

O S T E M



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State of Illinois

OFFICE OF THE
ILLINOIS
STATE
FIRE
MARSHAL
2013
ANNUAL REPORT

DEDICATED TO THE FIREFIGHTERS OF ILLINOIS WHO HAVE GIVEN
THEIR LIVES IN THE LINE OF DUTY AND TO THOSE WHO
HEROICALLY SERVE WITH COURAGE, PRIDE AND HONOR



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OFFICE OF THE ILLINOIS STATE FIRE MARSHAL

February 25, 2014

TO GOVERNOR PAT QUINN AND MEMBERS OF THE 98TH GENERAL ASSEMBLY:

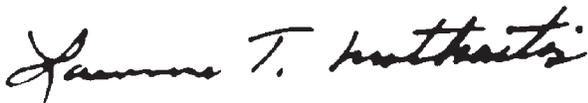
In keeping with our mission as “dedicated to working with our partners and providing assistance to the fire services in the protection of life, property, and the environment through communication, inspection, investigation, certification, and licensing,” the Office of the State Fire Marshal is meeting the challenge.

As you read this report, you will see we have had a very successful year. My dedicated staff works diligently in their efforts toward fulfilling all of our initiatives; we are meeting our federal and state mandates, and serving the citizens in the state of Illinois.

The accomplishments noted in our report would not have been possible without the support and commitment of the Governor’s Office and the members of the General Assembly. On behalf of the citizens of Illinois, I would like to thank you and commend your efforts.

I would respectfully ask you to accept this submission of the Annual Report for the Office of the Illinois State Fire Marshal for the year 2013.

Respectfully,

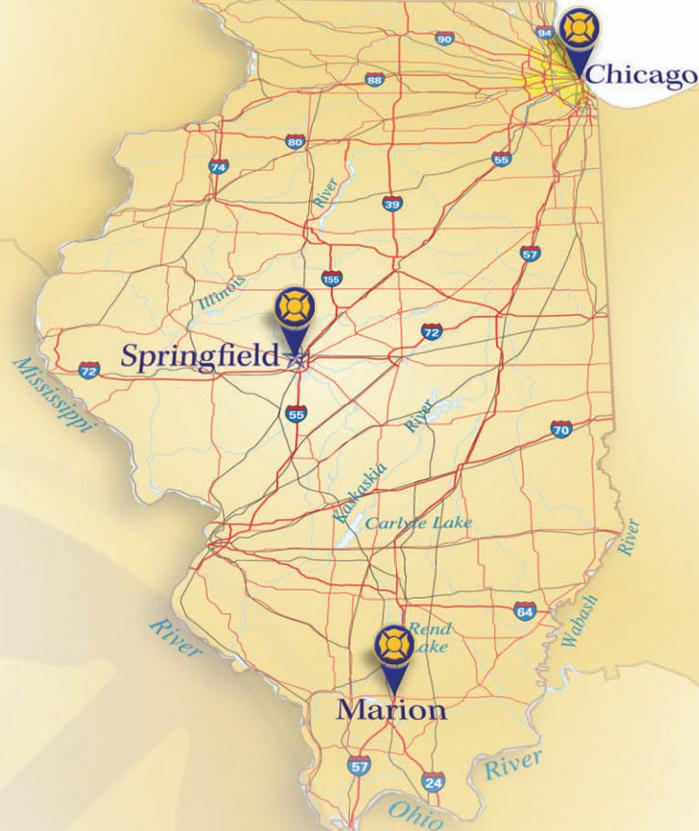


Lawrence T. Matkaitis
Illinois State Fire Marshal



2013 | ANNUAL REPORT

OSFMI



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Contents

1 | Arson Investigation

2 | Boiler & Pressure Vessel Safety

3 | Elevator Safety

5 | Fire Prevention

7 | Personnel Standards & Education

8 | Petroleum & Chemical Safety

9 | Public Education & Management Services

Fire Equipment Exchange Program

Smoke Alarm Give-Away

Facebook

Illinois Fire Museum

Remembering When™

Risk Watch™

Look Up!

20th Annual Illinois Fallen Firefighter Memorial,

Firefighter Medal of Honor Awards Ceremony

National Fire Incident Reporting System

12 | Special Projects

Small Fire-Fighting and

Ambulance Service Equipment Grant Program

0% and Low-Interest Revolving Loan Programs

13 | Technical Services

14 | Legislation

15 | Advisory Boards & Commissions

16 | Budget



Arson Investigation

The mission of the Office of the Illinois State Fire Marshal, 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 Arson 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 via a 24-hour, toll free Arson Hotline number (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/or explosion origin and cause investigations, interview witnesses and/or suspects, conduct follow-up investigations, execute search warrants and arrest warrants, collect evidence, make arrests and testify in court.

Also available are five 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 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.

2013 Highlights

- The Division of Arson Investigation consists of 18 personnel; including the Division Director, two Administrative Assistants and front line field staff consisting of 15 certified Arson Investigators.
- There were 1,042 incident investigations conducted by Division investigators during 2013, a decrease of 54 investigations from 2012. There were 957 structure fires, 76 vehicles and 9 other incidents investigated.
- Investigations conducted in 2013 resulted in the total of 44 cases being closed with arrest.
- Inquiries regarding juvenile fire setters are referred to the Juvenile Fire Setter Intervention Hotline number, (847) 400-4864. The Juvenile Fire Setter Intervention Program is administered by the Illinois Fire Safety Alliance.
- Arson investigators continue to receive professional development training that will enhance their knowledge and skills in new trends, technology and investigative techniques. Advanced investigation classes were hosted by Office of the State Fire Marshal and attended by the Division's arson investigators and other investigators from Illinois and throughout the nation.
- The Division's web site continues to expand to provide valuable information to other agencies and to the general public.
- The Certified Fire/Arson Investigator Recertification criteria was adopted and implemented in July 2007 and the Division continues to assist with inquiries and assistance relating to the recertification criteria.
- The Division continues to work with interns and Ride-Along participants to provide a hands-on working knowledge of the Division and its function and role in the investigation of arsons throughout Illinois.
- The Division of Arson Investigation uses the Bomb Arson Tracking System (BATS). BATS is a secure web based state-of-the-art case management and

investigation tool that links agencies to the United States Bomb Data Center (USBDC), which is a nationwide repository of arson and explosives incidents.

