

Loss Control

INSIGHTS FOR MUNICIPALITIES



This past year has been a busy one for EMC's loss control professionals. In 2006, the staff completed almost 10,000 new building valuations and 24,000 building recalculations (updated for inflation and material costs), distributed 140,000 issues of *Loss Control Insights*, made 11,000 on-site visits, received more than 300,000 hits to the Loss Control pages on emcinsurance.com and distributed almost 20,000 Safety Talks.

The stories inside highlight some the many ways EMC's risk improvement department has been diligently working to reduce the severity and frequency of losses for businesses, schools, municipalities and other institutions and organizations throughout the country.

...continued inside



Fleet Safety

SITUATION: Many organizations lack a formal fleet safety program. In fact, it's not uncommon for people in management to have a "deer in the headlights" look when asked about it, according to EMC Cincinnati Branch Risk Improvement Representative Gene Sechler.

RESPONSE: Sechler created a custom-made fleet safety kit to share with policyholders' management staff during initial inspections and interviews. The kit contains a copy of the Fleet Safety Program Tech Sheet, the Fleet Safety section from EMC's *Loss Prevention Information Manual* and a copy of the latest Loss Control Video Directory. (All items are also available on www.emcinsurance.com.) "The kit provides management with materials and guidelines to help them establish a fleet safety program of their own," explains Sechler. "It's also a great way to make clients more aware of the loss control resources available from EMC."

TIP...

A fleet safety program should include procedures for driver selection and training as well as vehicle selection, inspection and maintenance. In addition, procedures for driver performance evaluations, motor vehicle record checks, route evaluations and special trip planning should also be addressed.

RESULTS: As a result of Sechler's efforts, more policyholders are benefiting from formal fleet safety programs aimed at reducing the likelihood of costly driving accidents.

Partnership Service

SITUATION A: An agricultural service cooperative needed to improve the training of their specialized crop applicators.

SITUATION B: Two schools in Wisconsin needed to control the cost of workers' compensation insurance.

RESPONSE: Through EMC's Partnership Service, loss control consultants took each policyholder through a multi-step risk analysis enlisting the help of employees to identify problem areas and develop reasonable ideas to reduce or eliminate them. This process was instrumental in helping the cooperative identify the deficiencies in their training procedures and in helping the schools find potential risks by reviewing their policies and procedures.

TIP...

The partnering of your organization's leadership, employees and EMC's loss control experts can lead to improved on-the-job safety for employees and an improved bottom line for your organization.

RESULTS A: In addition to changes in classroom instruction, employees now have the opportunity to get hands-on training with an instructor. Participants drive several different machines on obstacle courses with specific operational and safety objectives.

RESULTS B: Both Wisconsin schools have seen a dramatic drop in their workers' compensation modification factors as a result of Partnership Service. One school benefited from a 20-point drop by making improvements in the building and grounds and food service departments. The other school saw a 28-point drop after employees reviewed and changed policies and procedures in its building and grounds, food services and special education departments.

» OSHA OFFERS NEW
FIRE SERVICE PUBLICATION

Learn ways to increase the safety of building occupants and emergency responders by streamlining fire service interaction with building features and fire protection systems. For details, visit www.osha.gov.

» MOTOR VEHICLE OPERATIONS
STANDARD APPROVED

ANSI/ASSE Z15.1, *Safe Practices for Motor Vehicle Operations*, will impact safety rates, vehicle management, and driver hiring and training. Learn more about this new approved standard at www.asse.org.

» PROTECTING EMPLOYEES
AGAINST ASIAN FLU

OSHA *Guidance Update on Protecting Employees from Asian Flu Viruses*, and other important resource information on the topic, has been posted to OSHA's website at www.osha.gov.

Environmental Health



SITUATION: When a 300-gallon water tank ruptured, water quickly emptied into office areas of an EMC policyholder. Office personnel responded quickly by using wet vacuums to remove the water. Two days later, however, they began smelling a musty odor. Upon further investigation, it was discovered that not all of the furniture had been removed from the offices prior to vacuuming.

