

# PATLITE U.S.A.

New Frontiers in Safety, Security and Comfort



## Patlite Signal Towers Improve Emergency Response At Layton City Fire Department

Responding to fire and medical emergencies is a race against time with response time performance being one of the most important indicators of how well emergency personnel are doing their jobs.

Response time performance is measured through a combination of something called "turnout time" and "travel time". Turnout time is measured from the time a 911 dispatcher receives a call to the time emergency personnel actually leave the station en-route to the incident. Travel time is the time it takes for emergency personnel to actually arrive on the scene. An 8 minute response time is recognized to be the absolute minimum level of acceptability.

The Layton City Fire Department (Layton, Utah) takes response

time performance very seriously and they are always looking for ways to improve quality of service to the community they serve. Under the leadership of Chief Kevin Ward, the Layton City Fire Department discovered an innovative and cost effective way to improve emergency response time performance through installation of bright LED signal towers from Patlite Corporation. The signal towers are installed at strategic points throughout the station house allowing emergency

personnel to respond to alarms by sight as well as sound.

Before the Patlite LED signal towers were installed, fire station personnel responded to alarm conditions by listening to a series of pre-programmed audible tones. When an emergency call arrived at the station house a notification signal passed through the station's main controller before the audible alarm was activated. The playback time for each audible tone

alarm and messages lasted from 25 to 30 seconds. If the audible tone was not understood during the first broadcast, the emergency staff had to wait for the message portion before they could begin responding to the call. After the installation of the Patlite LED signal towers, the Layton City Fire Department has been able to reduce response time by at least 10 to 15 seconds, or approximately a 30%

to 50% reduction in response time. A time delay of just a few extra seconds can make the difference between life and death in an emergency situation.

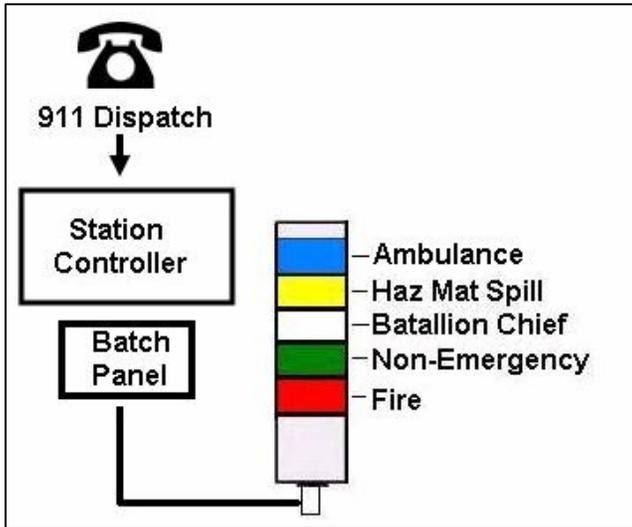
Selecting the proper signal towers was the responsibility of Station Captain, Scott Maughan. Captain Maughan assembled a team from various departments throughout the city to assist him in making the final decision. The team investigated signal towers from several vendors. Eventually the



Top Row L to R----Firefighter Shawn Smith, Asst. Chief Scott Adams, Fire Chief Kevin Ward, Firefighter/Paramedic Ryan Christensen, Battalion Chief Ryan Eckardt  
Bottom Row L to R----Firefighter/Paramedic Doug Robison, Engineer Mike Graham, Captain/Paramedic Michael Sheets

team selected signal towers from Patlite Corporation because of its use of energy efficient LED technology, variety of size and mounting configurations, and ease of installation.

The Patlite signal towers have been installed throughout the station house at strategic locations such as training rooms, sleeping quarters, fire trucks bays, recreation rooms, hallways, and kitchen areas.



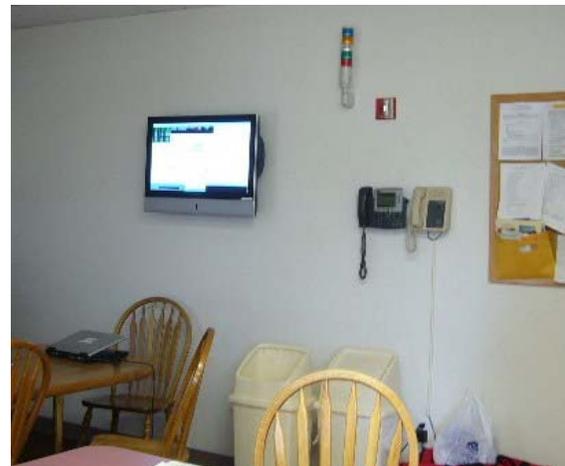
The signal towers are connected to the main controller inside the station house that operates the paging and alarm system. The station control system is in turn connected to the city's 911 dispatch system. When a call is received by the 911 dispatcher, the dispatcher will send a notification message to the station house indicating the type of alarm and the location of the emergency. When the call arrives at the station house, the emergency control system will immediately activate an audible alarm and specific LED module on the Patlite LED signal tower.

Each color module on the signal tower is programmed to indicate a specific alarm condition such as fire or paramedic alarm (red), Battalion chief alarm (white), ambulance alarm (blue), non emergency alarm (green), hazardous spill alarm (yellow), and all hands, & all station (all colors).

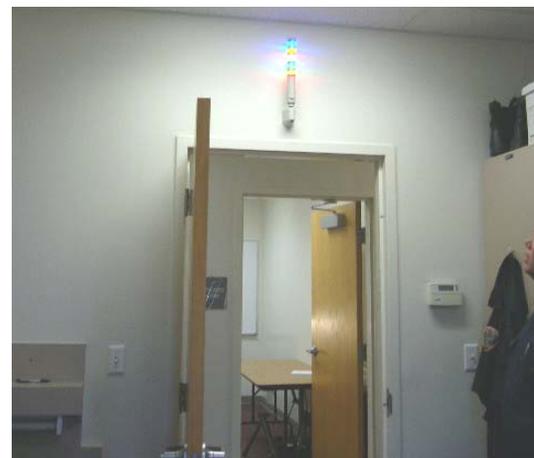
Patlite would like to thank members of the Layton City Fire Department for allowing Patlite to share this information with the broader fire and safety community.



Patlite LED Signal Tower in Reception Area



Patlite LED Signal Tower in Dining Area



Patlite LED Signal Tower in Sleeping Quarters

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