2013 Canines

In 2013, there were 220 canine assisted cases. That is an increase of 22 cases from 2012 even though the Division was short two canines for most of the year because of retirement. These canines are specifically trained to detect minute traces of accelerants that may be used in arson fires. The Division currently has five certified accelerant detecting canine teams located in Illinois.

2013 Incidents

During 2013, the Division investigated 1,042 incidents. Of those cases, 328 cases were determined to be incendiary, 199 were determined accidental, 514 were listed as undetermined or still under investigation and 1 as having a natural cause. Investigations conducted in 2013 resulted in 44 arrests.

The agency works closely with local, state and federal fire and law enforcement agencies, and the courts, in dealing with the arson problem.

Fire departments in Illinois responded to 34,968 reported fire incidents in 2013. (Illinois NFIRS Data)

There was an estimated \$357 million in property damage in Illinois in 2013. (Illinois NFIRS Data) *This data represents incidents reported by Illinois Fire Departments to the National Fire Incident Reporting System. The Illinois Office of the State Fire Marshal cannot guarantee the completeness or accuracy of this data.*

ARSON FACTS

(Source: Fire Loss in the United States during 2012 NFPA, 8/13)

- U.S. fire departments responded to an estimated 1,375,000 fires in 2012, a slight decrease of 1.0% from the year before.
- 480,500 fires occurred in structures, a slight decrease of 0.8%.
- 365,000 fires or 76% of all structure fires occurred in residential properties.

- 172,500 fires occurred in vehicles, a decrease of 8.0% from the year before.
- 692,000 fires occurred in outside properties, a slight increase of 0.9%.
- What do these fire frequencies above mean? Every 23 seconds, a fire department responds to a fire somewhere in the nation. A fire occurs in a structure at the rate of 1 every 66 seconds, and in particular a residential fire occurs every 85 seconds. Fires occur in vehicles at the rate of 1 every 156 seconds, and there's a fire in an outside property every 46 seconds.
- 2,855 civilian fire deaths occurred in 2012, a decrease of 5.0%.
- About 83% of all fire deaths occurred in the home.
- Nationwide, there was a civilian fire death every 3 hours and 4 minutes and a civilian fire injury every 32 minutes. There were 16,500 civilian fire injuries in 2012. 12,875 of all civilian injuries occurred in home fires.
- An estimated 26,000 intentionally set structure fires occurred in 2012, a decrease of 1.9%.
- These intentionally set structure fires resulted in an estimated 180 civilian deaths, a decrease of 5.3%.
- Intentionally set structure fires also resulted in \$581 million in property loss, a decrease of 3.3%.
- Also in 2012, there were an estimated 12,500 intentionally set vehicle fires, a decrease of 3.9% from a year ago, which caused \$480 million in property damage, a highly significant increase of 445% from a year ago. This increase was mostly due to the intentionally set fire to the USS Miami (submarine) which was in for repairs.

Boiler & Pressure Vessel Safety

2013 Division Highlights

- Performed 47,078 boiler and pressure vessel inspections.
- Wrote 2,354 violations for corrective action.



- Conducted 29 audits and joint reviews for Owner-User organizations, Illinois Authorizations, and National Board "R" Stamp holders.
- Issued 26 new Certificates of Competency to inspectors, and renewed 296 to previously certified inspectors.
- Issued 186 permits for low pressure boiler repairs to authorized repair organizations.
- Issued 5 new licenses to authorized repair firms.
- Collected \$3.9 million in boiler and pressure vessel fees.

Boilers are used to heat schools, hospitals, nursing homes, and other public and private buildings. All are inspected to prevent accidents caused by explosions and leakage. Pressure vessels are routinely inspected in manufacturing facilities, chemical plants, and at other vital locations which fuel the Illinois economy. Inspections identify hazards and provide an opportunity for repair and measures to ensure public safety.

The Division of Boiler and Pressure Vessel Safety regulates the construction, installation, repair, use, and operation of boilers and pressure vessels as mandated by the Illinois Boiler Safety Act. The Division's main responsibility is conducting in-service inspections of pressure equipment. Currently, there are 98,810 active boilers and pressure vessels in this program which require inspections at different intervals. Professional safety inspections are performed on boilers and pressure vessels in schools, churches, hospitals, nursing homes, office buildings, places of public assembly, retail, apartment buildings, manufacturing facilities, utility plants, refineries, chemical plants, and any other type of location in Illinois where pressure equipment is utilized.

Boiler & Pressure Vessel Repairer Act

Another area of responsibility is the administration of the Illinois Boiler and Pressure Vessel Repairer Act. There are a total of 105 companies authorized under this Act to perform repairs and alterations to pressure equipment. These companies are required to be audited every three years under this program. The Division conducted 29 audits during 2013 to ensure licensed repair companies were complying with rules and regulations as prescribed by the Repairer Act.

Boiler Fees

During 2013, the Division had receipts of \$3.93 million for inspections, certificates, repair licenses, commissions, and auditing fees.

2013 Inspections

This joint government/industry inspection program is an effective partnership. During 2013, a total of 47,078 inspections were conducted. OSFM Boiler Safety Specialists performed 23,188 inspections while insurance company inspectors performed 23,835 inspections, and 57 inspections were performed by owner-user inspectors on their own boilers. Inspectors reported 2,354 violations, which required corrective action.

Elevator Safety

PA 92-0873, cited as the Elevator Safety and Regulation Act was originally created and approved by the Illinois General Assembly on January 3, 2003, in order to provide for public safety and awareness in relation to conveyances located within the state of Illinois. The Act requires 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 Office of the State Fire Marshal (OSFM) is named as the administrator of the program and is responsible for ensuring enforcement.

The Elevator Safety Review Board was also created by Public Act 92-0873 to adopt rules consistent with the provisions of the Act and 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 or variance, hold hearings, establish fee schedules, approve continuing education programs, and authorize all licensing.

Since the inception of PA 92-0873, the Elevator Safety and Regulation Act has been amended on four occasions. PA 95-0573 refined the Act, and PA 95-0767 moved mandated conveyance upgrade compliance to 2013 from 2009 and 2011; these were signed on July 29, 2008.

