



Engineered for Uptime

Fire Protection for Telecommunications Facilities

Telecom facilities, such as data centers, switching stations, and network hubs, are critical infrastructure housing sensitive electronics, extensive cabling, and continuous power systems. Fire incidents can cause service disruptions, financial losses, loss of 9-1-1 service, and data integrity risks, making specialized fire protection essential.

ORR's Fire Protection Approach

1. Fire Detection Systems

- **High-Sensitivity Smoke Detection (HSSD/ASD):** Continuous air sampling for early fire detection is ideal for areas >2,500 sq. ft.
- **Photoelectric Smoke Detectors:** Detect visible smoke, installed at strategic points.
- **Fire Alarms:** Notify occupants and operators; cellular communicators ensure alerts during power outages.

2. Fire Suppression Systems

- **Clean Agent Systems (FM-200, FK-5-1-12 (Novec 1230), Inert Gas):** Fast suppression without damaging equipment. FK-5-1-12 systems offer a lower environmental impact. Inert gas systems are the most environmentally friendly.
- **Water Mist Systems:** These use fine water droplets to suppress fires with minimal water damage, and they are suitable for extinguishing fires in generator rooms.
- **Pre-Action Sprinklers:** Dual-trigger systems reduce accidental discharges.
- **Integrated Fire Cabinets:** Compact units combining detection and suppression at critical points.

3. Essential Safety Measures

- **Routine Maintenance:** Regular inspections ensure system reliability.
- **Staff Training:** Fire safety, extinguisher use, and evacuation procedures.
- **Risk Assessments:** Periodic evaluations to align protection levels with facility hazards.
- **High-Sensitivity Smoke Detection:** Recurring inspection and testing of critical VESDA systems.
- **Battery Fire Protection:** Specialized systems to mitigate lithium-ion battery gas hazards.
- **Fire-Resistant Construction:** Proper ventilation and rated building materials.
- **Emergency Preparedness:** Detailed response plans and drills, ensuring that Class "C" extinguishers are in telecom rooms.

By implementing a comprehensive fire protection strategy addressing these aspects, telecom facilities can significantly enhance fire safety, ensure uninterrupted service, and protect critical infrastructure from fire-related damage.



Ready to protect your telecom facility?

Connect with ORR Protection today for a no-obligation consultation.

TOLL FREE 800.347.9677 | ORRPROTECTION.COM



The ORR Advantage - Industry Experts, Not Just Salespeople
Our team includes fire protection professionals with extensive industry knowledge. Every project is supported by licensed engineers, NICET-certified designers, project managers, and seasoned fire protection specialists who understand the challenges of communications infrastructure.



From Design to Maintenance, We Do It All:

- **Design & Engineering:** NICET Level IV and ISO 9001:2015-certified practices
- **Installation & Integration/Project Management:** Seamless coordination with mechanical and electrical trades
- **Inspection, Test, & Maintenance:** Preventive inspections, code compliance testing, routine maintenance, emergency rapid repairs, and detailed documentation backed with the latest technology
- **System Modernization:** Upgrade legacy systems to meet today's requirements
- **24/7 Emergency Response:** Nationwide dispatch and remote diagnostics

