

Los Alamos County Traffic & Streets Traffic Management Center

Overview of Operations

History of the LAC Traffic Management Center (TMC)

Equipment and Software

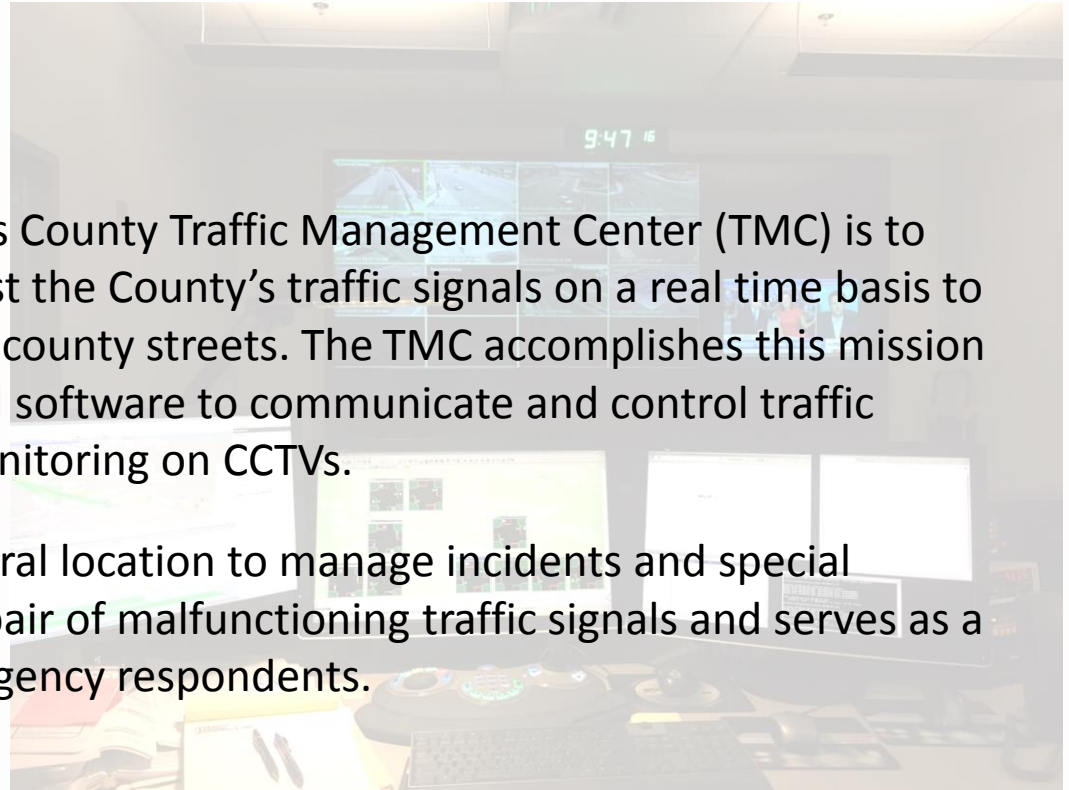


Mission Statement –

- What we do & why we do it –

The mission of the Los Alamos County Traffic Management Center (TMC) is to monitor, coordinate and adjust the County's traffic signals on a real time basis to improve the flow of traffic on county streets. The TMC accomplishes this mission through the use of specialized software to communicate and control traffic signals and through visual monitoring on CCTVs.

The TMC also serves as a central location to manage incidents and special events, identify and direct repair of malfunctioning traffic signals and serves as a coordination point with emergency respondents.



History of the LAC Traffic Management Center (TMC)-

- May 5, 2000 – The Cerro Grande Fire ignites and proceeds to burn over 48,000 acres and destroy over 400 dwellings in Los Alamos.
- May 10 & 11, 2000 – Los Alamos & White Rock are Evacuated



History of the LAC Traffic Management Center -

- December 2005 – Federal grant funding is awarded to Los Alamos County for the initial purchase of equipment to construct and maintain a Traffic Management Center.
- January 2006 – Nancy Talley and Alipio Mondragon travel to Phoenix, AZ to tour TMC's in the metro area. TMC's visited include:
 - City of Phoenix
 - City of Glendale
 - City of Scottsdale
 - City of Mesa
 - Maricopa County
 - City of Chandler



History of the LAC Traffic Management Center -

- June 2006 – Radio and Traffic Signal Central Software is purchased and a limited function TMC is established in the Traffic Division office located at the Trinity Drive Annex.



901 Trinity Dr. Base



Quemazon Repeater



Typical Intersection Install

History of the LAC Traffic Management Center -

- January 2010 – TMC is relocated to its current location in the Traffic & Streets Division Office at Pajarito Cliffs Site Building 1. A 40' communications tower and repeaters are installed on the building to allow communications from the TMC to the repeater at the Quemazon Water Tank.



