Critical Infrastructure: Emergency Power Supply
Fire Protection Solutions for Critical Equipment Enclosures
Regulatory codes ensure that your most valuable asset — human life — is protected from fire. When it comes time to protect critical infrastructure that is essential to your business, Viking Integrated Safety has the right solutions and most efficient method of delivery.

Statistically, fire is recognized as a significant contributor of non-IT-related outages. Considering the remote nature, criticality, and unique dynamics of modern IT environments, an integrated automatic fire protection system is the first line of defense — to be effective, it must be appropriately chosen, applied and maintained.

Early detection, control and mitigation are crucial to the concept of critical infrastructure fire protection. Using advanced technologies and comprehensive applications, Viking Integrated Safety helps you analyze the hazard, design appropriate solutions, and map out a future plan for inspections and maintenance.

Critical equipment enclosures are typically autonomous and unmanned, and situated within commercial buildings or remote stand-alone structures that house technologies critical to business continuity. A risk-based performance solution, where design and implementation of advanced technologies come together to address unique and dynamic infrastructure challenges, is essential for mitigating risk.

Viking Integrated Safety works with you to develop an effective solution which reliably detects potential events while in the incipient stages of fire development and notifies personnel while initiating automated processes. Using agents safe for the environment and equipment present, the system rapidly extinguishes at the right moment and prevents reignition and spread.
Backup Power Generators
If a power outage occurs, diesel generators start up automatically, within seconds. While the generators go through a start-up phase, UPS systems deliver power so that operations can continue. Fires caused by generator and fuel supply installations are typically fast, flaming fires, and heat or flame detection are the first considerations. The selection of an extinguishing system for a generator room enclosure depends on factors such as ventilation and cooling, fuel type, fuel storage and the delivery system. Proven extinguishing options include fire sprinklers, AFFF foam sprinklers and clean agent.

Uninterruptible Power Systems
When electricity fails completely, power is delivered via an uninterruptible power supply (UPS) until the emergency standby system is active. UPS systems are usually located in autonomous enclosures and walk-in units, as well as dedicated-use rooms or buildings and include batteries, electrical switch gear, and inverters. Overload or a short circuit of electrical appliances can lead to a fire. If detected in an early phase, power can be disconnected partially and a gaseous agent extinguishing system activated.

A comprehensive fire risk assessment for these enclosures considers the following factors:
- High density heat loads
- High energy densities
- High energy combustible materials
- Friction from mechanical systems
- Flammable electrolytes, oils and carbon-based fuels
- Manufacturing defects, mechanical damage and component malfunctions
- Thermal runaway

Components:
1. Fire Alarm & Releasing Agent Panel
2. Aspirating Smoke Detection
3. Suppression Systems
4. Notofocation A/V
5. In-Rack Detection & Suppression
6. Pull Stations & Abort Switches
7. Battery Monitoring System
8. Spot Smoke Detection
9. Thermal Cameras
Supported Products

Count on Viking Integrated Safety to provide industry-leading quality and innovation for your fire protection challenges. You can rely on us to deliver:

**Unmatched Quality**
Our reputation has been earned by focusing on continuous improvement in all elements of our business.

**Product Breadth**
The largest selection of fire protection products available from Viking SupplyNet ensures single-point solutions for any fire protection challenge.

**Integrated Safety Solutions**
Design-based & code compliant safety solutions with full understanding of application protection challenges for solution perfection.

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**Product Information**

**Fire Detection Systems and Suppression Control**
- Conventional Panels
- Addressable Panels

**Automatic Detection Systems**
- Air Sampling Smoke Detection
- Photoelectric Spot-Type Smoke Detection
- Gas Detection

**Water-Based Fire Suppression Systems**
- Fire Sprinklers
- Valves and Systems

**Gas-Based Suppression Systems**
- VSH 1230 Halocarbon
- VSH 200 Halocarbon

**ServersCheck InfraSensing Sensors**
- Battery Management Systems (BMS)
- Spot Smoke Detection
- H₂ Gas Detection
- Thermal Cameras

**Pre-Packaged Suppression Systems**
- FireFlex Dual (VSH 1230 + Pre-action)
- VSH 200 Halocarbon

**Peripheral Devices**
- Audio/Visual Alarm
- Manual Stations & Abort Switches

**OneU Fire Protection Systems**
- OneU Rack Mounted Air Sampling and Suppression
- OneU DD Rack Mounted Air Sampling Smoke Detection
- OneU ED Rack Mounted Suppression

**Contact**

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