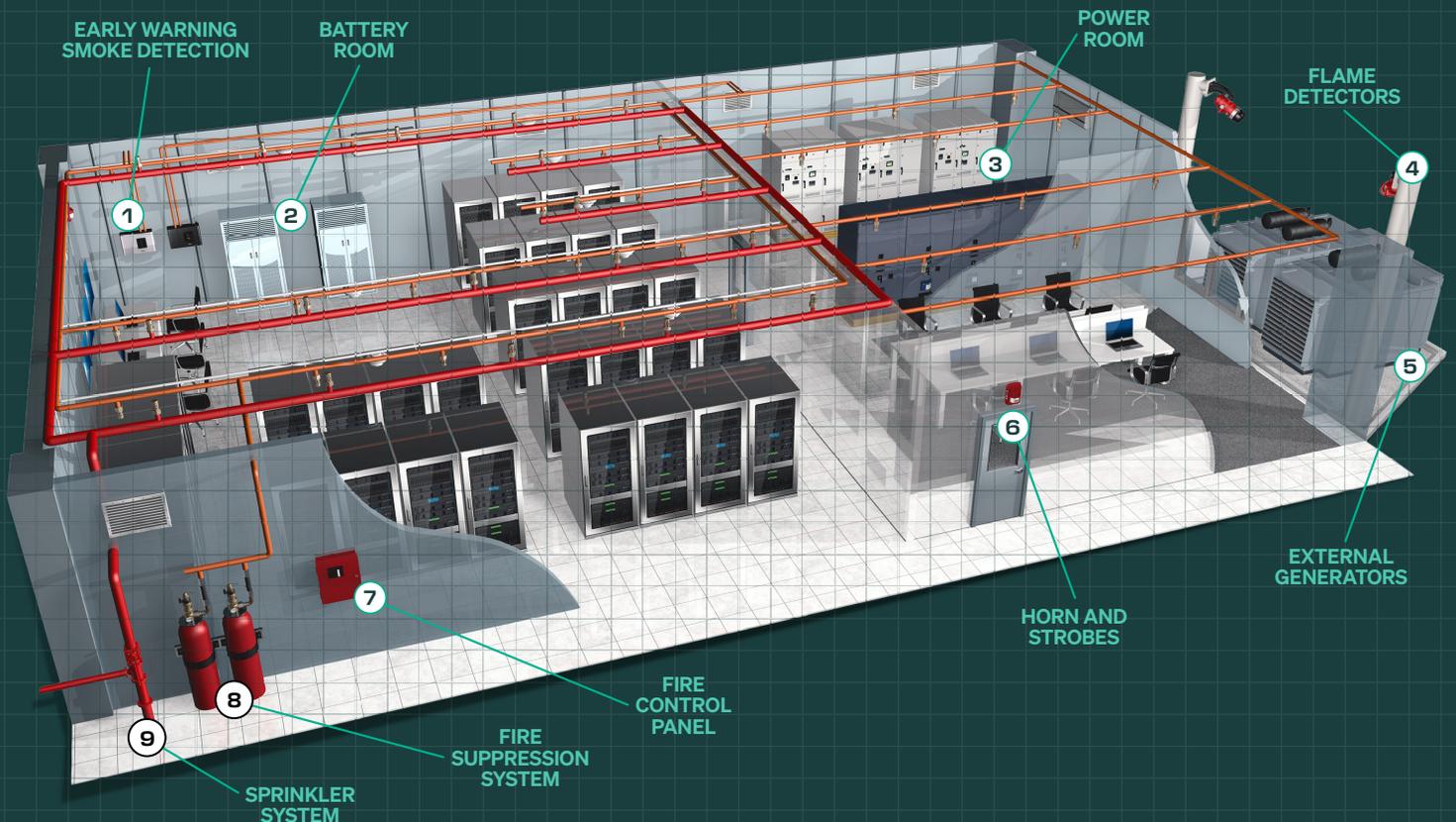
Smart Remote Monitoring— Anytime, Anywhere

ORR's 24/7 monitoring services include:

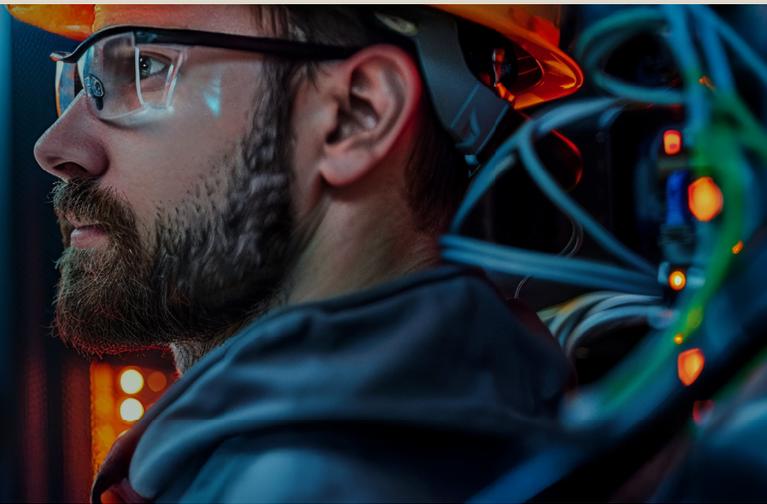
- Real-time alerts for fire, suppression, power, CO, tamper, and elevator systems
- Cloud-based visibility via app or web portal
- Enhanced code compliance and faster after-hours response

Our integrated approach ensures code-compliant, customized protection, guided by fire protection engineers and supported by national experts and manufacturers.

ORR 3D TELECOM DATACENTER



Large-scale privately owned fire and safety company with nationwide coverage. Servicing many of the nation's largest telecommunications companies. Protecting over \$30 billion worth of assets against fire.



Fire Protection Standards

The telecommunications industry follows strict fire safety standards to mitigate risks:



- **NFPA 76:** Fire Protection of Telecommunications Facilities
- **NFPA 75:** Protection of IT Equipment
- **NFPA 2001:** Clean Agent Fire Extinguishing Systems
- **NFPA 70:** National Electrical Code
- **NFPA 72:** Fire Alarm and Signaling Code
- **NFPA 855:** Standard for the Installation of Stationary Energy Storage Systems

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