#### COMMONWEALTH OF KENTUCKY

#### BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

Electronic Application Of Kentucky Power	
Company For A Certificate Of Public Convenience	)
And Necessity To Construct A 161 kV	) Case No. 2017-00328
Transmission Line In Perry And Leslie Counties,	)
Kentucky And Associated Facilities	)
(Hazard-Wooton Line)	)

#### **APPLICATION**

Kentucky Power Company ("Kentucky Power" or the "Company") moves the Public Service Commission of Kentucky (the "Commission") pursuant to KRS 278.020(2), 807 KAR 5:001, Section 14, 807 KAR 5:001, Section 15, and 807 KAR 5:120 for a Certificate of Public Convenience and Necessity authorizing Kentucky Power to: (1) rebuild its existing 6.5 mile Hazard – Wooton 161 kV Transmission Line in Perry and Leslie counties; the rebuilt line will be approximately 6.6 miles in length (the "Proposed Rebuild") and (2) to perform upgrade, replacement, and installation of facilities and equipment at Kentucky Power's existing Hazard and Wooton substations (the Proposed Rebuild and work at the Hazard and Wooton substations collectively is designated as the "Project"). In support thereof Kentucky Power states:

#### **Applicant**

- 1. Kentucky Power is a corporation organized on July 21, 1919 under the laws of the Commonwealth of Kentucky. The Company currently is in good standing in Kentucky.<sup>1</sup>
  - 2. The post office address of Kentucky Power is 855 Central Avenue, Suite 200,

<sup>&</sup>lt;sup>1</sup> A certified copy of the Company's Articles of Incorporation and all amendments thereto was attached to the Joint Application in *In the Matter Of: The Joint Application Of Kentucky Power Company, American Electric Power Company, Inc. And Central And South West Corporation Regarding A Proposed Merger*, P.S.C. Case No. 99-149. The Company's October 30, 2017 Certificate of Existence is filed as **EXHIBIT 18** of this Application.

Ashland, Kentucky 41101.<sup>2</sup> The Company's electronic mail address is kentucky regulatory services@aep.com.

- 3. Kentucky Power is engaged in the generation, purchase, transmission, distribution and sale of electric power. Kentucky Power serves approximately 168,000 customers in the following 20 counties of eastern Kentucky: Boyd, Breathitt, Carter, Clay, Elliott, Floyd, Greenup, Johnson, Knott, Lawrence, Leslie, Letcher, Lewis, Magoffin, Martin, Morgan, Owsley, Perry, Pike, and Rowan. Kentucky Power also supplies electric power at wholesale to other utilities and municipalities in Kentucky for resale. Kentucky Power is a utility as that term is defined at KRS 278.010.
- 4. Kentucky Power is a wholly-owned subsidiary of American Electric Power Company, Inc. ("AEP"). The AEP System is a multi-state public utility holding company system that provides electric service to customers in parts of eleven states: Arkansas, Indiana, Kentucky, Louisiana, Michigan, Ohio, Oklahoma, Tennessee, Texas, Virginia, and West Virginia.

#### The Proposed Project

5. Kentucky Power seeks authority to construct the Proposed Rebuild measuring 6.6 miles in length. A project location map of the Proposed Rebuild is provided hereto as <u>Exhibit</u>

1. Approximately 5.4 miles of the Proposed Rebuild is within or near the Company's existing 161 kV and 69 kV rights-of-way. Approximately 1.2 miles of the Proposed Rebuild is outside the existing 161 kV right-of-way to accommodate two minor diversions from the existing right-of-way to address engineering and constructability issues. A map of suitable scale that meets the

<sup>&</sup>lt;sup>2</sup> Kentucky Power's Regulatory Services office is located at 101A Enterprise Drive, P.O. Box 5190, Frankfort, Kentucky 40602-5190.

requirements of 807 KAR 5:120, Section 2(2) and details the existing centerline and the Proposed Rebuild is attached as **EXHIBIT 2**.<sup>3</sup>

- 6. The Proposed Rebuild also includes combining portions of the existing Hazard-Jackson 69 kV line and the existing Hazard-Wooton 161 kV line onto approximately seven double-circuit structures principally using the existing Hazard-Jackson and Hazard-Wooton rights-of-way, as well as a small portion of newly-acquired right-of-way. An existing 34.5 kV distribution line will be underbuilt on the double-circuit portion of the Proposed Rebuild between the Hazard Substation and the first structure north of the North Fork of the Kentucky River. The 34.5 kV distribution line will be relocated to a right-of-way generally adjacent to the Proposed Rebuild right-of-way between the first structure north of the North Fork of the Kentucky River and Kentucky Route 15. The distribution line relocation is required to accommodate the safe construction and operation of the Proposed Rebuild, as well as for the future operation and maintenance on both the distribution and transmission lines.
- 7. Associated with the Proposed Rebuild is the reconfiguration of an approximately 1,900 foot section of the existing Hazard-Jackson 69 kV line. The reconfiguration is needed to tie the 69 kV circuit of the double-circuit portion of the Proposed Rebuild to the remainder of the existing Hazard-Jackson 69 kV line ("Hazard-Jackson 69 kV Reconfiguration").
- 8. Kentucky Power also will construct improvements at its existing Wooton 161 kV Substation in Leslie County, Kentucky, and perform replacement and installation work at its existing Hazard 69/138/161 kV Substation in Perry County, Kentucky as part of the Project.

<sup>&</sup>lt;sup>3</sup> The maps show a preferred centerline and are not an actual design. Kentucky Power will supplement its filing with maps certified in accordance with KRS 322.340 once the Project is in service.

#### The Facilities To Be Constructed

#### A. The Proposed Rebuild

- 9. Approximately 5.45 miles of the approximately 6.6 mile Proposed Rebuild will be constructed as a single-circuit configuration.
- 10. Approximately 1.15 miles of the Proposed Rebuild will be constructed as a double-circuit configuration. The double-circuit configuration will be constructed from the Hazard Substation to the western side of the Kentucky Route 15 and a point north of the Hazard High School ball fields. The double-circuit configuration will be constructed within or near the existing Hazard Jackson 69 kV and Hazard-Wooton 161 kV rights-of-way, along with a small portion of newly acquired right-of-way. The two existing rights-of-way are parallel or overlap for portions of this section of the Project. At a point north and west of the Hazard High School ball fields, the 161 kV circuit and 69 kV circuit will split, and the Hazard Bonnyman No. 2 69 kV circuit (Hazard Jackson 69 kV line) will reconnect with the existing 69 kV transmission line by means of the Hazard Jackson 69 kV Reconfiguration (refer to paragraphs 7 and 17 for a further description of the "Hazard Jackson 69 kV Reconfiguration"). The Hazard Wooton 161 kV circuit will continue in a new right-of-way for a short distance before rejoining the existing 161 kV centerline.
- 11. The double-circuit portion of the Proposed Rebuild will allow Kentucky Power to avoid, to the extent possible, the steep topography and adjacent residences in this area. The new double-circuit 161/69 kV transmission line will be moved south within the combined rights-of-way and will be located farther from the adjacent residences. **EXHIBITS 1 and 2** show the location of the double-circuit portion of the Proposed Rebuild.
  - 12. As part of the Proposed Rebuild, the 34.5 kV distribution line will be underbuilt

on the 161/69 kV structures from the Hazard Substation to the first structure north of the North Fork of the Kentucky River. The 34.5 kV distribution line will be relocated to a right-of-way generally adjacent to the proposed transmission line right-of-way between the first structure north of the North Fork of the Kentucky River and Kentucky Route 15. **EXHIBIT 7** includes photographs of the existing 34.5/69/161 kV rights-of-way. Additionally, a visual simulation of the proposed double circuit configuration, with the distribution line underbuilt, is included as **Attachment 2** of the Rebuild Study, which is attached as **EXHIBIT 16** to this application.

#### B. The Structures, Conductors, And Groundwires

- galvanized tubular steel pole H-frame structure. Single circuit galvanized tubular steel three-pole and galvanized lattice steel towers structures will also be used as needed. These proposed structures will support three conductors and two overhead groundwires. The conductors will consist of 795 kcm ACSR conductors; the overhead groundwires will consist of one Alumoweld wire and one fiber optic overhead groundwire, which will be used for relaying communications between stations. The average above ground height of the proposed single-circuit structures will be approximately 80 feet. Images and sketches of the existing and proposed single-circuit structures are attached hereto as **EXHIBITS 3, 4, 5, AND 6.**<sup>4</sup>
- 14. Approximately seven of the existing Hazard Jackson 69 kV structures (wood H-frame and three-pole structures) and 12 of the existing Hazard—Wooton 161 kV structures (wood H-frame and three-pole structures) will be replaced with six steel monopole structures and one steel lattice tower to support the new double-circuit configuration. Additionally, one existing wood three-pole structure on the Hazard-Jackson 69 kV transmission line will be

<sup>&</sup>lt;sup>4</sup> The structure exhibit drawings are conceptual representative sketches and not actual designs. Kentucky Power will supplement its filing with plans certified in accordance with KRS 322.340 once the Project is in service.

replaced with a steel three-pole structure (as part of the Hazard – Jackson 69 kV Reconfiguration). The average height of the existing structures on the Hazard – Jackson 69 kV Transmission Line is approximately 53 feet; the average height of the existing structures on the existing Hazard – Wooton 161 kV Transmission Line is approximately 56 feet. The average height of the new double-circuit monopole structures will be approximately 110 feet and the height of the new double-circuit lattice tower will be approximately 120 feet. Images and sketches of typical double circuit steel monopole structures and double circuit steel lattice tower structure are shown in **EXHIBITS 8 AND 9.** 

- 15. The proposed double-circuit structures will support six conductors and two overhead groundwires. The conductors will consist of 795 kcm ACSR conductors for both the 69 kV and 161 kV circuits; the overhead groundwires will consist of one Alumoweld wire and one fiber optic overhead groundwire, which will be used for relaying communications between stations. The 69 kV circuit will be designed to accommodate a future upgrade to 138 kV for the proposed double-circuit section of the Project.
- 16. The Proposed Rebuild structures (both single-circuit and double-circuit) are taller and more efficient than the existing structures and yield longer spans. Approximately 18 fewer transmission line structures are required for the Proposed Rebuild. Preliminary design indicates approximately 53 existing transmission line structures will be removed and approximately 35 new transmission line structures will be installed (the final design could vary slightly).

#### C. The Hazard-Jackson 69 kV Reconfiguration

17. An approximately 1,900 foot section of the existing Hazard-Jackson 69 kV line will be reconfigured in connection with tying the double-circuit portion of the Proposed Rebuild into the existing Hazard-Jackson 69 kV line. The reconfiguration will involve the removal of an

existing 69 kV structure and the erection of a new 69 kV structure (built to 138 kV standards) to a position higher on the slope. The location of the new 69 kV structure permits optimized line design, will decrease outage duration during construction, and is expected to reduce the likelihood of slides during construction. An approximately1,900 foot section of the Hazard-Jackson 69 kV line will be reconfigured slightly to the northeast between the last double circuit 161/69 kV structure, the new 69 kV structure (built to 138 kV standards), and the next structure of the existing Hazard-Jackson 69 kV line.

#### D. Substation Work

- 18. The Hazard Substation improvements are described in **EXHIBIT 10** to this application. The proposed layout drawing and location map for Hazard Substation is attached as **EXHIBIT 10** to this application.
- 19. The Wooton Substation improvements will include the following: (a) installation of station class surge arresters attached to the upper beam of the existing 161kV box bay structure on the 161kV Hazard Line position; (b) replacement of devices for line protection and circuit breaker control associated with the 161kV Hazard line position; (c) installation of two coupling capacitor voltage transformers on Phase 2 and Phase 3 of the 161kV bus; (d) replacement of devices for 161kV bus protection; and (e) installation of telecommunication fiber equipment. The proposed layout drawing and location map for the Wooton Substation is included as **EXHIBIT 11** to this application.

#### **Financial Aspects Of The Project**

20. The total estimated cost of the Project is \$44.5 million. That sum comprises: (a) approximately \$16.5 million for transmission line work including right-of-way acquisition; and (b) approximately \$28 million for improvements to the Hazard and Wooton substations. The

Project does not involve sufficient capital outlay to affect the existing financial condition of Kentucky Power.

21. Kentucky Power projects the annual operating cost will be approximately \$16,000 for general maintenance and inspection. The projected annual additional ad valorem taxes resulting from the Project are expected to total approximately \$229,000.

#### **Property Acquisition**

- 22. The proposed Hazard and Wooton substation improvements are contained within the existing substations' footprint and on Kentucky Power property. No additional right-of-way or property acquisition related to the Project's substation work is anticipated.
- 23. Approximately 5.4 miles of the Proposed Rebuild is within or near existing Kentucky Power rights-of-way. Additional easements will be necessary to widen this existing right-of-way from its approximate 100 foot width to today's 161 kV standard of 120-feet width.
- 24. Two minor deviations, totaling approximately 1.2 miles in length, will be constructed to address engineering and constructability issues (**EXHIBITS 1 AND 2**). New 120-foot right-of-way easements will be acquired for both deviations.
- (a) The first deviation is located west of Kentucky Route 15 and lies north of the Hazard High School ball fields. It is approximately 3,200 feet in length and is required to relocate the exiting centerline, currently located on a steep slope above the existing Hazard High School ball fields, to a more suitable and stable terrain.
- (b) The second deviation is approximately 3,000 feet in length and begins one mile northeast of the Wooton Substation. The deviation is required due to the inaccessibility of an existing structure located atop a steep rock outcropping. The Proposed Rebuild will be relocated to the adjacent ridge southeast of the existing centerline to provide improved access

and constructability. The general location and path of both deviations are illustrated on **EXHIBITS 1 AND 2** to the application. Context photographs of the proposed deviations are included as Attachment 4 to the Rebuild Study (**EXHIBIT 16** of this application).

- 25. The Proposed Rebuild will principally be located within a 120 foot right-of-way; however, a widened right-of-way may be required for certain longer spans and steep terrain for the safe and efficient operation of the transmission line. The widened right-of-way is required to permit additional tree clearing to prevent the conductors from coming in contact with trees during higher wind conditions and to allow tree clearing on the up-hill side to prevent trees from falling down hill and into the conductors and structures. These areas of wider right-of-way will be identified during detailed engineering design and included during the right-of-way negotiations with landowners. The right-of-way in these locations typically would not exceed 150 feet, except as required in limited instances to accommodate unusually steep terrain and very long spans where the total width could be expanded up to 350 to 400 feet. Also, in certain limited locations, the right-of-way may be greater than 120 feet wide as necessary to accommodate guy wires that extend more than 60 feet from the Proposed Rebuild centerline.
- 26. Additional right-of-way, varying in width from zero feet to approximately 100 feet, will be acquired along the approximately 1,900 feet length of the Hazard-Jackson 69 kV Reconfiguration.
- 27. In all instances, the right-of-way will be located within the Filing Corridor described in Paragraph 29 below and subject to the conditions described in Paragraph 30 below.
- 28. The existing line spans Browns Fork Hollow located approximately three miles southwest of the City of Hazard. Currently, two occupied homes and two outbuildings are located off Browns Fork Road and are encroachments to the existing right-of-way. The

residences are shown on **EXHIBIT 2** and **EXHIBIT 12** as AEP ID numbers 59, 60 and 62. Alternatives that would permit Kentucky Power to deviate from the existing centerline and thereby avoid the need to remove the residences are not practical due to the long span over the hollow. A minimum of three transmission line angle structures would be required and additional structures would be needed in the hollow bottom. The Company has contacted the owners of the residences within the existing and proposed right-of-way and the property owners have indicated a willingness to work with the Company to be relocated.

