



FDNY

CERTIFICATE OF APPROVAL # 6281 **THIS CERTIFICATE IS REVOCABLE, NOT TRANSFERABLE** **and EXPIRES on OCTOBER 10, 2021**

By order of Fire Commissioner Daniel A. Nigro, and pursuant to Section FC 112 of the New York City New Fire Code, the following equipment or system is accepted for use provided the conditions as outlined below are in full compliance.

Manufacturer: AES Corporation - IntelliNet.

Trade Name: AES Corporation - IntelliNet.

Product: Fire Alarm Equipment

Basic Model Number(s): 7705ii - MultiNet Internet Monitoring Receiver System
7705i - MultiNet Internet Monitoring Receiver System
7170 - Remote IP-Link Receiver
7788F - Wireless Fire Alarm Communicator (transceiver)
7794 - IntelliPro Fire (universal wireless alarm transmitter)

Pertinent Code Section(s): Section FC 901 of the New York City Fire Code

Test(s) Standards(s): UL 864, NFPA-72-2010, 1 RCNY §3616-04

Laboratory: Underwriters Laboratories, Inc. (UL)

Test Report(s): UL S5103 Vol. 4 Sec.1 Issued: 2007-03-21; Revised: 2010-09-16
UL S5103 Vol. 5 Sec.1 Issued: 2008-05-28; Revised: 2010-01-26
UL S5103 Vol. 5 Sec.21 Issued: 2008-05-29; Revised: 2010-01-26
UL S5103 Vol.5 Sec.3 Vol.6 Sec.2 Issued: 2012-05-31

Description: The **7705i MultiNet Internet Monitoring Receiver System** is used in situations where alarm signals from one or more AES-*IntelliNet* wireless radio networks need to be received and managed centrally. Remote installations of AES-*IntelliNet* transceiver units can be monitored over any distance via the Internet. Alarm signals are communicated via Transceiver radio to a central receiving point (AES **7170 IP-Link**) in a region and relayed via the Internet to the Emergency Monitoring Station to the **7705i central receiver**. **Model 7705i** and **7705ii** model differences are that **Model 7705ii** does not have a power button on the front of the unit. Both units are powered on by a switch on the power supply located in the back of the unit. The **7705i** uses a parallel printer interface and the **7705ii** uses USB. The motherboards, power supplies and hard drives are also different.

The AES 7788F fire transceiver sends alarm signals from fire alarm control panel to fire alarm monitoring central station. This transceiver, and repeater in one, is housed in a full size locking steel cabinet for superior performance. It monitors battery and AC power status.

The AES-7794 IntelliPro Fire is an add-on module for AES subscribers that enable transmission of full alarm zone data from an alarm panel DACT to a central station over an established AES-IntelliNet network.

The FireTap links a Fire Alarm Control Panel (FACP) with a central monitoring station through an AES-IntelliNet radio network – without phone lines. The AES 7770 FireTap can monitor any serial data source and retrieve Point ID data from the FACP. The data is then forwarded to the central station via the AES-IntelliNet wireless network.

Conditions of Approval:

1. All uses, configurations, arrangements and functions, applications and installations shall comply with the provisions of New York City Construction Codes, specifically Building Code Chapter 9 & 1RCNY §3616-04. Further, the installation shall be in accordance with applicable provisions of New York City Fire Code, New York City Electrical Code, manufacturer's installation requirements, and UL Standard 864.
2. When used with a central office control communicator or a transmitter, the installation and operation of the equipment and devices shall comply with 3RCNY §901-01. It shall have the capability of transmitting separate and distinct signals to indicate manual pull station alarm, automatic detection alarm, sprinkler waterflow alarm, supervisory signal indications, and trouble indications.
3. The installation of Fire Alarm Control Unit must provide for fail-safe operation. This feature must assure that control of doors, locks, ventilation fans, and elevator recall will not be rendered inoperable in the event of a fire or power failure.
4. Wireless Fire Alarm Communicator Model 7788F shall comply with requirements of NFPA-72-2010 for One-Way Private Radio-Frequency System (Section 26.6.3.3.2).
5. Signal from Wireless Fire Alarm Communicator Model 7788F (transceiver) shall be transmitted to Remote IP-Link Receiver at least over two independent one-way radio-frequency paths.
6. Each one-way private-radio frequency transceiver (Model 7788F) shall be monitored by the network, to verify that as least two independent one-way radio-frequency paths are utilized for each radio transmitter during each 6-hours period.
7. The failure to transmit the signal to central station shall be announced at protected premises FACP by audio and visual means.
8. Interconnections between elements of transmitting equipment, including any antennas, shall be supervised to cause an indication of failure at the protected premises and transmit a trouble signal to the central station. If elements of transmitting equipment are physically separated, the wiring or cabling between them shall be protected by conduit.

