cook County. Members of the Board do not receive compensation but are reimbursed for expenses.



DIVISION OF ARSON INVESTIGATION



The mission of the Division of Arson Investigation is to provide fire investigation and law enforcement services to the fire service and federal, state, and local law enforcement agencies throughout the State of Illinois through complete and thorough investigations, evidence collection and professional expert testimony in court proceedings.

The Division is responsible for investigating suspicious fires and explosions as well as providing fire and explosion origin and cause investigations when requested by the fire service and law enforcement agencies throughout the state. Nationally, arson (and suspected arson) is the primary cause of property damage due to fire in the United States, and the second leading cause of fire deaths. To combat this serious problem,

certified arson investigators respond to assist fire departments, law enforcement agencies, communities and state and federal agencies 24 hours a day, 7 days a week. Reports of potential arson fires can be made via a 24-hour, toll free Arson Hotline number at (800) 252-2947. When the requesting agency calls the hotline, they are immediately connected with an arson duty investigator who has authority to dispatch an arson investigator anywhere in the state, anytime, day or night.

Arson investigators are sworn peace officers authorized to conduct fire and explosion origin and cause investigations, interview witnesses and suspects, conduct follow-up investigations, execute search warrants, collect evidence, make arrests and testify in court.

Also available are seven canine teams consisting of a certified arson investigator and a certified ignitable liquid detecting canine. Canines can detect minute traces of ignitable liquids often used in fires and can lead investigators to a specific location where physical samples can be secured, analyzed and confirmed by special laboratories.

Arson investigators and canine teams investigate on average over a thousand fires each year. Together with federal, state, county and local law enforcement agencies, many arsonists are arrested annually. Their service to the state is invaluable, especially in the rural areas where fire departments do not have certified fire and/or arson investigators.

Arson investigators attend many hours of continuing education classes and seminars each year. This increases their knowledge and expertise of fire investigation and law enforcement training.

The Division of Arson Investigation uses the Bomb Arson Tracking System (BATS) for case management and investigations. BATS is a secure web-based system that links agencies to the United States Bomb Data Center (USBDC), which is a nationwide repository of arson and explosives incidents.

The Youth Fire Setter Intervention Program is now being administered by the Arson Division. The agency had 36 requests for an interventionist in 2020. The agency also put on three Youth Fire Setters Interventionist training classes and is working on adding several more training classes throughout the state in 2021. Inquiries regarding Youth Fire Setters should be done through the Youth Fire Setter Intervention Hotline number at (844) 689-7882.

Division Statistics

Full-Time Equivalent Staff (as of 12/31/20)	18
Investigations Conducted	1051
Canine-Assisted Investigations	230
Cases Closed With An Arrest	53
Cause and Origin – Incendiary	355
Cause and Origin – Accidental	135
Cause and Origin – Undetermined/Under Investigation	542
Cause and Origin – Explosion	5
Cause and Origin – Natural	0
Fatalities	81



DIVISION OF BOILER AND PRESSURE VESSEL SAFETY

The Division of Boiler and Pressure Vessel Safety regulates the construction, installation, repair, use and operation of boilers and pressure vessels and oversees in-service inspections of pressure equipment as mandated by the Boiler and Pressure Vessel Safety Act (430 ILCS 75). Currently, there are 99,457 active boilers and pressure vessels in this program which require professional inspections at different intervals. Professional safety inspections are performed on boilers and pressure vessels that are typically used to generate steam to heat in schools, churches, hospitals, nursing homes, office buildings, and places of public assembly, retail locations, apartment buildings, manufacturing facilities, utility plants, refineries, chemical plants, and any other location type in Illinois where pressure equipment is utilized. Inspections identify hazards and provide an opportunity for repair to ensure public safety by preventing accidents caused by explosions and leakage.