- 29. To ensure the ability to address potential issues that may emerge after ground surveys, final engineering, and during right-of-way negotiations, Kentucky Power requests authority to move the illustrated centerline and right-of-way, and to expand the right-of-way, within the Filing Corridor illustrated on **EXHIBIT 2**. The Filing Corridor is defined as (a) 150 feet in either direction (300-foot corridor) in the portion of the Proposed Rebuild from the Hazard Substation to Kentucky Route 15; (b) 250 feet in either direction (500-foot corridor) in the portion of the Proposed Rebuild from Kentucky Route 15 to the Wooton Substation; and (c) 250 feet in either direction (500-foot corridor) on the Hazard-Jackson 69 kV Reconfiguration.
- 30. Kentucky Power's request to move the centerline and right-of-way, or to expand the right-of-way, within the Filing Corridor is expressly contingent upon: (1) Kentucky Power having notified the property owner onto whose property the line is moved of this proceeding in accordance with 807 KAR 5:120, Section 2(3); and (2) the property owner who is subject to the move or expansion agrees to the move or expansion in writing. After construction is completed, Kentucky Power will file with the Commission a revised plan showing the final location of the Proposed Rebuild and structures. The authority sought in this proceeding is similar, but not identical, to that granted Kentucky Power by the Commission in its Order dated the January 26,

2012 in Case No. 2011-00295.5

- 31. The Filing Corridor, as described in Paragraph 29, includes 80 landowners as illustrated in **EXHIBIT 2**. A list of landowners within the Filing Corridor is provided as **EXHIBIT** 12.
- 32. Kentucky Power currently is negotiating with the affected property owners for acquisition of the necessary rights-of-way. Kentucky Power has contacted all affected property owners in connection with obtaining permission to survey their property. The permission form includes a space in which the property owner may register project opposition. To date, no property owners have expressed objections to the Project. The status of negotiations for acquisition of the necessary rights-of-way is set forth in more detail in **EXHIBIT 12** of this application. Kentucky Power plans to begin negotiating with the affected property owners for acquisition of the additional rights-of-way in early 2018 and expects to complete acquisition during the summer of 2018. If requested, Kentucky Power will provide the Commission with periodic property acquisition status updates in the format employed in **EXHIBIT 12**.

#### **Notices**

- 33. On August 11, 2017 Kentucky Power filed its Notice of Intent in conformity with 807 KAR 5:120, Section 1.
- 34. Kentucky Power provided the notice required by 807 KAR 5:120, Section 2(3) to all property owners, as indicated by the records of Perry and Leslie Counties Property Valuation Administrators, whose land is included within the Filing Corridor ("Affected Landowners") of the Proposed Rebuild and the Hazard-Jackson 69 kV Reconfiguration.

<sup>&</sup>lt;sup>5</sup> In the Matter of: The Application Of Kentucky Power Company For A Certificate Of Public Convenience And Necessity To Construct A 138 KV Transmission Line In and Associated Facilities in Breathitt, Knott and Perry Counties, Kentucky (Bonnyman-Soft Shell Line).

- 35. Notice was provided by a mailing on October 30, 2017 to all Affected Landowners within the Filing Corridor. The October 30, 2017 Notice included the following information:
  - a. notice of the proposed construction;
  - b. the docket number (P.S.C. Case No. 2017-00328) under which the application will be processed;
  - c. the address and telephone number of the Commission's Executive Director;
  - d. a description of the property owners' rights to request a public hearing and the right to request intervention; and
  - e. a description of the Proposed Rebuild and a map of the Proposed Rebuild route.
- 36. A Supplemental Notice was mailed on November 13, 2017 to all Affected Landowners within the Filing Corridor of the Proposed Rebuild and all Affected Landowners within the Filing Corridor of the Hazard-Jackson 69 kV Reconfiguration. The November 13, 2017 Supplemental Notice updated the October 30, 2017 Notice to include information and an updated map illustrating the Hazard-Jackson 69 kV Reconfiguration. The November 13, 2017 Supplemental Notice included the following information:
  - a. notice of the proposed construction;
  - b. the docket number (P.S.C. Case No. 2017-00328) under which the application will be processed;
  - c. the address and telephone number of the Commission's Executive Director;
  - d. a description of the property owners' rights to request a public hearing and the right to request intervention; and
  - e. a description of the Proposed Rebuild and the Hazard-Jackson 69 kV Reconfiguration and a map illustrating the route of the Proposed Rebuild and the Hazard-Jackson 69 kV Reconfiguration.
- 37. A sample copy of the October 30, 2017 Notice and the November 13, 2017 Supplemental Notice, including all enclosures, is attached as part of **EXHIBIT 13**. The list of the persons to whom the Supplemental Notice was mailed, their addresses as indicated by the

records of the Property Valuation Administrators of Perry and Leslie counties, and the verification by Ryan M. Howell of the mailing of the letters are attached as **EXHIBIT 12**.

- 38. The notice required by 807 KAR 5:120, Section 2(5) was published November 9, 2017 in the *Leslie County News* and the *Hazard Herald*. The published notices included the following information:
  - a. a description of the Proposed Rebuild and the Hazard-Jackson 69 kV Line Reconfiguration;
  - b. the docket number (P.S.C. Case No. 2017-00328) under which the application will be processed;
  - c. the address and telephone number of the Commission's Executive Director;
  - d. a description of the property owners' rights to request a public hearing and the right to request intervention; and
  - e. a map illustrating the route of the Proposed Rebuild and the Hazard-Jackson 69 kV Line Reconfiguration.

The notice published in the *Leslie County News* and the *Hazard Herald* is attached as **EXHIBIT**14. Also included in **EXHIBIT 14** is an Affidavit of Publication.

#### **Franchises And Permits**

- 39. Kentucky Power is not required to obtain a franchise from any public authority. 807 KAR 5:001, Section 15(2)(b).
- 40. Prior to beginning Project construction, Kentucky Power will obtain all required environmental compliance permits and complete the required studies. Preliminary environmental surveys have been completed for the Proposed Rebuild right-of-way, access roads, and laydown yard associated with the Project. A complete list and summary of the environmental surveys and permitting completed or anticipated to be required is described in Ms. Larson's testimony filed with this application. Following receipt of the requested authority, and completion of final design and right-of-way acquisition, but prior to the beginning of

construction, Kentucky Power will update or supplement the listing in Ms. Larson's testimony of required environmental surveys or permitting.

41. The Company also will timely submit the final line design to the Federal Aviation Administration and the Kentucky Transportation Cabinet to secure a "Determination of No Hazard to Air Navigation." Other permits that will be obtained include road and railroad crossing permits. These will be submitted to the Commission once final engineering has been completed.

## The Proposed Construction Is Required By The Public Convenience And Necessity

- 42. The Project is required by the public convenience and necessity. It is vital to strengthening the current electrical transmission network which has reached its capacity for reliable operation during certain electrical "contingencies." The need for the Project is described in testimony of Company Witness Lasslo and the *Hazard 161 kV Area Improvement Plan*, which is attached as **EXHIBIT 15**. The Project will improve the reliability of the existing 161 kV source into the Hazard area by:
  - Alleviate the bulk electric system violations identified by PJM. PJM identified thermal overloads during common mode contingency outage conditions.
  - Address aging infrastructure concerns associated with the existing Hazard–Wooton 161 kV line and associated station equipment.
  - Enhance operational performance and improve reliability of service for approximately 300 MW of load.
  - Provide Kentucky Power increased capacity to serve future new load.
  - Provide the necessary flexibility to allow for routine maintenance of transmission and sub-transmission facilities.

- 43. As an alternative to the Project, Kentucky Power also evaluated performing sag mitigations on the Hazard Wooton 161 kV circuit to allow the existing 500 MCM CU conductor to operate to a higher operating temperature. This alternative was rejected for the reasons described in Company's witness Lasslo Testimony.
- 44. The Project will not compete with any public utilities, corporations, or persons, and will not result in a duplication of facilities.

#### **Alternate Routes Considered**

- 45. Kentucky Power retained the services of POWER Engineers, Inc. ("POWER"), located in Richmond, Virginia and Fort Mill, South Carolina, to conduct a study to assess the suitability of using the existing Hazard-Wooton 161 kV right-of-way, develop deviations, where necessary, and to ensure the rebuild reasonably avoids or minimizes impacts on people and environmental resources (the "Rebuild Study"). A copy of the Rebuild Study for the Hazard-Wooton 161 kV Transmission Line prepared by POWER is attached to this application as **EXHIBIT 16**. A detailed description of the siting methodologies and permitting requirements are included in the Rebuild Study (**EXHIBIT 16**) and Ms. Larson's testimony.
- 46. The Project study area used by POWER included a two-mile buffer around the existing centerline. The study area encompassed approximately 24,600 acres (38.4 square miles) in Perry and Leslie counties, Kentucky. The area's constraints and resources were mapped as shown on mapping included in the Rebuild Study (EXHIBIT 16) as Attachment 1.
- 47. Based upon its study, POWER concluded that abandoning the existing right-of-way, an existing linear feature in the landscape, for a new greenfield route, was neither practical nor necessary. Furthermore, using existing right-of-way for the Proposed Rebuild is consistent with public preferences and general siting guidelines for paralleling or utilizing existing rights-

of-way for new or rebuilt transmission facilities where feasible. See e.g. Order, In the Matter of: Application Of Big Rivers Electric Corporation For A Certificate Of Public Convenience And Necessity To Construct A 161 kV Transmission Line In Ohio County, Kentucky, Case No. 2007-00177 (Ky. P.S.C. October 30, 2007 ("By following a route that parallels existing transmission lines for a significant portion of its length, Route C minimizes the impact of the proposed facilities on property owners more than the other possible routes.")

48. Kentucky Power and POWER conducted extensive outreach and collected stakeholder input, including meeting with local officials, establishing a public website, hosting an open house, and publishing a news release (**EXHIBIT 17**). Kentucky Power and POWER conducted a public open house on August 24, 2017 to solicit comments. Further information concerning stakeholder contacts and outreach efforts is included in **EXHIBIT 16** to the application (the Rebuild Study).

#### **Exhibits And Testimony**

49. The exhibits and testimony listed in the Appendix to this application are attached to and made a part of this application.

#### **Communications**

50. The Applicant respectfully requests that communications in this matter be addressed to the e-mail addresses identified on Kentucky Power's August 11, 2017 Notice of Election of Use of Electronic Filing Procedures.

#### Filing Requirements

51. Kentucky Power's compliance with the requirements of 807 KAR 5:001, Section 14, 807 KAR 5:001, Section 15, and 807 KAR 5:120 is detailed in **EXHIBIT 19** to the application.

WHEREFORE, Kentucky Power Company respectfully requests that the Commission issue an Order:

- (a) Granting Kentucky Power a Certificate of Public Convenience and Necessity for the Project, including the Proposed Rebuild, the improvement, replacement, and installation work at Kentucky Power's existing Hazard and Wooton substations, and, to the extent required, the Hazard-Jackson 69 kV Reconfiguration; and
  - (b) Granting Kentucky Power such other relief as may be appropriate.

Respectfully submitted

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#### **APPENDIX**

#### **TESTIMONY**

DIRECT TESTIMONY OF RANIE K. WOHNHAS Regulatory Information		
DIRECT TESTIMONY OF MICHAEL G. LASSLO Project Need		
DIRECT TESTIMONY OF EMILY S. LARSON Transmission Line Siting		
LIST OF EXHIBITS		
EXHIBIT 1:	PROJECT LOCATION MAP	
EXHIBIT 2:	PROPOSED REBUILD ROUTE MAP (USGS BASE)	
EXHIBIT 3:	TYPICAL EXISTING STRUCTURES	
EXHIBIT 4:	TYPICAL PROPOSED SINGLE CIRCUIT H-FRAME TRANSMISSION LINE	
	STRUCTURE	
EXHIBIT 5:		
	TRANSMISSION LINE STRUCTURE	
EXHIBIT 6:	TYPICAL PROPOSED SINGLE CIRCUIT LATTICE TRANSMISSION LINE	
	STRUCTURE	
EXHIBIT 7:	PHOTOGRAPHS OF THE EXISTING 34.5/69/161 KV RIGHTS-OF-WAY	
EXHIBIT 8:	TYPICAL PROPOSED DOUBLE CIRCUIT MONOPOLE TRANSMISSION	
	LINE STRUCTURE	
EXHIBIT 9:	TYPICAL PROPOSED DOUBLE CIRCUIT LATTICE TRANSMISSION LINE	
	STRUCTURE	
EXHIBIT 10:	PROPOSED HAZARD SUBSTATION IMPROVEMENTS PLAN	
EXHIBIT 11:	PROPOSED WOOTON SUBSTATION IMPROVEMENTS PLAN	
EXHIBIT 12:	PARCEL LIST FOR FILING CORRIDOR AND VERIFIED STATEMENT	

