

### SUMMARY

- Coalinga California State Mental Health Facility
- Hospital comprised of 1.2 million gross square feet (gsf) of floor space
- State-of-the-art 1,500-bed forensic hospital
- Over 1200 medical and clinical health positions
- Personal alarm duress system monitors Support Services security personnel
- Intercom and paging system is linked to duress monitoring system and is synchronised to follow a mobile duress event
- 3900 bi-directional speakers are monitored and capable of being paged

### APPLICATION

The Coalinga State Hospital was dedicated on August 24, 2005 followed by the September 2005 opening. The facility is a brand new state-of-the-art 1,500-bed forensic hospital run by the California Department of Mental Health. The maximum-secured facility will ultimately hold up to 1,500 patients – both sexually violent predators and mentally ill inmates - from the California Department of Corrections and Rehabilitation.

The new state hospital began construction in the fall of 2001. The hospital comprises 1.2 million gross square feet (gsf) of floor space. This includes 900,000 gsf for clinical services and programs, 158,000 gsf for support services, 75,000 gsf for administration, and 67,000 gsf for plant operations.

A staff of over 1200 healthcare, administrative, maintenance and security personnel provide treatment services, facility management as well as patient and staff security monitoring.

Staff and patient security is of paramount importance. In addition to a large number of security personnel to help manage patients in lounge areas and under Support Services escort through movement corridors, is a state-of-the-art electronic security system.

The electronic security communications system has two layers: a local intercom system and a duress paging system. The local intercom system consists of traditional intercom stations located at movement control points such as secure doorways and hallways. It is centered around Telecor's T3-SC Controllers with MCC-PL-GM gooseneck microphone Control Consoles integrated to computer touchscreens and PLC's for door and movement control operations. Standard ASCII Serial messages over RS-232 connections enable the T3-SC Controllers to communicate back and forth with the PLC controlled touchscreens. The touchscreens are used to select intercom station icons to both receive and place calls. One of the T3 MCC-PL-GM Consoles is located in the Central Control Office. The other two Consoles are located in Security Rooms for local movement intercom station control. All Controllers are networked together using Telecor's T3-TNB Transfer Network Boards. Control Consoles are manned 24/7, but while off shift or at other required times, the Security Room consoles can be forwarded to Central Control and all call-ins normally routed to the Security Rooms are routed to Central Control over the T3-SC Network.

The second layer of the security communications system is for duress paging and integrates Telecor's T3-SC paging communications capabilities with a wireless personal alarm system.



The alarm system users have the ability to be mobile and, at the same time, the capability of being identified in their exact location in a crisis. The first criterion of a personal alarm system is to notify the monitoring center that an unacceptable situation exists. Next in importance is the ability to give the exact location of this situation. Third is the ability to evaluate the urgency of the situation through audio monitoring and two-way voice communications.

Support Services escorts wear personal alarm call switches. In a duress situation, the security personnel will activate the switch, creating a call-in to the personal alarm monitor. This in turn creates a simultaneous serial message to the Telecor T3-SC Controller in Central Control that opens a listen path to the local bi-directional speaker zone. The security officer at the T3-SC Control Console is able to listen to the situation and determine if additional action is required. The operator, through computer touchscreen icons, can page a message to the monitored speaker zone and then toggle back to listen again. If the situation is a duress call, then appropriate security action is taken with announcements to other security officers advising them to assemble in response staging areas as pictured on the right.

The personal alarm system is wireless and has the ability to track a moving duress situation. Sensors will continue to pick-up the personal alarm and signal its location to the alarm monitoring system. This system in turn will send additional serial messages to the T3-SC Controller that results in the opening of a listen path associated with the new duress position in the facility. The operator is again able to listen and page to the local speaker zone.

In all, there are 3900 bi-directional speakers and intercoms segmented into 210 zones for monitoring and paging to potential duress locations throughout the facility. The T3-SC's paging capabilities enable the listen zone to be rapidly synchronized with the personal alarm monitoring system, enhancing the security officers' ability to respond to developing

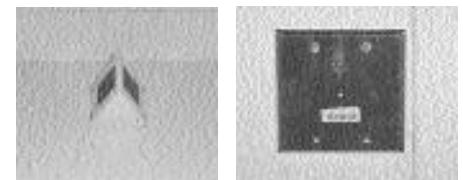
duress situations. Response times are a maximum 1.5 seconds from page zone icon selection to opening the paging/listen circuit.

In addition to the ability to provide two-way audio communications in a mobile duress situation, the system also provides visual indication of movement direction through the use of movement area wall mounted lights, pictured below.

Owner: California Dept. of Mental Health  
Architect: KMD  
Security Electronics Consultant: HK Electrical Engineering LLC  
Integrator: Trentech/Norment



Response Team Assembly Area



Visual Indicator

Alarm Sensor

For more information on this and other Telecor T3-SC applications, please visit our website or contact our offices listed below.

All product information subject to change without notice.