COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

PUBLIC 08 2018

PUBLIC SERVICE

PUBLIC SERVICE In the Matter of: THE APPLICATION OF NEW CINGULAR WIRELESS PCS, LLC, A DELAWARE LIMITED LIABILITY COMPANY, D/B/A AT&T MOBILITY FOR ISSUANCE OF A CERTIFICATE OF PUBLIC CASE NO.: 2018-00179 CONVENIENCE AND NECESSITY TO CONSTRUCT A WIRELESS COMMUNICATIONS FACILITY IN THE COMMONWEALTH OF KENTUCKY IN THE COUNTY OF OHIO

SITE NAME: TUCKER HOLLOW

AMENDMENT TO APPLICATION FOR CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY -**GEOTECHNICAL REPORT**

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New Cingular Wireless PCS, LLC, a Delaware Limited Liability Company, d/b/a AT&T Mobility ("Applicant"), by counsel, states as follows:

1. In response to the Commission's letter dated June 12, 2018 requesting additional information to cure a deficiency in the within matter, Applicant hereby submits the Geotechnical Report attached hereto as Exhibit A-1 to amend the pending Application for Issuance of a Certificate of Public Convenience and Necessity.

WHEREFORE, Applicant respectfully request that the PSC accept the foregoing information for filing, and having met the requirements of KRS §§ 278.020(1), 278.650, and 278.665 and all applicable rules and regulations of the PSC, grant a Certificate of Public Convenience and Necessity to construct and operate the WCF at the location set forth in the subject application.

Respectfully submitted,

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EXHIBIT A-1 GEOTECHNICAL REPORT

GENERAL CONSTRUCTION | ENGINEERING | PROJECT MANAGEMENT

4603 Bermuda Drive, Sugar Land, TX 77479

Voice: (281) 796-2651 | Fax: (866) 598-3136 Irishtower.com



July 27, 2018

AT&T FA Number: 10019678

AT&T Site Name: Tucker Hollow - KYL03667

AT&T Site Address: TUCKER HOLLOW LN., HARTFORD, KY 42347 AT&T Site Coordinates: Latitude 37° 31' 40.70", Longitude -87° 1' 15.92"

Preliminary Geotechnical Engineering Report

To Whom It May Concern:

Irish Tower has completed the preliminary geotechnical engineering services for the above referenced project. This report presents the findings of the desktop review and provides preliminary design concepts for the proposed tower foundations.

We at *Irish Tower, LLC* appreciate the opportunity of providing our continuing professional services to you. If you have any questions or need further assistance on this or any other projects please give us a call.

Sincerely,

Jacob Goralski, P.E. KY ENG Permit # 4363



7/27/2018

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Figure 1 - Site Plan

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Figure 4 - Karst Potential Map

1) PROJECT INFORMATION

1.1) Project Description

ITEM	DESCRIPTION		
Existing Site Layout	See Appendix, Figure 1, Site Plan		
Site Dimensions	Approximately 100' by 100'		
Tower	Self-supporting 255 feet tall with an approximately 15 foot tall lightning arrestor		
Maximum Loads	Vertical: 660 kips (assumed) Shear: 85 kips (assumed) Uplift: 550 kips (assumed)		
Maximum Allowable Settlement	1-inch (assumed)		
Equipment Building: Maximum Loads	Column: 15 kips (assumed) Wall: 1 kip/ft (assumed)		
Equipment Buidling Maximum Allowable Settlement	Total Settlement: 1-inch (assumed) Differential Settlement: ¾ inch over 40 feet (assumed)		
Grading	Cut: 10 feet (+/-) max (assumed) Fill: 10 feet (+/-) max (assumed)		

1.2) Site Location and Description

ITEM	DESCRIPTION	
Location	TUCKER HOLLOW LN., HARTFORD, KY 42347 Latitude 37° 31' 40.70", Longitude -87° 1' 15.92"	
Existing Improvements	Undeveloped wooded land	
Current Ground Cover	Under brush and trees	
Existing Topography	Slopes from top of hill down in all directions from El. 498 to 387	

2) SITE GEOLOGY AND PUBLISHED SOIL MAPPING

2.1) Geology

Formation	Description	Karst Risk
Tradewater and Caseyville Formations	Sandstone, shale, siltstone, coal, limestone, and underclay. Sandstone, shale, siltstone, coal, limestone, and underclay: Sandstone, very light gray to light yellowish brown, very fine to medium grained, platy to medium bedded, in part crossbedded, commonly micaceous, in places interbedded with sandy shale and siltstone. Shale, generally medium light-gray, clayey to sandy; some white to very light gray clay shale below limestone bed near south border of quadrangle; platy black carbonaceous shale occurs above some coal beds. Siltstone, light to medium gray and light olive gray, platy to very thin bedded, commonly sandy.	Non-Karst

^{1.} Based on the Hyden West Geologic Quadrangle of Leslie County Kentucky, published by the Kentucky Geological Survey. (GQ-1468).

Based on our review of USDA Web Soil Survey (http://websoilsurvey.nrcs.usda.gov/) the site is covered with:

Zanesville silt loam – Latham Association – Thin fine-silty noncalcareous loess over loamy residuum weathered from sandstone and siltstone. Bedrock typically encountered between 60 to 70 inches below existing grades.

3) PRELIMINARY FOUNDATION RECOMMENDATIONS

Based on the data reviewed as part of this preliminary report, Irish Tower, LLC expects that either a mat foundation or drilled piers could be used to support the proposed tower. The bearing stratum is likely to be the unweathered bedrock reported to be within 5 feet of the ground surface. The engineering characteristics of the on-site soils and underlying bedrock should be determined by geotechnical exploration and laboratory testing to determine the capacity of the tower and/or equipment building foundations.

^{2.} Based on the published karst potential maps prepared by the Kentucky Geological Survey.

4) GENERAL COMMENTS

Irish Tower, LLC should be retained to perform the final geotechnical study and review the final design plans and specifications so comments can be made regarding interpretation and implementation of our geotechnical recommendations in the design and specifications. Irish Tower, LLC also should provide observation and testing services during grading, excavation, foundation construction and other earth-related construction phases of the project.

The analysis and preliminary recommendations presented in this report are based upon the data obtained from the data review performed for the site and from other information discussed in this report.

The scope of services for this project does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. No warranties, either express or implied, are intended or made. Site safety, excavation support, and dewatering requirements are the responsibility of others. In the event that changes in the nature, design, or location of the project as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless Irish Tower, LLC reviews the changes and either verifies or modifies the conclusions of this report in writing.