CONCERNING MAILED NOTICE

**EXHIBIT 13: NOTICES TO LANDOWNERS** 

EXHIBIT 14: PUBLISHED NOTICE

EXHIBIT 15: HAZARD AREA IMPROVEMENTS PLAN

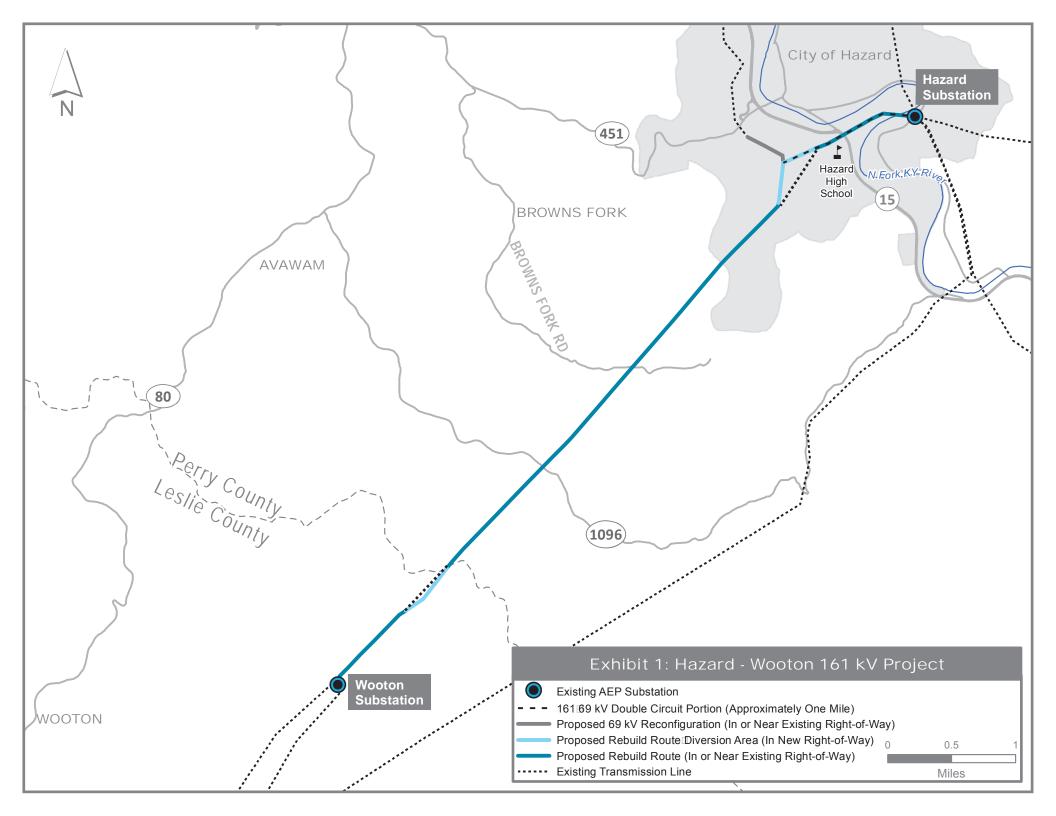
EXHIBIT 16: REBUILD STUDY

EXHIBIT 17: PUBLIC NEWS RELEASE

EXHIBIT 18: THE COMPANY'S CERTIFICATE OF EXISTENCE

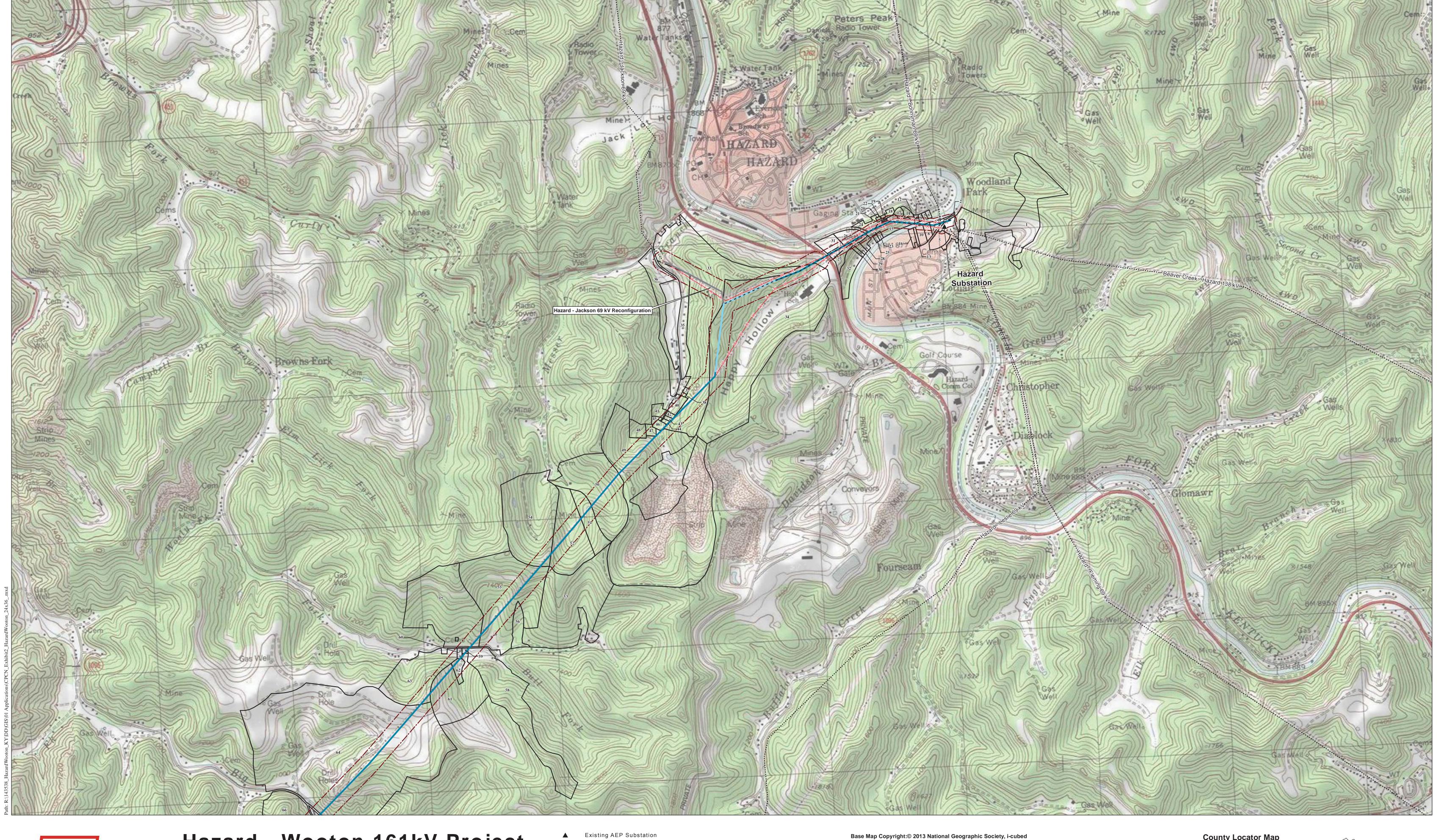
EXHIBIT 19: FILING REQUIREMENTS

### **EXHIBIT 1: PROJECT LOCATION MAP**



### **EXHIBIT 2: PROPOSED REBUILD MAP (USGS BASE)**

## SIX COPIES OF THE FULL SIZE MAPS PROVIDED TO THE COMMISSION AS PART OF THIS APPLICATION





BOUNDLESS ENERGY\*\*

## Hazard - Wooton 161kV Project

**Exhibit 2: Proposed Rebuild Route** 

Date: 11 7 2017 Sheet 1 of 2 Sheets Proposed Rebuild Route (In New Right-of-Way)

Proposed Rebuild Route (In or Near Existing Right-of-Way)

Proposed 69 kV Reconfiguration (In or Near Existing Right-of-Way)

161 69 kV Double Circuit Portion (Approximately One Mile)

Existing AEP Transmission Line To Be Removed

Existing Transmission Line
Filing Corridor

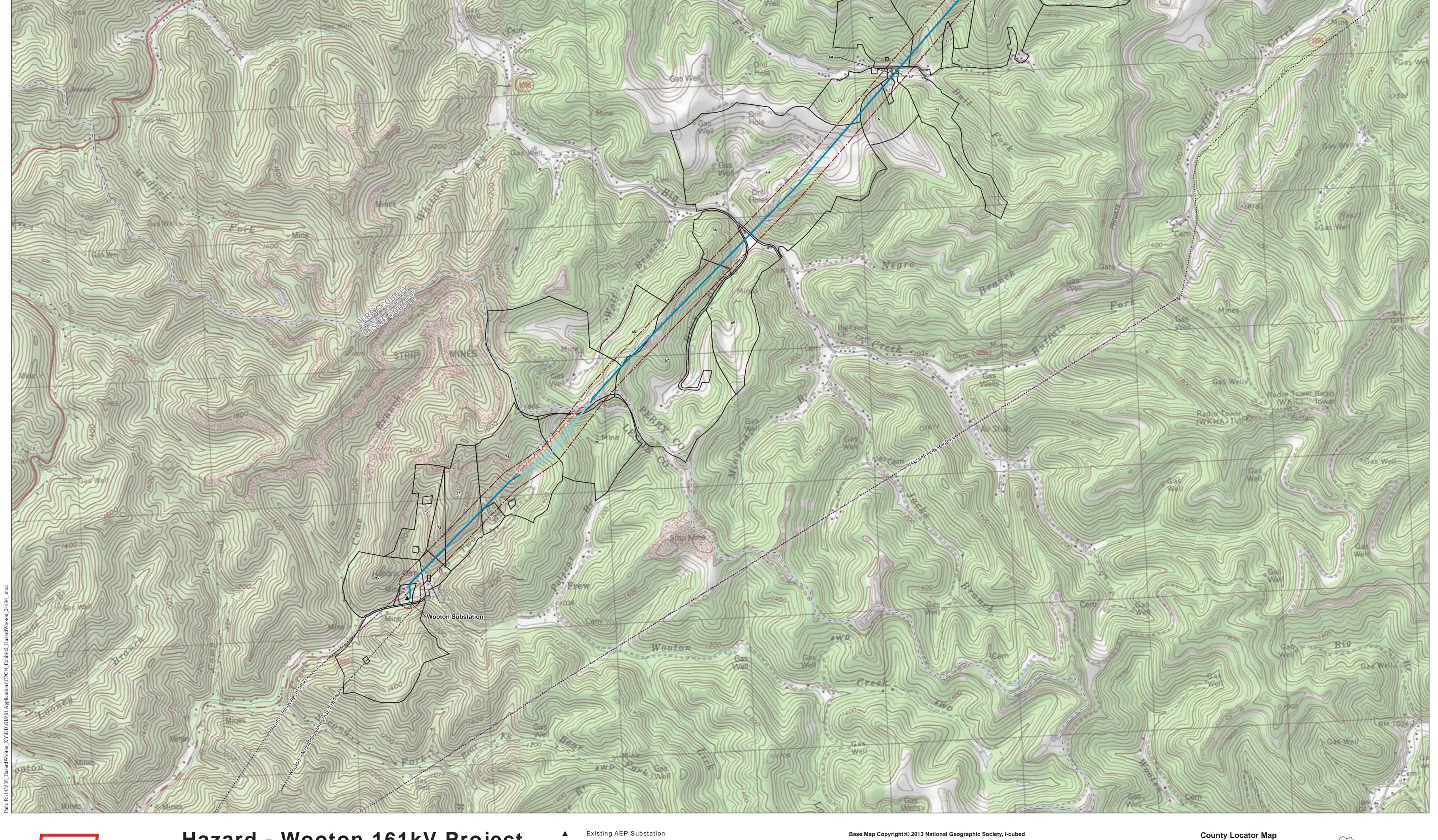
Property Line Boundary w□AEP-ID²

1 The Proposed Rebuild Route centerline shown on this map is preliminary, based on best available information as of Nov. 6, 2017. The final centerline may differ from the preliminary location shown on this map, based on final engineering, ground surveys, minimization of impacts on resources and landowner preference.

2 Property lines on this map were obtained from the local Property Valuation Administrator office; they are not based on accurate ground survey and therefore not to be construed or used as exact depictions of legal boundaries.





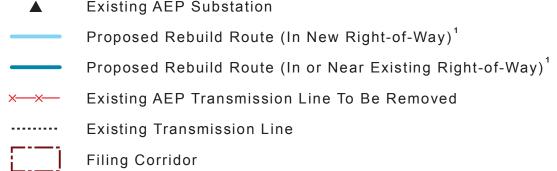




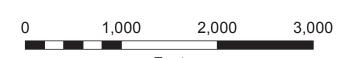
## Hazard - Wooton 161kV Project

**Exhibit 2: Proposed Rebuild Route** 

Date: 11 7 2017 Sheet 2 of 2 Sheets



Property Line Boundary w□AEP-ID



### NOTES

1 The Proposed Rebuild Route centerline shown on this map is preliminary, based on best available information as of Nov. 6, 2017. The final centerline may differ from the preliminary location shown on this map, based on final engineering, ground surveys, minimization of impacts on resources and landowner preference.

2 Property lines on this map were obtained from the local Property Valuation Administrator office; they are not based on accurate ground survey and therefore not to be construed or used as exact depictions of legal boundaries.