Pajarito Cliffs Site
Radio Tower Install



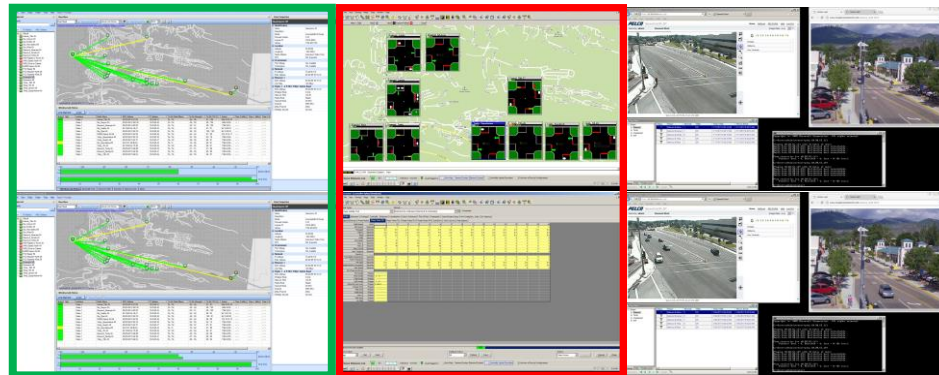
TMC Console &
Video Wall



TMC Server Equipment

Equipment and Software -

- Software –
 - Controller Central Software –
 - IQ Central
 - Radio Control –
 - Encom Stratos
 - Video Display –
 - Control Point
 - Video Detection –
 - Iteris Vantage
 - Traffic Counts
 - Sensys



Equipment and Software -

- Hardware –
 - Communications
 - Encom Broadband Radios 4.9 Ghz Licensed & 5.8 Ghz Unlicensed
 - SM Fiber Connections
 - Display & Control
 - American Video Projection Wall w/Jupiter Video Processor
 - Dual operation console workstations
 - Video –
 - Pelco Spectra IV PTZ Cameras (Surveillance)
 - Iteris RZ-4 Advanced WDR Video Detection Cameras (Detection)
 - Pelco 5100, 8 channel DVR



Equipment and Software -

- Detection Cameras –
 - Iteris RZ-4 Advanced WDR Video Detection Camera
 - Used for vehicle detection at actuated traffic signal approaches
 - 4 Cameras per intersection (one per approach)
 - Monitor movement in the programmed detection zones
 - Can also be used for bicycle detection and vehicle counts
 - Video feed processed by Vantage Video Processor.



Equipment and Software -

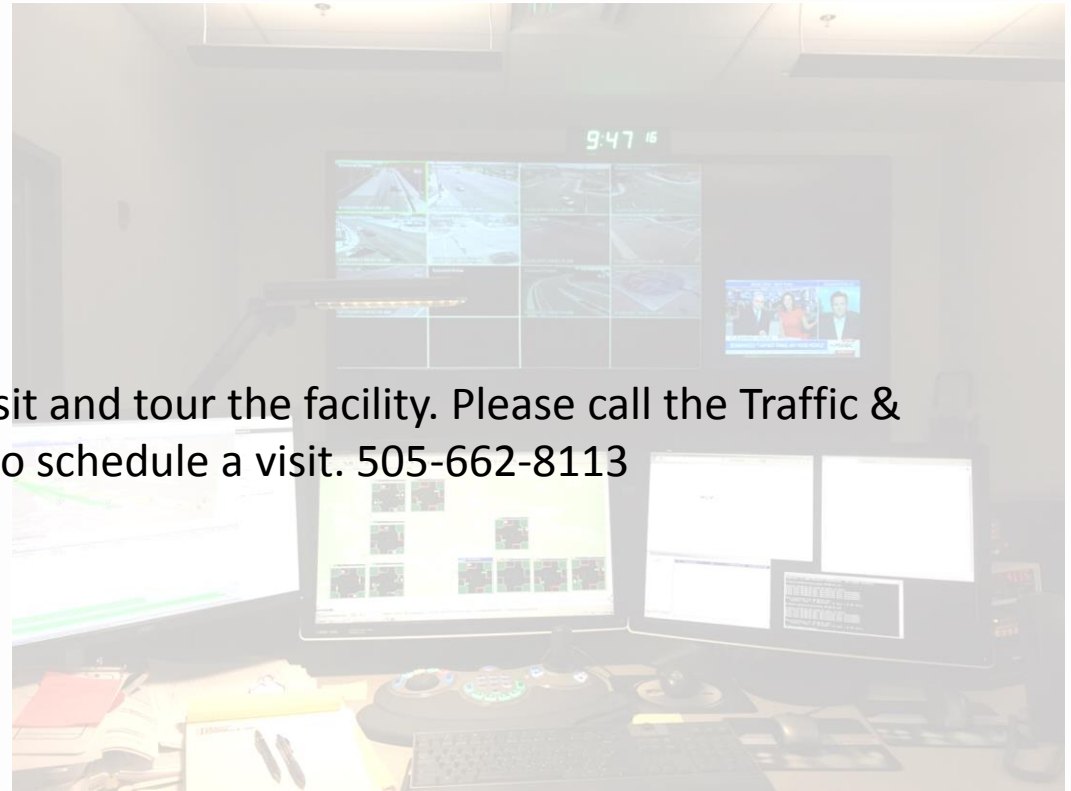
- Surveillance Cameras –
 - Pelco Spectra IV PTZ Cameras
 - Used for traffic monitoring at actuated traffic signal approaches
 - 1 Camera per intersection
 - Used to monitor traffic flow on arterials and collector streets
 - Pan, tilt & zoom ability allow for 360° range of movement
 - Do NOT record or store video feed



TMC Location –

Pajarito Cliffs Site
101 Camino Entrada
Bldg. 1, Rm. 216

Public & visitors are welcome to visit and tour the facility. Please call the Traffic & Streets Division Office in advance to schedule a visit. 505-662-8113



Questions –

