

### 3.01 LED Annunciation Panels (High-Rise and Low-Rise Buildings) (2019)

**Reference:** 2019 SFFC, Sections 907.6.3.1- 907.6.3.3 & 2016 NFPA 72, Section 23.1.1

This bulletin is designed to standardize the San Francisco Fire Department's requirements for LED (light emitting diode) annunciation panels in high-rise and low-rise buildings. It is the Bureau's policy to require that all fire alarm initiating devices (including water-flow alarms), be annunciated, where required by SFFD Administrative Bulletin 3.02, by means of a visual display which indicates the type of device by building floor, zone, or other approved designation from which the signal originated. Audible indication at the panel is required for supervisory and trouble signals. Additionally, visible annunciation shall be provided to indicate the status of emergency equipment that may affect building occupants in a fire situation, i.e. emergency generator, fire pump, etc. Other fire protection systems in the building, such as FM 200, Inergen, Ansul, etc. shall also be annunciated visibly and shall sound the alarm in the appropriate areas.

A red LED type of visual display is required for all fire alarm initiating devices (and for duct detectors generating supervisory signals). An indicator light is required for each type of fire alarm initiating device present on each floor. Manual pull stations, area smoke detectors, duct detectors, elevator lobby and machine/control room smoke detectors, heat detectors, auxiliary alarms, sprinkler water-flow switches, etc. must be indicated separately. Where multiple elevators are provided in the building, separate LEDs shall be included on the annunciation panel for each bank or group of elevators.

**The following must also be indicated on the annunciation panel:**

**Required:**

**1. Annunciation Panel (General):**

- a) Power On: green LED
- b) Fire alarm System General Trouble: yellow LED
- c) Push Button to test all of the Panel's LEDs

**Where applicable:**

**2. Fire Pump:**

- a) Running: green LED
- b) Trouble: yellow LED
- c) Phase reversal (electric): yellow LED
- d) Low fuel (diesel): yellow LED

**3. Emergency Generator:**

- a) Running: green LED
- b) Trouble: yellow LED
- c) Low fuel: yellow LED
- d) Leak detection: yellow LED
- e) Generator Switch in non-automatic position: yellow LED

**4. Secondary Water Supply:**

- a) Low water level: yellow LED
- b) High water level: yellow LED

**5. Air Replenishment System:**

- a) System low air pressure: yellow LED
- b) CO monitoring system (Existing systems with monitors): yellow LED

**6. Emergency Responder Radio Coverage System (ERRCS):**

- a) System General Trouble: yellow LED

**7. Two Way Emergency Communications System (2-Way ECS):**

- a) System General Trouble: yellow LED