The Division is also responsible for administering the Illinois Boiler and Pressure Vessel Repairer Act (225 ILCS 203). There are total of 146 companies authorized under the Act to perform repairs and alterations to pressure equipment. These companies are required to be audited every three years under this program.

The Board of Boiler and Pressure Vessel Rules is responsible for formulating definitions, rules and regulations for the safe and proper construction, installation, repair, maintenance, alteration, inspection, use, and operation of boilers and pressure vessels in the state. The Board also establishes fees for examinations, commissions, inspection certificates, inspections, annual statements, shop inspections, and other services.

Division Statistics

Full-Time Equivalent Staff (as of 12/31/20)	19
Inspections Performed	41,583
Violations Issued	6,440
% of Inspections That Are Past Due-State	1.32%
% of Inspections That Are Part Due-Insurance Companies	2.19%
Audits Conducted	26
Commissions Issued – New and Renewals	239
Repair Permits Issued	121
Repair Firm Licenses Issued – New and Renewals	48
Fees Collected	\$3,364,956.44



DIVISION OF ELEVATOR SAFETY

The Division of Elevator Safety enforces the Elevator Safety and Regulation Act (225 ILCS 312). The Act requires that the design, construction, operation, inspection, testing, maintenance, alteration, and repair of elevators, dumbwaiters, escalators, moving sidewalks, platform lifts, stairway chairlifts, and automated people conveyances are in accordance with all applicable statutes and rules.

The Division also issues licenses to contractors, inspectors, mechanics, apprentices and helpers and inspection companies.

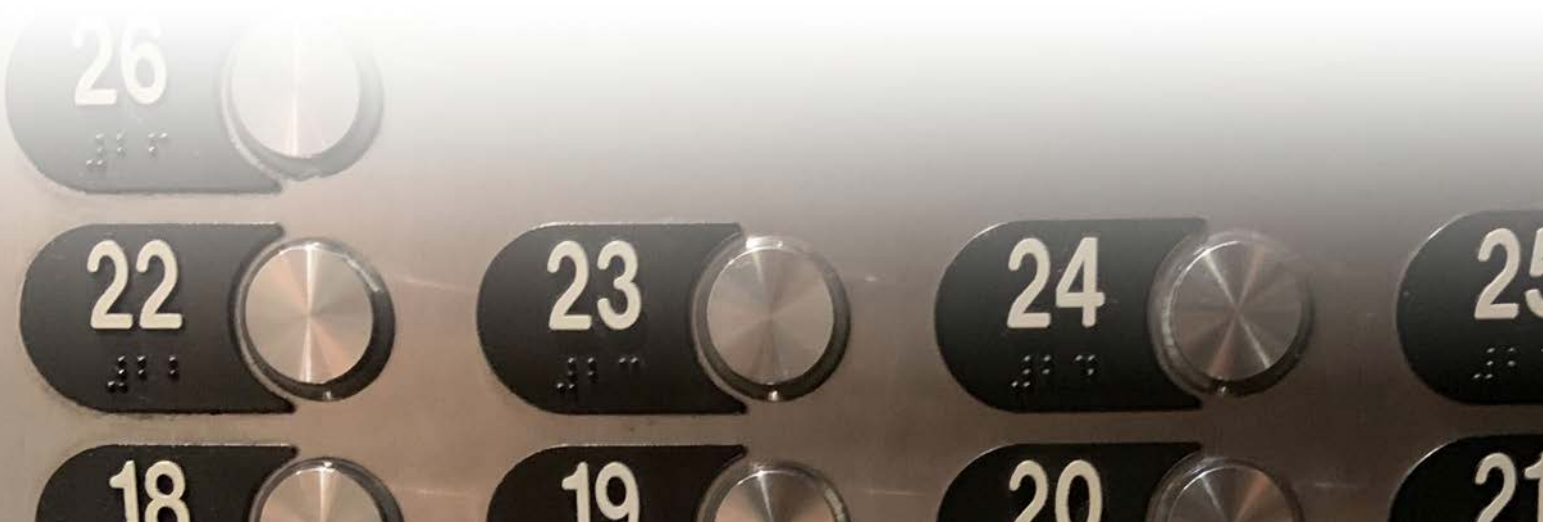
The Elevator Safety Review Board approves rules for the administration and enforcement of the Act. The Board has the authority to hear appeals on exceptions and variances and, depending on the outcome, grant or deny an exception for a variance, hold hearings, establish fee schedules, approve continuing education programs, and authorize all licensing.