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9. The maximum time between initiating of an alarm signal at the protected premises, transmission of the signal, and subsequent display and recoding at the central station shall not exceed 90 seconds as per 26.6.3.3.3.2 of NFPA-72-2010.
10. At least two Remote IP-Link Receivers, Model 7170 are required and shall be installed in secured location to prevent the unauthorized access; these receivers shall be accessible for FDNY inspection.
11. The secondary power with the 24 hours capacity shall be provided for Remote IP-Link Receivers. Any failure of the power shall be notified immediately at the protected premises and central station.
12. When Remote IP-Link Receivers is not located at the central station, provide additional, back-up telephone connection between Remote IP-Link Receiver and MultiNet Internet Monitoring Receiver System 7705i/7705ii; the main channel of communication between those two modules is Internet.
13. The approved central station shall operate in full compliance with requirements of 26.3.7 of NFPA-72-2010.
14. All applicable requirements of Federal Communications Commission (FCC) shall be complied with.
15. The above referenced fire alarm equipment shall be used only with listed fire alarm equipment and devices, with which the compatibility has been determined by UL listing report
16. Underwriters Laboratories, Inc. listing requirements and limitations shall be complied with.
17. All installations are subject to inspection, test, and approval from Fire Alarm Inspection Unit (FAIU).
18. Any change in Central Station communication service provider shall be reported to FAIU and is subject to re-inspection, test, and approval.
19. Certificate of Approval number shall be plainly and permanently stamped or otherwise fixed upon each product by the applicant.
20. The Fire Department's conditions of approval shall be enumerated in the installation manuals and brochures that will be provided to all New York City buyers and users.
21. Fire Department Certificate of Approval does not constitute an endorsement or recommendation of your product by the Fire Department, but is a certification that your product is acceptable as of the date of issuance.
22. The Fire Department reserves the right to withdraw this approval at any time in the event there is a reasonable doubt that the product does not operate or perform as required by code, the conditions of this resolution or as represented in your application.
23. As the manufacturer of this product, you should be aware that any end user who fails to comply with the condition as outlined in the approval would be subject to enforcement action, which may include fines and imprisonment.
24. This Certificate of Approval does not grant the right to use any trademark associated with the New York City Fire Department (the letters FDNY, the FDNY Shield design, the FDNY Maltese Cross

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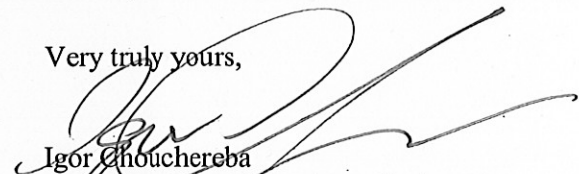
design, and the seal of the City of New York). The unauthorized use of trademarks in connection with the sale of commercial goods or services violates federal and state laws.

25. Products marked to indicate the Certificate of Approval number might refer to the "NYC Fire Department" or "NYC Fire Dept." (e.g., "NYC Fire Dept. Certificate of Approval #XXXX).

Any change in company name or ownership, product name, design or model number of any product included on this certificate must be immediately reported to this Department in writing.

When responding to this Department regarding this subject matter, kindly refer to F.P. Index # 1807049A and to Igor Chouchereba attention, 9 MetroTech Center #1S-43-K, phone (718) 999-1997.

Very truly yours,



Igor Chouchereba
Supervisor of Electrical Installation, II
Technology Management

c: Tamara Saakian, P.E., Director of Technology Management.
cc: Trushant Shah, Deputy Director of Engineering, Technology Management