



Fire Prevention Week has its roots in the Great Chicago Fire, which began on October 8 but continued into and did the most damage on October 9, 1871. In just 27 hours, this tragic conflagration killed more than 250 people, left 100,000 homeless, destroyed more than 17,400 structures, and burned more than 2,000 acres. With this in mind, we developed a cause and solutions list to focus attention on the prevention of fires in any facility; knowledge that will benefit us all.

**Data Centers** - Most causes of IT fires are from human error - overloading power strips or accidentally starting fires by putting a flame near highly flammable materials.

**SSI** provides different types of fire suppression and detection systems that will detect smoke and heat, then release the agent to extinguish the fire in seconds and stop flames from spreading.

Suppression Systems: <https://www.suppressionsystems.com/clean-agents/>

Detection Systems: <https://www.suppressionsystems.com/fike-fire-suppression-control-panels/>

Lithium-ion batteries are becoming more common in Data Centers and are also seen as a fire risk.

**SSI** provides, to mitigate fire risk, LI-Ion Tamer systems that monitors gases. If the LI-Ion Tamer system detects any “off gases” – gases released from a faulty or damaged battery - then cuts the battery power.

<https://www.suppressionsystems.com/li-ion-tamer/>

**Combustible Dust** - Combustible dust is a major cause of fire in food manufacturing, woodworking, chemical manufacturing, metalworking, pharmaceuticals, and just about every other industry you can name. The reason is that just about everything, including food, dyes, chemicals, and metals — even materials that aren’t fire risks in larger

pieces — has the potential to be combustible in dust form. The source of the fire can be anywhere - it may just cause a spark and the dust becomes the ignition source.

**SSI** provides dust analysis along with design, supply and installation of detection and suppression systems along with venting products to reduce or eliminate these hazards.

<https://www.suppressionsystems.com/explosion-protection-combustible-dust-explosions-explosion-detection-suppression/>

**Electrical Fires -** Electrical fires are one of the top five causes of fires in manufacturing plants. There are many causes of fire and explosion due to electrical hazards. Exposed wiring, overloaded outlets, overloaded circuits, static discharge, etc. are common fire hazards. While these fires can happen due to multiple issues, quick detection, and suppression of these helps eliminate damage to the facility and lost downtime.

**SSI** provides fast-acting detection systems that can identify smoke in its earliest state and warn the facility staff of an impending issue.

<https://www.suppressionsystems.com/vesda/>

**Equipment & Machinery** – Often equipment that many believe is the least likely to be thought of as a fire risk turns out to be the biggest problem. This is because companies may not recognize the risk and therefore won't take the necessary precautions.

**SSI** provides site analysis of manufacturing facilities and their equipment to determine the best solution for their equipment. An example is the over 1,000 FireTrace systems we have installed on CNC machines.

<https://www.suppressionsystems.com/firetrace-3/>

***Great Knowledge, Great Service...It's That Simple!***