

# 01UR051

## QWEST Wireless L.L.C. – RPC-007A Use On Review Application

---

### INTRODUCTION

QWEST Wireless is in the process of expanding its Personal Communication and Services, or PCS network in Rapid City South Dakota. QWEST Advanced PCS service allows for an all-in-one telecommunication device, integrating the best of both “wired” and “wireless” technologies. QWEST Advanced PCS telecommunication devices represent the next generation of wireless devices, such as: mobile phones with paging and voice mail, caller ID, call waiting, and call forwarding services, wireless fax machines fax modems and fast internet service. In addition, QWEST Wireless is currently the only company to offer its customers the option of using their home or office numbers for their PCS phones.

PCS uses a new digital technology to produce a higher quality transfer of choices and increased security of transmissions versus the older analog systems that are currently being used by some cellular carriers. This digital technology also accommodates the transfer of data and graphics, which is an essential capability in the information age. In addition, PCS operates at a higher frequency, around 1,900-megahertz, and a broader frequency band than conventional cellular. This allows for more simultaneous callers, and greatly reduces the possibility of a call will being rejected because of insufficient capacity.

In order to provide services, QWEST is expanding its PCS network in Rapid City. PCS works by splitting a region into smaller geographic areas called cells, each cell is served by a transmitter and receiver, commonly refereed to as a “microcell”. As a caller moves across the landscape, the call is passed, or “handed-off”, from one microcell to another. Each microcell is connected to a mobile telephone switching office, which is linked to the land based phone network serving your home or office.

When developed, this facility and other neighboring facilities in the network will allow for uninterrupted PCS service within Rapid City. QWEST is committed to providing quality PCS service to Rapid City for years to come.

### PROPOSAL DESCRIPTION

QWEST is requesting approval to construct a 100-communicator pole with an 8-foot flush mount antennas attached to the top of the pole. The communicator pole will be serviced by a 4-foot by 6-foot equipment panel.

This site is part of a larger network that will insure continuous and uninterrupted service throughout Rapid City and its neighboring communities. QWEST Radio Frequency Engineers and Site Acquisition Personal selected this site after an extensive analysis as the primary

**QWEST Wireless L.L.C. – RPC-007A**  
**Use On Review Application**

---

candidate to provide coverage to the Canyon Lake area of Rapid City. Also, this site is a critical link that will connect with sites to expand our services throughout Pennington and Meade Counties. The height of the communication pole was determined by the propagation evaluation that will assure adequate coverage within the targeted area. To be evaluated as a primary site, the RF signal must be strong enough to provide coverage to the targeted area and be able to hand-off from one site to the next to achieve the objective of flawless coverage.

QWEST Zoning Specialist who advises the RF Engineers and Site Acquisition Personal on land-use and zoning issues evaluates the selection of the site further to assure compliance with Rapid City's Zoning Codes and Comprehensive Plan.

**Conclusion:**

The proposed communicator pole and associated equipment is an essential public service to the community and an important part of QWEST Wireless PCS service design in the Rapid City area. QWEST Wireless believes this proposal meets the requirements and conditions of the Zoning Code and solicits that the use on review permit for this proposal be approved.