

1578 Highway 44 East, Suite 6 P.O. Box 369 Shepherdsville, KY 40165-0369 Phone (502) 955-4400 or (800) 516-4293 Fax (502) 543-4410 or (800) 541-4410

RECEIVED

SEP 29 2017

PUBLIC SERVICE COMMISSION

September 28, 2017

VIA EXPRESS MAIL

John S. Lyons
Acting Executive Director
Kentucky Public Service Commission
P.O. Box 615
Frankfort, KY 40602-0615

Re:

Response to the Motion to Intervene

PSC Case No.: 2017-00369 Site Name: Welcome Rd

Dear Mr. Lyons:

Please accept this letter and the attached Response to the Motion to Intervene as an official filing in the above-referenced Public Service Commission action. If you have any questions or comments concerning this matter, please do not hesitate to contact me.

Sincerely,

David A. Pike

Attorney for New Cingular Wireless PCS, LLC d/b/a AT&T Mobility

Enclosure

cc: J.E.B. Pinney, Div. of General Counsel

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COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

SEP 2 9 2017

PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF)
NEW CINGULAR WIRELESS PCS, LLC)
D/B/A AT&T MOBILITY)
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC) CASE NO.: 2017-00369
CONVENIENCE AND NECESSITY TO CONSTRUCT)
A WIRELESS COMMUNICATIONS FACILITY)
IN THE COMMONWEALTH OF KENTUCKY)
IN THE COUNTY OF BUTLER)

SITE NAME: WELCOME RD

* * * * * * *

RESPONSE IN OPPOSITION TO MOTION TO INTERVENE

Applicant New Cingular Wireless PCS, LLC, d/b/a AT&T Mobility ("AT&T Mobility"), by counsel, makes this Response to the Motion to Intervene submitted September 20, 2017 by Coty Whittinghill in the within proceeding. Applicant respectfully states, as follows:

- 1. Coty Whittinghill, by said Motion to the Kentucky Public Service Commission, opposes the within application based on generalized concerns regarding environmental effects of RF emissions, property values, and the aesthetics of the proposed communication facility. However, as presented in the subject Application and as discussed herein below, there is no ground for denial of the subject application, and substantial evidence supports approval of the requested Certificate of Public Convenience and Necessity ("CPCN").
- 2. In accordance with KRS Chapter 100 and the Telecommunications Act of 1996 ("TCA"), the environmental effects of radio frequency emissions are not at issue in this

case and may not be considered by the Public Service Commission in its evaluation of the proposed facility. Radio frequency emissions are the subject of federal regulation, and the TCA expressly prohibits state regulation of wireless communications facilities on the basis of environmental effects or radio frequency emissions. Specifically, the Federal Telecommunications Act of 1996, as codified at 47 U.S.C. Section 332(7)(B)(iv), provides:

"No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the [Federal Communication] Commission's regulations concerning such emissions."

- 3. Applicant is licensed by the Federal Communications Commission ("FCC") to provide wireless communications services to the area to be served by the proposed wireless communications facility, and a copy of the relevant FCC license granted to AT&T Mobility was filed as part of the subject Application. Accordingly, Applicant is subject to the FCC regulation referenced at 47 U.S.C. Section 332(7)(B)(iv).
- 4. The U.S. Court of Appeals for the Sixth Circuit has upheld the prohibition of consideration of the environmental effects of radio frequency emissions in Kentucky Public Service Commission proceedings regarding wireless communications facilities. Specifically, in <u>Telespectrum, Inc. v. Public Service Commission</u>, 227 F.3d 414 (6th Circuit 2000), the Court held:

"[C]oncerns of health risks due to the emissions may not constitute substantial evidence in support of denial by statutory rule, as no state or local government or instrumentality thereof may regulate the construction of personal wireless facilities "on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission's regulations concerning such emissions." 47 U.S.C. § 332(c)(7)(B)(iv)." Id at 425.

Earlier this year, the Sixth Circuit reemphasized the federal statutory prohibition of

consideration of radio frequency emissions effects in Robbins v. New Cingular Wireless PSC, LLC, 854 F.3d 315 (6th Cir. 2017):

"Congress passed the TCA to foster industry competition in local markets, encourage the development of telecommunications technology, and provide consumers with affordable access to telecommunications services. Telecommunications Act of 1996, Preamble, Pub. L. No. 104-104, 110 Stat. 56 (1996). The TCA furthers those goals by preventing local governments from impeding the siting and construction of cell towers that conform to the FCC's RF-emissions standards. See 47 U.S.C. § 332(c)(7)(B)(iv). By delegating the task of setting RF-emissions levels to the FCC. Congress authorized the federal government—and not local governments—to strike the proper balance between protecting the public from RF-emissions exposure and promoting a robust telecommunications infrastructure. See id.; In the Matter of Procedures for Reviewing Requests for Relief from State & Local Regulations Pursuant to Section 332(c)(7)(b)(v) of the Commc'ns Act of 1934 in the Matter of Guidelines for Evaluating the Envtl. Effects of Radiofrequency Radiation, 12 F.C.C. Rcd. 13494, 13505 (1997)." Id. at 319-320.

Of course, as they are required to do, the U.S. District Courts in Kentucky have followed the Sixth Circuit's lead in application of the TCA. <u>PI Telecom Infrastructure V, LLC v. Georgetown-Scott County Planning Commission</u>, 2017 U.S. Dist. LEXIS 18920 (E.D. Ky. 2017) ("... the TCA provides that local cell tower regulation "shall not prohibit or have the effect of prohibiting the provision of personal wireless services."")

5. In response to Mr. Whittinghill's generalized concerns regarding property values, Applicant has attached as **Exhibit A** a report from Glen D. Katz, MAI, SRA, Al-GRS, AI-RRS, a property valuation expert, concluding that the proposed tower will not have an impact on surrounding property values. In this instance, Butler County has not adopted planning and zoning regulations, nor has it adopted regulations regarding the placement, construction and modification of wireless communications facilities. Any property purchased in Butler County is acquired with the understanding that the surrounding neighbors are free to develop their property in any manner they desire

without regulation from local government or input from area residents. This circumstance is factored into the sales price of all real estate in Butler County. For this reason, area residents have no reasonable expectation of input into the land use of surrounding properties or the impact a proposed land use will have on their property values.

- 6. In response to Mr. Whittinghill's generalized concerns regarding aesthetics, the proposed facility has been designed, configured, and located in such a manner that it will prevent or limit potential adverse effects on surrounding properties. The alternate site analysis report attached as **Exhibit B** demonstrates that the proposed location is the least intrusive available alternative. Furthermore, the tower will be galvanized steel to minimize its visibility.
- 7. The U.S. Court of Appeals for the Sixth Circuit has upheld that lay opinion or generalized aesthetic concerns are not substantial evidence justifying a rejection of this application. Any decision rendered by state or local authorities must be in writing and supported by substantial evidence in a written record. Federal Courts in the 6th Circuit has defined "substantial evidence" in previous cases. For example, the locality's own zoning requirements are an example of substantial evidence. Cellco Partnership v. Franklin Co., KY, 553 F. Supp. 2d 838, 845-846 (E.D. Ky. 2008). Of course, in this instance Butler County has not adopted zoning requirements. Courts in the 6th Circuit have found that lay opinion is not substantial evidence. Cellco Partnership at 852 and T-Mobile Central, LLC v. Charter Township of West Bloomfield, 691 F.3d 794, 804 (6th Cir. 2012). They have also found that unsupported opinion is not substantial evidence. Cellco Partnership at 849. Generalized expressions of concerns with "aesthetics" are not substantial evidence. Cellco Partnership at 851. Claims the tower is unsightly are

generalized expressions of aesthetical concerns and the same objection could be made by any resident in any area in which a tower is placed. <u>Cellco Partnership</u> at 852. General concerns that the tower is ugly or unwanted near an individual's residence are not sufficient to meet the 6th Circuit substantial evidence test. <u>T-Mobile Central</u> at 800. Finally, anyone who opposes a tower in their backyard can claim it would be bad for the community, not aesthetically pleasing, or is otherwise objectionable, but such claims would not constitute substantial evidence. <u>T-Mobile Central</u> at 801.

8. When Mr. Whittinghill's Motion to Intervene is read in connection with the statutory and Sixth Circuit prohibition of consideration of radio frequency emissions effects of a wireless communications facility, it is clear that it may not be lawfully granted. Mr. Whittinghill's candid identification of the prohibited issues he wants to address leave the Commission no choice but to reject his request in order to preserve the integrity of this proceeding.

WHEREFORE, there being no ground for denial of the subject application and substantial evidence in support of the requested CPCN, Applicants respectfully request the Kentucky Public Service Commission:

- (a) Accept this Response for filing;
- (b) Deny the Motion to Intervene;
- (c) Implement affirmative measures to prevent introduction and consideration of testimony and other evidence on radio frequency issues in any proceedings and from its deliberations on the subject application for approval of a wireless telecommunications facility, pursuant to KRS Chapter 100 and the Telecommunications Act of 1996;

- (d) Issue a Certificate of Public Convenience and Necessity to construct and operate the WCF at the location set forth herein without further delay; and
- (e) Grant Applicant any other relief to which it is entitled.

