


<b>TECHNICAL BULLETIN</b> <b>CITY OF RALEIGH, N.C.</b> <a href="http://www.raleighnc.gov">www.raleighnc.gov</a>				<b>OFFICE OF THE FIRE MARSHAL</b>	
Subject	Bulletin #	SECTION	PAGE 1 of 3	EFFECTIVE DATE 9/2/2009	
<b>Entertainment and Sound</b> <b>Shunt Device</b>	TB-15	PREPARED BY Office of the Fire Marshal		Revision Date 06/01/2019	

## 1.0 Purpose

To establish minimum standards in design, installation and performance of systems and equipment designed to shunt or disconnect sound emitting devices during emergency situations.

## 2.0 Organization(s) Effected

City of Raleigh Fire Marshal's Office

## 3.0 References

North Carolina Fire Prevention Code Section (Current adopted edition)

## 4.0 Requirements

### 4.1 **General Requirements**

All amplified entertainment permitted occupancies shall have a shunt trip breaker installed to eliminate the power to all sound producing devices and any special lights associated with the sound. Sound producing devices include, but are not limited to televisions, monitors with sound emitting devices, karaoke equipment, live bands, DJ booths, juke boxes, and microphones. NCFPC authorizes the code official to require any additional safeguards when special hazards exist. Loud music, bright and / or flashing lights and alcohol shall require additional safeguards.

### 4.2 **Installation**

The shunt trip actuator shall be installed at a **constantly attended** location, i.e. DJ booth, front desk, behind a working bar, etc. The actuator shall be fully visible, fully accessible, and unobstructed. The shunt trip actuator shall be a **RED UL LISTED E STOP BUTTON (Emergency Stop Button)**. Maximum height of the shunt trip actuator shall be 6 feet Above Finished Floor.

### 4.3 Conjunction with Fire Alarm System

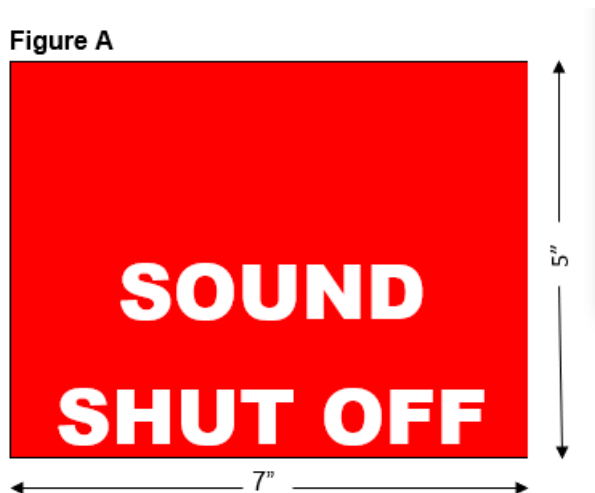
Occupancies having fire alarm systems in which amplified entertainment provisions apply shall have a shunt trip breaker installed in addition to the fire alarm system. The shunt trip breaker shall de-energize all sound producing devices and special lights **EXCEPT FOR FIRE ALARM A/V DEVICES** when any initiating device activates the fire alarm system. Occupancies having a fire alarm system in which amplified entertainment provisions apply shall have the E Stop button installed in addition to the shunt trip breaker. No fire detection or protection device shall be installed on a circuit controlled by a shunt trip device or system.

### 4.4 Performance

The configuration of the shunt trip system shall be such that an activation of either the shunt trip system via the building fire alarm system, the activation of the E Stop button, or both shall require manual resetting of the shunt trip breaker at the breaker panel. **E Stop buttons configured to re-energize the circuit(s) when the plunger is reset to the ready position shall not be accepted.**

### 4.5 Signage

All occupancies in which amplified entertainment provisions apply shall have signage installed at or within 8 inches of the E Stop actuator. Signage shall be of durable construction and permanently affixed. Signage dimensions shall be at minimum 7 inches in width, and at minimum 5 inches in height, with red background, having white lettering at minimum 1 inch in height. Verbiage of sign shall read "SOUND SHUT OFF" (see Figure A. below). Signage shall not be blocked, defaced or obscured at any time. All shunt breakers in breaker panel(s) shall be labeled plainly and legibly "SOUND SHUNT". Sound producing devices shall not be installed into receptacles or on circuits not on the shunt trip circuit.



**EMERGENCY STOP ACTUATORS** : No key operated actuators

