

01UR042

01UR044



Western Wireless®

June 6, 2001

From:  
Juan C. Zapata  
RF Engineer  
Phone (425) 586 8179  
Fax (425) 586 8815

To: City of Rapid City  
Whom it may concern:

RE: Tower construction for Rapid City MTSO site.

Dear Sirs,

Currently we are looking for a 150 ft tower at this site based on the following circumstances:

- Since this region of the city is primarily rolling hills, the coverage objective will be met by using a 150 ft tower, a lower structure will not provide enough coverage for this area.
- It will be necessary to use a microwave link between the two sites; Rapid City MTSO and Piedmont. A tower shorter than 150 ft will not provide the required line of sight between the microwave antennas on these sites.
- A 150 ft tower will provide extra room for additional antennas allowing collocation with other carriers, therefore, further tower construction in the area for wireless telecommunications will be unnecessary.

Thank you in advance for your time and consideration.

Sincerely,

Juan C. Zapata  
RF Engineer  
SD, IA, MN Region

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June 21, 2001

From:

Juan C. Zapata

RF Engineer

Phone (425) 586 8179

Fax (425) 586 8815

To City of Rapid City  
Whom it may concern:

RE: Sectorization plan for cell sites in Rapid City.

Dear Sirs,

Currently we have a sectorization plan for our cell sites in Rapid City based on the following circumstances:

- Currently we have five sites in Rapid City, one of them is Skyline which is carrying 60% of total traffic in Rapid City, this is an adverse condition for a cellular Network. As a solution the coverage and traffic of Skyline should be spread in five new sites, dispersed along the city.
- The existing sites plus five new sites, all ten sectorized, will configure an optimal cellular network, with enough capacity for all users in Rapid City and better administration of limited channels assigned by the FCC to cellular telecommunications.
- Five new towers dispersed in Rapid City, also will provide infrastructure for collocation with other carriers, therefore, further tower construction for wireless telecommunications surrounding these new towers will be unnecessary.

Thank you in advance for your time and consideration.

Sincerely,

Juan C. Zapata

RF Engineer

SD, IA, MN Region