RADIO ACTIVITY SOLUTIONS OFFERS A UNIQUE FIRST OF ITS KIND RADIO COMMUNICATION SYSTEM FOR NORFOLK COUNTY

SITUATION

In 2009, Norfolk County Fire Chief Terry Dicks prepared the Norfolk fire department for moving to a Motorola Solutions MOTOTRBO™ two-way radio system. The first step was the purchase of MOTOTRBO portable and mobile radios for all 11 Norfolk fire stations. The next phase was to move forward with infrastructure to fulfill the strict coverage requirements necessary for operating an efficient fire department. With the limitations of VHF frequencies in the region, the obvious decision was to move to a simulcast system supporting MOTOTRBO two-way radios. After navigating the necessary processes and steps, the decision was made to purchase a county-wide radio communication system.

NEW SYSTEM REQUIREMENTS

• A complete county-wide MOTOTRBO simulcast system in the VHF frequency band;
• 95% coverage 95% of the time throughout the service area of all fire districts;
• Integrated analog paging system;
• And improved capacity for ever increasing emergency calls experienced by all stations.

SOLUTION

Spectrum Communications Ltd, headquartered in London, Ontario, has been the long time service provider for Norfolk County and was asked to design and install the new two-way radio communication system. Working with Fire Chief Dicks and Radio Activity Solutions engineers, Spectrum designed a multi-site VHF simulcast system with an integrated simulcast analog paging system.

The final system design included six IP DMR repeaters for a user base of 200 units. Radio Activity Solutions’ equipment is fully capable of supporting Motorola Solutions’ MOTOTRBO time division multiple access (TDMA) platform.

Radio Activity Solutions’ IP DMR transceivers come in a user-friendly compact design, making it easy for installation in typically crowded municipal water towers. The IP DMR transceivers also come with complete remote diagnostics for technicians to rectify system issues long before the customer is aware of any issues.

RESULTS

• A complete state-of-the-art mixed mode simulcast system to analog paging and voice dispatch;
• IP based network system with critical backup and service diagnostics perfectly suited for mission critical services.