Respectfully submitted,

David A. Pike

Pike Legal Group, PLLC

1578 Highway 44 East, Suite 6

Pavid a Relse

P. O. Box 369

Shepherdsville, KY 40165-0369

Telephone: (502) 955-4400

Telefax:

(502) 543-4410

Email: dpike@pikelegal.com

CERTIFICATE OF SERVICE

The undersigned hereby certifies that on this 28th day of September 2017, a true and accurate copy of the foregoing was sent by U.S. Postal Service first class mail, postage prepaid, to the following:

Coty Whittinghill 203 Lonnie Snodgrass Rd Morgantown, KY 42261

David A. Pike

Attorney for Applicant

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LIST OF EXHIBITS

- A Real Estate Valuation Report
- B Alternate Site Analysis Report

EXHIBIT A REAL ESTATE VALUATION REPORT

REAL ESTATE VALUE IMPACT STUDY

FOR

PROPOSED WIRELESS COMMUNICATIONS FACILITY
NEW CINGULAR WIRELESS, LLC, D/B/A AT&T MOBILITY
SITE NAME: WELCOME RD
PSC CASE NO.: 2017-00369
ASSESSOR PARCEL NUMBER: 082-01-00-051.04
5545 CANEYVILLE ROAD
MORGANTOWN, BUTLER COUNTY, KY 42261

DATE OF REPORT

September 27, 2017

PREPARED FOR

Kentucky Public Service Commission 211 Sower Boulevard Frankfort, KY 40601

PREPARED BY

Glen D. Katz, MAI, SRA, AI-GRS, AI-RRS Realty Solutions Co., Inc. 3815 Stonyrun Circle Louisville, KY 40220

Realty Solutions, Co., Inc.

Finding Answers to Real Estate Problems

September 27, 2017

Kentucky Public Service Commission 211 Sower Boulevard Frankfort, KY 40601

Subject: Real Estate Value Impact Study

Proposed Wireless Communications Facility

New Cingular Wireless, LLC, d/b/a AT&T Mobility

Site Name: Welcome Rd

Assessor Parcel Number: 082-01-00-051.04

5545 Caneyville Road

Morgantown, Butler County, KY 42261

Commissioners:

I have completed an impact study regarding potential effects of wireless communication tower facilities on market value of surrounding residential properties, specifically addressing the subject location. Attached is my analysis.

Based on investigation and analysis of market conditions, I conclude the proposed facility will not result in any diminution of value for properties located with proximity to the proposed facility, or the neighborhood in general. Consistently, market evidence supports the positive influences and expansion of wireless telecommunications tower infrastructure.

Thank you for the opportunity to present this information. Please contact me if you have questions or comments.

Respectfully,

Glen D. Katz, MAI, SRA, AI-GRS, AI-RRS

Slan D. KATZ

Realty Solutions Co., Inc. 3815 Stonyrun Circle

Louisville, KY 40220

Office (502) 396-6664 Email gkatz@usa.net

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SUMMARY OF FACTS AND CONCLUSIONS

In the course of studying potential value influence due to proximity of private or public utility facilities to residential and commercial properties, I have performed impact analysis on wireless communication tower facilities, high voltage transmission lines, storage towers, oil pipelines, and federal interstates. For the subject property, my analysis consists of analyzing potential increased or decreased value trends of residential properties resulting from proximity to tower facilities.

The subject property is identified by a site and neighborhood analysis using aerial maps and government census data. Neighborhood and market characteristics are observed to understand the four forces that affect value; social forces, economic forces, governmental forces, and environmental forces.

The subject neighborhood does not have land-use zoning regulations. This is a frequent occurrence in low-density development and rural areas, and there are accepted risks by property owners because of the lack of control on land uses. Without localized land-use regulations, all legal uses of land are available. Land uses with a high impact on surrounding properties or a community in general, typically are characterized as producing adverse noise, odor, traffic, lighting, view, or neglected construction.

As a result, there is a higher risk expectation by buyers when making purchase decisions, regarding the quality and type of use of un-zoned properties, and related influences on value. Regardless of these risks, communities without land-use controls continue to expand and develop need for public utilities. They are still influenced by social, economic, governmental and environmental forces.

The facility will be located in a residential and agricultural area. The construction improvements will be comprised of a 255' structure with 15' lightning arrestor, totaling a structure height of 270'. There will be supporting storage cabinets and protective fencing. These characteristics are some of the most common for wireless communication tower facilities in Kentucky.

The impact study applying to this project consists of studying value influences at existing tower locations. The methodology is based on measurement of value change (appreciation or depreciation) over time, and direct comparison of properties with and without distance or view proximity exposure.

Specifically, the following steps are taken in analysis;

- Identify existing tower locations with an adequate density of surrounding developed land uses (residential and/or commercial)
- Identify the surrounding market area and neighborhood to determine if there are compatible and competing properties with adequate sale activity
- Categorize sales by proximity characteristics for measurement of influence, whether distance or visibility. Typically a distance of 500' to 1,000' is a threshold of measure for close-proximity sales. At further distances, the category changes to non-proximity, as tower views become blurred or obscured by trees, roofs, or topography. Tower view may also be absorbed by other skyline features of power lines, towers or tanks

- Track value change over time of properties in close proximity and non-proximity, or; track value change before and after a facility is installed
- Compare the results to determine if there is a difference in value due to tower facility exposure

Based on the data and analysis for projects like the subject, the values and rates of value change for proximity and non-proximity residential properties are the same. This is not unusual or unexpected. The market forces that drive real estate value also create complimentary demand for tower projects. These market forces are discussed as follows:

- > Social forces are influenced by; population, education, and lifestyles. There is increasing need for communication facilities, and satisfying demand for communication facilities as part of the core supply of public services is expected by the population. Anything less is detrimental to value or demand.
- Economic forces are influenced by; employment, wages, business, regional and community development. With the increasing diversification of work forces and efficiencies needed to be competitive, effective communication facilities are required.
- > Governmental forces respond to population needs for; laws and policies; public services; zoning, and building codes. The governmental regulations that result in enabling public services provided by communication facilities are a direct reaction to public needs.
 - As indicated prior, the subject neighborhood does not have land-use zoning regulations. Buyers have absorbed the risk associated with lack of zoning when making purchase decisions regarding the quality and type of use of un-zoned properties, and related influences on value. Regardless of these risks, communities without land-use controls continue to expand and develop need for public utilities.
- ➤ Environmental forces are the final determining factor. They deal with climate, topography/soil, natural barriers, transportation systems and linkages, and the nature and desirability of the immediate area surrounding a property. These forces shape the location of a population, and where supporting infrastructure will be most effective and valuable as a resource.

As illustrated by study results, the forces of value are consistent. Public utilities and related services are essential to meeting the accepted standard of living for neighborhood populations. Without adequate services, there will be a tendency for decreasing demand and property values in a neighborhood. In order to meet needs of a population, telecommunications towers have become a common part of the landscape in much the same way that power and telephone lines and other utilities have. Like all utilities, telecommunications towers are needed in strategic locations in any community.

Property owners near tower facilities, other highly visible utility structures, underground pipelines, associated easements, etc., are not penalized on value. Effectively, tower structures, like overhead electric distribution lines, signage, and buried utility easements, are beneficial. Due

to expanding utilities and increased services, properties experience positive influences. Because of the increasing volume of similar structures over the past several decades, owners and buyers of residential properties expect service-related infrastructure. Any perceived negative proximity influences are absorbed by the landscape of a neighborhood and lifestyles of the population.

Therefore, based on market information, it is my opinion that the proposed facility will not adversely influence the value of properties in the immediate or general area.

REPORT DEVELOPMENT - SCOPE OF WORK

Scope of work refers to the type and extent of research and analysis in an appraisal consulting assignment. Scope of work is an important component for fundamental development and communications of analyses, and is comprised of the following:

- 1. identify the problem to be solved;
- 2. determine and perform the scope of work necessary to develop credible assignment results; and
- 3. disclose the scope of work in the report.

The scope of work used in preparing this report is included throughout this report in the various descriptions and analysis. The following topics give a general overview of the scope of work.

Extent to which the property is identified

- The subject property is identified by a site and neighborhood analysis using aerial maps and government census data. Neighborhood and market characteristics are observed to understand the four forces that affect value:
 - > social forces:
 - > economic forces;
 - > governmental forces, and;
 - > environmental forces

Type and extent of the data researched

 Tower facilities, whether wireless communication, high tension electrical transmission, or water storage, are identified for analysis based on residential and/or commercial exposures.

Type and extent of analyses applied

The data extraction is available by several methods. Sales of residential properties are tracked to establish rates of value change due to market conditions and potential influence from nearby tower facilities. Comparison is made between value trends of properties in proximity, and without proximity to tower facilities. Three prevalent methods of data extraction are discussed as follows:

First is "Before and After" data. This analyzes value trends for close proximity properties before and after installation of a facility. Sale data before a facility is installed is directly compared to sale data after a facility is installed. This method has limitations when the facility installation occurred in the distant past. Older sales may have incurred significant physical changes (renovation, updating, addition) and/or economic changes

(2007-2009 recession, changes in highest and best use). In these cases, value change over a long time period would be attributed to multiple sources, and allocating the change solely to tower influence would be misleading.