PA 96-0054 updated the Act and moved compliance dates to 2015; this was signed on July 23, 2009. PA 96-0342 removed special purpose personnel elevators within the scope of ASME A17.1, and used only by authorized personnel from the Act; this was signed on August 11, 2009.

Public Act 097-1048 was enacted on August 22, 2012, amending the Regulatory Sunset Act by extending the repeal date for the Elevator Safety and Regulation Act to January 1, 2023, from January 1, 2013, and provides that the upgrade requirements for the restricted opening of hoistway doors or car doors on passenger elevators must be completed by January 1, 2014.

The new Elevator Safety Rules were enacted on October 1, 2012.

ACTIVITY WITHIN THE DIVISION FOR 2013

Registrations, Permits, Certificates of Operation, Municipalities, and Licensing for Calendar Year 2013

(prepared on January 8, 2014)

- The Division now has 33,880 registered conveyances. Of this total, 14,078 are under state jurisdiction, and 19,802 are under the jurisdiction of municipalities with an agreement with the OSFM.
- 437 permits issued.
- 11,809 Certificates of Operation processed.
- 670 conveyances registered.
- 1,365 licenses processed, and the following are active licenses:
 - 89 licensed contractors.
 - 5 limited contractor licenses.
 - 182 licensed inspectors.
 - 1,418 licensed mechanics.
 - 14 licensed limited mechanics.
 - 726 registered apprentices/helpers.
 - 45 licensed inspection companies.

- 172 municipalities have signed an agreement with the OSFM indicating they will continue to run their own elevator program and adopt the codes and rules used by the Elevator Safety Division of the OSFM.

Financial

- Receipts for the period 1/1/2013 thru 12/30/2013 **\$1,631,010.00**

Division Complement

- The processing work for the Division (registrations, the review and issuance of Certificates of Operation, licensing, and permits) is conducted in the Chicago office; 14,078 conveyances need to be inspected and issued certificates on an annual basis.
- The Springfield office processes Elevator Safety files to Document Management.
- This Division's personnel consist of the Division Manager, two clerical staff members, and four field inspectors. One inspector spends one to two days in the office processing and reviewing permit applications.

Work Performed

- Inspectors are in the field making random checks for registration tags, checking the work of licensed inspectors, and checking mechanic licenses. Permits are generated through the Chicago Office, and these are reviewed and issued by one field inspector. All incidents and accidents reported are given the highest priority, and reports are generated as a result of investigations and kept on file. Any complaint received is also given priority attention and, if necessary, site visits are conducted, and additional reports are generated and kept on file. We constantly inform the public of the Elevator Safety Act, our current rules and regulations, and information on conveyances.
- The Division Director frequently appears before various groups informing them of the current Elevator Safety rules and regulations, changes to the Act, and updated code information.
- Meetings of the Elevator Safety Review Board were scheduled every quarter in 2013. They were attended by staff with the Division Director holding the position of Administrator to the Board.

- We continue to refine and upgrade our data entry program, Jurisdiction Online. Upgrades and additional reports are needed and have been developed as we redefine our processes to simplify data entry and to accommodate the additional work being performed by the Division.
- Email addresses continue to be established for all new licensed contractors, inspection companies, and inspectors in order to keep all parties informed about changes to the code, OSFM requirements, Board news updates, and any information pertinent to the smooth operation of the Division. Email addresses have also been established for all municipalities that have an agreement with the OSFM. This is a great cost-saving effort since monies are not expended on mass mailings to contractors, inspectors, and inspection companies.
- Our website is continually updated with news and information from the Elevator Safety Review Board and new information from the Division.
- All licenses are renewed every two years. The Division will process 14,078 certificates of operation in 2014. The field inspectors will have to monitor these conveyances to ensure the Act and the Rules are followed. They will conduct random inspections and visit municipalities under agreement to make certain they are enforcing the Act and Rules. The Division also conducts investigations and complaints from the public.
- The Division Director is a member of the ASME Regulatory Committee.
- Conducted 10,060 on-site inspections at facilities including public and private schools, day care centers, day care homes, residential board and care homes, community integrated living arrangements, hotel/motels, places of public assembly, aboveground storage tank installation sites, and state-owned/operated buildings including correctional centers.
- Continued the practice of conducting fire prevention inspections at the Illinois and DuQuoin State Fairs to ensure fire safety compliance at exhibits, concession stands, tents, and special events during the fairs.
- Conducted a survey of Illinois' hospitals to determine the number and nature of injuries sustained in fireworks accidents during a four-week period that included the Fourth of July holiday.
- Continued the regulation of Pyrotechnic Distributors and Operators as required by the amended Fireworks Use Act (425 ILCS 35) and the Pyrotechnic Distributor and Operator Licensing Act (225 ILCS 227). At the end of 2013, the Agency provided licenses for 40 companies (Distributor licenses) and 521 Operator licenses.
- Continued the regulation of the Sprinkler Contractor Licensing program which requires all Sprinkler contractors to be licensed by the Agency in order to do business in the state of Illinois. At the end of 2013, there were 226 licensed contractors.
- Continued the regulation of the state's fire equipment contractors and their employees in accordance with the Fire Equipment Distributor and Employee Regulation Act. At the close of 2013, the Agency licensed 178 companies and 602 employees for purposes of performing fire equipment installation and service in Illinois.
- Provided approximately 895 hours of training for Division of Fire Prevention personnel relative to the application of the National Fire Protection Association's Life Safety Code® as well as other laws and rules adopted and enforced by the

Fire Prevention

Highlights

- Continued statewide enforcement of Illinois' administrative rules pertaining to fire safety. The Division continued enforcement of the 2000 edition of the National Fire Protection Association's Life Safety Code® as the statewide rules for fire prevention.

Division. Much of this training was delivered using internet technology allowing multiple training locations and saving the costs of travel and accommodations.

The Division of Fire Prevention, by legislative mandate, 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 liable to fire. Under authority granted in 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 as required by the Department of Children and Family Services, residential facility programs at the request of the Department of Human Services, correctional centers in accordance with an interagency agreement with the Department of Corrections, public schools in cooperation with the Illinois State Board of Education, race tracks as required by the Illinois Racing Board, permanently moored gaming facilities regulated by the Illinois Gaming Board, and telecommunications switching offices as prescribed by administrative rule. Enforcement also ensures compliance with regulations pertaining to LP-gas tanks if 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.