### **EXHIBIT 3: TYPICAL EXISTING STRUCTURES**

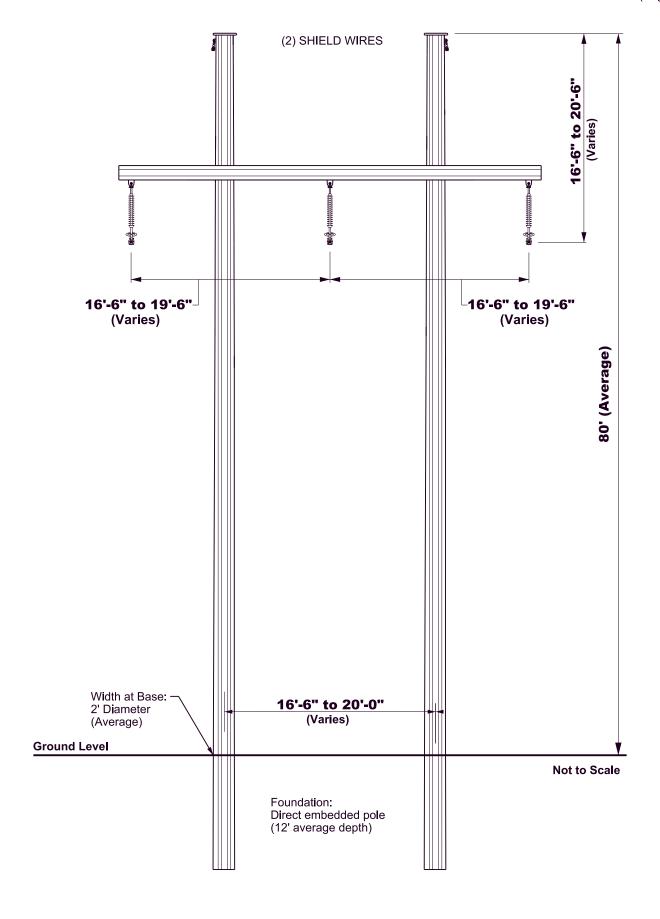


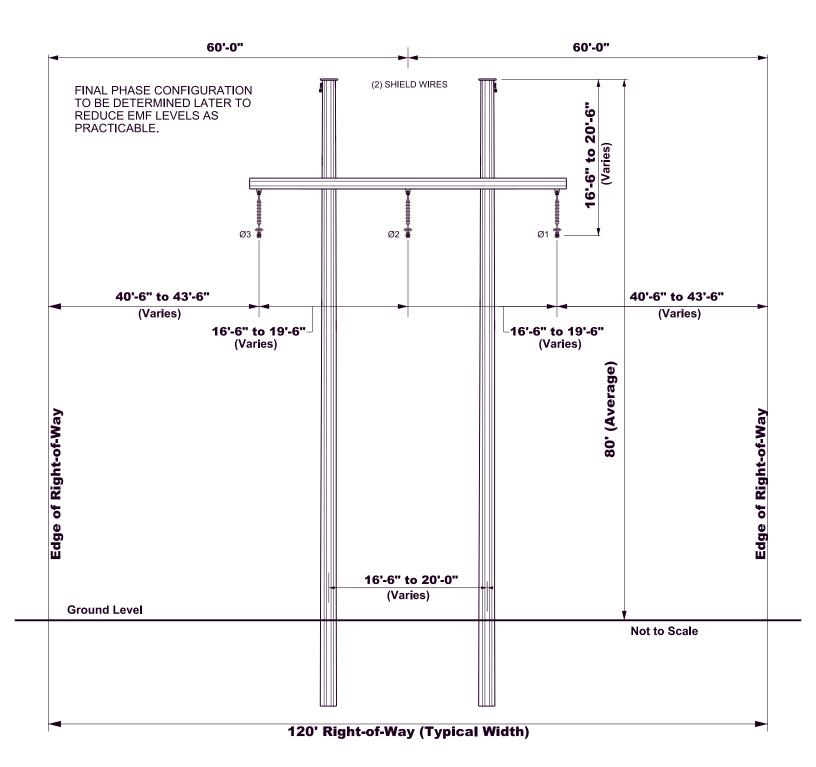
**EXISTING STRUCTURE PHOTOGRAPH** 



### **EXISTING STRUCTURE PHOTOGRAPH**

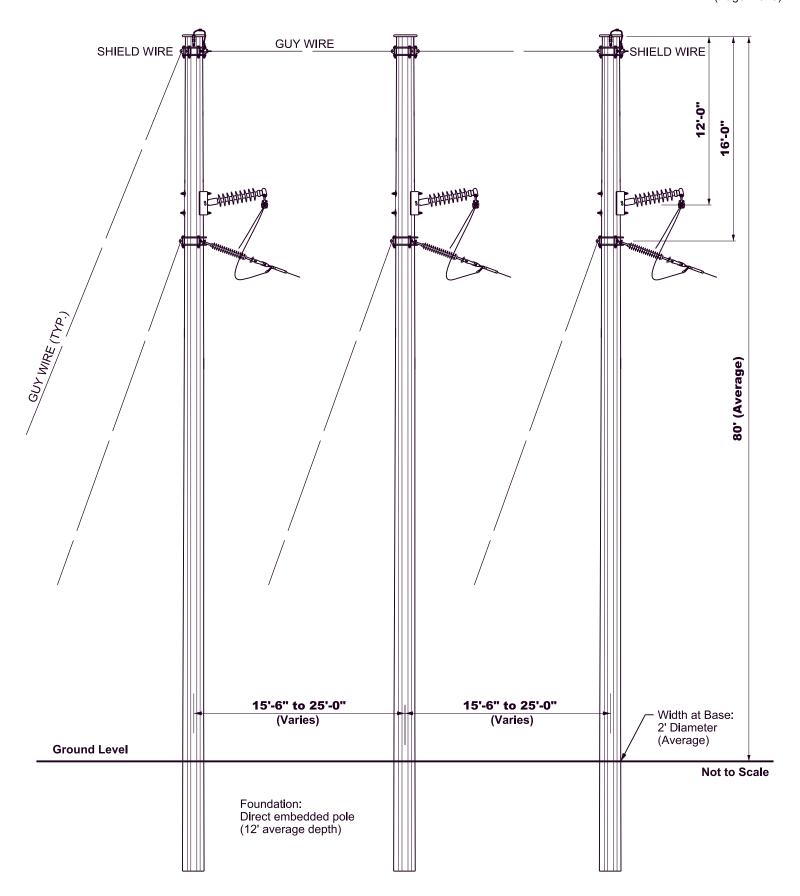
# EXHIBIT 4: TYPICAL PROPOSED SINGLE CIRCUIT H-FRAME TRANSMISSION LINE STRUCTURE

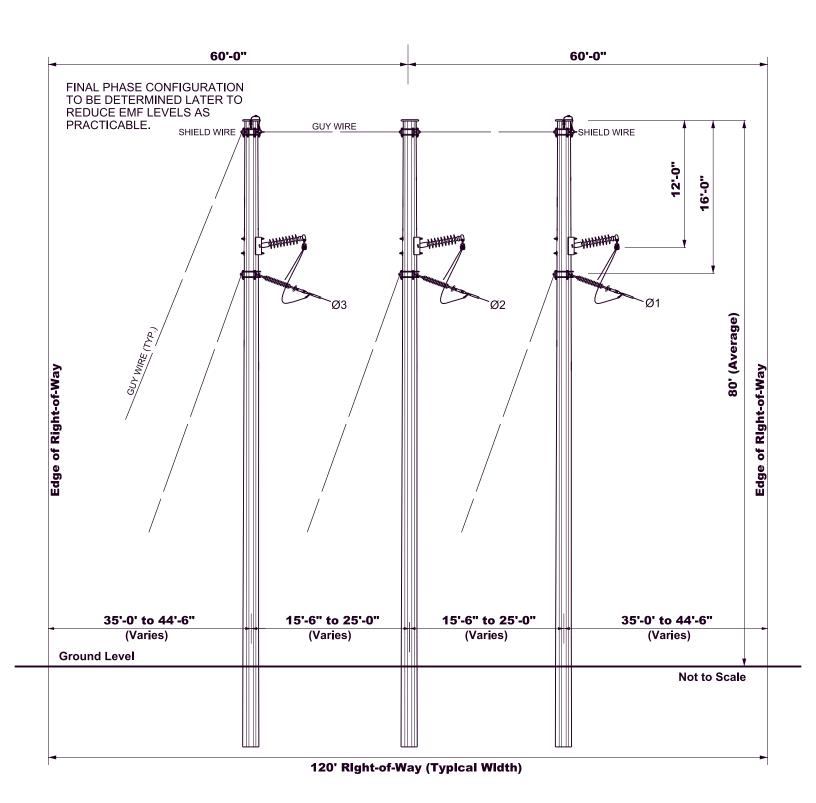






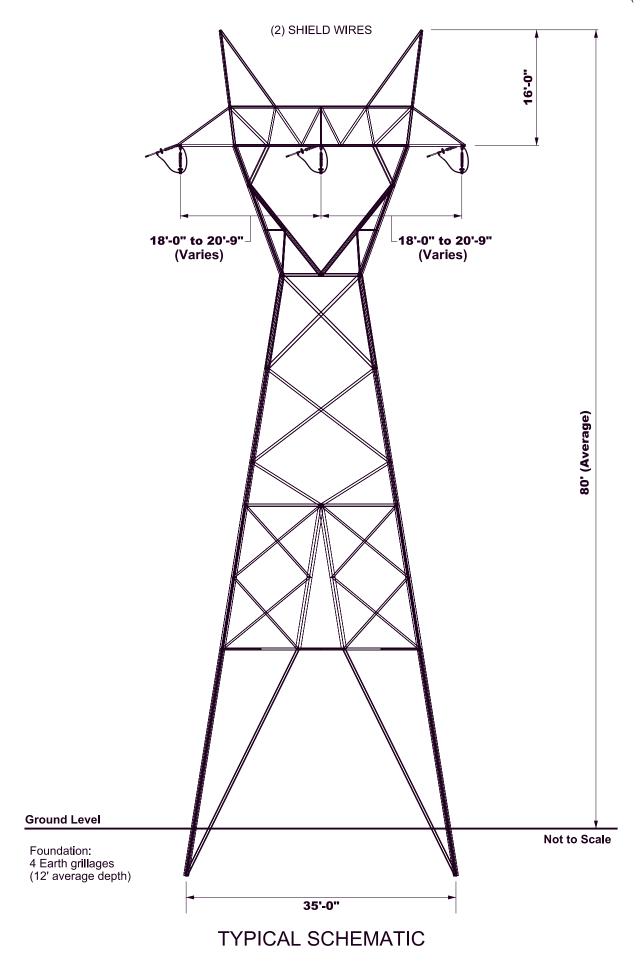
# EXHIBIT 5: TYPICAL PROPOSED SINGLE CIRCUIT 3-POLE DEAD-END TRANSMISSION LINE STRUCTURE