- Next is unit-value comparison of sales identical in all aspects, except proximity. This directly compares sales and values of substitute properties similar in physically marketable characteristics. The unit value will commonly be price per-square-foot of gross living area. The information will not only identify any price differentials but also value trend or change differences. This method has limitations due to the vast number of property differences and difficulty in matching properties that are identical with the exception of proximity.
- ➤ The most common method is timeline trend comparison. This compares value trends of properties located in close proximity to existing tower facilities, to value trends of properties located without proximity. Rates of value change due to time are compared between the two property types to extract any differences due to proximity to a tower facility. This is most meaningful with sale data from 2009 to the current date, as it is most recent, and reflects post-recession activity.

Because of the data currently available, the "before and after" and "timeline trend" methods are utilized.

PURPOSE OF REPORT

The purpose of this report is to develop an opinion of the potential market value effect on surrounding properties from proximity to the identified wireless communication tower facility.

INTENDED USER OF THE REPORT

This report is intended for use by Pike Legal Group, PLLC, and the identified governmental approving panel for the project.

INTENDED USE OF THE REPORT

The intended use of the appraiser's opinions and conclusions is to assist Pike Legal Group, PLLC and the governmental approving panel, in making permitting decisions regarding the subject property. This report is not intended for any other use.

DEFINITION OF VALUE

Kentucky Definition of Market Value

The Kentucky Constitution and the statutes define fair cash value, or fair market value as: "...estimated at the price it would bring at a fair voluntary sale..."

Fair Market Value (aka Fair Cash Value) is defined as the most probable price expressed in terms of money that a property would bring in an "arm's-length transaction" between a willing seller and willing buyer, both of whom are knowledgeable concerning all the uses to which it is adapted and for which it is capable of being used. There are several requirements for a sale to be considered an "arm's-length transaction:"

- 1. A willing buyer and a willing seller. Neither may be acting under duress with no advantage being taken by buyer or seller.
- 2. Property must be marketed for a reasonable amount of time to locate a willing buyer.
- 3. Both buyer and seller must be informed and knowledgeable about the property and its potential.
- 4. No unusual circumstances may be present in the transaction.

IDENTIFICATION OF PROJECT

Proposed Wireless Communications Facility New Cingular Wireless, LLC, d/b/a AT&T Mobility

Site Name: Welcome Rd PSC Case No.: 2017-00369

Assessor Parcel Number: 082-01-00-051.04

5545 Caneyville Road

Morgantown, Butler County, KY 42261

The facility will be located in a residential and agricultural area. The construction improvements will be comprised of a 255' structure with 15' lightning arrestor, totaling a structure height of 270'. There will be supporting storage cabinets and protective fencing. These characteristics are some of the most common for wireless communication tower facilities in Kentucky.

CASE STUDY INTRODUCTION

The following case studies are developed through researching and analyzing market activity of residential properties in neighborhoods adjacent to tower facilities. After identification of a tower facility, whether wireless communication, high tension electrical, or water storage tower, sale activity of homes are researched.

With the information available, both the before and after, and timeline trend methods are used.

For projects that have been in place for a lengthy time period, the timeline trend steps of analysis consist of:

- Research properties with tower proximity that have repeat, or back-to-back sales.
- Determine the monthly or annual rate of market value appreciation or depreciation over the time period for the individual properties and the property category.
- Research properties in the same neighborhood, without tower proximity, that have repeat or back-to-back sales.
- Determine the monthly or annual rate of market value appreciation or depreciation over the time period for the individual properties and the property category.
- Compare the value change trends of the two groups of property to extract potential value change differences related to proximity influence.

For projects that have been recently constructed, the before and after method steps of analysis consists of:

- Research residential properties with tower proximity that sold prior to the tower installation, and then sold again after the tower installation.
- Determine the monthly or annual rate of market value appreciation or depreciation over the time period for the individual properties and the property category.
- Research properties in the same neighborhood without tower proximity that sold prior to the tower installation, and then sold again after the tower installation. Determine the monthly or annual rate of market value appreciation or depreciation over the time period for the individual properties and the property category.
- Compare the value change trends of the two groups of property to extract potential value change differences attributed to proximity.

The date range for sale data is from 2009 to the current date. This minimizes potential influence of the 2008-2009 recession. In order to track rates of value change during the period, repeat or back-to-back sales of individual residential properties inside and outside a proximity range of 500' to 1,000' from a facility are researched.

In order to focus on the influence on appreciation or depreciation from market conditions and proximity, emphasis is placed on properties with stable physical characteristics, and without unusual sale conditions or buyer/seller motivation influences. Specifically, properties with the following characteristics are discounted from analysis:

• Properties with significant physical changes that would influence value between the original and subsequent transfers, such as renovation, addition, or deferred maintenance resulting in deterioration.

- Properties with distressed economic ownership characteristics, such as foreclosure or short-sale influence.
- Properties with other unusual buyer or seller motivations, such as family transactions, estate liquidation, or investor activity in a predominantly owner-occupied market.

If this type of non-arms-length activity is prevalent in a neighborhood, the facility and neighborhood is removed from consideration. Ultimately the focus is to measure general market activity that is not influenced by unusual property-specific or market-specific characteristics.

The following case studies illustrate analysis for two categories of tower facilities; high tension electrical transmission lines and wireless communication towers. Two of the case studies compare rates of value change between proximity and non-proximity properties, and one case study compares values of proximity and non-proximity properties before and after installation of a facility.

CASE STUDIES

Case Study 1 – This study involves a high tension overhead electric power line corridor with lattice construction transmission towers. The line traverses a residential single-family detached and condominium neighborhood. The tower structures and overhead electric lines in this location are located in easements in the middle of residential subdivision development, crossing a public street in a long diagonal direction, and continuing through residential subdivision development.

The project was installed pre-1993. The value evidence is presented by sales and resales of properties within 500' proximity to the utility, and outside 500' proximity to the utility. Rates of appreciation and deprecation of each of the two categories are developed, and the two categories are compared to analyze any potential influence.

Case Study 2 – This study involves a wireless communication facility adjacent to a residential single-family detached and condominium neighborhood. The tower structure is 219' height, lattice construction.

The project was installed in 2002. The value evidence is presented by sales and resales of properties within 750' proximity to the utility, and outside 750' proximity to the utility. Rates of appreciation and deprecation of each of the two categories are developed, and the two categories are compared to analyze any potential influence.

Case Study 3 – This study involves a wireless communication facility adjacent to a residential single-family detached neighborhood. The tower structure is 140' height, monopole construction.

The project was installed in 2016. The value evidence is presented by sales and resales of properties within 1,000' proximity to the utility, and outside 1,000' proximity to the utility. Rates of appreciation or depreciation in each of the two categories are extracted, and the two categories are compared to analyze any potential influence.

For Case Study 3, it is important to note there are back-to-back sales in each category, before and after the installation, that illustrate consistent values and rates of appreciation.

Case Study 1 - Proximity Sales

• Facility: High tension overhead electric power lines and lattice construction transmission towers, residential single-family detached and condominium subdivision location

• Address: Gutenberg Road, Louisville, Jefferson County

FCC Identification: N/AYear of installation: Pre-1993

• Information source: Maps and individual research

• Neighborhood location: Fern Creek

• Property Group Identification: Within 500' proximity to facility installation

• Reconciliation of analysis: The data represents sale activity between 01/01/2010 and 09/21/2017. Each of the properties transferred two or more times in the time frame. The price difference between two back-to-back transfers of each property is the amount of appreciation or depreciation due to market conditions, or time. The range of annual appreciation is -0.21% to 4.97%. The average appreciation is 2.66%, and the median or middle point of the range is 2.55%.

