The waveform shall have a fundamental frequency of 520 Hz ± 10 percent.

The alarm signal shall be a square wave or provide equivalent awakening ability.

Sprinklered: Yes

Audible appliances provided for the sleeping areas to awaken occupants shall produce a low frequency appliance and the pillow. If any barrier, such as a door, curtain, or retractable partition, is located between the notification appliance and the pillow, the sound pressure level shall be measured with the barrier placed between the notification appliance and the pillow. The sound pressure level shall be measured with the barrier placed between the notification appliance and the pillow.

ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED TO MANUFACTURERS SPECIFICATIONS.

THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72.

A PERMANENT WEATHERPROOF SIGN SHALL BE PROVIDED IDENTIFYING THE FIRE ALARM CONTROL PANEL ROOM AND THE APPROPRIATE ZONE ALARM SIGNAL SHALL BE TRANSMITTED TO THE APPROVED CENTRAL STATION FOR WHAT TYPE OF DEVICE WAS ACTIVATED.

THE INSTALLING CONTRACTOR SHALL SET THE DEVICE ADDRESSES AS IDENTIFIED ON THE INSTALLATION WIRING CALCULATIONS). THE SYSTEM SHALL HAVE 24 HOURS OF EMERGENCY STANDBY POWER FOLLOWED BY 5 MINUTES OF ALARM (SEE SYSTEM OPERATION: VOLTAGE FOR NOTIFICATION CIRCUITS SHALL NOT DROP LESS THAN 16VDC.

8.4.5.2 Smoke alarms.

Single- and multiple-station smoke alarms shall be installed in accordance with Section 907.2.11.

8.5.2.3 Group R-2

In Group R-2 occupancies required by Section 907 to have a fire alarm system, all dwelling units and sleeping units shall be provided with the capability to support visible notification appliances in accordance with Chapter 10 of ICC A117.1. Such capability shall be permitted to include the potential for future interconnection of the building fire alarm system with the unit smoke alarms, replacement of audible appliances with combination audible/visible appliances, or future extension of the existing wiring from the unit smoke alarm locations to required locations for visible appliances.

8.4.5 Sleeping Area Requirements.

Where audible appliances are installed to provide signals for sleeping areas, they shall have a sound level of at least 15 dB above the average ambient sound level or 10 dB above the maximum sound level for a duration of at least 60 seconds or a sound level of at least 75 dBa, whichever is greater, measured at the pillow level in the area required to be served by the system using the A-weighted scale.

8.4.5.2 Any barrier, such as a door, curtain, or retractable partition, is located between the notification appliance and the pillow, the sound pressure level shall be measured with the barrier placed between the appliance and the pillow.

8.4.5.3* Notwithstanding the requirements provided for the sleeping areas to awaken occupants shall produce a low frequency alarm signal that complies with the following:

1) The alarm signal shall be a square wave or provide equivalent awakening ability.

2) The waveform shall have a fundamental frequency of 520 Hz ± 10 percent.

3) The notification equipment shall be listed for producing the low frequency waveform.