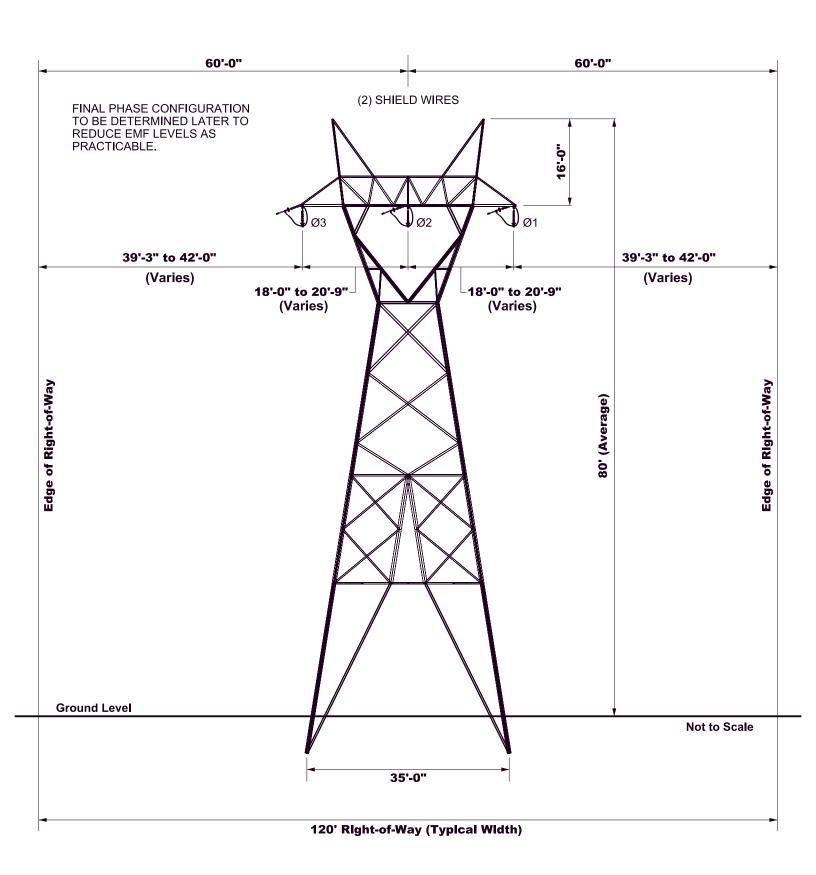


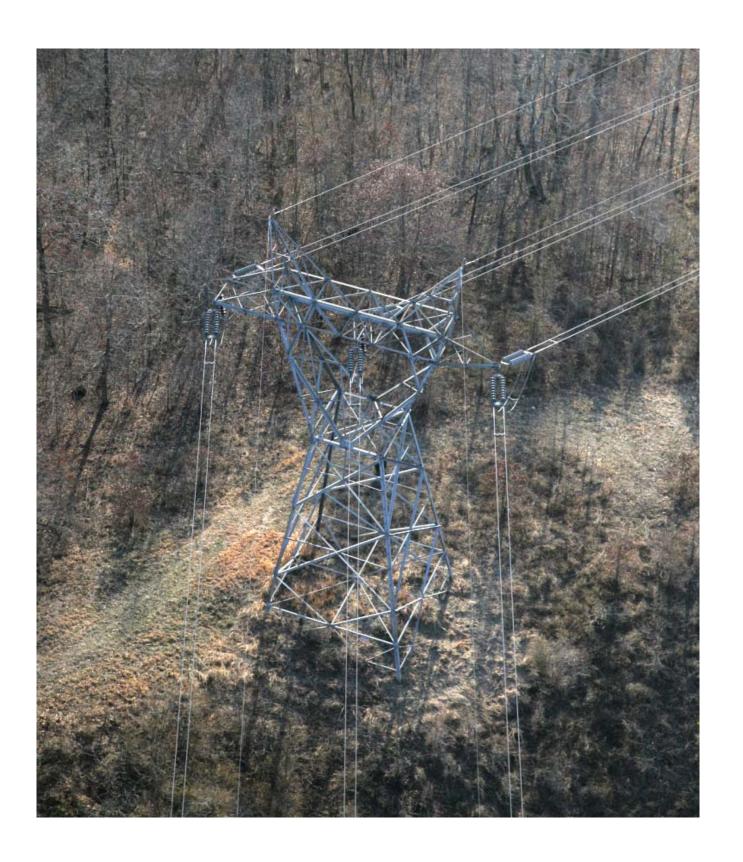




# EXHIBIT 6: TYPICAL PROPOSED SINGLE CIRCUIT LATTICE TRANSMISSION LINE STRUCTURE

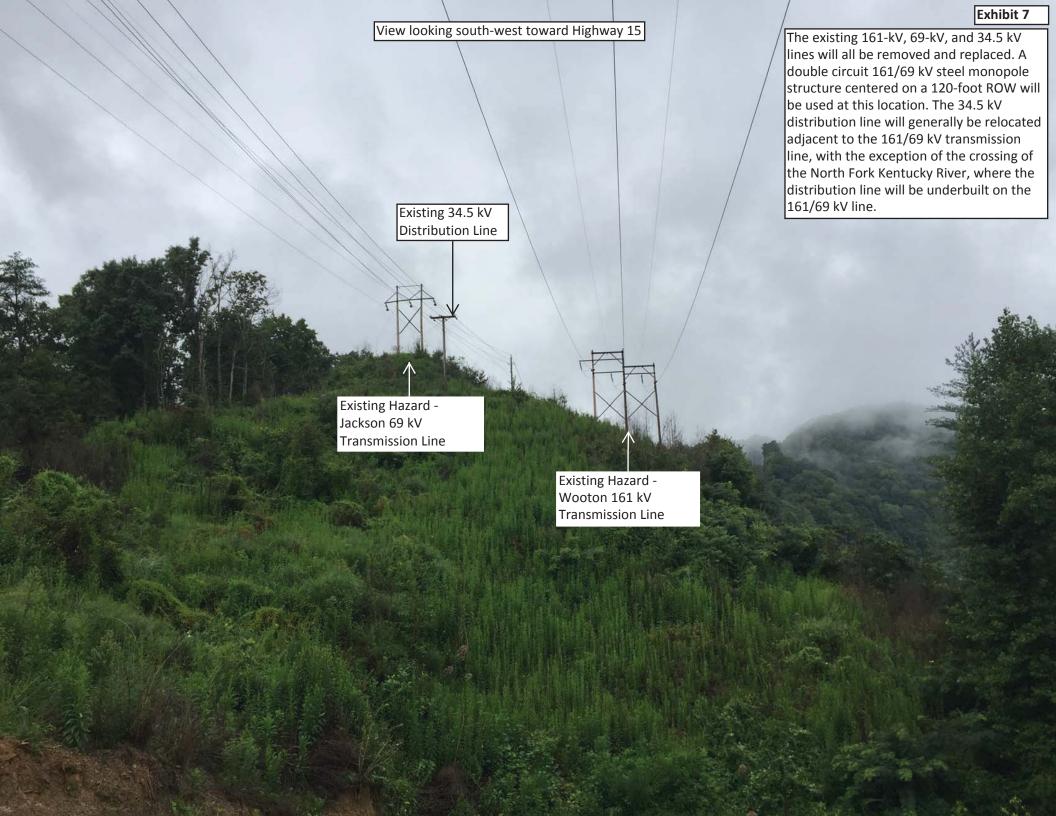




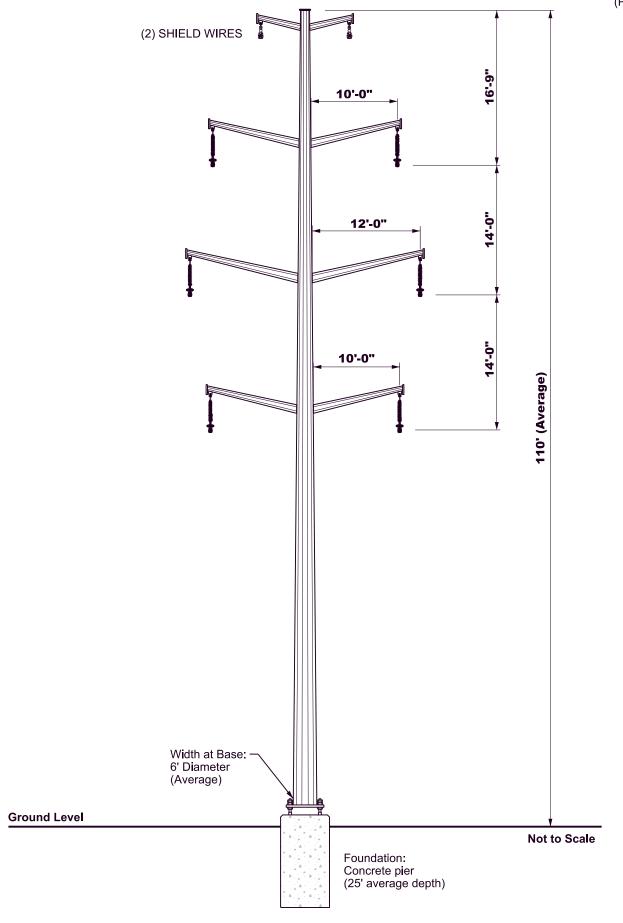


#### COMPARABLE STRUCTURE PHOTOGRAPH

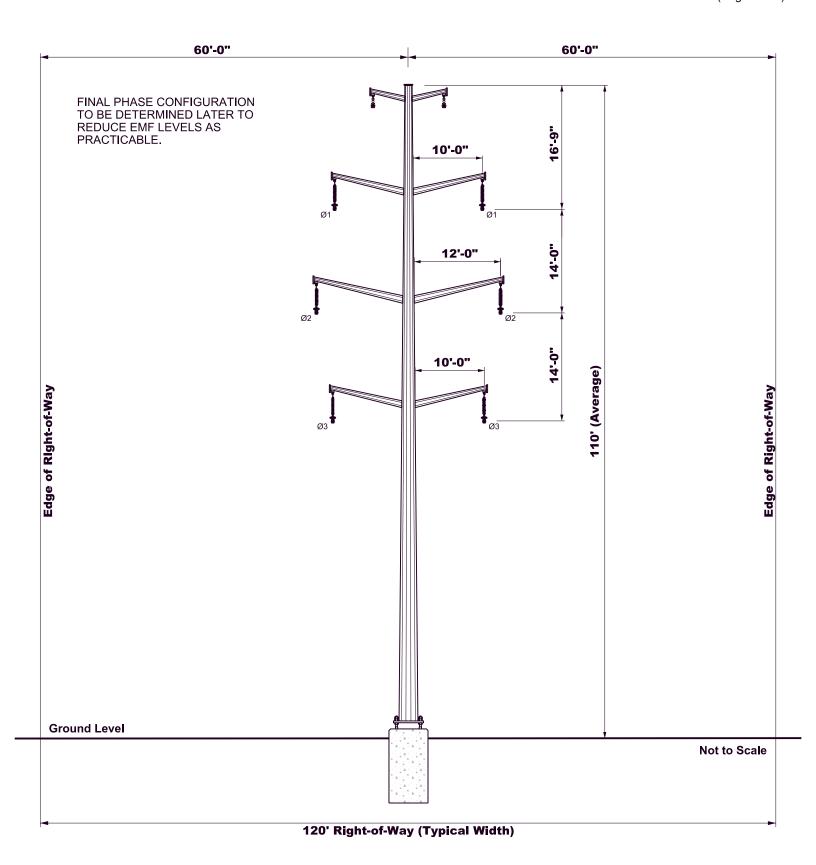
### EXHIBIT 7: PHOTOGRAPHS OF THE EXISTING 34.5/69/161 KV RIGHTS-OF-WAY



# EXHIBIT 8: TYPICAL PROPOSED DOUBLE CIRCUIT MONOPOLE TRANSMISSION LINE STRUCTURE



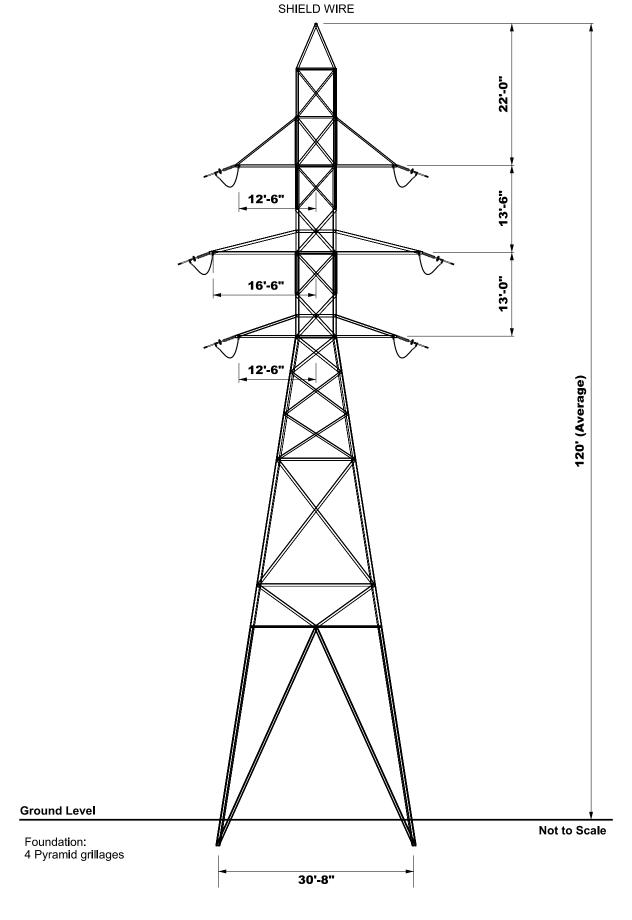
TYPICAL SCHEMATIC



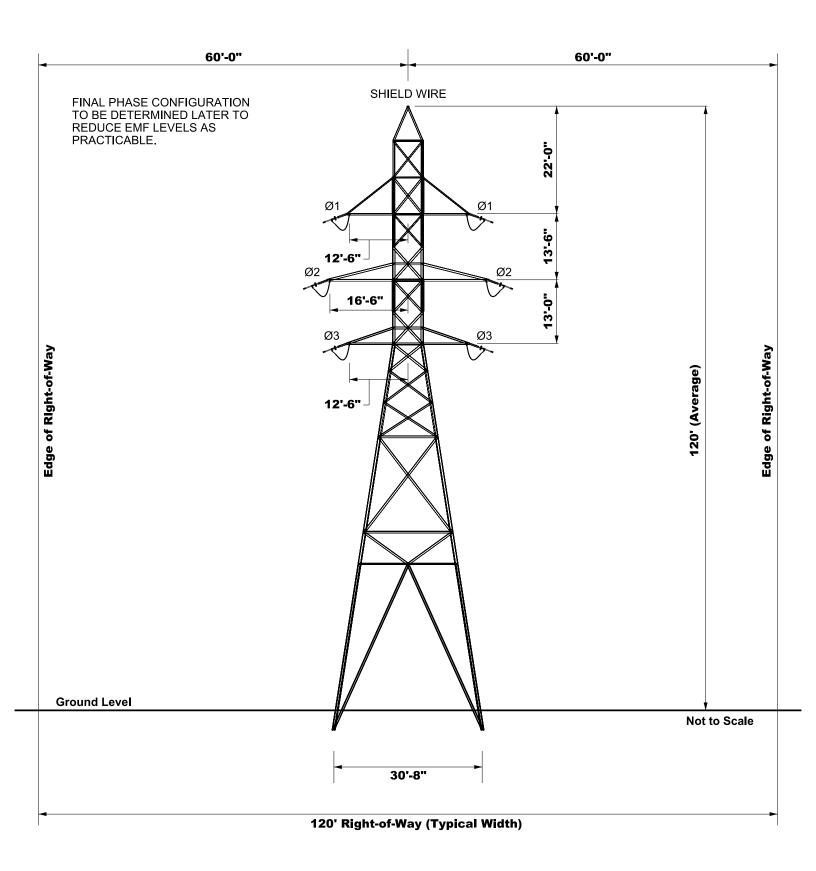


#### COMPARABLE STRUCTURE PHOTOGRAPH

# EXHIBIT 9: TYPICAL PROPOSED DOUBLE CIRCUIT LATTICE TRANSMISSION LINE STRUCTURE

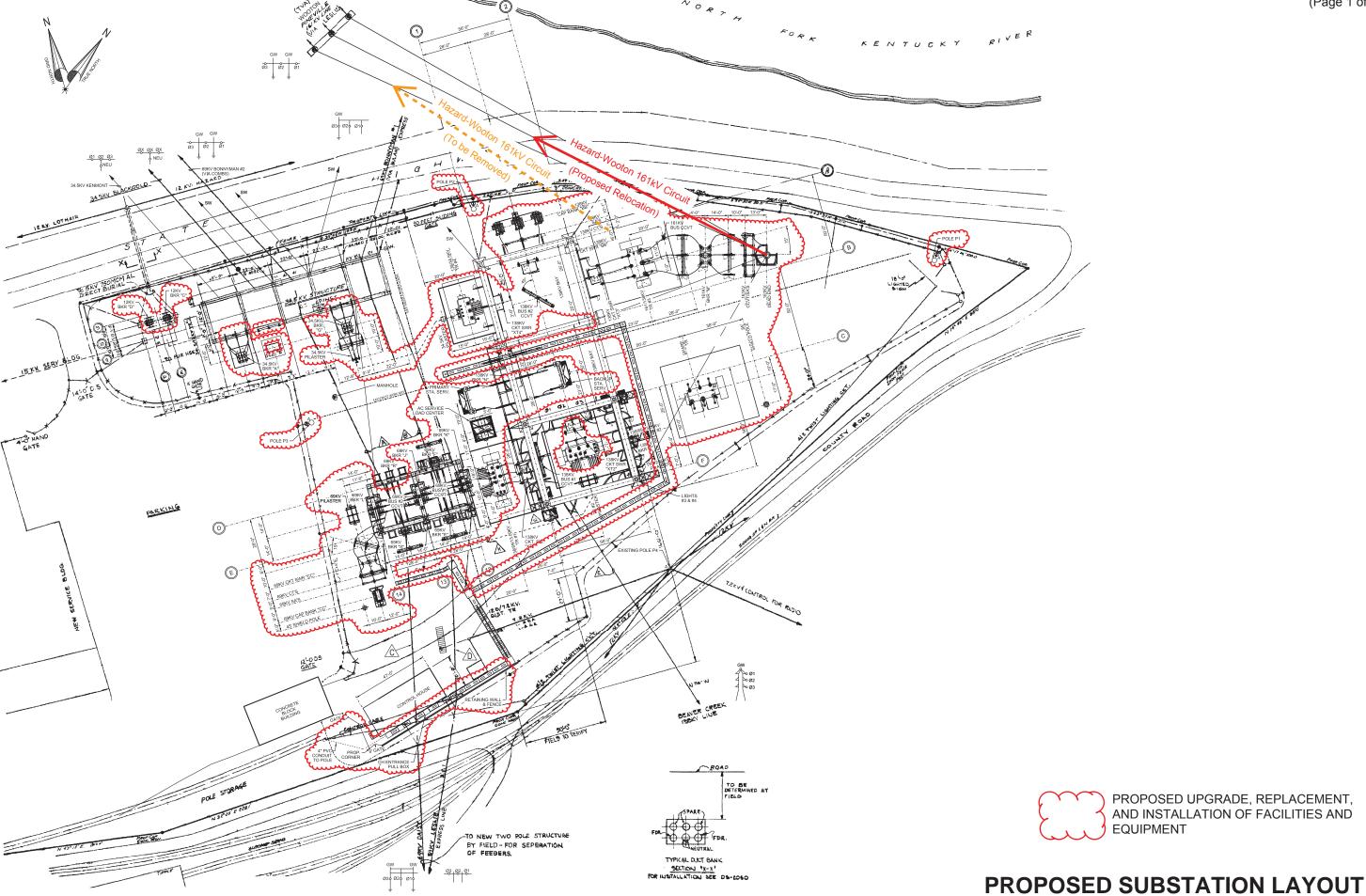


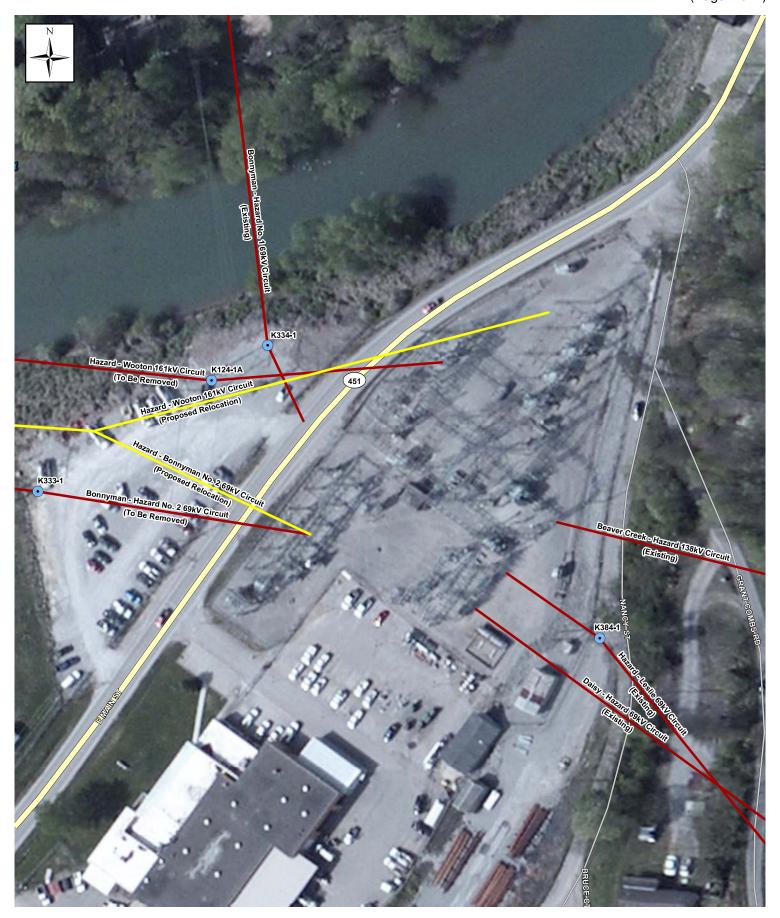
TYPICAL SCHEMATIC





#### **EXHIBIT 10:PROPOSED HAZARD SUBSTATION IMPROVEMENTS PLAN**





SUBSTATION LOCATION MAP

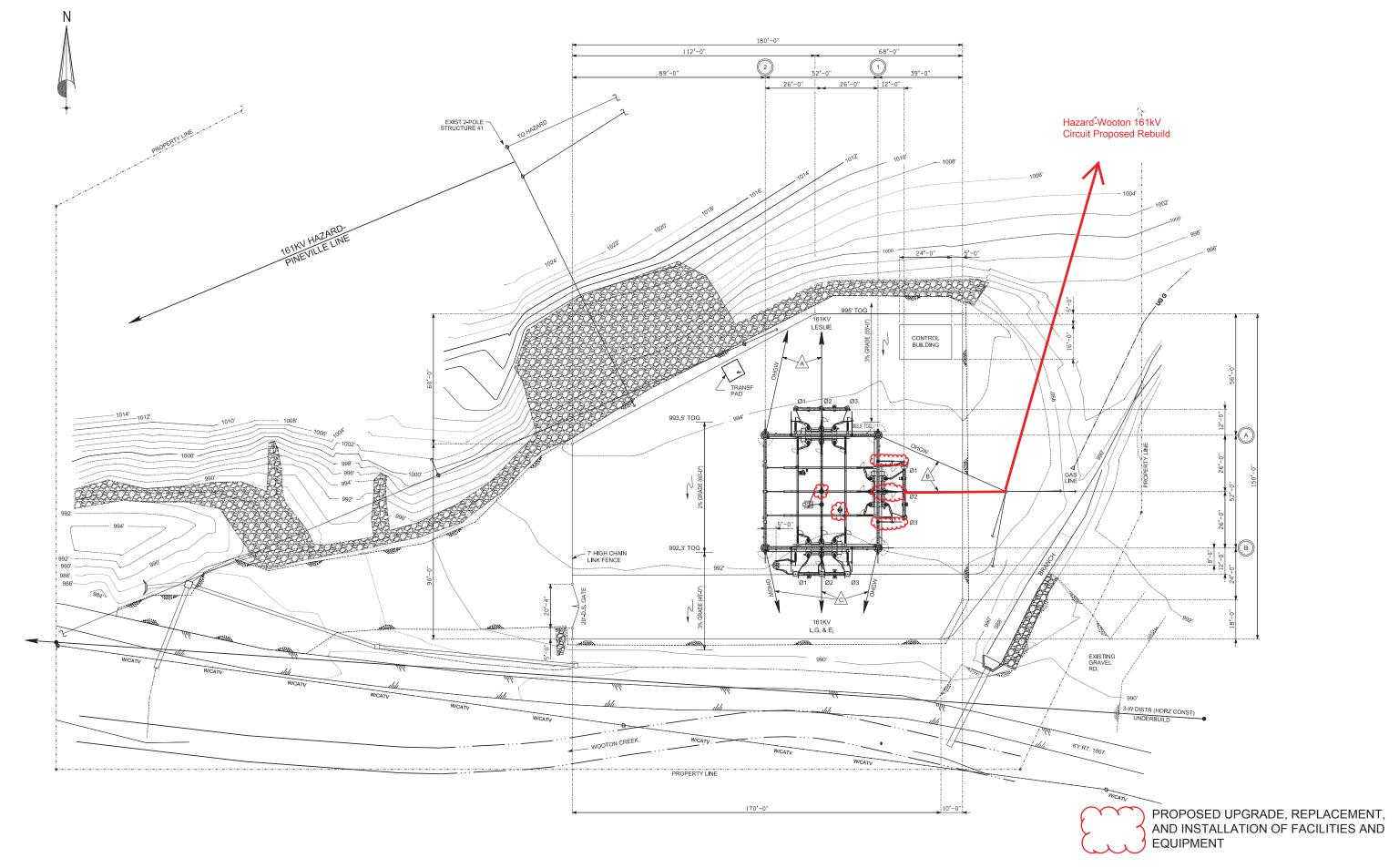
#### **EXHIBIT 10**

#### <u>Hazard Substation Improvements</u>

(a)	Replacement of the 161 kV circuit breaker pointing towards Wooton Station					
	Replacement of devices for line protection and circuit breaker control associated					
(b)	with the 161kV Wooton line position					
(c)	Replacement of the existing 161 kV/138 kV Transformer #3 comprised of three					
	single phase transformers plus one single phase spare transformer, with a new three					
	phase 161 kV/138 kV 350 MVA or similar MVA rated transformer					
(d)	Installation of a 138 kV breaker with relay control on the low side of the 161					
	kV/138 kV transformer					
(e)	Replacement of devices for transmission transformer protection associated with					
	Transformer #3					
(f)	Installation of a new three phase 161 kV/138kV spare transformer					
(g)	Replacement of coupling capacitor voltage transformers on 138kV Bus #2					
(h)	Replacement of devices for 138kV Bus #2 protection					
	Installation of station service voltage transformers and associated AC service					
(i)	equipment on 138kV Bus #2					
(j)	Replacement of 138 kV capacitor bank and switcher BB					
(k)	Replacement of devices for capacitor bank and switcher BB protection and control					
	Replacement of circuit breaker disconnect switches on either side of the 138kV bus					
(1)	tie circuit breaker					
	Installation of station service voltage transformers and associated AC service					
(m)	equipment on 138kV Bus #1					
(n)	Replacement of existing 138kV/69kV Transformer #1					
( )	Installation of a 69kV breaker with relay control on the low-side of 138kV/69kV					
(o)	Transformer #1					
	Replacement of devices for transmission transformer protection associated with					
(p)	Transformer #1					
(q)	Installation of coupling capacitor voltage transformers on 69kV Bus #1					
(r)	Installation of devices for 69kV Bus #1 protection					
(a)	Replacement of the motor operated air break switch and installation of a circuit					
(s)	switcher on the high-side of Transformer #2  Penlacement of existing 138kV/69kV Transformer #2					
(t)	Replacement of existing 138kV/69kV Transformer #2					
(11)	Installation of a 69kV breaker with relay control on the low-side of 138kV/69kV Transformer #2					
(u)	Replacement of devices for transmission transformer protection associated with					
(37)	Transformer #2					
(v) (w)	Replacement of 69kV capacitor bank and switcher CC					
(x)	Replacement of devices for capacitor bank and switcher cc protection and control					
(y)	Installation of coupling capacitor voltage transformers on 69kV Bus #2					
(y) (z)	Installation of devices for 69kV Bus #2 protection					
(aa)	Replacement of devices for line protection and circuit breaker control associated					
(aa)	replacement of devices for the protection and effect of taker control associated					

	with the 69kV Bonnyman #2 line position						
(bb)	Replacement of the 69kV circuit breaker pointing towards Daisy Station						
	Replacement of devices for line protection and circuit breaker control associated						
(cc)	with the 69kV Daisy line position						
(dd)	Replacement of the 69kV circuit breaker pointing towards Leslie Station						
	Replacement of devices for line protection and circuit breaker control associated						
(ee)	with the 69kV Leslie line position						
	Replacement of the 69kV circuit breaker pointing towards Bonnyman Station via						
(ff)	the number one circuit						
	Replacement of devices for line protection and circuit breaker control associated						
(gg)	with the 69kV Bonnyman #1 line position						
(hh)	Installation of a 69kV circuit breaker connecting 69 kV bus #1 and bus #2						
	Replacement of the motor operated air break switch and installation of a circuit						
(ii)	switcher on the high-side of Transformer #4						
	Installation of a 34.5kV breaker with relay control on the low-side of						
(jj)	138kV/34.5kV Transformer #4						
	Replacement of devices for transmission transformer protection associated with						
(kk)	Transformer #4						
	Replacement of devices for line protection and circuit breaker control associated						
(ll)	with the 34.5kV Blackgold line position						
(mm)	Replacement of the 34.5kV circuit breaker pointing towards Kenmont Station						
