

Radio Communication System Fact Sheet July 5, 2010



The City of Roseville's Motorola-based 800 MHz radio system was originally installed in 1998 with five channels, located at the Roseville Police Department. In 2003 the system was upgraded to a Simulcast system with a second site added at 2999 Douglas Blvd. (zero dollar lease, 30 foot mast on roof of a Class A office building) to provide improved coverage along the City's eastern border. The Police and Fire Dispatch center at Roseville PD currently has nine Motorola Gold Elite radio console positions.

The expansion of the City to the west drove the need for additional capacity and coverage. In 2005 additional channels were obtained (10 total) and a Capital Improvement Project created for a third site, funded by Public Facilities Funds. City Council initially approved an agreement with Motorola on November 4, 2009 to build a new site at 5100 Phillip Road, across from the Pleasant Grove Waste Water Treatment Plant. Construction is set to start in June and end in December.

The East site at 2999 Douglas has geographic (height and location) and capacity constraints that need to be addressed. A significant effort to identify and acquire a single alternative site proved unsuccessful. It is recommended that the Douglas site be relocated and a fourth site (second on the East side) be considered at a currently total estimated cost of \$2.75M. Candidate locations on City-owned properties have been identified based on zoning, location, and coverage. Some of the costs could be offset by reduced in-building bi-directional amplifier requirements.

In March 2010 the City successfully completed an FCC mandated frequency reconfiguration project, paid for by Sprint/Nextel. Some interoperability components will remain in service until the Sacramento County Regional Radio System has completed its reconfiguration in 2011.

Future technology upgrades include replacing dispatch console equipment and the transition to an APCO P-25 compliant digital system. Current estimated cost is \$10M-\$12M.

- Purpose
 - o Provide reliable radio communications for all City departments
- Objectives
 - High reliability while containing costs
- Success Criteria
 - o Uptime
 - Customer satisfaction
- Roles and Responsibilities
 - o Project Sponsor: Ken Wagner-Fire, Michael Blair-Police, Rob Jensen-Public Works, Hong Sae-IT
 - o Project Manager: Dave Applebaum, IT Communications Manager
 - Radio Communications Lead: Karl Grover, Network Analyst
 - Radio Strategic Team: Kevin Dickson, Division Chief, Roseville Fire; Teresa Murray, Commander, Roseville Police Department
- Deliverables
 - Rebanding Completion
 - 99.99% Uptime with Acceptable Interference
 - FCC Licensing Management
- Schedule
 - 10/2010 West-site Tower Completion
 - Year 2015 Regional P25 Compliance