Elevator inspectors work in the field making random checks for registration tags, checking the work of licensed inspectors, and checking mechanic licenses. Inspectors also visit municipalities that have agreements with the agency to enforce the Act to ensure that they are abiding by all relevant laws and rules. Additionally, inspectors investigate incidents and accidents, which are given the highest priority. Any complaint received is also given priority attention.

There are 36,694 registered conveyances in the state. Of this total, 14,286 are under state jurisdiction, and 22,408 are under the jurisdiction of the 179 municipalities with an agreement with the agency.

Division Statistics

Full-Time Equivalent Staff (as of 12/31/2020)	10
Permits Issued	469
Certificates of Operation Processed	10,904
Conveyances Registered	462
Licenses Processed	639
Fees Collected	\$1,243,000



DIVISION OF FIRE PREVENTION

Inspections

The Division of Fire Prevention is charged with ensuring no building endangers persons or property by reason of faulty construction, age, lack of repair, or any other cause that would make it especially susceptible to fire. Under the authority granted in the Fire Investigation Act (425 ILCS 25), the Division conducts fire safety inspections in accordance with the applicable laws and administrative rules adopted to ensure such fire safety. These inspections primarily concentrate on state-owned or regulated facilities including day care centers and group day care homes licensed by the Department of Children and Family Services, the Illinois Department of Aging, Correctional Centers, public schools (in cooperation with the Illinois State Board of Education), race tracks regulated by the Illinois Racing Board, permanently moored gaming facilities regulated by the Illinois Gaming Board, and telecommunications switching offices. Enforcement also ensures compliance with regulations pertaining to LP-gas tanks larger than 2,000 gallons in capacity or at any installation intended for purposes of dispensing LP-gas, and inspection of aboveground bulk and dispensing tank installations of flammable and combustible liquids.



The Division also concentrates its efforts on certain “target” hazards, including the inspection of hotel/motel occupancies, and any occupancy where a fire hazard has been reported by the local fire authority or the general public. The *Life Safety Code* published by the National Fire Protection Association (NFPA), has been adopted as Illinois’ rules for fire prevention and safety and serves as the primary enforcement tool of the Division of Fire Prevention when conducting building inspections. The Division also regulates the storage of volatile liquids, the handling and storage of liquefied

petroleum gases, furniture fire safety regulation, and fireworks storage.

The Division also does inspections at the Illinois State Fair in Springfield and the Du Quoin State Fair. Fire inspections are conducted at public assembly areas, livestock barns, buildings, exhibits, concession areas, and tents prior to and during each of the events. Fire Prevention personnel provide fire awareness training to vendors and grounds security workers. Fire Prevention personnel also conduct routine fire patrols of the entire grounds of each facility.

Furniture Fire Safety Regulation

The enforcement of the Furniture Fire Safety Act (425 ILCS 45) is also the responsibility of the Division of Fire Prevention. The Division enforces regulations on the manufacture, sale, and use of upholstered seating furniture in specific occupancies including day care centers, prisons, hotels/motels, health care facilities, and public assembly occupancies.

Licensing

The Fire Prevention Licensing section licenses and oversees the regulatory compliance for several industries including Fire Sprinkler Contractors, Fire Equipment Distributors and Employees, Pyrotechnic Distributors and Operators, and registration of Consumer Fireworks Retailers and Distributors.