Street #	Street	St	Sale Date	Adj Sale Price	% Change	Months	% Change Annually
4707	Vinecliff	Pl	2/12/2010	\$218,000	Gridinge	1410111111	- / Illiadily
4707	Vinecliff	P[7/14/2017	\$259,900	19.22%	89	2.59%
4733	Ferrer	Way	7/26/2011	\$141,500	13.2270		2.3370
4733	Ferrer	Way	5/22/2014	\$160,000	13.07%	34	4.63%
4800	Hat	Ct	10/26/2010	\$125,000	15.0776		110070
4800	Hat	Ct	10/4/2016	\$175,000	40.00%	71	6.73%
4802	Burris	Dr	8/10/2012	\$127,400	1010070	, -	0.7070
4802	Burris	Dr	2/17/2015	\$130,950	2.79%	30	1.10%
4904	Bova		3/25/2010	\$140,000			
4904	Bova	Way	11/14/2014	\$141,000	0.71%	56	0.15%
8804	Loch Lea	Ln	12/6/2013	\$130,500			<u> </u>
8804	Loch Lea	Ln	12/2/2016	\$149,900	14.87%	36	4.97%
8919	Gutenberg	Rd	12/30/2011	\$160,000			
8919	Gutenberg	Rd	3/24/2017	\$175,500	9.69%	63	1.85%
9302	Villa Fair	Ct	4/29/2011	\$132,000			
9302	Villa Fair	Ct	6/10/2016	\$149,750	13.45%	61	2.63%
10509	Vintage Creek	Dr	4/15/2014	\$249,500		3_	
10509	Vintage Creek	Dr	9/11/2015	\$255,000	2.20%	17	1.57%
10601	Vintage Creek	Dr	3/28/2012	\$211,500			
10601	Vintage Creek	Dr	11/25/2013	\$222,500	5.20%	20	3.13%

(continued next page)

10603	Alderbrook	Ρl	2/17/2012	\$216,000			
10603	Alderbrook	Pl	4/15/2015	\$247,000	14.35%	38	4.54%
10605	Vintage Creek	Dr	9/10/2010	\$217,000			
10605	Vintage Creek	Dr	8/25/2017	\$255,000	17.51%	84	2.52%
10608	Alderbrook	Pl	8/12/2011	\$237,900			
10608	Alderbrook	PΙ	5/4/2015	\$236,000	-0.80%	45	-0.21%
10803	Vintage Creek	Dr	5/25/2010	\$239,000			
10803	Vintage Creek	Dr	11/15/2016	\$255,000	6.69%	78	1.03%
					Annual	Average	2.66%
					Annual	Median	2.55%

Case Study 1 - Non-Proximity Sales

• Facility: High tension overhead electric power lines and lattice construction towers, residential single-family detached and condominium subdivision location

• Address: Gutenberg Road, Louisville, Jefferson County

FCC Identification: N/AYear of installation: Pre-1993

Information source: Maps and researchNeighborhood location: Fern Creek

• Property Group Identification: Outside 500' proximity to facility installation

• Reconciliation of analysis: The data represents sale activity between 01/01/2010 and 09/21/2017. Each property transferred two or more times in the time frame. The price difference between two back-to-back transfers of each property is the amount of appreciation or depreciation due to market conditions, or time. The range of annual appreciation is -0.41% to 5.97%. The average rate of appreciation is 2.91%, and the median or middle point of the appreciation range is 2.49%.

					· · · · · · · · · · · · · · · · · · ·		
Street #	Street	St	Sale Date	Adj Sale Price	% Change	Months	% Change Annually
4409	Taft	Ct	10/15/10	\$135,000			
4409	Taft	Ct	03/03/16	\$150,000	11.11%	65	2.06%
4509	Marse	PI	01/30/12	\$141,900			
4509	Marse	Pl	06/30/14	\$152,500	7.47%	29	3.09%
4608	Haeringdon	Dr	10/21/10	\$152,000		<u> </u>	
4608	Haeringdon	Dr	03/06/17	\$184,900	21.64%	77	3.39%
4615	Stony Brook	Dr	05/10/13	\$159,900			
4615	Stony Brook	Dr	08/18/17	\$181,500	13.51%	51	3.16%
4704	Jolynn	Dr	03/28/13	\$147,500			
4704	Jolynn	Dr	06/01/16	\$159,500	8.14%	38	2.56%
4902	Stout	Blvd	08/24/12	\$140,000			
4902	Stout	Blvd	08/17/15	\$157,500	12.50%	36	4.19%
4904	Flora Springs	Cir	09/02/10	\$219,000			
4904	Flora Springs	Cir	11/05/15	\$242,000	10.50%	62	2.03%
4904	Flora Springs	Cir	12/13/16	\$258,000	6.61%	13	5.97%
4905	Roman	Dr	08/22/12	\$138,900			
4905	Roman	Dr	06/08/16	\$164,500	18.43%	46	4.85%
5001	Fairwood	Ln	09/17/10	\$136,000			
5001	Fairwood	Ln	02/08/16	\$138,000	1.47%	65	0.27%
5001	Volney	Ct	12/14/12	\$168,000			
5001	Volney	Ct	11/15/16	\$184,000	9.52%	47	2.43%

(continued next page)

5003	Volney	Ct	08/26/11	\$145,000			
5003	Volney	Ct	07/15/14	\$150,200	3.59%	35	1.24%
5103	Flora Springs	Cir	10/10/12	\$247,500			
5103	Flora Springs	Cir	09/26/14	\$258,900	4.61%	24	2.35%
8607	Michael Edward	Dr	02/19/10	\$160,500			
8607	Michael Edward	Dr	07/31/14	\$176,000	9.66%	53	2.17%
8612	Longborough	Way	11/29/11	\$162,000			
8612	Longborough	Way	12/11/14	\$160,000	-1.23%	36	-0.41%
8708	Loch Lea	Ln	12/28/12	\$150,000			
8708	Loch Lea	Ln	03/20/15	\$157,500	5.00%	27	2.25%
8718	Loch Lea	Ln	08/02/11	\$147,000			
8718	Loch Lea	Ln	08/04/17	\$193,870	31.88%	72	5.30%
9002	Hatlerhall	Dr	08/15/14	\$135,000			
9002	Hatlerhall	Dr	03/09/17	\$153,000	13.33%	31	5.19%
9102	Marse Henry	Dr	03/15/13	\$152,335			
9102	Marse Henry	Dr	04/17/15	\$163,500	7.33%	25	3.51%
9115	Marse Henry	Dr	05/07/15	\$166,000	-		
9115	Marse Henry	Dr	05/15/17	\$183,000	10.24%	24	5.06%
9204	Marse Henry	Dr	09/27/12	\$150,000			
9204	Marse Henry	Dr	06/16/15	\$159,900	6.60%	33	2.43%
9307	Marse Henry	Dr	10/28/10	\$100,000			
9307	Marse Henry	Dr	02/03/17	\$110,100	10.10%	75	1.61%
9311	Marse Henry	Dr	07/13/12	\$189,000			- · · · · -
9311	Marse Henry	Dr	02/18/15	\$197,900	4.71%	31	1.81%
9402	Talitha	Dr	06/24/10	\$155,225			
9402	Talitha	Dr	11/21/16	\$180,000	15.96%	77	2.49%
9405	Marse Henry	Dr	03/22/13	\$157,000			
9405	Marse Henry	Dr	05/01/17	\$187,000	19.11%	49	4.65%
10404	Lark Park	Dr	12/13/13	\$150,000			
10404	Lark Park	Dr	08/21/15	\$159,900	6.60%	20	3.91%
10704	Vine Hill	Dr	05/17/12	\$197,900			
10704	Vine Hill	Dr	05/24/13	\$199,900	1.01%	12	0.99%
		-		 	Annual A	verage	2.91%
					Annual N	/ledian	2.49%
					L-,-		

Case Study 1 Reconciliation

The sale evidence represents sales and resales of residential properties in a neighborhood containing a high tension overhead electric power lines with lattice construction transmission towers. There is volume sale evidence for analysis between 2010 and the current date. The rates of appreciation between the two categories are consistent. The sale evidence is consistent. Comparing all proximity sales to non-proximity sales in the neighborhood, both categories show a consistent trend of values on a dwelling size per square foot basis. In summary, there is no influence on value from the tower facility.

Case Study 2 - Proximity Sales

• Facility: Wireless Communication Facility, lattice construction, 219' height, residential single-family detached and condominium subdivision location

• Address: 8400 Bardstown Road, Louisville, Jefferson County

FCC Registration: 1232839Year of installation: 03/7/2002

• Information source: FCC recordings, maps and individual research

• Neighborhood location: Fern Creek

• Property Group Identification: Inside 750' proximity to facility installation

• Reconciliation of analysis: The data represents sale activity between 01/01/2010 and 02/01/2017. Each property transferred two or more times in the time frame. The price difference between two back-to-back transfers of each property is the amount of appreciation or depreciation due to market conditions, or time. The range of annual appreciation is 0.46% to 5.87%. The average appreciation is 2.80%, and the median or middle point of the range is 3.31%.

	Sale	Sale	%		% Change	% Change
Address	Date	Price	Change	Months	/Month	/Year
8505 Missionary Ct	04/28/15	\$225,000	6.90%	59	0.12%	1.40%
	05/28/10	\$210,475				•
8509 Missionary Ct	01/31/17	\$271,000	10.61%	80	0.13%	1.60%
	06/17/10	\$245,000	 	<u> </u>	<u> </u>	
10500 Parkhurst Ct	10/11/13	\$175,000	9.38%	30	0.31%	3.71%
	04/04/11	\$160,000				
8919 Gentlewind Way	11/23/15	\$273,000	8.33%	24	0.35%	4.16%
	11/22/13	\$252,000				
8734 Lough Dr	06/29/16	\$225,000	9.76%	33	0.30%	3.59%
	10/11/13	\$205,000	}			
8721 Lough Dr	07/29/16	\$170,000	3.03%	32	0.09%	1.13%
	11/25/13	\$165,000				
8702 Meadow Springs Way	01/08/16	\$165,500	11.37%	41	0.28%	3.31%
	08/02/12	\$148,600				
8702 Lough Dr	09/09/16	\$207,000	28.07%	57	0.49%	5.87%
	12/01/11	\$161,635				
10502 Gentlewind Ct	02/29/16	\$270,000	0.93%	24	0.04%	0.46%
	02/19/14	\$267,500				
Average					0.23%	2.80%
Median					0.28%	3.31%

Case Study 2 - Non-Proximity Sales

• Facility: Wireless Communication Facility, lattice construction, 219' height, residential single-family detached and condominium subdivision location

• Address: 8400 Bardstown Road, Louisville, Jefferson County

FCC Registration: 1232839Year of installation: 03/7/2002

• Information source: FCC recordings, maps and individual research

• Neighborhood location: Fern Creek

• Property Group Identification: Outside 750' proximity to facility installation

• Reconciliation of analysis: The data represents sale activity between 01/01/2010 and 02/01/2017. Each property transferred two or more times in the time frame. The price difference between two back-to-back transfers of each property is the amount of appreciation or depreciation due to market conditions, or time. The range of annual appreciation is 0.90% to 6.35%. The average appreciation is 3.44%, and the median or middle point of the range is 3.57%.