The Division also concentrates its efforts on certain “target” hazards including the inspection of state and county fairgrounds; 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, 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. Separate administrative code sections are applicable to volatile liquid storage, handling and storage of liquefied petroleum gases, furniture fire safety regulation, and fireworks storage.

Fire Equipment Distributor & Employee Regulation

The Division has responsibility for the enforcement of the Fire Equipment Distributor and Employee Regulation Act. This Act, and the resulting administrative rules applied by the Division of Fire Prevention, requires the licensing of all companies and their employees providing fire equipment installation or service work in Illinois. While not applicable to fire sprinkler systems, the rules and subsequent enforcement do concentrate on the work done recharging and inspecting portable fire extinguishers as well as the installation and servicing of fixed chemical fire suppression systems including those protecting cooking surfaces in commercial establishments.

Currently, the Agency licenses 178 companies and 602 employees for purposes of performing fire equipment installation and service in Illinois in accordance with the Act and subsequently developed administrative rules.

Sprinkler Contractor Licensing Regulation

The Division of Fire Prevention issues licenses for fire sprinkler contractors performing work in Illinois. Illinois requires any person, partnership, corporation, or other business entity that installs or repairs any fire sprinkler system in Illinois to be licensed by the Office of the State Fire Marshal (OSFM). The Fire Sprinkler Contractor Licensing Act [225 ILCS 317/1 et seq.] establishes the minimum standards for licensure of fire sprinkler installation contractors for the purpose of protecting the public health and general welfare of the citizens of Illinois. At the end of 2013, the Agency issued 226 licenses.

Pyrotechnic Distributor & Operator Licensing Regulation

The Division processes applications for Pyrotechnic Distributors and Operators as required by the amended Fireworks Use Act (425 ILCS 35) and the Pyrotechnic Distributor and Operator Licensing Act (225 ILCS 227), effective January 1, 2006.

Pursuant to the Fireworks Use Act, no person may act as a consumer, distributor, retailer, advertise, or use any title implying the person is a consumer, distributor, or retailer unless registered with the OSFM. No consumer fireworks may be distributed, sold, transferred, or provided free of charge to an individual who has not been issued a permit in accordance with the Act or has not registered with the OSFM.

At the end of 2013, the Agency has processed applications and provided licenses for 40 companies (Distributor licenses) and 521 Operator licenses.

Fireworks Safety

In June 2013, the Division of Fire Prevention requested data from 314 hospitals within the State to determine various facts about injuries associated with fireworks occurring during a four-week time period, which included the July 4th holiday. Some of the information on our form was not filled out, so we cannot guarantee 100% accurate information.

The number of responding hospitals is up from last year's 71 (23%) to 78 (25%) respondents. Of the 78 hospitals responding to our survey, 23 (7%) had no fireworks related injuries during the time period of June 23 through July 20, 2013.

There were 116 persons injured by fireworks this year. Injuries to males decreased 15% from 88 (77%) to 72 (62%); female injuries increased to 43 (37%) from last year's 27 (23%) an increase of 14%. The fireworks causing the highest number of injuries were bottle rockets and firecrackers at 14% each.

Furniture Fire Safety Act

Responsibility for enforcement of the Furniture Fire Safety Act is also within the purview of the Division of Fire Prevention. The Act, and subsequently promulgated administrative rules enforced by the Division regulate 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. The combination of upholstered furniture and the careless use of smoking materials have been identified as the cause of several past fatal fires.

Inspections

Fire Prevention Inspectors conducted a total of 10,060 inspections in 2013. These inspections protect the public by uncovering building and fire safety hazards before tragedy strikes.

State & County Fairs

The Division continued its practice of conducting inspections at the Illinois State Fair and the DuQuoin State Fair. During the Illinois State Fair, Division of Fire Prevention Inspectors conducted fire inspections at buildings, exhibits, concession areas, and tents prior to and during the fair. These inspections focused on public assembly areas, beer tents, livestock barns, and the grandstand coliseum. Inspectors also checked the fireworks display area and grandstand stage area before and during each show. Sites were inspected and re-inspected before and during the fair. The Springfield State Fair was again incident-free from a fire safety standpoint.

Inspectors also conducted similar work at the DuQuoin State Fair. There, the Division staff conducted inspections and carried out numerous other special assignments. As in Springfield, the DuQuoin State Fair was incident-free from a fire safety standpoint.

Personnel Standards & Education

The Division of Personnel Standards and Education (PS&E) 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. PS&E operates under the mandate of the Illinois Fire Protection Training Act [50ILCS 740/1 et. seq.], which provides for the promotion of standards to protect the health, safety, and welfare of the public.

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

During 2013, PS&E dispersed \$950,000 to local fire departments and fire protection districts for claim reimbursement. The Division processed 1,897 claims for a total of 131,858.06 hours of training to 83 departments.

The Division also processed 11,146 certifications, 14,099 requests for examinations and administered approximately 11,700 written examinations to Illinois firefighters.

Petroleum & Chemical Safety

To protect public health and safety, the Division of Petroleum and Chemical Safety (DPCS) regulates Underground Storage Tanks (USTs) containing petroleum products and other hazardous substances. The Division works under a comprehensive program combining federal and state laws and rules to regulate UST system management, fuel dispensing, UST installation/repair/removal, emergency response, and financial responsibility requirements. The mission of the DPCS 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.*

2013 HIGHLIGHTS:

- DPCS staff reviewed and processed 317 Eligibility and Deductibility applications.
- Office staff also received and processed 6,160 Financial Responsibility Reports. These are required liability policies UST facility owners must have for environmental and personal injury damages caused by product releases.
- Storage Tank Safety Specialists, the DPCS inspectors, performed 3,057 initial facility certification audits. Facilities must pass these audits to receive their Green Decals every 2 years, which allows for fuel to be deposited in the facility USTs.