Fire Sprinkler Contractor Licensing

Any individual or business entity that installs, maintains, repairs or inspects any fire sprinkler system in Illinois must be licensed as a Fire Sprinkler Contractor by the Office of the State Fire Marshal in accordance with the Fire Sprinkler Contractor Licensing Act (225 ILCS 317). This Act establishes minimum standards for licensure and qualification for Fire Sprinkler Contractors and their employees who design, inspect and test water-based fire protection systems. OSFM regulates the licensing and compliance for approximately 220 Sprinkler Contractors and their employees state wide.

Fire Equipment Distributor and Employee Licensing

Individuals and business entities who sell, install, service, maintain or test fire extinguishers and fixed chemical-based fire protection systems are licensed as Fire Equipment Distributors under the Fire Equipment Distributor and Employee Regulation Act (225 ILCS 217). This also requires Fire Equipment Employees be certified at the appropriate level and licensed to perform fire equipment installation or service work in Illinois. The scope of this program includes fire extinguishers, pre-engineered restaurant/ industrial suppression systems, and complex engineered extinguishing systems in state-of-the-art data and communication centers. OSFM regulates the licensing and compliance for approximately 180 Fire Equipment Distributors and over 700 licensed Fire Equipment Employees in various classifications

Pyrotechnic Distributor and Operator Licensing and Consumer Fireworks Regulation

Individuals and business entities that engage in the possession, use, distribution, and display of all types of fireworks, pyrotechnics, and flame or special effects must be licensed or registered in accordance of the Pyrotechnic Use Act (425 ILCS 35) and/or the Pyrotechnic Distributor and Operator Licensing Act (225 ILCS 227).

Individuals or business entities that possess, use, distribute, or display professional grade fireworks and pyrotechnics, including flame and special effects, must be licensed with OSFM. The scope of this licensing program includes traditional outdoor aerial fireworks, stage and entertainment special effects for theaters, concerts, festivals, and sports venues, as well as the television and movie industry.

Licensing includes verification of training, experience, compliance with concurrent federal, state and local regulations, as well as industry standards for performance and indemnity. OSFM licenses and provides regulatory compliance for approximately 60 Pyrotechnic Distributors and Production Company Distributors, along with 450 Lead Pyrotechnic Operators, and nearly 3000 Pyrotechnic Assistants.

All professional pyrotechnic displays must be reported to the OSFM.



Individuals or business entities that distribute Consumer Fireworks to the public must, in addition to securing local authorization, register with OSFM as a Consumer Fireworks Distributor/ Retailer. OSFM registers over 100 seasonal Consumer Fireworks Retailers/Distributors annually throughout the state.

As part of the oversight of the Fireworks industry, OSFM provides training and other resources to local jurisdictions that permit pyrotechnic displays and/or consumer fireworks sales. OSFM also collects data related to injuries associated with fireworks and pyrotechnics from hospitals and healthcare providers throughout the state. The greatest portion of these injuries are associated with the use of fireworks by the general public.

During the reporting time period in 2020 (June 23 through July 20) the Division received reports from 89 hospitals and facilities. Information on those reports is provided below.

	2019	2020
Fatalities	1	0
Injuries Reported	126	156
Major Causes of Injuries		
Sparklers – Wire/Wood Core	26	19
Unknown Type	26	32
Mortars	23	55
Firecrackers	16	6
Sky/Bottle Rockets	11	14
Leading Locations of Injuries		
Hands	56	65
Head/Face	31	30
Fingers	20	21
Arms	18	24
Leading Types of Injuries		
Second Degree Burns	49	57
Abrasions	28	24
Lacerations	27	23
Other Injuries	26	24
Dismemberment/Amputation	12	19

