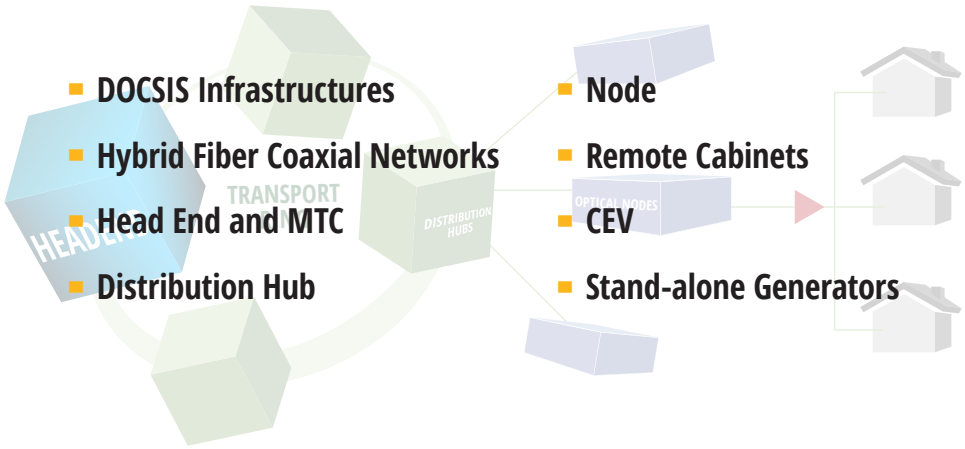


# Fire Detection and Suppression to the Last Mile



■ **DOCSIS Infrastructures**

■ **Hybrid Fiber Coaxial Networks**

■ **Head End and MTC**

■ **Distribution Hub**

■ **Node**

■ **Remote Cabinets**

■ **OPTICAL NODES**

■ **CEV**

■ **Stand-alone Generators**

## FIRE ALARM

- Conventional Systems
- Intelligent Addressable Systems
- Emergency Voice Evacuation
- Mass Notification
- Networked & Integrated Systems
- Sprinkler Monitoring Systems
- Central Station

## SUPPRESSION

- FM200 / HFC-227 / FE-227
- ECARO-25 / FE-25
- Novec 1230
- Inert Gases: Inergen / Argonite / Nitrogen
- Halon Recharge
- Halon Replacement Systems
- In-cabinet Suppression
- High & Low Pressure Water Mist
- Hybrid Systems

## DETECTION

- Air Sampling Smoke Detection
- Spot Smoke Detection
- Linear Heat Detection
- Gas Detection
- Flame Detection
- Beam Detection
- Video Smoke & Flame Detection
- Water Leak Detection

## LI-ION TAMER TECHNOLOGY

- Detects any off-gas event from lithium-ion batteries
- Offers the earliest warning to avoid catastrophic events
- Detects off-gas prior to thermal runaway



## CORROSION PROTECTION

- Nitrogen Generation for Inhibiting Corrosion in Dry and Preaction Sprinkler Systems

# VISUAL INSPECTIONS CODE REQUIREMENTS ✓ Check List




## DAILY/WEEKLY

COMPLETED ✓

 <b>Fire Alarm Systems</b> ..... NFPA 72 <input type="checkbox"/>
Unmonitored control panels — Check for normal condition and any trouble or supervisory signals
 <b>Sprinklers and Standpipes</b> ..... NFPA 25 <input type="checkbox"/>
Gauges on dry, preaction, and deluge systems — Inspect for condition and normal pressures
<b>Valves, Valve Components, Trim Inspections</b> Control valves — Normal position, tamper switches or locks, accessible, leak-free, signage ■ Master pressure reducing valves ■ Enclosures — Maintain above 40°F — Inspect daily if no low-temp alarm
<b>Backflow Prevention Assemblies</b> Check BFP is not discharging water