- Engineering Techs in DPCS performed UST work permit application reviews, with the following numbers for 2013:
 - Underground Storage Tank
Permits Granted.....**1,392**
 - Motor Fuel Dispensing
Permits Approved**33**
- An on-line scheduling process was initiated on August 19, 2013, for UST contractors to establish contractor portal email accounts with OSFM to facilitate scheduling UST work and inspections. Work also began on a project which will provide the same on-line access to UST contractors when applying for permits for UST activities such as installations, upgrades/repairs and removals.
- DPCS was awarded \$785,000.00/year by USEPA for both federal FY2014 and FY2015. The grant dollars will primarily support three UST projects: legal enforcement of outstanding UST violations, upgrades and maintenance of our database and digital processes, and conversion of DPCS file documents to digital format.
- DPCS and OSFM's Legal Division filed an Emergency Rule applying to emergency power generators throughout the state on April 4, 2013, with the Permanent Rule approved on August 1, 2013. The Rule was needed to correct a potential problem that could interfere with emergency power generators operating reliably at critical facilities during power outages.
- DPCS administrators assisted Illinois EPA with a rule rewrite initiated to allow decommissioning of Stage II vapor recovery systems used for vehicle fueling operations in Chicago and the collar counties. We assisted them with technical advice, use of our database and support answering questions during IPCB hearings in Springfield and Chicago. OSFM Legal Division also assisted with draft language review.
- OSFM entered into another annual Delegation of Authority Agreement with the Chicago Dept. of Public Health (CDPH) UST program for FY2014. CDPH UST personnel have sole responsibility for UST regulation and enforcement in Chicago by authority granted to them by the Fire Marshal.

- CDPH inspectors began using our FACTS UST database program and forms while conducting UST work in Chicago. As a result, UST inspection and work practices in Chicago are now consistent with those in the rest of Illinois.
- Under the delegated authority of the OSFM, CDPH UST inspectors conducted 362 initial certification audits (the biennial inspection) and 274 permitted underground storage tank inspections.
- CDPH office staff issued 220 permits for tank installations, removals, upgrades/repairs, lining inspections, and abandonments-in-place, while CDPH field staff conducted 67 field investigations and responded to 14 emergencies.

Experiences

At the end of calendar year 2013, the Division maintained registration on a total of 20,271 active petroleum and hazardous substance tanks. The Division is also responsible for handling more than 42,000 files relating to Illinois UST facilities. During the year, DPCS conducted 7,334 UST inspections. These inspections include permitted activity, multiple certification audits, out of service verification, tank testing verification, and re-inspection of Notice of Violation (NOV) issues. The Division conducted 284 UST field investigations, issued 6,027 NOVs and responded to 17 tank emergencies. The Division also inspected 3,512 Motor Fuel Dispensing facilities and issued another 950 NOVs related to dispensing. As the result of the Notice of Violation process for both UST and dispensing inspections, DPCS and CDPH inspectors Red Tagged more than 806 tanks in 2013. Red Tags are applied to USTs when an owner allows an NOV issue to remain in noncompliance for over 60 days. Red Tagging prohibits depositing product into a UST until all deficiencies are corrected. This will often focus owners to begin efforts to achieve compliance.

Staff Additions

On January 16, 2013, four new Storage Tank Safety Specialists (STSSs) were added to our field staff ranks. The STSSs are the UST inspectors who oversee

UST work, inspect installations, and monitor violations and compliance progress, among other duties. We have 17 territories outside of Chicago. USTs in Chicago are covered by four Chicago Dept. of Public Health UST inspectors working under the Delegation of Authority agreement. With the hiring of four STSSs, all but one region was covered. Unfortunately, one of the four new hires decided to pursue a different path, but the remaining three are working independently and have been a valuable addition to our staff.

In November 2013, using the newly-awarded USEPA grant dollars, three contract attorneys and two paralegals were hired to work full-time on UST enforcement cases. This action will unblock some initiatives that had become stalled, solve some compliance issues at the Agency level, and prepare cases for prosecution by the Illinois Attorney General's Office when that step is needed to close a case.

Public Education & Management Services

Fire Equipment Exchange Program

The Fire Equipment Exchange Program began in October 2003. This program connects surplus fire equipment with Illinois fire departments in need. Since its inception, over 500 departments have listed equipment on the Exchange, and more than 15,000 pieces of equipment have been donated to more than 260 departments. During 2009, the Fire Equipment Exchange Program was expanded to allow fire departments the opportunity to list equipment on the exchange for donation, sale, or trade.

In 2013, over 400 items were listed on the exchange which included the following: 11 fire trucks, over 80 self-contained breathing apparatus, more than 200 sections of hose, rescue tools, and numerous other pieces of fire equipment. The total value was in excess of \$6 million dollars if the equipment was purchased.

Smoke Alarm Give-Away

Over 75 fire departments participated in the Office of the State Fire Marshal (OSFM) Smoke Alarm Program in 2013. Through this program, fire departments received and distributed approximately 900 smoke alarms in their communities. In addition to smoke alarms, approximately 75 fire departments received 9 volt and/or AA batteries to distribute to citizens needing to replace the batteries in their smoke detectors. The OSFM was able to distribute the batteries through a donation from Energizer Battery.

Facebook

The OSFM Facebook page was created to distribute information about fire safety, programs and other valuable information to both the fire service and public. The OSFM Facebook page currently has over 5,000 followers.

Illinois Fire Museum

The Illinois Fire Museum has been open to the public since 1994 and is available by appointment for tours. The Museum is located in a fire station built in 1938 for use by the Illinois State Fair Fire Department at Main and Central Avenues on the state fairgrounds in Springfield. It houses an authentic 1857 horse drawn hand pumper, complete with water buckets. It is home to one of the nation's largest fire department patch collections; this exhibit includes patches from throughout Illinois, the United States, and some foreign countries. Additionally, authentic fire scene photos, fire helmets, antique and contemporary uniforms, call boxes, nozzles, and fire extinguishers each have their own story to tell as they decorate the walls and exhibits of the Museum.

Children can test their fire safety knowledge in the children's interactive, educational computer room. Here, children learn about hazards in the home, fire safety behaviors, and tips on how to react if a fire occurs.

In 2010, the Wenona Fire Department loaned a horse drawn ladder wagon to the museum for display. The ladder wagon was used in Wenona for several years during the late 1800's to the early 1900's. The ladder wagon was built by the Chicago Extinguisher Company. Two bronze horses to complement the ladder wagon were added to the display.

During 2013, the Museum was host to over 4,000 visitors, most of which visited during their trips to the State Fair in August.