Division Statistics

Full-Time Equivalent Staff (as of 12/31/20)	24
Inspections Performed	11,325
School Inspections Performed by Division Personnel	1336
School Inspections Performed by Local Fire Departments	887
% of School Inspections Completed Within the Statutorily Mandated One-Year Timeframe	79%
Inspections Performed –State Fairs (the state fairs were canceled in 2020)	0
Fire Equipment Distributor Companies Licensed	181
Fire Equipment Distributor Employees Licensed	675
Fire Sprinkler Contractors Licensed	206
Pyrotechnic Distributor Companies Licensed	38
Pyrotechnic Operators Licensed	452
Pyrotechnic Use Act- Consumer Retailers	103
Production Companies Licensed	19
Fees Collected	\$270,660

DIVISION OF PETROLEUM AND CHEMICAL SAFETY

The mission of the Division of Petroleum and Chemical Safety (P&CS) is to protect against threats to human safety and contamination of the environment that can occur by the underground storage of petroleum products and other hazardous substances through prevention, education, and enforcement.

To protect public health and safety, P&CS regulates Underground Storage Tanks (USTs) containing petroleum products and other hazardous substances. In order for fuel to be deposited in USTs facilities must pass a certification audit, which is done every two years.

The division works under a comprehensive program combining federal and state laws and rules to regulate UST system management, fuel dispensing, UST installation, repair and removal, emergency response, and financial responsibility requirements.

Additionally, the Division administers the state Eligibility and Deductibility (E&D) program. The Division utilizes an online process for the submission of applications in order to expedite and streamline this process. This is the first step for UST owners to follow when they have had a release or contamination incident and they wish to access the Leaking Underground Storage Tank Fund (LUST Fund). The LUST Fund is administered by Illinois Environmental Protection Agency (IEPA), but screening for eligibility to access the LUST Fund and determining the deductible amount is done by P&CS staff. Requests are forwarded to IEPA after approval by P&CS for final processing.

The Division is also responsible for overseeing the Financial Responsibility program. As with the E&D program, P&CS utilizes an online process to allow for Financial Responsibility reporting. Financial Responsibility reports are required pollution liability policies UST facility owners must have in case of environmental or third-party property and personal injury damages caused by product releases from USTs. While the bulk of the coverage for post-release corrective action and remediation comes from the State LUST Fund per statute, the United States Environmental Protection Agency (USEPA) requires the agency to ensure owners and operators of UST facilities demonstrate a current policy providing at least \$20,000 of supplemental liability insurance to cover expected gaps for costs related to corrective action and third party bodily injury and third party property damage.

The agency implemented its revised state UST regulations on October 13, 2018 that reflected the changes in the updated federal UST regulations that were released in 2015. States may use more stringent regulations of USTs, state regulations though cannot be less stringent.

In order to assist states in enforcing federal UST regulations, the USEPA provides grants to states. Grants are generally awarded in two-year cycles and can be used on any UST related activities that are approved by the USEPA. In October 2019 the agency was awarded more than \$1.6 million in federal funds from the USEPA to support the agency's enforcement of federal UST laws and regulations. The grant covers the period from October 1, 2019 to September 30, 2021. Funding from the current USEPA grant is being used to partially cover the salaries and benefits of the state Storage Tank Safety Specialists, to continue the development and maintenance of the P&CS UST information technology system, to purchase other miscellaneous supplies used by the division in enforcing UST laws and regulations.

While the agency has the responsibility for enforcing federal and state UST laws and regulations, that enforcement mandate has been delegated by the agency to the City of Chicago for all USTs located within the city. UST regulation in Chicago is done by the Chicago Department of Public Health (CDPH). The agency provides a \$550,000 grant to CDPH for the operation of the UST program in the City of Chicago.