RESPONSE: To better assess the damage, EMC's risk improvement specialists used infrared technology to identify moisture still present in a number of areas.

TIP...

Whenever an excess volume of water spills or leaks into an interior space, it must be removed as quickly as possible. Failure to do so can lead to mold growth in as little as 24 hours.

RESULTS: In response to EMC's findings, the insured took prompt action to completely dry the affected areas, thereby reducing the need for costly replacement of damaged materials.

Ergonomics



SITUATION: An Iowa manufacturer noticed a significant increase in the number of overexertion and cumulative trauma claims in 2005 — 26 claims at a cost of nearly \$25,000. Upon doing additional research, management discovered that the problem had been growing over the past several years. After initial discussions with their EMC risk improvement consultant, the company decided to form an ergonomics committee to address the issue.

RESPONSE: Using the ergonomics program from EMC's *Loss Prevention Information Manual* as a model, the ergonomics committee, which included EMC's consultant, completed risk factor training for all supervisors and employees. The committee also evaluated and made changes to over 25 workstations where injuries had occurred or where employees had identified risk factors in their own jobs.

TIP...

According to the Bureau of Labor Statistics, work-related musculoskeletal disorders (MSDs) account for 34 percent of lost workdays in the United States each year. These disorders also account for one out of every three dollars spent on workers' compensation. To reduce the frequency and severity of MSDs in the workplace, it is important to eliminate the risk factors that contribute to their development.

RESULTS: The continued efforts of this ergonomics committee made an immediate impact in claims reduction. Through the first nine months of 2006, the company experienced only eight overexertion/cumulative trauma claims, at a cost of just \$11,000. Best of all, the employees now feel motivated to suggest improvements to make their workplace safer.





Pre-Employment Testing



SITUATION: Many workers' compensation claims submitted by school districts result from injuries that occur because employees are not able to safely meet the physical demands of their job positions. Although this may occur due to inaccurate job descriptions used during the hiring process, it's also likely to occur because the districts often fail to develop functional screen testing to evaluate the physical capabilities of applicants.

RESPONSE: To help reduce insurance costs and prevent workplace injuries, EMC loss control consultants offer assistance in identifying the essential duties and physical demands of different occupations. Several schools have gone beyond accurate job descriptions and have solicited EMC's assistance in developing functional screen testing to evaluate the physical capabilities of potential employees. Tests are developed for each unique occupation and each organization's requirements. Those currently in use at several schools are for jobs with more strenuous physical demands, such as food service, custodial and maintenance positions.

TIP...

Using pre-employment testing to hire new employees can help you better match jobs to employees, identify potential risks, potentially increase productivity and profitability, and possibly reduce workers' compensation losses.

RESULTS: One school district using this testing procedure found that over 60 percent of the workers they were prepared to hire as a custodian could not meet the physical demands of the job. By not hiring these applicants, the school reduced the probability of a custodian suffering a costly injury.

Lightning and Surge Protection Surveys



SITUATION: Businesses, schools and other organizations are often unaware of potentially dangerous problems involving their electrical systems. When these problems remain undetected or are overlooked, they can lead to disastrous and sometimes deadly situations as the result of fire or arc blast.

RESPONSE: As part of EMC's broad loss control consulting services, EMC can arrange for electrical specialists to survey electrical systems to determine how lightning and electrical surges could damage equipment.

TIP...

Lightning protection systems should be inspected whenever alterations or repairs are made to a protected structure, as well as following any known lightning discharge to the system.

RESULTS: While performing electrical system surveys, electrical specialists hired by EMC discovered dangerous conditions before they resulted in an injury. One found an unlocked electrical transformer cabinet with a partially opened door at a school building just a few yards from the playground. In a city's administration building, another specialist discovered an electrical disconnect switch that had large openings in the top of the enclosure. Someone had stored spare fuses and metal parts on top of the enclosure and several had fallen in, creating significant arc blast and fire hazards.

