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PUBLIC SERVICE COMMISSION

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF CELLCO PARTNERSHIP d/b/a )
VERIZON WIRELESS FOR ISSUANCE OF A )
CERTIFICATE OF PUBLIC CONVENIENCE AND )
NECESSITY TO CONSTRUCT AN ADDITIONAL )
CELL FACILITY ON BURDETTE ROAD, RENFRO )
VALLEY, ROCKCASTLE COUNTY, KENTUCKY )
(THE RENFRO 2 CELL FACILITY) )

Case No. 2004-00508

APPLICATION

Cellco Partnership, a Delaware General Partnership, d/b/a Verizon Wireless ("Applicant")
applies for a Certificate of Public Convenience and Necessity to construct and operate an additional
cell facility to serve the customers of its cellular radio telecommunications network in the
Commonwealth of Kentucky. In support of this Application, Applicant, respectfully states that:

1. Its complete name, address and telephone number are: Cellco Partnership, d/b/a
Verizon Wireless, 180 Washington Valley Road, Bedminster, New Jersey 07921, (908)306-7000,
having a local address of 652 South Third Street, Louisville, Kentucky 40202, (502)588-2348.

2. The Applicant is a Delaware general partnership and is therefore not subject to the
Articles of Incorporation filing requirements set forth in 807 KAR 5:063 § 1(1)(a) and 807 KAR
5:001 § 8(1)(3). It is a successor in interest to GTE Wireless of the Mid-West Incorporated and GTE
Wireless of the South Incorporated, both of which contributed assets to Cellco Partnership as the
Public Service Commission was advised by letter dated July 5, 2000, a copy of which is attached
hereto as Exhibit A. Cellco Partnership's Adoption Notice was filed with the Public Service
Commission as "P.S.C. Adoption Notice No. 1" on July 5, 2000, effective pursuant to 807 KAR

5:011 § 9(1) on July 10, 2000. A copy of this Adoption Notice, stamped as "Effective" by the Public Service Commission is additionally attached as part of **Exhibit A**.

3. The Applicant proposes to construct an additional cellular facility in Rockcastle County, Kentucky (the "Cell Facility"). The Cell Facility will be comprised of a 300' self-supporting tower with attached antennas extending upwards for a total height of 325' and an equipment shelter. The equipment shelter will contain the transmitters and receivers required to connect the cell facility with cellular telephone users, which will link the Cell Facility with Applicant's other cells. The Cell Facility will be fenced with a secured access gate. Three (3) Project Description Drawings are being submitted with this Application. A detailed description of the manner in which the Cell Facility will be constructed is included on the Site Plan (scale: 1" = 200'). A reduced copy of the survey is attached as **Exhibit B**. The survey is signed and sealed by Frank L. Sellinger, II, a licensed professional land surveyor registered in Kentucky and it depicts the proposed location of the tower and all easements and existing structures on the property on which the tower will be located. A vertical tower profile and its foundation, each signed and sealed by a professional engineer registered in Kentucky are attached as **Exhibit C**. The tower design plans include a description of the standard according to which the tower was designed.

4. An original geotechnical investigation report performed by FStan Land Surveyors and Consulting Engineers of Louisville, Kentucky, dated October 27, 2004 is attached as **Exhibit D**. The geotechnical investigation report is signed and sealed by Elizabeth W. Stuber, a professional engineer registered in Kentucky. The geotechnical investigation report includes boring logs and foundation design recommendations.

5. As noted on the Survey attached as a part of **Exhibit B**, the surveyor has determined that the site is not within any FIA flood hazard area.

6. The possibility of a strong ground shaking has been considered in the design of this guyed tower. Formulas are given in codes for earthquake loading. The formulas are for lateral loads, and they take into account the seismic zone, ground motion and structure. The two most important components of the structure are its weight and shape. Applying all of the factors to the formula, the resultant earthquake load is less than the design wind load. Seismic loading has been considered in the design of this tower, although it is regarded as secondary to the wind loading.

Even if the tower would fall as result of an earthquake, it should not damage any occupied buildings. In the event of failure of the tower mast, all of the debris will most likely lie within a circle whose center is the tower base and whose radius is no more than 60% of the tower height.

7. Similarly, the possibility of a strong wind has been considered in the design of this tower. It has been designed and engineered by professional engineers using computer assistance and the same accepted codes and standards as are typically used for high-rise building construction. This tower has been designed in accordance with the Electronic Industries Association ("EIA") Standard RS-222E, which has been accepted and approved by ANSI and is a nationally recognized tower design standard. The ANSI/EIA standard utilizes a "stepped" wind loading in tower design. This means that a standardized wind speed (the "basic wind speed") is applied to the tower structure at the 33-foot level and then is "increased" with increments of tower height. In this case, the design wind speed is 75 mph. Using the appropriate wind speed for each antenna level, the thrust of the antenna and its corresponding waveguide load are applied to the tower structure for maximum member loads.

8. Personnel directly responsible for the design and construction of the proposed tower are qualified and experienced. The soil testing and part of the foundation design was performed by FStan Land Surveyors and Consulting Engineers of Louisville, Kentucky under the supervision of Elizabeth W. Stuber, a registered professional engineer in the Commonwealth of Kentucky. His specialty is geotechnical engineering which includes sub-surface exploration and foundation design. He has served as project and principal engineer on various projects similar to the applicant's. These projects include construction, tower crane foundations, and nexrad doppler radar towers, other mobile telephone towers and elevated water towers. Foundation types for these towers have included drilled piers, auger-cast piles, driven piles and spread footings. Design of the tower and foundation was performed by Central Tower Company of Newburg, Indiana under the supervision of W. Gray Hodge, a licensed professional engineer in the Commonwealth of Kentucky. The applicant uses qualified installation crews and site inspectors for construction of its towers.