Remembering When™

Remembering When™ is a fire and fall prevention program for older adults. Remembering When™ teaches protection from fires and falls through trivia quizzes, humor, and nostalgic interactive games. The state of Illinois, as well as the nation as a whole, has brought issues regarding our senior citizens to the forefront, and the Remembering When™ program plays an integral part of the process. Our intent is to work with the fire service to keep our older adults living independently in their own homes for as long as possible, thereby saving considerable tax dollars. The OSFM has assigned a staff member as the Illinois Remembering When™ Coordinator.

- The Remembering When™ Coordinator hosted a New Community Training in 2013. A total of 30 participants attended the trainings.
- In 2013, Remembering When™ gained 16 communities.
- The Remembering When™ Coordinator presented a program at the National Remembering When™ Conference held in Boston, MA. The program highlighted the progress of the Illinois Remembering When™ program since its inception in 2003.

Risk Watch™

Risk Watch™ is a comprehensive educational program. Risk Watch™ gives children and their families the information and support they need to make positive, health-promoting choices about their personal safety and well-being. The Illinois Risk Watch™ Champion Management Team (CMT), and the Illinois Risk™ Watch Ad-Hoc Committee is coordinated by OSFM. The OSFM has assigned a staff member as the Illinois Risk Watch™ Coordinator.

- Several Risk Watch™ teacher trainings were conducted throughout the state in various Risk Watch™ communities in 2013.
- In 2013, several conferences were attended by the Illinois Risk Watch™ Coordinator to promote the Risk Watch™ program and gain new communities.

- A New Community Training was held in Springfield in 2013. Attending were 13 participants, with six new communities added to the Risk Watch™ program.
- Illinois Risk Watch™ Statistics:
 - Over 40 Risk Watch™ teacher trainings were held by communities.
 - Over 20 promotional events were attended by the Illinois Risk Watch™ State Coordinator and CMT, including conferences and speaking events.
 - Illinois Risk Watch™ was promoted at both State Fairs.
 - Over 250,000 children learned important safety information through Illinois Risk Watch™ in 2013.
 - Several pieces of equipment were loaned to Illinois Risk Watch™ communities in 2013 including Smart Technology pre and post testing tools, a Hazard House, Medicine vs. Candy Medicine Cabinet and, Risk Watch™ interactive clocks.

Look Up!

Look Up! is a campaign designed for college students living in both off-campus and on-campus housing. The main statement Look Up! makes is to remind students to make sure they have a working smoke detector. The OSFM has teamed up with Kathleen Moritz in implementing this campaign. An OSFM employee has been assigned to this campaign.

- September was proclaimed College Fire Safety Month, and September 22nd was proclaimed “Look Up-Pay It Forward Day” by Governor Pat Quinn.
- To date, over 250 colleges, universities, and high schools around the state have received Look Up! posters to display around their campuses and housing units.

20th Annual Illinois Fallen Firefighter Memorial, Firefighter Medal of Honor Awards Ceremony

Firefighters from across the state gathered in Springfield to remember four firefighters who died in the line of duty and honor 21 other firefighters for their outstanding bravery and service to their communities during the 20th

annual Illinois Fallen Firefighter Memorial and Firefighting Medal of Honor Ceremony.

The Medal of Honor award, the highest award given to firefighters by the state of Illinois, was presented to six firefighters who were selected for their acts of outstanding bravery or heroism, by which they demonstrated selflessness and personal courage above and beyond the call of duty, under adverse conditions, with the possibility of extreme personal risk.

Four firefighters, who died in, or as a result of, the performance of duty, were posthumously honored during the ceremonies as their families were presented with the Duty Death Gold Badge by the State Fire Marshal. Eleven firefighters and two fire departments received the Firefighter Excellence Award for an act of service in the line of duty, demonstrating excellence and professionalism in service to the citizens of the state of Illinois. In addition, four firefighters were recognized for acts of heroism or bravery that clearly demonstrated courage and dedication in the face of danger; they were awarded the Medal of Valor.

The awards presented recognized heroic actions during 2012. Nominations were reviewed and winners selected by the ten-member Illinois Firefighting Medal of Honor Committee.

National Fire Incident Reporting System

Illinois State law (425 ILCS 25/1 et seq.) requires all Illinois fire chiefs to investigate and report all fires to the Office of the State Fire Marshal (OSFM). The rules section of this statute requires that this reporting be in compliance with the National Fire Incident Reporting System (NFIRS) standards. All fire departments are required to be in compliance with their NFIRS reporting to be eligible for any state or federal grants. It is also a requirement that all fire departments within the state contact the NFIRS manager to report a fire death within 24 hours.

The OSFM exclusively utilizes the United States Fire Administration (USFA) NFIRS reporting software and database. Illinois fire departments may enter data directly into the federal system using the new on-line reporting tool (DEBI) or using the Data Entry Tool. Fire departments may also use third party software applications to compile and export their data.

The OSFM is responsible for educating local fire departments on the program, keeping a comprehensive fire death database and continuously assisting local departments with NFIRS related issues.

- In 2013, two NFIRS educational classes were conducted, one in Springfield, and one in Venice with a total of 12 participants.
- A calendar was created to assist fire departments with deadlines.
- Several memos were released via blast email, the OSFM Facebook and webpage with NFIRS reminders.

departments. In Fiscal Year '14, the OSFM will be awarding \$4 million. During an open application period, applications are made available on the OSFM website and portal and e-mail notification are sent to all fire chiefs in the state of Illinois. Applicants who are required by the Fire Investigation Act [425ILCS 25/6] to report fires to the OSFM must also have fully participated in the National Fire Incident Reporting System (NFIRS) for a minimum of two years immediately prior to the date of the grant application. Eligible applications are assessed by blind review, meaning the Committee shall not see the name, address, or any specific information which identifies the applicant. The Committee then reviews and ranks the applications based on assessment of need and information provided in the grant application.