	Sale	Sale	%		% Change	% Change
Address	Date	Price	Change	Months	/Month	/Year
8607 Sanctuary Ln	03/30/16	\$245,000	6.06%	20	0.30%	3.60%
	07/25/14	\$231,000				
8622 Sanctuary Ln	07/13/15	\$257,500	7.29%	25	0.29%	3.54%
	06/21/13	\$240,000		}		
8607 Sanctuary Ln	07/25/14	\$245,000	7.93%	48	0.17%	1.99%
	08/02/10	\$227,000				
8903 Gentlewind Way	09/30/16	\$307,500	6.03%	26	0.23%	2.78%
	08/01/14	\$290,000	į		ļ	
10405 Pine Glen Cir	01/19/16	\$240,000	12.73%	39	0.33%	3.96%
	11/02/12	\$212,900				
10423 Pine Glen Cir	08/06/14	\$184,450	8.50%	48	0.18%	2.11%
	07/29/10	\$170,000				
10427 Pine Glen Cir	10/14/16	\$230,000	17.95%	44	0.41%	4.95%
	02/2 <u>8/</u> 13	\$195,000				
10504 Providence Dr	07/03/14	\$248,700	0.89%	12	0.08%	0.90%
	07/08/13	\$246,500				
10609 Providence Dr	11/08/16	\$260,000	15.56%	45	0.35%	4.17%
	02/15/13	\$225,000				
10720 Glenmary Springs Dr	04/01/16	\$194,000	11.49%	22	0.53%	6.35%
_	06/11/14	\$174,000				
Average					0.29%	3.44%
Median		Į.	{		0.30%	3.57%

Case Study 2 Reconciliation

The sale evidence represents sales and resales of residential properties in a neighborhood containing a wireless communication facility tower. The tower existed prior to construction of homes in the project. There is volume sale evidence for analysis between 2009 and the current date. The rates of appreciation between the two categories are consistent. While the non-

proximity sales show a slightly higher average rate of appreciation, the median rate difference is negligible. Comparing all proximity sales to non-proximity sales in the neighborhood, both categories show a consistent trend of values on a dwelling size per square foot basis. In summary, there is no influence on value from the tower facility.

Case Study 3 - Proximity Sales

• Facility: Wireless Communication Facility, monopole construction, 140' height, residential single-family detached location

• Address: 7200 Woodhaven Road, Louisville, Jefferson County

• FCC Registration: 1298049

• Year/Date of installation: 05/13/2016

• Information source: FCC recordings, maps and individual research

• Neighborhood location: Woodhaven

• Property Group Identification: Inside 1000' proximity to facility installation

• Reconciliation of analysis: The data represents sale activity between 01/01/2009 and 02/01/2017. Each property transferred two or more times in the time frame. The price difference between two back-to-back transfers of each property is the amount of appreciation or depreciation due to market conditions, or time. The range of annual appreciation is 0.78% to 5.98%. The average appreciation is 3.74%, and the median or middle point of the range is 3.81%. It is noted that the sales of 7306 Quail Ridge Court occurred both before and after the tower installation and the rate of appreciation is consistent with the general trend.

	Sale	Sale	%		% Change/	% Change/
Address	Date	Price	Change	Months	Month	Year
5904 Bluffington Ct	11/21/12	\$130,900	5.56%	16	0.35%	4.21%
_	07/28/11	\$124,000				
6001 Hickory Tree Rd	05/28/15	\$128,200	25.69%	52	0.50%	5.98%
	02/10/11	\$102,000	-			
7118 Ridge Creek Rd	03/25/16	\$150,000	26.05%	60	0.43%	5.21%
	03/28/11	\$119,000	}			
7215 Chestnut Tree Ln	11/01/13	\$140,000	6.87%	29	0.24%	2.86%
	06/10/11	\$131,000	İ		}	
7303 Chestnut Tree Ln	10/21/14	\$162,500	3.83%	59	0.06%	0.78%
	11/16/09	\$156,500				
7306 Quail Ridge Rd	09/02/16	\$145,000	20.83%	74	0.28%	3.40%
	07/21/10	\$120,000			1	
Average					0.31%	3.74%
Median					0.32%	3.81%

Case Study 3 - Non-Proximity Sales

• Facility: Wireless Communication Facility, monopole construction, 140' height, residential single-family detached and condominium subdivision location

• Address: 7200 Woodhaven Road, Louisville, Jefferson County

• FCC Registration: 1298049

• Year/Date of installation: 05/13/2016

• Information source: FCC recordings, maps and individual research

• Neighborhood location: Woodhaven

• Property Group Identification: Outside 1000' proximity to facility installation

• Reconciliation of analysis: The data represents sale activity between 01/01/2009 and 02/01/2017. Each property transferred two or more times in the time frame. The price difference between two back-to-back transfers of each property is the amount of appreciation or depreciation due to market conditions, or time. The range of annual appreciation is 0.39% to 6.66%. The average appreciation is 3.74%, and the median or middle point of the range is 3.98%. It is noted that the sales of 7102 Ridge Creek Road occurred before and during the tower construction, and the sales of 7403 Covey Place occurred both before and after the tower installation. The rates of appreciation are consistent with the general trend.

	Sale	Sale	%		% Change	% Change
Address	Date	Price	Change	Months	/Month	/Year
7102 Ridge Creek Rd	05/06/16	\$149,900	10.63%	55	0.19%	2.31%
	10/03/11	\$135,500				L
7302 Bluffington Rd	03/22/13	\$139,000	0.98%	30	0.03%	0.39%
	09/24/10	\$137,650				
7403 Covey Pl	10/31/16	\$156,000	15.13%	32	0.47%	5.64%
	02/26/14	\$135,500				
7404 Covey Pl	12/30/15	\$130,000	19.27%	35	0.56%	6.66%
	02/08/13	\$109,000				
Average					0.31%	3.75%
Median				1	0.33%	3.98%

Case Study 3 Reconciliation

The sale evidence represents sales and resales of residential properties in a neighborhood containing a wireless communication facility tower. The tower was constructed after homes were constructed in the project. There is volume sale evidence for analysis between 2009 and the current date. The rates of appreciation between the two categories are very consistent. In addition, properties with sales on both sides of the tower installation date illustrate consistent values and appreciation trends. Comparing all proximity sales to non-proximity sales in the neighborhood, both categories show a consistent trend of values on a dwelling size per square foot basis. In summary, there is no influence on value from the tower facility.

ANALYSIS CONCLUSION

As illustrated by study results, the forces of value are consistent. Public utility infrastructure and related services are essential to meeting the accepted standard of living for neighborhood populations. Without adequate services, there will be a tendency for decreasing demand and property values in a neighborhood and market area. In order to meet needs of a neighborhood population, telecommunications towers have become a common part of the landscape in much the same way that power and telephone lines and other utilities have. Like these other utilities, telecommunications towers are needed in locations throughout any community.

Property owners near tower facilities, other highly visible utility structures, underground pipelines, associated easements, etc., are not penalized on value. Effectively, tower structures, like overhead electric distribution lines, signage, and buried utility easements, are beneficial. Due to expanding utilities and increased services, properties experience positive influences. Because of the increasing volume of similar structures over the past several decades, owners and buyers of residential properties expect service-related infrastructure. Any perceived negative proximity influences are absorbed by the landscape of a neighborhood and lifestyles of the population.

Therefore, based on market information, it is my opinion that the proposed facility will not adversely influence the value of properties in the immediate or general area.

DISCLOSURE CERTIFICATION

I certify that, to the best of my knowledge and belief:

- The statements of fact contained in this report are true and correct.
- The reported analyses, opinions and conclusions are limited only by the reported assumptions and limiting conditions and are my personal, impartial, and unbiased professional analyses, opinions, and conclusions.
- I have no present or prospective interest in the property that is the subject of this report and no personal interest with respect to the parties involved.
- I have performed no services, as an appraiser or in any other capacity, regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment.
- I have no bias with respect to the property that is the subject of this report or to the parties involved with this assignment.
- My engagement in this assignment was not contingent upon developing or reporting predetermined results.
- My compensation for completing this assignment is not contingent upon the development or reporting of a predetermined opinion that favors the cause of the client, the magnitude of the opinion, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of this appraisal consulting report.
- No one provided significant real property analysis assistance to the person signing this certification.