	Replacement of devices for line protection and circuit breaker control associated						
(nn)	with the 34.5kV Kenmont line position						
	Replacement of devices for distribution transformer protection associated with						
(00)	Transformer #5;						
(pp)	Replacement of the 12kV circuit breaker servicing Hazard						
	Replacement of devices for feeder protection and circuit breaker control associated						
(qq)	with the 12kV Hazard feeder position						
(rr)	Replacement of the 12kV circuit breaker spare						
	Replacement of devices for feeder protection and circuit breaker control associated						
(ss)	with the 12kV spare feeder position						
	Replacement of DC station service equipment to accommodate new station DC						
(tt)	loads						

#### **EXHIBIT 11:PROPOSED WOOTON SUBSTATION IMPROVEMENTS PLAN**



### PROPOSED SUBSTATION LAYOUT



SUBSTATION LOCATION MAP

## EXHIBIT 12: PARCELS WITHIN FILING CORRIDOR AND VERIFIED STATEMENT CONCERNING MAILED NOTICE

AEP_ID	PARCEL_ID	Name	Address1	Address2	City	State	Zip	County	Acquistion Status
1	119-00 00 002.00	COMBS RAYMOND	100 NANCY STREET		HAZARD	KY	41701	Perry	NA
2	102-00 00 052.00	COMBS RAYMOND	100 NANCY STREET		HAZARD	KY	41701	Perry	NA
3	102-00 00 051.00	KENTUCKY POWER COMPANY	15TH & CARTER AVE		ASHLAND	KY	41101	Perry	NA
4	102-00 00 051.00	KENTUCKY POWER COMPANY	15TH & CARTER AVE		ASHLAND	KY	41101	Perry	NA
5	102-00 00 051.01	NORTHEASTERN UNIVERSITY	C/O KY POWER DBA AEP	P O BOX 16428	COLUMBUS	ОН	43216	Perry	NA
6	102-33 01 024.00	HOPPER VERA & E B	P O BOX 1767		HAZARD	KY	41702	Perry	NA
7	102-33 01 025.00	LINDON HENRY RAY & WANDA J	1008 KY BLVD		HAZARD	KY	41701	Perry	NA
8	102-00 00 050.00	TACKETT GEORGE & GAYLE	3385 HIGHWAY 15 SOUTH		HAZARD	KY	41701	Perry	NA
9	102-33 01 026.00	REDDY SYAMALA H & SAMYUKTHA	1016 KY BLVD		HAZARD	KY	41701	Perry	NA
10	102-00 00 049.00	DUFF & PHELPS LLC	14850 QUORUM DRIVE	SUITE 500	DALLAS	TX	75254	Perry	NA
11	102-33 01 027.00	DEATON KEITH & SUZANNE	1100 KENTUCKY BOULEVARD		HAZARD	KY	41701	Perry	NA
12	102-33 01 027.01	LINDON JOHN S & CINDY C	210 APPLE RIDGE LANE		HAZARD	KY	41701	Perry	NA
13	102-00 00 048.00	COMBS COLBURN	770 GRANT COMBS RD		HAZARD	KY	41701	Perry	NA
14	102-33 01 028.00	LINDON JOHN S & CINDY C	210 APPLE RIDGE LANE		HAZARD	KY	41701	Perry	NA
15	102-00 00 044.01						1	Perry	NA
16	102-00 00 047.00	JACKSON GARY & DAWN	11 CAMPBELL FORK ROAD		HAZARD	KY	41701	Perry	NA
17	102-33 01 029.00	LANDRUM CARL & NANCY	185 PARKVIEW DR.		HAZARD	KY	41701	Perry	NA
18	102-31 08 004.00	JOLLY MARVIN & JOYCE	1216 KENTUCKY BLVD		HAZARD	KY	41701	Perry	NA
19	102-31 08 005.00	ALLEN CHARLES E & ELIZABETH SPENCER	105 PARKVIEW DR		HAZARD	KY	41701	Perry	NA
20	102-31 08 006.00	MULLINS SYNDNEY N	103 PARKWAY STRREET		HAZARD	KY	41701	Perry	NA NA
21	102-31 08 007.00	CARTER RALPH D & VIVIAN	P O BOX 1017		HAZARD	KY	41702	Perry	NA NA
22	102-31 08 008.00	BOWLING WAYNE E & BILLIE S	P.O. BOX 705		HAZARD	KY	41702	Perry	NA
23	102-00 00 044.00	COLLETT DEWEY & LORA -ESTATE-	C/O ASHER RONNIE	106 HANK STREET	HAZARD	KY	41701	Perry	NA NA
24	102-00 00 037.00	GREEN DEVELOPMENT	C/O GREEN IRREVOCABLE INS TRUST CO	350 SUNVALLEY ROAD	HAZARD	KY	41701	Perry	NA NA
25	102-00 00 043.00	COLLETT PAMELA & CURTIS SPENCER	103 HANK ST	330 SCHVALLET HOAD	HAZARD	KY	41701	Perry	NA NA
26	102-00 00 037.02	FOWLER WILLIAM C & DEBORAH LYNN	301 EAST GRUNDY AVENUE		SPRINGFIELD	KY	40069	Perry	NA NA
27	102-00 00 037.00	GREEN DEVELOPMENT	C/O GREEN IRREVOCABLE INS TRUST CO	350 SUNVALLEY ROAD	HAZARD	KY	41701	Perry	NA NA
28	102-00 00 041.00	MARLOWE CHESTER JR	104 HANK ST	330 SCHVALLET HOAD	HAZARD	KY	41701	Perry	NA NA
29	102-00 00 041.00	COLLETT JOHN JR & MAVIS	101 HANKS ST		HAZARD	KY	41701	Perry	NA
30	102-00 00 039.00	MILLER OVA G JR	125 RED BUD LANE		HAZARD	KY	41701-	Perry	NA
31	102-00 00 037.01	BODDIE-NOELL ENTERPRISES INC	P.O. BOX 1908		ROCKY MOUNT	NC	27802	Perry	NA NA
32	102-00 00 037.01	PERKINS MORTON	465 MAIN ST		HAZARD	KY	41701	Perry	NA
33	102-00 00 006.00	JOHNSON EUNICE & J E	C/0 WHITAKER COAL	1845 SOUTH HWY 15	HAZARD	KY	41701	Perry	NA
34	102-00 00 053.00	HAZARD CITY SCHOOLS	BULLDOG RD	20.000011111111111	HAZARD	KY	41701	Perry	NA
35	102-00 00 033.00	CITY OF HAZARD	100 CAMPBELL ST	PORTERFIELD PARK	HAZARD	KY	41701	Perry	NA NA
36	102-00 00 007.00	CITY OF HAZARD	100 CAMPBELL ST	PORTERFIELD PARK	HAZARD	KY	41701	Perry	NA NA
37	102-00 00 010.04	BRADLEY MARY ANN	P O BOX 710 GORMAN HOLLOW RD	TOTTE	HAZARD	KY	41701	Perry	NA NA
38	102-00 00 010.04	JOHNSON ORVIL & DEBBIE	712 GORMAN HOLLOW ROAD		HAZARD	KY	41701	Perry	NA NA
39	102-00 00 015.00	COMBS LESTER & AILEEN	794 GORMAN HOLLOW RD.		HAZARD	KY	41701	Perry	NA NA
40	102-00 00 015.00	COMBS PEARL	C/O PEARL COMBS JR	110 ARGYLL CIRCLE	HAZARD	KY	41701	Perry	NA NA
41	102-00 00 010.00	CONIDS F LAIL	GO I LAIL COMBS JIL	TIO ANOTEL CINCLE	HALAND	KI	71/01	Perry	NA NA
42	102-00 00 011.01	MOORE ALBERT	736 GORMAN HOLLOW RD		HAZARD	KY	41701	Perry	NA NA
43	102-00 00 019.03	BARRETT MICHAEL & MYLA	ATTN: ESCROW REPORTING, MAIL CODE	DFW 4-3 1 FIRST AMERICAN WAY	WESTLAKE	TX	76262-	,	NA NA
44	102-00 00 019.02	SHORT JUANITA	853 GORMAN HOLLOW RD	DI W 4-3 TIMSI AWERICAN WAT	HAZARD	KY	41701	Perry	NA NA
45	102-00 00 019.01	SHORT JUANTIA	033 GONIVIAN HOLLOW KD		HAZAKU	ΝĪ	41/01	Perry	NA NA
46	102-00 00 011.02	YOUNG CHESTER & MALVA EST.	C/O HOMER YOUNG	P O BOX 173	HAZARD	KY	41701	Perry Perry	NA NA