Incident Types Reported by Year | All data current as of 02/03/2014

	2011	2012	2013	Total
Fire	58,178 4.90%	61,982 5.32%	46,927 4.19%	167,087 4.81%
EMS	772,399 65.09%	774,579 66.45%	743,450 66.33%	2,290,428 65.95%
Weather	2,818 0.24%	1,104 0.09%	2,705 0.24%	6,627 0.19%
Others	353,177 29.76%	328,062 28.14%	327,707 29.24%	1,008,946 29.05%
Total	1,186,572 100.00%	1,165,727 100.00%	1,120,789 100.00%	3,473,088 100.00%

More information about the NFIRS program can be found at: http://www.sfm.illinois.gov/fire_service/nfirs.aspx

0% and Low-Interest Revolving Loan Programs

- The Fire Truck Revolving Loan Program provides interest-free and low-interest loans, up to 20 years and \$250,000 for the purchase of fire trucks by a fire department, fire protection district, or township fire department that is a unit of local government. Applicants must provide fire suppression in a geographical area within the state of Illinois. In Fiscal Year '13, this program was not offered.
- The Ambulance Revolving Loan Program provides interest-free and low-interest loans up to 10 years and \$100,000 for the purchase of ambulances by a fire department, fire protection district, or township fire department that is a unit of local government or a volunteer, non-profit, stand-alone ambulance service. Applicants must provide emergency medical service in a geographical area within the state of Illinois. In Fiscal Year '13, this program was not offered.
- The Fire Station Revolving Loan Program provides interest-free and low-interest loans up to 25 years and \$2,000,000 for the construction, rehabilitation, remodeling, or expansion of a fire station or the acquisition of land for the construction or expansion of a fire station by a fire department, fire protection district, or township fire department that is a unit of local government. Applicants must provide fire suppression in a geographical area within the state of Illinois. To date, this program has not been funded.

Special Projects

Small Fire-Fighting and Ambulance Service Equipment Grant Program

The Small Fire-Fighting and Ambulance Service Equipment Grant Program provides grants up to \$26,000 for the purchase of small firefighting and ambulance equipment by a fire department, fire protection district, or township fire department that is a unit of local government or a volunteer, non-profit, stand-alone ambulance service. Applicants must provide fire suppression or emergency medical service in a geographical area within the state of Illinois. In Fiscal Year '13, \$2 million was awarded to 96

Subject to the availability of funds for these programs, the OSFM will issue an e-mail notification to all fire chiefs in the state of Illinois announcing an open application period. Ambulance Services may submit contact information to our office for an e-mail notification. During an open application period, applications will be available on the OSFM website and portal. Applicants who are required by the Fire Investigation Act [425 ILCS 25/6] to report fires to the OSFM must also have fully participated in the National Fire Incident Reporting System (NFIRS) for a minimum of two years immediately prior to the date of the grant application. Eligible applications shall be assessed by blind review, meaning the Committee shall not see the name, address or any specific information that identifies the applicant. The Committee shall review and rank the applications based on assessment of need and information provided in the loan application. After review by the Committee, the ranked applications will be forwarded to the Illinois Finance Authority (IFA) for evaluation of creditworthiness. The IFA will notify the Committee which applicants have met the requirements for ability to repay the loan.

Technical Services

The Technical Services Division of the Office of the State Fire Marshal serves to support 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 for regulated occupancies and installations. Technical Services also provides expert advice in the agency's rulemaking processes for a variety of subjects including: underground and aboveground tank storage regulation, LP-gas regulation, motor fuel dispensing facility operation, Life Safety Code application and myriad other fire prevention and petroleum and chemical safety related issues.

This Division is managed by an Illinois registered professional fire protection engineer (P.E.) and staffed by a variety of personnel including engineers and fire protection specialists. Personnel in this Division conduct plan reviews, assist with interpretations of applicable codes, assist operating divisions with instruction of field personnel at training sessions and 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 relative to technical issues. The work of the Technical Services Division is conducted from the Chicago office of the OSFM.

Specific work

- 1) Review of plans and applications submitted for installation or modification of:
 - a) Aboveground Flammable and Combustible Liquid Storage Tanks
 - b) LP-Gas Tanks
- 2) Review of architectural and engineering drawings of new construction, renovations, and additions for compliance with state codes. This includes submittals relative to:
 - a) Life Safety Code compliance
 - b) Fire Alarm System installation or modification
 - c) Fire Sprinkler System installation or modification
 - d) Commercial Kitchen and other Specialized Suppression System installation or modification
- 3) Analysis of Fire Safety Evaluation Systems (FSSES) and performance-based designs (PBD) both of which offer owners objective methods for proving equivalent life safety in nonconforming structures.
- 4) Analysis of submitted "Fire Plans" for Illinois' correctional facilities.
- 5) Preparation and delivery of training programs and materials for 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.
- 6) Preparation and delivery of training programs for local fire service personnel relative to public school fire safety inspections as mandated by state statute.
- 7) Assisting operating divisions of the OSFM with the development of administrative rules, information reports, policy statements, and/or web page content to clarify technical and code requirements. This includes development of technical content for "Frequently Asked Questions" documents posted on the agency's website.
- 8) Representing the OSFM on state and national task forces and code development committees relative to fire prevention and petroleum and chemical safety

issues. This includes representation on National Fire Protection Association (NFPA) and International Code Council (ICC) committees.

- 9) Providing expert testimony in appeal hearings, depositions and court cases.

Statistics

During calendar year 2013, Technical Services performed the following work:

Above ground Flammable Liquid Storage Tank Plan and Application Reviews.....	663
LP-Gas Tank Plan and Application Reviews.....	127
Building Construction, Fire Suppression System and Fire Alarm System Plan Reviews	214
Training Contact Hours Provided to OSFM and Local Fire Service Personnel	1,049

Possibly most indicative of the work of the Technical Services Division was the handling of telephone, e-mail, and written inquiries from occupancy owners, local enforcement agencies, contractors, architects, and engineers relative to applicable rules, interpretation of codes, and explanation of OSFM policies and procedures. In 2013, the Division handled over 7,800 such inquiries.

Legislative Report

OSFM introduced two pieces of legislation this past spring, which were tabled due to an outpouring of opposition from stakeholders, elected officials, and leadership:

- **SB 65/HB 1021.** An amendment to the Boiler Safety Act /430 ILCS 75/12.2 would have provided OSFM the ability to seek injunctive relief through the court system, against owners of dangerous boilers and pressure vessels. After meeting with stakeholders at a meeting convened by the sponsors and meetings with staff of both caucuses the decision was made to have the sponsors table the amendment.
- **SB 1376/HB 1044.** An amendment to the Gasoline Storage Act/430 ILCS 15 that also would have provided the OSFM the ability to seek injunctive relief, basically mimicked our other bill with same results.