## MONTHLY

COMPLETED ✓

 <b>Fire Alarm Systems</b> ..... NFPA 72 <input type="checkbox"/>
Unmonitored control panels — Check for normal condition and any trouble or supervisory signals
 <b>Portable Fire Extinguishers</b> ..... NFPA 10 <input type="checkbox"/>
Location in designated place ■ No obvious physical damage, corrosion, or clogged nozzle
No obstruction to access or visibility — Nameplate facing outward ■ Safety seals or tamper indicators not broken or missing
Pressure gauge reading in the operable range ■ Test for agent fullness by lifting or “hefting”
Wheeled units — Condition of wheels, hose, and nozzle ■ Non-rechargeable units — Check pressure indicator
Record inspection date on tag with initials
 <b>Sprinklers and Standpipes</b> ..... NFPA 25 <input type="checkbox"/>
Gauges on wet systems — Inspect for condition and normal pressures ■ Air pressure gauges on dry and preaction systems if electronically supervised
<b>Valves, Valve Components, Trim Inspections</b> Control valves — Normal position, tamper switches or locks, accessible, leak-free, signage ■ Alarm and alarm check valves — Exterior inspection ■ Dry pipe, deluge, preaction valves — Exterior inspection
<b>Backflow Prevention Assemblies</b> Control valves — Tamper switches or locks
<b>Standpipes</b> Control valves — Tamper switches or locks



## QUARTERLY

COMPLETED ✓

 <b>Sprinklers</b> ..... NFPA 25 <input type="checkbox"/>
Water flow alarm and all supervisory devices — Tamper switches ■ Fire department connections
Pressure reducing valves and relief valves
 <b>Fire Alarm Systems</b> ..... NFPA 72 <input type="checkbox"/>
<b>Initiating Devices</b> Optical flame detectors, video smoke/fire detectors





## SEMI-ANNUALLY

COMPLETED ✓

 <b>Clean Agent Suppression</b> ..... NFPA 2001 <input type="checkbox"/>
Visually inspect all field devices, measure agent quantity, and cylinder pressure ■ Fill out cylinder tags
 <b>Fire Alarm Systems</b> ..... NFPA 72 <input type="checkbox"/>
Fire alarm panel trouble signals, emergency voice/alarm communications equipment, remote annunciators, surge suppressors, panel batteries
<b>Initiating Devices</b>
Air sampling smoke detectors ■ Duct smoke detectors ■ Electromechanical releasing devices ■ Fire extinguishing system or suppression system switches ■ Fire alarm boxes (pull stations) ■ Detectors — heat, smoke, beam, carbon monoxide
Water flow devices ■ Supervisory signal devices

## ANNUALLY

COMPLETED ✓

 <b>Clean Agent Suppression</b> ..... NFPA 2001 <input type="checkbox"/>
System hoses ■ Inspect enclosure to determine if penetrations have occurred that could lead to agent leakage
 <b>Portable Fire Extinguishers</b> ..... NFPA 10 <input type="checkbox"/>
Normal monthly inspection requirements, plus: Inspect shell for damage or corrosion ■ Inspect hose and nozzle for blockage
Labels present, legible, and facing forward ■ Check for next 6-year internal or hydrostatic test date ■ Replace tamper seal
Remove extinguisher and inspect hanger, bracket, or storage cabinet
 <b>Sprinklers</b> ..... NFPA 25 <input type="checkbox"/>
Visually inspect from floor — Sprinklers, pipe and fittings, pipe hangers and seismic bracing ■ Spare sprinklers in spare sprinkler cabinet ■ Hydraulic design information sign
<b>Standpipes</b> Piping ■ Hose racks ■ Hose connections and hose valves ■ Hose and hose nozzles
<b>Valves, Valve Components, Trim Inspections</b> Interior inspections — Dry pipe valves, preaction, and deluge valves
<b>Private Fire Service Hydrants</b> ■ Main line strainers
 <b>Fire Alarm Systems</b> ..... NFPA 72 <input type="checkbox"/>
<b>Fire Alarm Panels</b> Fuses, interfaced equipment, lamps and LEDs, main power supply ■ Supervising station alarm system transmitters — dialer, DACT, cellular dialer, radio transmitter, IP transmitter
<b>NAC Extender Power Panels</b> ■ <b>Mass Notification Equipment</b>