AEP_ID	PARCEL_ID	Name	Address1	Address2	City	State	Zip	County	Acquistion Status
47	102-00 00 021.03	YOUNG NERVE	C/O HOMER YOUNG	P.O. BOX 173	HAZARD	KY	41701	Perry	NA
48	102-00 00 021.02	WILSON FRANK	C/O HOMER YOUNG	P.O. BOX 173	HAZARD	KY	41701	Perry	NA
49	102-00 00 021.00	PERRY COUNTY COAL	1845 SOUTH KY HWY 15		HAZARD	KY	41702	Perry	NA
50	088-00 00 064.00	OLINGER ANDY -ESTATE-	C/O PERRY CO COAL CORP	200 ALLISON BLVD	CORBIN	KY	40701	Perry	NA
51	089-00 00 033.01	WELLS CORA	C/O JOSEPH WELLS	11062 BELFAIR ST.	NORWALK	CA	90650	Perry	NA
52	089-00 00 033.00	WELLS BILLY JOE & DEBBIE SUE	1095 MESSER BRANCH ROAD		HAZARD	KY	41701	Perry	NA
53	089-00 00 034.00	LEWIS LONNIE	4019 BROWNSFORK RD.		HAZARD	KY	41701	Perry	NA
54	088-00 00 073.00	WELLS BILLY JOE & DEBBIE	1095 MESSER BR RD		HAZARD	KY	41701	Perry	NA
55	089-00 00 022.00	MORGAN SILLER HEIRS	C/O FELTNER PAUL AND TERRY	PO BOX 304	HAZARD	KY	41702	Perry	NA
56	089-00 00 024.00	COMBS JAMES Y -ESTATE- & MARGARET	COMBS EVERETT JAMES	11521 DUELING OAKS DRIVE	PENSACOLA	FL	32514	Perry	NA
57	089-00 00 011.01	PERRY COUNTY COAL CORPORATION	1845 SOUTH HWY 15		HAZARD	KY	41701	Perry	NA
58	089-00 00 021.00	FELTNER ESSIE HEIRS	C/O FELTNER PAU AND TERRY	PO BOX 304	HAZARD	KY	41702	Perry	NA
59	089-00 00 019.01	HENSLEY JOEL MARL & CRYSTAL	22 MELTON DR		HAZARD	KY	41701	Perry	NA
60	089-00 00 019.02	COUCH LELIA & DONALD	37 MELTON DRIVE		HAZARD	KY	41701	Perry	NA
61	089-00 00 019.00	PERRY COUNTY COAL CORP	1845 S KY HWY 15		HAZARD	KY	41701	Perry	NA
62	089-00 00 019.03	MELTON GERALD	48 MELTON DR		HAZARD	KY	41701	Perry	NA
63	089-00 00 016.00	HAZARD PERRY COUNTY HOUSING DEV.	PO BOX 7284		HAZARD	KY	41702	Perry	NA
64	090-00 00 001.00	MOUNTAIN PROPERTIES	122 ROY CAMPBELL DRIVE		HAZARD	KY	41701	Perry	NA
65	090-00 00 001.00	MOUNTAIN PROPERTIES	122 ROY CAMPBELL DRIVE		HAZARD	KY	41701	Perry	NA
66	090-00 00 001.00	MOUNTAIN PROPERTIES	122 ROY CAMPBELL DRIVE		HAZARD	KY	41701	Perry	NA
67	078-00 00 012.00	MILLER RICHARD AND LARRISA	947 KEN MILLER FARM RD		HAZARD	KY	41701	Perry	NA
68	078-00 00 009.00	COUCH MAHALA	C/O BILLY RAY COUCH	585 WOLF BRANCH RD.	HAZARD	KY	41701	Perry	NA
69	078-00 00 008.00	BAKER JOHN (TRUSTEE)	1544 BREMERTON LANE		KESWICK	VA	22947	Perry	NA
70	176-00-00-012.00	LOVERIDGE LONNIE	1580 MORGAN CT		MELBOURNE	FL	32934	Leslie	NA
71	176-00-00-006.01	KILBURN BILL HEIRS & DOLLY	267 SECOND FORK RD		WOOTON	KY	41776	Leslie	NA
72	176-00-00-004.00	CORNETT DANNY & BILLY SUE	P O BOX 458		WOOTON	KY	41776	Leslie	NA
73	176-00-00-002.00	CALDWELL ROBERT & KATHERINE	459 SYCAMORE RIDGE RD		MANCHESTER	KY	40962	Leslie	NA
74	176-00-00-001.03	CORNETT GEORGE ETAL	P O BOX 320		WOOTON	KY	41776	Leslie	NA
75	176-00-00-001.00	CORNETT FOISTER & ORPHA HEIRS	520 OLD STREET ROAD		MT VERNON	KY	40456	Leslie	NA
76	165-00-00-063.02	BAKER RUSSELL	P O BOX 307		WOOTON	KY	41776	Leslie	NA
77	177-00-00-001.00	HENDRIX CEMETERY	HC 65 BOX 600		WOOTON	KY	41776	Leslie	NA
78	165-00-00-063.00	BAKER RUSSELL	P O BOX 307		WOOTON	KY	41776	Leslie	NA
79	165-00-00-063.01	KENTUCKY POWER COMPANY	I RIVERSIDE PLAZA		COLUMBUS	ОН	43215	Leslie	NA
80	165-00-00-058.00	LOVERIDGE LONNIE	1580 MORGAN CT		MELBOURNE	FL	32934	Leslie	NA

#### Verification of Mailing In Conformity With 807 KAR 5:120, Section (2)(3)

I, Ryan M. Howell, being first duly sworn, state that on October 30, 2017 I caused to be mailed the information required by 807 KAR 5:120, Section 2(3) to each property owner, as indicated by the records of the Perry County Property Valuation Administrator and the Leslie County Property Valuation Administrator, located within the Filing Corridor, as defined in the Kentucky Power's application, including each property owner over whose property the proposed transmission line will cross ("Original Notice").

I further state that on November 13th, 2017 I caused to be mailed a Supplementary

Notice to each property owner, as indicated by the records of the Perry County Property

Valuation Administrator and the Leslie County Property Valuation Administrator, located within
the Filing Corridor as defined in the Kentucky Power's application, including each property
owner over whose property the proposed transmission line will cross. The Supplementary

Notice contained the information required by 807 KAR 5:120, Section 2(3). The purpose of the
Supplementary Notice was to provide updated information regarding the reconfiguration of an
approximately 1,900 foot section of the Hazard-Jackson 69 kV line ("Hazard-Jackson 69 kV
Reconfiguration") in connection with the transmission line project. Also illustrated on the map
included with the Supplementary Notice is an illustration of the proposed centerline for the
Hazard-Jackson 69 kV Reconfiguration. The Supplementary Notice also was mailed on
November 13th, 2017 to all property owners, as shown on the records of the Perry County
Property Valuation Administrator, located within the Filing Corridor, as defined in the Kentucky
Power's application, for the Hazard-Jackson 69 kV Reconfiguration.

A sample copy of the Original Notice and Supplementary Notice, including all enclosures, the list of the persons to whom they were mailed, and their addresses as indicated by

the records of the Leslie County Property Valuation Administrator and the Perry County Property Valuation Administrator are attached to this verification.

Ryan M. Howell

COMMONWEALTH OF KENTUCKY	)
	)
COUNTY OF PIKE	)

The foregoing instrument was subscribed and sworn to before me this 14th day of November, 2017 by Ryan M. Howell.

My commission expires:

IOTADV DUDI IC

[SEAL]

#### **Notice Of Proposed Construction Of Electric Transmission Line**

This is to notify you that Kentucky Power Company intends to file with the Public Service Commission of Kentucky an application seeking a certificate of public convenience and necessity in connection with its plans to rebuild its existing 161 kV Hazard-Wooton electric transmission line located in Perry and Leslie Counties, Kentucky (Hazard-Wooton Project). The existing line is approximately 6.5 miles in length. The rebuilt line will be approximately 6.6 miles in length, Part of the Hazard-Wooton project includes combining certain existing portions of the existing Hazard-Jackson 69 kV line and the existing Hazard-Wooton 161 kV line onto approximately seven double-circuit structures using principally the existing Hazard-Jackson and Hazard-Wooton rights-of-way and a small portion of newly-acquired right-of-way.

This notice is being provided to you because the records of the Leslie County or Perry County Property Valuation Administrator indicate the proposed transmission line rebuild may cross property owned by you.

- 1. The Hazard-Wooton Project is expected to involve the following work:
- (a) The rebuild of approximately 5.4 miles of the existing 161 kV Hazard-Wooton transmission line within, partially within, or near the existing right-of-way. The 161 kV line may be relocated within the boundaries of the existing right-of-way;
- (b) The construction of approximately 1.2 miles of 161 kV transmission line outside the existing rights-of-way. The two minor deviations from the existing right-of-way will be in the vicinity of Hazard High School in Perry County and northeast of the Wooton substation in Leslie County;
- (c) Kentucky Power generally proposes to expand its existing right-of-way to the current standard of 120 feet (60 feet on each side of the centerline) for 161 kV lines. Newly acquired right-of-way for the two deviations also generally will be 120 feet in width (60 feet on each side of the centerline). In certain areas of the proposed 120 foot right-of-way the width may be expanded to accommodate guy wires that extend more than 60 feet from the right-of-way. In connection with certain long spans, and where required to permit tree-clearing on the uphill side of the centerline to prevent trees from

falling into the line or its structures, the required right-of-way will extend to 150 feet (75 feet on each side of the centerline), except in cases of unusually steep terrain or extremely long spans where the right-of-way may extend to 350-400 feet;

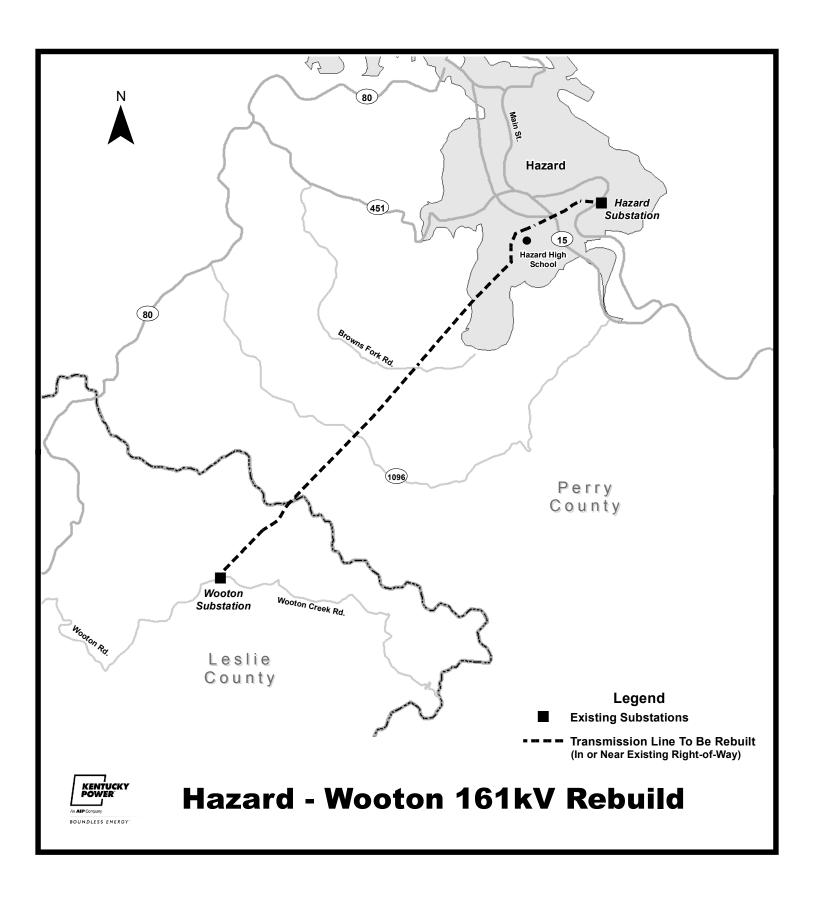
- (d) To enable the safe operation of the line, the required right-of-way width, as well as the location of the centerline, will be determined during detailed engineering design and construction phases, and will included in the negotiations with landowners. Both the centerline and the right-of-way will lie within the filing corridor described immediately below;
- (e) Kentucky Power anticipates rebuilding the transmission line on the centerline shown on the enclosed map. If required by constructability, safety, and access issues that may not be discovered until detailed design or construction is underway, Kentucky Power is seeking authority to re-locate the line within a 500 foot filing corridor (250 feet on each side of the illustrated centerline shown on the enclosed map). For that portion of the line between the Hazard substation and Ky. Route 15, Kentucky Power is seeking authority to re-locate its line and right-of-way within a 300 foot corridor (150 feet on each side of the centerline).
- (e) The rebuilding or replacement of approximately 53 existing structures with approximately 35 proposed structures;
- (f) The installation of new conductor and ground wires on the rebuilt transmission lines; and
- (g) The upgrade, replacement, and installation of facilities and equipment at the existing Hazard substation and the existing Wooton substation. All such work will take place within the footprint of the existing Hazard substation and Wooton substation.
- 2. Enclosed is a map showing the route of the rebuilt transmission line, including the deviations from the existing rights-of-way.
- 3. The Public Service Commission of Kentucky will process Kentucky Power's application in Case No. 2017-00328. The address and telephone number of the Executive Director of the Public Service Commission of Kentucky are:

Executive Director
Public Service Commission of Kentucky
211 Sower Boulevard
P. O. Box 615
Frankfort, Kentucky 40602-0615
(502) 564-3940

Kentucky Power anticipates filing its application with the Public Service Commission of Kentucky on or before November 30, 2017. The application when filed may be viewed on the Commission's website at <a href="http://psc.ky.gov/PSC\_WebNet/ViewCaseFolders.aspx">http://psc.ky.gov/PSC\_WebNet/ViewCaseFolders.aspx</a> under Case No. 2017-00328.

- 4. You have the right to submit a timely written request for intervention in Case No. 2017-00328. The motion must be submitted to the Public Service Commission, 211 Sower Boulevard, P. O. Box 615, Frankfort, Kentucky 40602-0615, and must establish the grounds for your request to intervene, including your status and the nature of your interest in the proceeding. Please see 807 KAR 5:001, Section 4(11) for further information regarding the requirements and procedure for requesting intervention. 807 KAR 5:001, Section 4(11) may be accessed here: <a href="http://www.lrc.state.ky.us/kar/807/005/001.htm">http://www.lrc.state.ky.us/kar/807/005/001.htm</a>. If no request for intervention is received within 30 days of the filing of the application the Commission may take final action on the application
- 5. You also have the right to request a local public hearing regarding the application and the proposed 161 kV transmission line. The requirements for requesting a local public hearing are set forth in 807 KAR 5:120, Section 3. 807 KAR 5:120, Section 3 may be accessed here: <a href="http://www.lrc.state.ky.us/kar/807/005/120.htm">http://www.lrc.state.ky.us/kar/807/005/120.htm</a>.

6. Written comments may also be filed at the above address, or by sending an e-mail to the Commission's public information officer at <a href="mailto:psc.info@ky.gov">psc.info@ky.gov</a>. The comments should reference Case No. 2017-00328.



#### <u>Supplemental Notice Of Proposed Construction Of Electric Transmission Line</u>

This notice supplements the earlier notice mailed to you on October 30, 2017 and is intended to provide updated information on the reconfiguration of an approximately 1,900 foot section of the Hazard-Jackson 69 kV line.

Kentucky Power Company intends to file with the Public Service Commission of Kentucky an application seeking a certificate of public convenience and necessity in connection with its plans to rebuild its existing 161 kV Hazard-Wooton electric transmission line located in Perry and Leslie Counties, Kentucky (Hazard-Wooton Project). The existing line is approximately 6.5 miles in length. The rebuilt line will be approximately 6.6 miles in length.