Glen D. Katz, MAI, SRA, AI-GRS, AI-RRS

Glan D. KATZ

GLEN D. KATZ, MAI, SRA, AI-GRS, AI-RRS

3815 Stonyrun Circle, Louisville, KY 40220 · 502.396.6664

Professional Experience

Glen D. Katz has been involved in the appraisal of real estate for over 25 years. Beginning in both the commercial and residential fields, he has transitioned to roles as consultant, reviewer, and expert witness. As owner of Realty Solutions Co. Inc., relationships have been developed with user clients, peer appraisers and appraisal firms. Resulting projects have been performed individually and as coordinating peer groups.

In general practice, Mr. Katz has achieved the Appraisal Institute MAI (general) designation, and SRA (residential) designation. In specialized practice, Mr. Katz has achieved the Appraisal Institute appraisal review designations of AI-GRS (general) and AI-RRS (residential), as well as completing the following Appraisal Institute Professional Development Programs:

- Litigation
- Valuation of the Components of a Business Enterprise
- Valuation of Conservation Easements
- Valuation of Sustainable Buildings: Residential

As a reviewer of appraisals, Mr. Katz serves clients in both the litigation and lending fields. For litigation support, reports are reviewed under USPAP, UASFLA, and local jurisdictional guidelines.

As an expert witness, Mr. Katz has participated in cases regarding land and building damage, insurance claims, property tax assessment, construction defects, divorce settlements, boundary disputes, zoning noncompliance, bankruptcy, and alleged fraud.

Areas of expertise include:

- Commercial, industrial, residential, agricultural, special purpose properties
- Appraisal review, commercial and residential
- Eminent domain
- Expert witness/litigation support
- Property damages
- Insurance claims and cost analysis
- Bankruptcy
- Tax Appeal
- Estate valuation
- Agricultural land
- Complex residential housing
- High performance construction (sustainable/energy efficient)

Significant Achievements

- Condemnation and right-of-way; 2008 to 2011 Right of way value analysis for Keystone and Keystone XL pipeline segments in South Dakota. The project included a market study on pipeline eased properties, sale book, and appraisals.
- Tax assessment appeal; 2014 Representing Walgreen Co., performed an appraisal and testified as expert witness before the Kentucky Board of Tax Appeals regarding value methodology for "Absolute NNN" properties for ad valorem tax purposes.
- Performing county-level tax appeals for Walgreen store properties in Kentucky
- Development panel member for the Appraiser Supervisor and Associate Training program curriculum for the Kentucky Real Estate Appraisers Board, Commonwealth of Kentucky.

Education

- Bachelor of Science, Business Administration, Marketing, 1984, University of Louisville
- Study focusing on real estate economics, 1990 to 1993, Eastern Kentucky University
- Ongoing real estate economics education since 1993 has been obtained through the Appraisal Institute, and from professional groups serving specific real estate related fields. (education reference attached)

Professional Qualifications and Memberships

- Certified General Real Property Appraiser, Kentucky License #1533
- Certified General Real Estate Appraiser, Tennessee License #5312
- MAI designated Member, Appraisal Institute

*(The MAI designation is held by individuals experienced in the valuation and evaluation of commercial, industrial, residential and other types of properties, and who advise clients on real estate investment decisions)

- SRA designated Member, Appraisal Institute
 - *(The SRA designation is held by individuals experienced in the analysis and valuation of residential real property)
- AI-GRS designated Member, Appraisal Institute

*(The AI-GRS designation is held by individuals experienced in commercial, industrial, residential and other types of properties appraisal review, to assist clients in satisfying issues related to due diligence and risk management)

- AI-RRS designated Member, Appraisal Institute
 - *(The AI-RRS designation is held by individuals experienced in residential appraisal review, to assist clients in satisfying issues related to due diligence and risk management)
- Professional Development Programs Appraisal Institute
 - Litigation
 - Valuation of the Components of a Business Enterprise
 - Valuation of Sustainable Buildings: Residential
 - Valuation of Conservation Easements
- Member, International Right of Way Association (IRWA)
- Marshall & Swift Valuation Service Commercial Cost Approach Certification #782092
- 2014 to present Vice President, Bluegrass Chapter, Appraisal Institute
- 2008 to present Education Chair, Bluegrass Chapter, Appraisal Institute
- 2015 to present Region V Regional Nominating Committee, Member, Appraisal Institute
- 2013, 2014 and 2016 Leadership Development & Advisory Council, Appraisal Institute
- 2009 2012, 2014 Alternate Regional Representative, Bluegrass Chapter, Appraisal Institute
- 2012 to 2013 Second Vice President, Bluegrass Chapter, Appraisal Institute
- 2007 Membership Development/Retention Committee, Bluegrass Chapter, Appraisal Institute
- MAI, SRA, AI-GRS and AI-RRS Candidate Advisor, Appraisal Institute

EDUCATION LISTING

PROVIDER/TITLE	YEAR
APPRAISAL INSTITUTE PROFESSIONAL DEVELOPMENT PROGRAMS	
VALUATION OF SUSTAINABLE BUILDINGS: RESIDENTIAL - REGISTRY	2017
VALUATION OF THE COMPONENTS OF A BUSINESS ENTERPRISE - REGISTRY	2013
LITIGATION PROFESSIONAL DEVELOPMENT PROGRAM - REGISTRY	2010
VALUATION OF CONSERVATION EASEMENTS - REGISTRY	2008
GENERAL DEMONSTRATION REPORT - CAPSTONE PROGRAM	2014
INSTRUCTOR QUALIFYING CONFERENCE	2016
LEADERSHIP DEVELOPMENT AND ADVISORY COUNCIL - WASHINGTON D.C.	2013/14/16
ELADERSTIL DEVELOTMENT AND ADVISORY COUNCIL - WASHINGTON D.C.	2013/14/10
APPRAISAL INSTITUTE, COURSES	
UNIFORM APPRAISAL STANDARDS FOR FEDERAL LAND ACQUISITIONS	2017
RESIDENTIAL & COMMERCIAL VALUATION OF SOLAR	2017
APPLICATION & INTERPRETATION OF SIMPLE LINEAR REGRESSION	2016
CASE STUDIES IN APPRAISING GREEN RESIDENTIAL BUILDINGS	2016
7 HOUR NATIONAL USPAP UPDATE	2016
REVIEW THEORY - GENERAL	2014
REVIEW THEORY - RESIDENTIAL	2014
INTRODUCTION TO GREEN BUILDINGS: PRINCIPLES AND CONCEPTS	2013
QUANTITATIVE ANALYSIS	2013
FUNDAMENTALS OF SEPARATING REAL PROPERTY, PERSONAL PROPERTY, AND INTANGIBLE BUSINESS ASSETS	2012
THE APPRAISER AS AN EXPERT WITNESS: PREPARATION AND TESTIMONY	2010
LITIGATION APPRAISING: SPECIALIZED TOPICS AND APPLICATIONS, COURSE 705GRE	2010
CONDEMNATION APPRAISING: PRINCIPLES & APPLICATIONS	2009
ADVANCED SALES COMPARISON & COST APPROACHES	2008
VALUATION OF CONSERVATION EASEMENTS CERTIFICATE PROGRAM	2008
ADVANCED RESIDENTIAL REPORT WRITING, PART II	2007
ADVANCED RESIDENTIAL APPLICATIONS & CASE STUDIES, PART I	2007
GENERAL MARKET ANALYSIS AND HIGHEST & BEST USE	2007
RESIDENTIAL MARKET ANALYSIS AND HIGHEST & BEST USE	2007
REPORT WRITING AND VALUATION ANALYSIS	2004
STANDARDS OF PROFESSIONAL PRACTICE, PART C	1999
CONDEMNATION APPRAISING: BASIC PRINCIPLES & APPLICATIONS	1999
STANDARDS OF PROFESSIONAL PRACTICE, PART B	1994
STANDARDS OF PROFESSIONAL PRACTICE, PART A	1994
EXAM 202 CHALLENGE, APPLIED INCOME PROPERTY VALUATION	1991
EXAM 201 CHALLENGE, PRINCIPLES OF INCOME PROPERTY APPRAISING	1991
EXAM 101 CHALLENGE, INTRODUCTION TO APPRAISING REAL PROPERTY	1990
EXAMINITED CHALLENGE, INTRODUCTION TO AFFRAISING REAL PROPERTY	1990
APPRAISAL INSTITUTE, SEMINARS	
DRONE TECHNOLOGY AND ITS IMPACT ON THE APPRAISAL INDUSTRY	2017
RESIDENTIAL APPLICATIONS: USING TECHNOLOGY TO MEASURE AND SUPPORT APPRAISAL ASSIGNMENT RESULTS	2017
YELLOW BOOK CHANGES - OVERVIEW FOR APPRAISERS	2017
BUSINESS PRACTICE AND ETHICS	2016
RESIDENTIAL APPLICATIONS 2: USING MICROSOFT EXCEL TO ANALYZE AND SUPPORT APPRAISAL ASSIGNMENT RESULTS	2015
UNDERSTANDING COLLATERAL UNDERWRITER	2015
INCOME APPROACH FOR RESIDENTIAL APPRAISERS	2014
GENERAL DEMONSTRATION APPRAISAL REPORT WRITING	2014
MARKETABILITY STUDIES: ADVANCED CONSIDERATIONS AND APPLICATIONS	2013
APPRAISING THE APPRAISAL: APPRAISAL REVIEW-GENERAL	2012
ADVANCED SPREADSHEET MODELING FOR VALUATION APPLICATIONS	2011
THE UNIFORM APPRAISAL DATASET FROM FNMA AND FHLMC	2011
ONLINE COOL TOOLS: NEW TECHNOLOGY FOR REAL ESTATE APPRAISERS	2011
ONLINE APPRAISING MANUFACTURED HOUSING	2011
VALUATION OF GREEN RESIDENTIAL PROPERTIES	2010
AN INTRODUCTION TO VALUING COMMERCIAL GREEN BUILDINGS	2010
USING SPREADSHEET PROGRAMS IN REAL ESTATE APPRAISALS	2010
	2010
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APPRAISING DISTRESSED COMMERCIAL REAL ESTATE: HERE WE GO AGAIN EVALUATING RESIDENTIAL CONSTRUCTION	2009