Full-Time Equivalent Staff (as of 12/31/20)	25
Active Tanks Registered	19,009
UST Inspections Conducted	9,240
UST Inspections Conducted – City of Chicago	1,340
Field Investigations	280
Field Investigations – City of Chicago	23
UST Emergency Responses	3
UST Emergency Responses – City of Chicago	0
Initial Facility Certification Audits Performed	2,897
Initial Facility Certification Audits Performed – City of Chicago	354
% of UST facilities in Compliance with USEPA Began Reporting on new measure in 2019	29%
UST Permits Granted	1,688
UST Permits Granted – City of Chicago	337
Motor Fuel Dispensing Permits Approved	130
Motor Fuel Dispensing Facilities Inspected	3,318
Motor Fuel Dispensing Facilities Inspected – City of Chicago	395
Financial Responsibility Reports Processed	3,583
Eligibility and Deductibility Applications Processed	331
% of Eligibility and Deductibility Applications Processed Electronically	100%
% of Permit Applications Processed Electronically	100%
Notice of Violations Issued (NOVs) Issued	2,463
Notice of Violations Issued (NOVs) Issued – City of Chicago	352
Motor Fuel Dispensary NOVs Issued	593
Motor Fuel Dispensary NOVs Issued – City of Chicago	107
Facilities Red Tagged	975
Facilities Red Tagged (City of Chicago)	50
Cases Referred to Agency Legal Staff for Non-Compliance	295
Cases referred to the Illinois Attorney General for Non-Compliance	0
Enforcement Cases Resolved	1737
UST Equipment and Testing Forms Processed	18,359
Complaint Investigations	34
Complaint Investigations – City of Chicago	6
Fees and Fines Collected	\$548,360.50

PERSONNEL STANDARDS AND EDUCATION

The Division of Personnel Standards and Education (DPSE) is responsible for the standardization and enhancement in the levels of education and training for firefighters and professionals in Illinois with the highest priorities placed on safety and career advancement. It operates under the mandate of the Illinois Fire Protection Training Act (50 ILCS 740), which provides for the promotion of standards to protect the health, safety and welfare of the public.

The Division operates with 5 full-time and 11 intermittent staff members.

The Division continues to update certification programs to comply with current National Fire Protection Association Standards and applicable needs of the fire service.

DPSE has embarked on a new online training endeavor producing a series of training videos and training short videos. These videos focus on the DPSE portal and help to answer some of the most commonly asked questions. Training videos are available by visiting: <https://www2.illinois.gov/sites/sfm/About/Divisions/Personnel-Standards/Pages/TrainingTutorialVideos.aspx> or on the OSFM's YouTube Channel.

During 2020, the Division dispersed \$950,000 to local fire departments and fire protection districts for claims for reimbursement. The division processed 1,024 claims for a total of 96,537 hours of training to 79 departments.

The Division also processed 6,584 certifications and administered 6,868 examinations to Illinois firefighters.



TECHNICAL SERVICES ANNUAL REPORT 2020

The Technical Services Section of the Office of the State Fire Marshal (OSFM) supports other operating divisions within the OSFM as well as the fire service and general public with technical and engineering expertise in the form of code interpretation and plan and application review. Technical Services also provides expert advice in the agency's rulemaking processes for a variety of subjects, including aboveground tank storage regulation, liquified petroleum-gas (LP-gas) regulation, motor fuel dispensing facility operation, fire and life safety rules, safe cigarette rules, and myriad of other fire protection and petroleum and chemical safety-related issues.

Personnel in this section are supervised by the Section Chief, who is a fire protection engineer and reports to the Fire Prevention Division Manager. Technical Services personnel conduct plan reviews, assist with interpretations of applicable codes, assist operating divisions with the development of training sessions and the instruction of field personnel at those sessions, and create online training programs for Illinois fire service personnel. Technical Services personnel perform special functions for the OSFM, including representation on state and national code committees and task forces as well as making presentations to the public and the regulated community on technical issues. Additionally, staff accompany Fire Prevention Division inspectors on field inspections to assist in developing compliance strategies for more challenging facilities. The work of the Technical Services Section is conducted from the Chicago office of the OSFM at the James R. Thompson Center and the OSFM headquarters in Springfield.