9. The public convenience and necessity require the construction of this additional Cell Facility. The additional Cell Facility is essential to improve service to Applicant's current customers in that transmission and reception "weak spots" within the area to be covered by the Cell Facility will be substantially reduced. The Cell Facility will also increase the system's capacity to meet the increasing demands for cellular service in Kentucky.

The process that was used in selecting the site for the proposed Cell Facility by the applicant's radio frequency engineers was consistent with the process used for selecting generally all other existing cell facilities within the licensed area. The engineers used computer programs to locate cell sites that will enable the cell facilities to serve the Federal Communications Commission certificated territory without extending beyond its approved boundary and to meet other mandates of the

Commission. The engineers select the optimum site in terms of elevation and location to provide the best quality service to customers in the service area. A map of the area in which the tower is proposed to be located, that is drawn to scale and that clearly depicts the necessary search area within which a site should be located as determined by the Applicant's Radio Frequency Engineers is attached as **Exhibit E**.

It is imperative that the proposed Cell Facility be constructed to allow Applicant to meet its licensing requirements as mandated by the Federal Communications Commission and to further meet the increasing demands for cellular service in the licensed area.

10. The Cell Facility will serve an area totally within Applicant's current service area in the licensed area.

11. Since the proposed Cell Facility will serve only the licensed area, no further approvals by the Federal Communications Commission ("FCC") are required. See 47 C.F.R. §24.11(b), "[b]lanket licenses are granted for each market and frequency block. Applications for individual sites are not required and will not be accepted."

12. An Application to the Federal Aviation Administration ("FAA") was filed on September 23, 2004, a copy of which is attached as **Exhibit F**. Upon receiving a determination from the FAA, the applicant will forward a copy of such determination as a supplement to this Application. An Application to the Kentucky Airport Zoning Commission ("KAZC") was filed on November 24, 2004, a copy of which is additionally attached as **Exhibit G**. Upon receiving a determination from KAZC, the applicant will forward a copy of such determination as a supplement to this application.

13. The proposed location of the tower is not within a jurisdiction that has adopted planning and zoning regulations in accordance with KRS Chapter 100. The Applicant has notified the Rockcastle County Judge Executive, by certified mail, return receipt requested, of the proposed construction. The Applicant included in the notice the Commission docket number under which the application will be processed and informed said person of his right to request intervention. A copy of the notice is attached as **Exhibit H**.

14. The Cell Facility will be located off Burdette Road, Renfro Valley, Rockcastle County, Kentucky. Appropriate notices 2' X 4' with the word "TOWER" in letters at least four inches high, have been posted in a visible location on the proposed site and on the nearest public road and shall remain posted for at least two (2) weeks after the Application is filed. The location of the proposed facility has been published in a newspaper of general circulation in Rockcastle County, Kentucky. The Cell Facility's coordinates are: Latitude: 37° 24' 39.53"; Longitude: 084° 19' 55.64".

15. Clear directions to the proposed site are set forth on the title sheet to the Project Description Drawings. The Vicinity Map attached to the Survey identifies every structure within 500' of the proposed tower, and all easements and existing structures within 200' of the access drive, including the intersection with the Public Street System, drawn to a scale no less than one (1) inch equals 200'. The telephone number of the person preparing the directions is (502)459-8402.

16. Applicant has notified every person who is contiguous or within 500' of the proposed tower by certified mail, return receipt requested, of the proposed construction. Applicant included in said notice the Commission docket number under which the Application will be processed and

informed each person of his or her right to request intervention. A list of the property owners and copies of the certified letters sent to the referenced property owners are attached as **Exhibit I**. Copies of the return receipts will be filed with the Commission when received.

17. The site for the proposed Facility is located in a rural area situated off Burdette Road, near Renfro Valley, Rockcastle County, Kentucky, on the Iona Parsons property. The proposed site is a rural area and the subject property is not zoned.

18. Applicant has considered the likely effects of the installation on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate service can be provided. Applicant attempted to co-locate on existing towers or structures, however, there are no such existing towers or structures in the vicinity of the proposed site.

19. The site for the Cell Facility is to be leased from Iona Parsons, pursuant to a Option and Lease Agreement dated November 3, 2004. A copy of the Option and Lease Agreement is attached as **Exhibit J**.

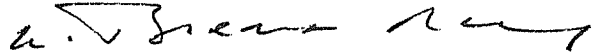
20. The names of all public utilities, corporations, or persons with whom the proposed new construction is likely to compete is Cingular Wireless, RamCell, Sprint PCS, Nextel Partners, and AT&T Wireless

21. Applicant plans to finance the construction of the Cell Facility through the use of working capital. If sufficient funds are not available from this source, the company will obtain funds through short-term loans payable within two years.

22. Any customer complaints may be reported by dialing 611 on the customer's cellular phone.

WHEREFORE, Applicant requests that the Commission, pursuant to KRS 278.020, grant a Certificate of Public Convenience and Necessity to Applicant for construction and operation of the proposed Cell Facility and providing for such other relief as is necessary and appropriate.

Respectfully submitted,



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COUNSEL FOR CELLCO  
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WIRELESS

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## **LIST OF EXHIBITS**

Exhibit A	Applicant Adoption Notices
Exhibit B	Reduced Site Plan and Survey
Exhibit C	Tower and Foundation Profile
Exhibit D	Report of Geotechnical Exploration
Exhibit E	Search Area Map
Exhibit F	FAA Application
Exhibit G	KAZC Application
Exhibit H	Correspondence to Rockcastle County Judge Executive
Exhibit I	Notice to Adjoining Property Owners
Exhibit J	Real Estate Lease Agreement