Guidelines For Maintaining Your Water Distribution System



The following EPA chart provides suggested frequencies of routine and preventative maintenance tasks for systems under normal operation. However, any time a system experiences water quality issues, the appropriate task should be performed as frequently as needed. This guide is intended for owners and operators of all public water systems serving fewer than 10,000 people.

TASK	BENEFITS	SUGGESTED FREQUENCY
VALVE EXERCISING	<ul style="list-style-type: none"> Improves reliability Familiarizes crews with valve locations Identifies inoperable valves Locates obstructed valve boxes Ensures isolation of distribution system sections when necessary 	Annually
FLUSHING PIPELINES	<ul style="list-style-type: none"> Removes aged water from pipeline Reduces buildup of biofilms and sediments Restores disinfectant residual 	Annually for all piping; more often in areas with water quality issues
STORAGE TANK INSPECTIONS	<ul style="list-style-type: none"> Detects vandalism Identifies defects Ensures that access hatches are locked Ensures that vents, overflows and drains are screened 	Daily or weekly for vandalism; annually for other items
STORAGE TANK MAINTENANCE	<ul style="list-style-type: none"> Improves protection against sources of contamination Extends the useful life of the equipment 	Every three years for cleaning; painting and repairs as dictated by inspection
ROUTINE WATER QUALITY MONITORING	<ul style="list-style-type: none"> Provides information on potential contamination of raw and finished water Helps determine effectiveness of treatment Helps assure compatibility of water with the materials 	Varies depending on water quality and state regulations
INSPECTING AND FLUSHING HYDRANTS AND VALVES	<ul style="list-style-type: none"> Ensures that hydrants and valves are operable and that no water losses occur Ensures that hydrants and valves are not susceptible to tampering 	Once or twice a year
MAINTAINING OPERATING PRESSURE RANGE	<ul style="list-style-type: none"> Reduces the risk of backflow contamination Reduces damage to infrastructure due to excess pressure Provides adequate fire flow 	Continuously
TRACKING UNACCOUNTED WATER	<ul style="list-style-type: none"> Can reduce pumping and treatment costs Helps identify leaks, breaks, and inaccurate meters 	Daily at the source; monthly or during routine meter reading at connections
TESTING FOR EXCESS BIOFILMS	<ul style="list-style-type: none"> Indicates a presence of inadequate chlorine residual, possible high disinfection byproduct levels, and water stagnation 	Monthly in conjunction with Total Coliform sampling
MONITORING CORROSION	<ul style="list-style-type: none"> Identifies the need to modify treatment 	Annually
CHECKING FOR NORMAL WEAR	<ul style="list-style-type: none"> Can extend useful life of infrastructure components Helps avoid unnecessary replacement costs 	According to the manufacturer's recommendations

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VERSION 2

Fighting Fatigue On And Off The Road



As a result of longer work hours and more late night activities, Americans are awake more and asleep less. That's a growing problem on and off the road.

- According to a study that monitored brain activity in shift workers, one in five workers dozed off while working.
- The U.S. National Highway Traffic Safety Administration estimates that 100,000 of reported crashes occurred as a result of drowsiness and considers sleep deprived drivers as a hazard equal to the severity of drunk drivers.

Cure Fatigue With Diet, Exercise And Sleep

- Take naps and get the sleep your body needs.
- Consume foods that provide lasting energy such as fruits, vegetables and whole-grain breads. Avoid sugary, fatty snacks.

- Exercise of any kind increase circulation, strength and energy.

Special Tips For Drowsy Drivers

Studies have shown that many popular methods to stay awake, such as opening windows, blasting the radio, or drinking a caffeinated beverage are ineffective. The only proven method is to pull off the road and take a nap lasting at least 20 minutes.

Small Business Update: Complying With Hexavalent Chromium Requirements

Workers in many different occupations are exposed to hexavalent chromium and the associated risk of lung cancer. This occurs mainly among workers who handle pigments containing dry chromate, spray paints and coatings containing chromate, operate chrome plating baths, and weld or cut metals containing chromium. Small business can learn more about reducing exposure to this chemical by obtaining a copy of recently released OSHA guidelines. For details, visit www.osha.gov.

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