



Life Safety Event Communications Systems

UL/NFPA-72 Compliance Document

2006



AES-IntelliNet UL/NFPA Fire Compliance Chart

	1. Battery Back-Up Required	2. Supervision In-Puts?	3. Required Check-In Intervals	4. When Using AES, is More Than One Method of Signal Transmission Required? (ie. DACT, Der. Chnl.,MPX)
Proprietary Fire (UL 864 / NFPA 72 UOJZ, UOJZ7, IPXX7)	24hrs	yes	24hrs	no
Central Station Fire (UL 864 / NFPA 72, UOJZ, UOJZ7, IPXX7)	24hrs	yes	24hrs	no
Remote Central Station (UL 864 / NFPA 72, CAN/ULC-8257-M87, UOJZ, UOJZ7 UOXX, UOXX7)	24hrs	yes	24hrs	no
Type 6 Fire	24hrs	yes	24hrs	no
Type 7 Fire	24hrs	yes	24hrs	no

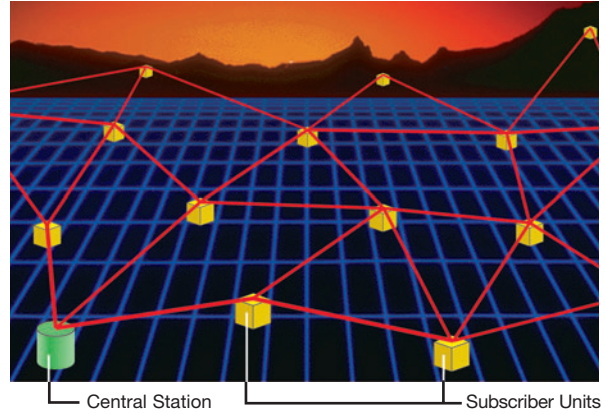
AES-IntelliNet Compliance Details

- Battery Backup** – All AES-IntelliNet transceivers can support a level of battery backup capable of maintaining transmissions to meet all UL requirements.
- Supervision Inputs** – AES-IntelliNet transceivers electronically supervise the zone inputs in either the Supervised or Fire inputs through the programming of inputs.
Supervised – An alarm on open, or short of circuit
Fire – An alarm on short, trouble on an open circuit
- Required Check-in Intervals** – The check-in time is the interval at which the transceiver sends its check-in messages to the emergency center. One check-in per 24 hours is approved by UL and meets NFPA-72 standards, and AES-IntelliNet can be set for 24 hours or even more frequently.
- Compliant Without Second Method of Signaling** – Due to the capability of each transceiver unit to establish as many as eight (8) paths of communications to the emergency monitoring center, far exceeding the 2 lines of communication requirement, UL has determined that there is not a need to add any other communication technology when installing the AES-7750F transceiver unit in the following applications:

- Proprietary Fire
- Central Station Fire
- Remote Station Fire

Wireless mesh networking is an innovative technology adopted by many industries with applications that need to communicate data over a large geographic area with a high level of reliability and a low cost of ownership. AES-*IntelliNet* networks are designed with the following;

No Single Point of Failure – Each transceiver unit installed into an AES radio network is a transmitter and receiver and becomes a repeater within the network. As a result there are no towers or any other single point of failure in an AES-*IntelliNet* radio network. This helps to create multiple paths of communications to the emergency monitoring center for reliable, critical event processing and dispatch.



Output to Alarm Automation Software – The 7700, 7705i UL Central Receiver Systems report critical event information to alarm automation software in either Radionics 6500, or Contact ID for processing and dispatch.

Complete System Redundancy – Each AES-*IntelliNet* 7700, 7705i UL Central Receiver Systems are fully dual redundant systems. All components that make up these systems are delivered in a redundant configuration to protect against system failure in the event of a catastrophic event.

Network Management – The AES Net 77K, and Linux operating system software provide the emergency monitoring center the ability to conduct remote radio network integrity analysis, remotely program transceiver units, reprogram transceiver unit zones, and analyze routing tables for the entire radio network.

FACP Compatibility – AES-*IntelliNet* is compatible with all FACPs' including reverse polarity direct connect panels.

DACT/MPX Functionality – AES-*IntelliNet* functions as either a DACT or MPX without phone lines with the benefit of increased speed and reliability.

Summary

- **Meets or Exceeds UL/NFPA Requirements** – For US and Canada.
- **Improves Dispatch and Response Times** – Faster signal speeds to emergency center – Up to 2 minutes faster than telephone wires, cellular or direct wire alternatives.
- **Enhances Accuracy** – Enables emergency center to receive event specific information.
- **Improves Reliability** – Provides up to eight (8) multiple paths to emergency center to insure the signal gets through.

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