On March 16, 2020 the Technical Services Division staff was advised that they would have to work from home as a part of Restore Illinois starting on March 17, 2020. The Technical Services Division adjusted quickly to working from home and remained busy performing the activities described above, except for assisting the Fire Prevention Division with inspections and providing training on performing public school inspections. On June 26, 2020 Phase 4 of Restore Illinois started and Technical Services staff was issued PPE and was given permission to start assisting Fire Prevention Division on inspections when asked. The Section Chief started working from the Thompson Center on Wednesdays while the remaining staff continued to work from home.

Technical Services staff participate in ongoing continuing education to maintain and improve their credentials, including working towards NFPA Certified Fire Protection Specialist.

Details of Specific Work

1. Reviewed plans and applications submitted for installation or modification of
 - Aboveground flammable and combustible liquid storage tanks
 - Liquefied petroleum gas tanks
2. Reviewed architectural and engineering drawings of new construction, renovations, and additions for compliance with state codes, including submittals relative to
 - Life Safety Code compliance
 - Fire alarm system installation or modification
 - Fire sprinkler system installation or modification as well as review of existing water supplies
 - Commercial kitchen hood and duct exhaust systems
 - Other specialized suppression system installation or modification
3. Analyzed Fire Safety Evaluation Systems (FSSES) that offer building owners in certain occupancy classifications alternative methods for proving equivalent life safety in nonconforming structures
4. Analyzed Prison Fire Safety Plans submitted for Illinois correctional and transitional facilities
5. Prepared technical recommendations for the Fire Marshal to assist in his response to variance requests

6. Prepared and delivered training programs and materials for members of the agency's field inspection workforce to familiarize them with applicable codes and changing technologies in an effort to ensure consistency in code enforcement across the state
7. Assisted Fire Prevention Division inspectors attain NFPA Fire Inspector I and II certification.
8. Delivered new Fire Prevention Division inspector training
9. Maintained a new online training program, released to Illinois fire service in December 2018, for local fire department personnel, to upgrade the existing knowledge of the Illinois firefighter, who does not have formal inspection training or certification for performing the inspections that are required by the Fire Investigation Act (425 ILCS Fire 25/9). Began working with the Illinois Fire Service Institute on transferring this program to one of their platforms.
10. Assisted with the implementation of our adoption of NFPA 101 (2015), which became effective on January 1, 2020.
11. Assisted with the development of rules and statutes, either for the OSFM or other state agencies.
12. Provided training to AHJs so they could become Qualified Fire Officials and participate in the public school inspection program that is the OSFM's responsibility
13. Participated in the ongoing update of the Health/Life Safety glossary and checklists used for the public school inspection program
14. Represented the OSFM on state and national working groups and code development committees related to fire prevention, life safety, and hazardous materials issues, including the National Fire Protection Association (NFPA) technical committees, as follows:
 - Member of the Technical Committee for NFPA 101 Life Safety Code and NFPA 5000, Building Construction and Safety Code, Chapters on Fire Protection Features, as well as Educational and Day Care Occupancies
 - Chair of hazardous materials sub-committee of the Technical Committee for NFPA 1 Fire Code
 - Chair of NFPA's Technical Committee for Hazardous Waste Operations
 - Member of the Underwriter's Laboratories Standard Technical Panels related to flammable refrigerants (60335-2-40 and 60335-2-89)
 - Member of CANENA's Working Groups for multinational harmonization for flammable refrigerants (WG 60335-2-40 and WG 60335-2-89)
 - Member of Flammable Refrigerant Safe Transition Task Force
 - Member of the National Association of State Fire Marshal's Model Code Committee
 - Participated on the ICC-International Fire Code's Fire Code Advisory Committee related to valet trash and flammable refrigerants.
15. Assisted the Fire Prevention Division with difficult or controversial inspections
16. Prepared statistical data reports and legislative reports as required by executive administrative staff
17. Provided assistance in appeal hearings, subpoenas, and court cases