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APPRAISAL INSTITUTE, SEMINARS (continued)	<u>YEAR</u>
	
REO APPRAISAL: APPRAISAL OF RESIDENTIAL PROPERTY FORECLOSURE	2009
REGRESSION ANALYSIS IN APPRAISAL PRACTICE: CONCEPTS AND APPLICATIONS	2008
SELF STORAGE ECONOMICS AND APPRAISAL	2007
APPRAISAL REVIEW - GENERAL	2007
SUBDIVISION VALUATION: A COMPREHENSIVE GUIDE	2007
APPRAISAL INSTITUTE AND INTERNET RESOURCES	2006
WHAT CLIENTS WOULD LIKE THEIR APPRAISERS TO KNOW, HOW TO MEET THEIR EXPECTATIONS	2006
MARKET ANALYSIS AND THE SITE TO DO BUSINESS	2006
APPRAISING CONVENIENCE STORES	2005
EVALUATING COMMERCIAL CONSTRUCTION	2005
SUBDIVISION ANALYSIS	2003
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APPRAISAL CONSULTING: A SOLUTIONS APPROACH FOR PROFESSIONALS	2003
APPRAISING THE TOUGH ONES	2003
ATTACKING & DEFENDING AN APPRAISAL IN LITIGATION	2002
REAL ESTATE DISCLOSURE	2001
APPRAISAL OF NONCONFORMING USES	2000
EMINENT DOMAIN & CONDEMNATION APPRAISING	1998
DYNAMICS OF OFFICE BUILDING VALUATION	1998
ENVIRONMENTAL RISK AND THE APPRAISAL PROCESS	1995
THE INTERNET AND APPRAISING	1997
LITIGATION SKILLS FOR APPRAISERS	1997
APPRAISAL OF SPECIAL-PURPOSE PROPERTIES	1996
MARSHALL & SWIFT	
COMMERCIAL COST APPROACH CERTIFICATION PROGRAM	2015
COMMERCIAL COST AFT ROACH CENTIFICATION PROGRAM	2013
KENTUCKY REAL ESTATE APPRAISERS BOARD	
SUPERVISOR AND ASSOCIATE TRAINING COURSE, KENTUCKY	2015
AMERICAN BANKERS ASSOCIATION	
FEDERAL APPRAISAL POLICIES: HOTLINES, COMPLAINT FORMS AND REVISED POLICY STATEMENTS	2013
CONV. Microsoftwan	
CCIM INSTITUTE	
COURSE CI-101, FINANCIAL ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE	2006
COURSE CI-101, FINANCIAL ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-103, USER DECISION ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE	2006
COURSE CI-101, FINANCIAL ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-103, USER DECISION ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-104, INVESTMENT ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE	2006 2006
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COURSE CI-101, FINANCIAL ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-103, USER DECISION ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-104, INVESTMENT ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE 411, GAP ANALYSIS AND REAL ESTATE MARKET DYNAMICS	2006 2006 2006
COURSE CI-101, FINANCIAL ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-103, USER DECISION ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-104, INVESTMENT ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE 411, GAP ANALYSIS AND REAL ESTATE MARKET DYNAMICS COURSE 412, ECONOMICS OF COMMERCIAL LEASES, AND 1031 EXCHANGES	2006 2006 2006
COURSE CI-101, FINANCIAL ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-103, USER DECISION ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-104, INVESTMENT ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE 411, GAP ANALYSIS AND REAL ESTATE MARKET DYNAMICS COURSE 412, ECONOMICS OF COMMERCIAL LEASES, AND 1031 EXCHANGES HUD/FHA	2006 2006 2006 2006 2006
COURSE CI-101, FINANCIAL ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-103, USER DECISION ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-104, INVESTMENT ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE 411, GAP ANALYSIS AND REAL ESTATE MARKET DYNAMICS COURSE 412, ECONOMICS OF COMMERCIAL LEASES, AND 1031 EXCHANGES HUD/FHA HUD/FHA HUD/FHA APPRAISER TEST AND CERTIFICATION	2006 2006 2006 2006 2006
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COURSE CI-101, FINANCIAL ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-103, USER DECISION ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-104, INVESTMENT ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE 411, GAP ANALYSIS AND REAL ESTATE MARKET DYNAMICS COURSE 412, ECONOMICS OF COMMERCIAL LEASES, AND 1031 EXCHANGES HUD/FHA HUD/FHA HUD/FHA APPRAISER TEST AND CERTIFICATION THE MODEL ENERGY CODE (MEC), U.S. DEPARTMENT OF ENERGY APPRAISING FHA PROPERTIES EASTERN KENTUCKY UNIVERSITY	2006 2006 2006 2006 2006 2000 1997 1997
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COURSE CI-101, FINANCIAL ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-103, USER DECISION ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-104, INVESTMENT ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE 411, GAP ANALYSIS AND REAL ESTATE MARKET DYNAMICS COURSE 412, ECONOMICS OF COMMERCIAL LEASES, AND 1031 EXCHANGES HUD/FHA HUD/FHA HUD/FHA APPRAISER TEST AND CERTIFICATION THE MODEL ENERGY CODE (MEC), U.S. DEPARTMENT OF ENERGY APPRAISING FHA PROPERTIES EASTERN KENTUCKY UNIVERSITY REAL ESTATE FINANCE, RST 330 ADVANCED APPRAISAL APPLICATION/INCOME PROPERTY VALUATION, RST 410 APPRAISAL OF RESIDENTIAL PROPERTY, RST 330	2006 2006 2006 2006 2006 2000 1997 1997
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COURSE CI-101, FINANCIAL ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-103, USER DECISION ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-104, INVESTMENT ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE 411, GAP ANALYSIS AND REAL ESTATE MARKET DYNAMICS COURSE 412, ECONOMICS OF COMMERCIAL LEASES, AND 1031 EXCHANGES HUD/FHA HUD/FHA HUD/FHA APPRAISER TEST AND CERTIFICATION THE MODEL ENERGY CODE (MEC), U.S. DEPARTMENT OF ENERGY APPRAISING FHA PROPERTIES EASTERN KENTUCKY UNIVERSITY REAL ESTATE FINANCE, RST 330 ADVANCED APPRAISAL APPLICATION/INCOME PROPERTY VALUATION, RST 410 APPRAISAL OF RESIDENTIAL PROPERTY, RST 330 UNIVERSITY OF LOUISVILLE B.S.B.A. MARKETING HOME BUILDERS ASSOCIATION OF LOUISVILLE	2006 2006 2006 2006 2006 2000 1997 1997 1997 1990
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COURSE CI-101, FINANCIAL ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-103, USER DECISION ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE CI-104, INVESTMENT ANALYSIS FOR COMMERCIAL INVESTMENT REAL ESTATE COURSE 411, GAP ANALYSIS AND REAL ESTATE MARKET DYNAMICS COURSE 412, ECONOMICS OF COMMERCIAL LEASES, AND 1031 EXCHANGES HUD/FHA HUD/FHA HUD/FHA APPRAISER TEST AND CERTIFICATION THE MODEL ENERGY CODE (MEC), U.S. DEPARTMENT OF ENERGY APPRAISING FHA PROPERTIES EASTERN KENTUCKY UNIVERSITY REAL ESTATE FINANCE, RST 330 ADVANCED APPRAISAL APPLICATION/INCOME PROPERTY VALUATION, RST 410 APPRAISAL OF RESIDENTIAL PROPERTY, RST 330 UNIVERSITY OF LOUISVILLE B.S.B.A. MARKETING HOME BUILDERS ASSOCIATION OF LOUISVILLE SITE PLANNING	2006 2006 2006 2006 2006 2000 1997 1997 1997 1990