OSFM was able to have three bills tabled that we were opposed to, they were as follow:

- **HB 2728 Smoke Detectors.** This bill would have made it mandatory to have everyone in the state of Illinois purchase a smoke detector that had a 10 year battery life span. Our reason for opposition was that it exempted the City of Chicago out of the bill. OSFM feels life safety mandates are applicable to all residents of the state of Illinois and should be equal to all.
- **HB3059/CO Alarms/Day Cares.** OSFM was able to talk to the Sponsor and encouraged her to have subject matter hearings with stakeholders to craft a relevant bill which we would assist her with going forward.
- **HB 3069 Property Interest/Arson.** This bill was introduced to address a spiked increase in arson cases in one district. After discussion with the sponsor it was agreed to table the bill until it was determined what proper intent was and whether it was a local or state issue. OSFM will assist the sponsor in crafting a relevant bill if it is determined it should be addressed on the state level.

OSFM successfully passed our budget and appropriation bill this year which was approved unanimously in both chambers.

JCAR/Updating of Life Safety Code

OSFM attempted to update the Life Safety Code from the current 2000 edition to the 2012 edition. Parts of the updated Code dealt with high rise and residential fire sprinklers. These issues became very contentious and a determination was made by the State Fire Marshal to withdraw the rule change.

Legislative Visits/Presentations

Many meetings throughout the state with legislators and constituents regarding services OSFM provides them and the residential fire sprinkler issue were held to build stronger working relationships. Several presentations before local elected officials, trade groups, citizen groups, and fire service organizations were given on topics including services the OSFM provides, fire safety, updates on home fire sprinklers, and fire department grant and loan programs. This proved to be very beneficial to all parties involved and has opened up strong lines of communication



and trust building between OSFM and these groups. 2013 turned out to be a year of education, and future coalition building. OSFM is on a path to continue to educate the citizens and elected officials of this state on the importance of fire safety and home fire sprinklers.

Advisory Boards & Commissions

Illinois Fire Advisory Commission

The Illinois Fire Advisory Commission provides the State Fire Marshal a forum for advice, counsel and assistance on matters related to the fire services in Illinois (20ILCS 2905/3).

Firefighting Medal of Honor Committee

This committee, formed in 1993 by PA 86-1230, places emphasis and priority on the consideration of firefighters

who have been killed or seriously injured in the line of duty and those who have displayed exceptional bravery or heroism while performing their duties as a firefighter.

Board of Boiler and Pressure Vessel Rules

The Board helps govern the use and operation of boilers and pressure vessels in Illinois. It formulates and reviews the State's definitions, rules and regulations for the safe and proper construction, installation, repair, use, and operation of boiler and pressure vessels.

Elevator Safety Review Board

The Elevator Safety Review Board was created by Public Act 92-0873 to adopt rules consistent with the provisions of the Act and for the administration and enforcement of the Act. The Board has the authority to grant exceptions and variances, hear appeals, hold hearings, establish fee schedules, and authorized contractor, mechanic, and inspector licenses.



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Budget Report

Fund 047-Fire Prevention | Division 01

fy13	fy13	fy14
Appropriation	Expenditures	Appropriation

Personal Services	\$9,440,000	\$8,052,875	\$9,204,000
State Contributions to SERS	3,586,000	3,060,232	3,710,400
State Contributions to Social Security	722,200	503,043	704,100
Group Insurance	2,875,000	2,223,404	2,498,000
Contractual Services	1,231,500	1,203,399	1,231,500
Travel	82,900	68,784	82,900
Commodities	70,600	66,498	62,600
Printing	23,700	18,214	23,700
Equipment	21,000	19,937	20,000
Electronic Data Processing	925,900	889,413	885,900
Telecommunications	180,000	167,022	229,000
Operation of Automotive Equipment	200,000	196,264	200,000
Refunds	8,800	7,665	8,800
Chicago Fire Department Training Program	2,267,700	2,267,700	2,349,100
Development of New Fire Districts	1,000	-	1,000
Fire Explorer and Cadet School	65,000	65,000	65,000
Firefighter Testing and Training Audits	150,000	149,997	150,000
Loan Programs	8,000,000	-	6,000,000
Loan Programs - Reappropriation	-	-	8,000,000
MABAS Administration	125,000	125,000	125,000
Participants in State Training Programs	950,000	950,000	950,000
Risk Watch/Remember When Program	10,000	4,158	10,000
Senior Officer Training	55,000	28,730	55,000
Small Equipment Grants	2,000,000	1,997,665	4,000,000
Training and Professional Development	25,000	23,030	25,000

Division 89

Public Safety Shared Services Center	\$715,500	\$715,291	\$715,500
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TOTAL FUND 047	\$33,731,800	\$22,803,323	\$41,306,500
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	fy13 Appropriation	fy13 Expenditures	fy14 Appropriation
Fund 072-Underground Storage Tank Division 01			
Personal Services	\$1,797,600	\$1,174,672	\$1,753,700
State Contributions to SERS	682,900	445,621	706,900
State Contributions to Social Security	137,500	87,373	134,100
Group Insurance	582,000	382,142	500,600
Contractual Services	352,300	320,262	368,300
Travel	10,500	5,678	10,500
Commodities	26,200	26,095	10,200
Printing	1,000	978	1,000
Equipment	10,200	7,867	10,200
Electronic Data Processing	20,600	19,389	20,600
Telecommunications	26,100	14,746	26,100
Operation of Automotive Equipment	65,000	65,000	65,000
Refunds	8,000	600	8,000
Chicago Underground Storage Tank Program	550,000	550,000	550,000
TOTAL FUND 072	\$4,269,900	\$3,100,424	\$4,165,200
Fund 510-IL Firefighters' Memorial Division 01			
Firefighters' Memorial	\$200,000	\$88,637	\$200,000
TOTAL FUND 510	\$200,000	\$88,637	\$200,000
Fund 580-Fire Prevention Division Division 01			
U.S. Resource Conservation and Recovery Act State Underground Storage Tank Program	839,700	516,404	2,000,000
Total Fund 580	\$839,700	\$516,404	\$2,000,000
TOTALS	\$39,041,400	\$26,508,788	\$47,671,700



Illinois Firefighter's Memorial

“Dedicated to the Firefighters of Illinois who have given their lives in the line of duty and to those who heroically serve with courage, pride and honor.”

Front cover and inside photos

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