Breakdown of Work for 2020

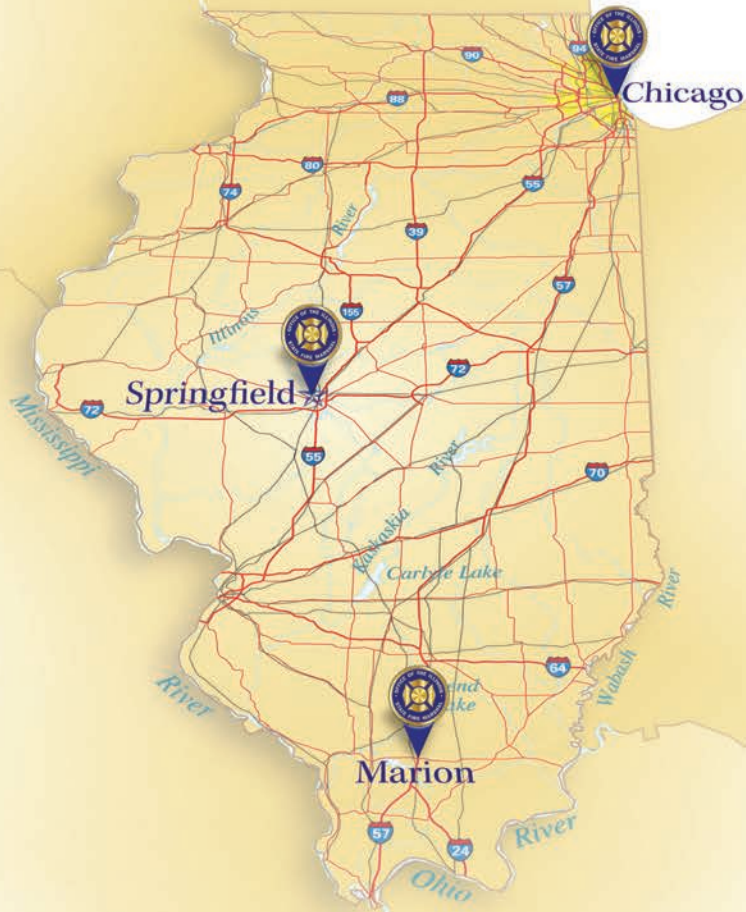
Aboveground flammable liquid storage tank plan and application reviews	472
LP-gas tank plan and application reviews	82
Building construction, fire suppression system, fire alarm system plan reviews, and FSES evaluations	162
Prison fire safety plan reviews	29
Variance requests analyzed	19
Percentage of plan reviews completed in ≤ 10 days	97.7%
Training contact hours provided to the OSFM and local fire service personnel (presentation and preparation)*	280
Total of telephone, email, and written inquiries and meetings with occupancy owners, enforcement agencies, contractors, architects, and engineers relative to applicable rules, interpretations of codes, and explanation of OSFM policies and procedures	9,342

*Number of hours provided reduced due to COVID-19 restrictions

2019 FIRE STATISTICS REPORT

- Illinois fire departments responded to 1,382,996 incidents in 2019.
- 34,450 of those incidents were fires including 15,803 structure fires.
- These fires resulted in nearly \$412 million in property damage.
- 110 persons were killed in Illinois due to fire.
- 87% of all fire deaths occurred in the home.
- Half of all fatal fires were in buildings where either no smoke alarms were present or could not be found.
- A fire is reported every 15 minutes in Illinois.
- In 2019, Illinois saw a 19.1% reduction in property damage and 8.3% fewer fires compared to 2018.
- The number one reported cause of fires in Illinois is cooking.
- Illinois fire departments responded to 958,351 medical emergencies.





State of Illinois
Office of the Illinois State Fire Marshal
www.sfm.illinois.gov