EXHIBIT B ALTERNATE SITE ANALYSIS REPORT



September 26, 2017

Commonwealth of Kentucky Public Service Commission 211 Sower Boulevard P.O. Box 615 Frankfort, KY 40602-0615

RE: Case No. 2017-00369

Alternate Site Analysis Report

Application for a Communications Facility

Applicant: New Cingular Wireless PCS, LLC, d/b/a AT&T Mobility

Site Location: 5545 Caneyville Road, Morgantown, Kentucky (Butler County)

Site Name: Welcome Rd

Dear Commissioners:

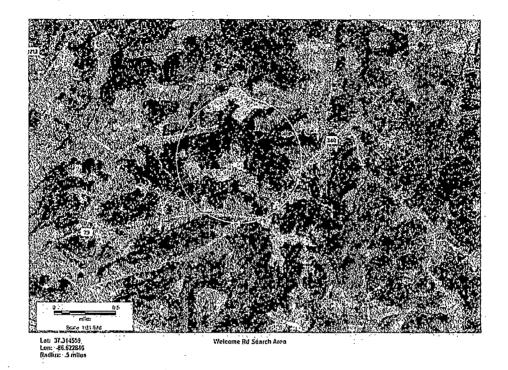
This report is provided to explain the site development process used by the Applicant to identify the site selected for the new wireless communications facility proposed in the accompanying Application.

New Cingular Wireless PCS, LLC, d/b/a AT&T Mobility Site Development Process

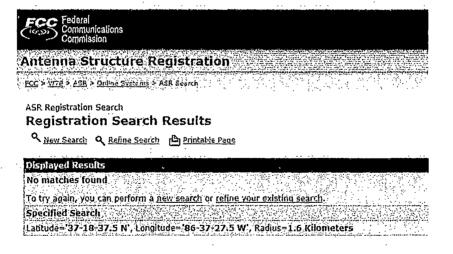
Step 1: Problem Identification. New Cingular Wireless PCS, LLC, d/b/a AT&T Mobility radio frequency engineers first identified a growing coverage and/or capacity gap in Butler County.

Step 2: Search Area. To help guide the site development team's task of identifying a suitable location for a new wireless communications facility site, New Cingular Wireless PCS, LLC, d/b/a AT&T Mobility radio frequency engineers identified the geographic area where the antenna site must be located in order to close the gap and issued a map (called a Search Area) that identified the general area in which a new site must be located.

In this instance, the search area is a one-half mile radius centered at 37.314559°, -86.622846° (37°18'37.54" North latitude, 86°37'27.59" West longitude) and generally located ½ mile north of the intersection of Caneyville Road and County Road. A map of the search area is below:



Step 3: Co-location Review. The site development team first reviewed the area within the Search Area for a suitable tall structure for co-location. The team performed an FCC and FAA database search within a one-mile (1.6 kilometers) radius of the location AT&T would like to construct a new telecommunications tower. As you can see from the search results below, there are no FCC registered towers located within one mile of the search coordinates:



The team also did a visual search of this location and area in which we did not see any communication towers. After these searches, the team concluded that no other communication towers are within one mile of the location AT&T wishes to build a new tower. Since a new site must be located within a ½ mile of the search area coordinates to meet the radio frequency needs of the project, there are no existing towers where a new facility must be located to close the service gap.

Step 4: Review of the Area's Zoning Classification. Once the site development team determined that there are no available existing tall structures which are technically feasible and suitable for co-location, the team next reviewed the zoning regulations for the most suitable site that meets the engineering needs of the project and complies with the requirements of the zoning ordinance. It was determined that the search area is located in an area without planning and zoning regulations and subject to the jurisdiction of the Public Service Commission. Even though there are no zoning regulations to guide the search, the site acquisition team searched for the least intrusive alternative to locate a new communications facility.

Step 5: Preliminary Inspection and Assessment of Suitable Parcels. Once suitably zoned parcels are identified, the site development team visits the parcels and performs a preliminary inspection. The purpose of the preliminary inspection is: (1) to confirm the availability of sufficient land space for the proposed facility; (2) to identify a specific location for the facility on the parcel; (3) to identify any recognized environmental conditions that would disqualify the parcel from consideration; (4) to identify any construction issues that would disqualify the candidate; and, (5) to assess the potential impact of the facility on neighboring properties. In this instance, much of the search area is wooded and would require the removal of mature trees. Generally, the cleared areas are used for agricultural purposes Many of the parcels in the search area do not have adequate access.

Rawland Alternatives Investigated

- 1) The site acquisition team avoided the heavily wooded areas within the search area because they would require removal of trees home to the Indiana Bat. The team also searched for parcels that would maximize the distance from residential homes.
- 2) Parcels within search area that are unsuitable for tower placement:

Landowner: New South Conference of the Free Methodist Church - Parcel # 082-01-00-054.00. Reasons for rejecting this parcel: This is a community center and the area behind the building is used for baseball, walking track, and playground. Placing a tower on this property was not feasible due to the community center's use of it.

3) Parcels within search area that were removed from consideration based on communications with landowner:

Landowner: Raven Brooks - Parcel # 082-00-00-051.00. Reasons for rejecting this parcel: This parcel is adjacent to the chosen candidate and is owned by the candidate's daughter. It was decided to not put it on her property because an access easement would be needed from her father, and it would tear up too much of the farm land that they currently lease out

Landowner: Mark Alford - Parcel # / Address: 082-00-00-012.00. Reasons for rejecting this parcel: Mailed letter to the property owner, but he never responded.

Landowner: Timothy & Patricia Daugherty - Parcel # 082-00-00-023.01 & 082-00-00-022.00. Reasons for rejecting this parcel: Mailed letter to the property owner, but they never responded.

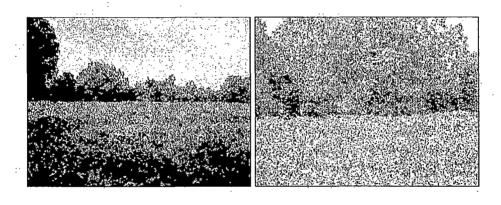
Landowner: Brent & Carol Evans - Parcel # 082-00-00-002.00. Reasons for rejecting this parcel: Mailed letter to property owner, but they never responded.

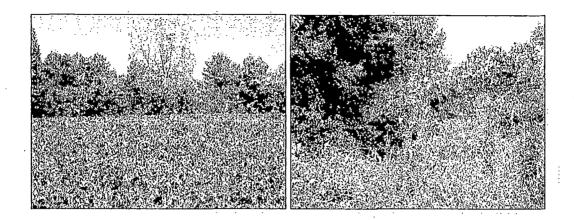
4) Parcels within search area that were removed from consideration based on superiority of site parcel:

Landowner: Richie Bratcher - Parcel # 082-00-00-004.03. Reasons for rejecting this parcel: AT&T's radio frequency engineer chose the proposed site because it better meets the service objectives.

Landowner: Colleen Phelps - Parcel # 082-00-00-028.00. Reasons for rejecting this parcel: AT&T's radio frequency engineer chose the proposed site because it better meets the service objectives.

Step 6: Candidate Evaluation and Selection. After the preliminary site assessments were performed, the site development team ranked the candidates based on compliance with zoning regulations, the availability of ground space, topography, applicable environmental conditions, construction feasibility and the potential impact of the facility on neighboring properties. In this case, the proposed tower is located at 5545 Caneyville Road, Morgantown, Kentucky. This is a large agricultural parcel that provides good setbacks from property lines, roadways, and residential dwellings. Below are photograph of the site:





Step 7: Leasing and Due Diligence. Once a suitable candidate was selected, lease negotiations were commenced and site due diligence steps were performed, as described below.

Leasehold Due Diligence:

- A Title Report was obtained and reviewed to ensure that there are no limitations on the landowner's capacity to lease and to address any title issues.
- A site survey was obtained to identify the location of parcel features, boundaries, easements and other encumbrances revealed by the title search.
- · Review of environmental conditions.

Engineering Due Diligence:

- Utility access identified.
- Grounding plan designed.
- Geotechnical soil analysis performed to determine foundation requirements.
- Foundations designed to meet the Kentucky Building Code lateral and subjacent support requirements.
- Site plan developed.

Federal Regulatory Due Diligence

- Federal Aviation Administration ("FAA")
- Federal Communication Commission ("FCC")

Step 8: Application. Once a lease is obtained and all site due diligence is completed, New Cingular Wireless PCS, LLC, d/b/a AT&T Mobility prepared and filed the accompanying uniform application to construct, maintain and operate a communications facility.

Conclusion

Applicant's site identification and selection process aims to identify the least intrusive of all the available and technically feasible parcels in a service need area. In this case, a tower located 5545 Caneyville Road, Morgantown, Kentucky will resolve the existing coverage or

capacity gap in this area. The site is located on a large parcel to provide separation and buffering from surrounding land uses.

Thank you!

Lisa Crammer

Site Acq. Rep

Blue Wave Deployment 13804 Lake Point Circle, Unit 101

Louisville, KY 40223