This notice is being provided to you because the records of the Leslie County or Perry County Property Valuation Administrator indicate the proposed Hazard-Wooton Project rebuild or the Filing Corridor described below may cross property owned by you.

- 1. The Hazard-Wooton Project is expected to involve the following work:
- (a) The rebuild of approximately 5.4 miles of the existing 161 kV Hazard-Wooton transmission line within, partially within, or near the existing right-of-way. The 161 kV line may be relocated within the boundaries of the existing right-of-way;
- (b) The construction of approximately 1.2 miles of 161 kV transmission line outside the existing rights-of-way. The two minor deviations from the existing right-of-way will be in the vicinity of Hazard High School in Perry County and northeast of the Wooton substation in Leslie County;
- (c) Part of the Hazard-Wooton Project includes combining certain existing portions of the existing Hazard-Jackson 69 kV line and the existing Hazard-Wooton 161 kV line onto approximately seven double-circuit structures using principally the existing Hazard-Jackson and Hazard-Wooton rights-of-way and a small portion of newly-acquired right-of-way.
- (d) Kentucky Power generally proposes to expand its existing right-of-way to the current standard of 120 feet (60 feet on each side of the centerline) for 161 kV lines. Newly acquired right-of-way for the two deviations also generally will be 120 feet in

width (60 feet on each side of the centerline). In certain areas of the proposed 120 foot right-of-way the width may be expanded to accommodate guy wires that extend more than 60 feet from the right-of-way. In connection with certain long spans, and where required to permit tree-clearing on the uphill side of the centerline to prevent trees from falling into the line or its structures, the required right-of-way will extend to 150 feet (75 feet on each side of the centerline), except in cases of unusually steep terrain or extremely long spans where the right-of-way may extend to 350-400 feet;

- (e) To enable the safe operation of the line, the required right-of-way width, as well as the location of the centerline, will be determined during detailed engineering design and construction phases, and will include negotiations with landowners. Both the centerline and the right-of-way will lie within the filing corridor described immediately below:
- (f) Kentucky Power anticipates rebuilding the transmission line on the centerline shown on the enclosed map. To ensure the flexibility necessary to address potential issues that may become evident after ground surveys, final engineering, and right-of-way negotiation, Kentucky Power is requesting authority to move the centerline and accompanying right-of-way of the Hazard-Wooton Project within a Filing Corridor defined as: 150 feet in either direction (300 foot corridor) for that portion of the line from the Hazard substation to Kentucky Route 15, and 250 feet in either direction (500 foot corridor) for that portion of the line from Kentucky Route 15 to the Wooton Substation.
- (g) The rebuilding or replacement of approximately 53 existing structures with approximately 35 proposed structures; and
- (h) The installation of new conductors and ground wires on the rebuilt transmission lines.
- 2. An approximately 1,900 foot section of the remaining single-circuit portion of the Hazard-Jackson 69 kV line will reconfigured to the northeast to allow the tie-in of the remainder of the existing single-circuit Hazard-Jackson 69 kV line to the double-circuit portion of the Hazard-Wooton 161 kV line. The Filing Corridor for the reconfigured portion of the Hazard-Jackson 69 kV line is 250 feet in either direction (500 foot corridor) of the indicated centerline.
- 3. Kentucky Power also is proposing the upgrade, replacement, and installation of facilities and equipment at the existing Hazard substation and the existing Wooton substation.

  All such work will take place within the footprint of the existing Hazard substation and Wooton substation.

- 4. Enclosed is a map showing the route of the rebuilt transmission line, including the deviations from the existing rights-of-way. Also illustrated on the map is the reconfiguration of the approximately 1,900 foot section of the existing Hazard-Jackson 69 kV line to the northeast to permit the tie-in of the remainder of that line to the double-circuit portion of the Hazard-Wooton Project.
- 5. The Public Service Commission of Kentucky will process Kentucky Power's application in Case No. 2017-00328. The address and telephone number of the Executive Director of the Public Service Commission of Kentucky are:

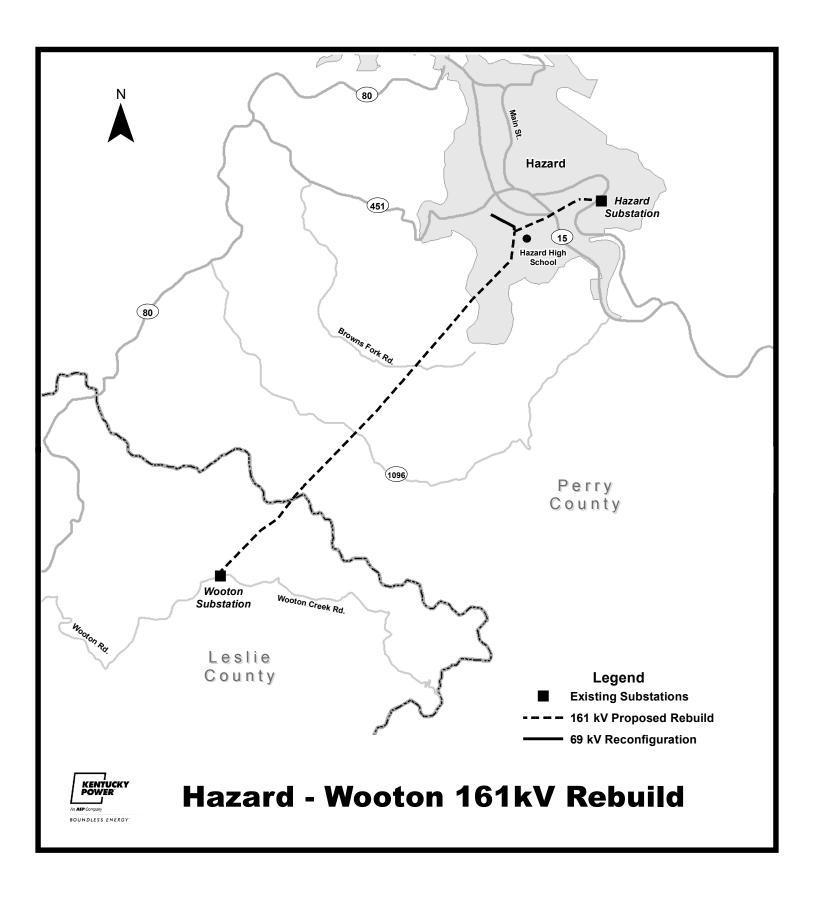
Executive Director
Public Service Commission of Kentucky
211 Sower Boulevard
P. O. Box 615
Frankfort, Kentucky 40602-0615
(502) 564-3940

Kentucky Power anticipates filing its application with the Public Service Commission of Kentucky on or before November 30, 2017. The application when filed may be viewed on the Commission's website at <a href="http://psc.ky.gov/PSC\_WebNet/ViewCaseFolders.aspx">http://psc.ky.gov/PSC\_WebNet/ViewCaseFolders.aspx</a> under Case No. 2017-00328.

6. You have the right to submit a timely written request for intervention in Case No. 2017-00328. The motion must be submitted to the Public Service Commission, 211 Sower Boulevard, P. O. Box 615, Frankfort, Kentucky 40602-0615, and must establish the grounds for your request to intervene, including your status and the nature of your interest in the proceeding. Please see 807 KAR 5:001, Section 4(11) for further information regarding the requirements and procedure for requesting intervention. 807 KAR 5:001, Section 4(11) may be accessed here: <a href="http://www.lrc.state.ky.us/kar/807/005/001.htm">http://www.lrc.state.ky.us/kar/807/005/001.htm</a>. If no request for intervention is received

within 30 days of the filing of the application the Commission may take final action on the application

- 7. You also have the right to request a local public hearing regarding the application and the proposed 161 kV transmission line. The requirements for requesting a local public hearing are set forth in 807 KAR 5:120, Section 3. 807 KAR 5:120, Section 3 may be accessed here: <a href="http://www.lrc.state.ky.us/kar/807/005/120.htm">http://www.lrc.state.ky.us/kar/807/005/120.htm</a>.
- 8. Written comments may also be filed at the above address, or by sending an e-mail to the Commission's public information officer at <a href="mailto:psc.info@ky.gov">psc.info@ky.gov</a>. The comments should reference Case No. 2017-00328.



#### **EXHIBIT 13: PUBLIC NOTICE LETTER TO LANDOWNERS**

#### Notice Of Proposed Construction Of Electric Transmission Line

This is to notify you that Kentucky Power Company intends to file with the Public Service Commission of Kentucky an application seeking a certificate of public convenience and necessity in connection with its plans to rebuild its existing 161 kV Hazard-Wooton electric transmission line located in Perry and Leslie Counties, Kentucky (Hazard-Wooton Project). The existing line is approximately 6.5 miles in length. The rebuilt line will be approximately 6.6 miles in length, Part of the Hazard-Wooton project includes combining certain existing portions of the existing Hazard-Jackson 69 kV line and the existing Hazard-Wooton 161 kV line onto approximately seven double-circuit structures using principally the existing Hazard-Jackson and Hazard-Wooton rights-of-way and a small portion of newly-acquired right-of-way.

This notice is being provided to you because the records of the Leslie County or Perry County Property Valuation Administrator indicate the proposed transmission line rebuild may cross property owned by you.

- 1. The Hazard-Wooton Project is expected to involve the following work:
- (a) The rebuild of approximately 5.4 miles of the existing 161 kV Hazard-Wooton transmission line within, partially within, or near the existing right-of-way. The 161 kV line may be relocated within the boundaries of the existing right-of-way;
- (b) The construction of approximately 1.2 miles of 161 kV transmission line outside the existing rights-of-way. The two minor deviations from the existing right-of-way will be in the vicinity of Hazard High School in Perry County and northeast of the Wooton substation in Leslie County;
- (c) Kentucky Power generally proposes to expand its existing right-of-way to the current standard of 120 feet (60 feet on each side of the centerline) for 161 kV lines. Newly acquired right-of-way for the two deviations also generally will be 120 feet in width (60 feet on each side of the centerline). In certain areas of the proposed 120 foot right-of-way the width may be expanded to accommodate guy wires that extend more than 60 feet from the right-of-way. In connection with certain long spans, and where required to permit tree-clearing on the uphill side of the centerline to prevent trees from

EXHIBIT 13: LANDOWNER NOTICE OCTOBER 30, 2017 (Page 2 of 10)

falling into the line or its structures, the required right-of-way will extend to 150 feet (75 feet on each side of the centerline), except in cases of unusually steep terrain or extremely long spans where the right-of-way may extend to 350-400 feet;

- (d) To enable the safe operation of the line, the required right-of-way width, as well as the location of the centerline, will be determined during detailed engineering design and construction phases, and will included in the negotiations with landowners. Both the centerline and the right-of-way will lie within the filing corridor described immediately below;
- (e) Kentucky Power anticipates rebuilding the transmission line on the centerline shown on the enclosed map. If required by constructability, safety, and access issues that may not be discovered until detailed design or construction is underway, Kentucky Power is seeking authority to re-locate the line within a 500 foot filing corridor (250 feet on each side of the illustrated centerline shown on the enclosed map). For that portion of the line between the Hazard substation and Ky. Route 15, Kentucky Power is seeking authority to re-locate its line and right-of-way within a 300 foot corridor (150 feet on each side of the centerline).
- (e) The rebuilding or replacement of approximately 53 existing structures with approximately 35 proposed structures;
- (f) The installation of new conductor and ground wires on the rebuilt transmission lines; and
- (g) The upgrade, replacement, and installation of facilities and equipment at the existing Hazard substation and the existing Wooton substation. All such work will take place within the footprint of the existing Hazard substation and Wooton substation.
- 2. Enclosed is a map showing the route of the rebuilt transmission line, including the deviations from the existing rights-of-way.
- 3. The Public Service Commission of Kentucky will process Kentucky Power's application in Case No. 2017-00328. The address and telephone number of the Executive Director of the Public Service Commission of Kentucky are:

EXHIBIT 13: LANDOWNER NOTICE OCTOBER 30, 2017 (Page 3 of 10)

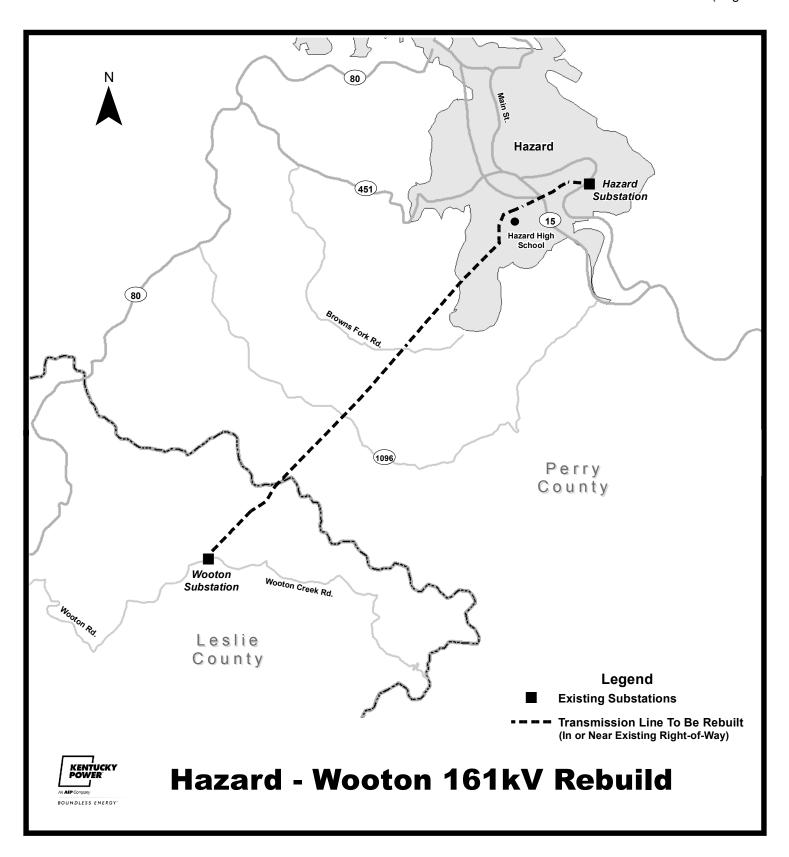
Executive Director Public Service Commission of Kentucky 211 Sower Boulevard P. O. Box 615 Frankfort, Kentucky 40602-0615 (502) 564-3940

Kentucky Power anticipates filing its application with the Public Service Commission of Kentucky on or before November 30, 2017. The application when filed may be viewed on the Commission's website at <a href="http://psc.ky.gov/PSC\_WebNet/ViewCaseFolders.aspx">http://psc.ky.gov/PSC\_WebNet/ViewCaseFolders.aspx</a> under Case No. 2017-00328.

- 4. You have the right to submit a timely written request for intervention in Case No. 2017-00328. The motion must be submitted to the Public Service Commission, 211 Sower Boulevard, P. O. Box 615, Frankfort, Kentucky 40602-0615, and must establish the grounds for your request to intervene, including your status and the nature of your interest in the proceeding. Please see 807 KAR 5:001, Section 4(11) for further information regarding the requirements and procedure for requesting intervention. 807 KAR 5:001, Section 4(11) may be accessed here: <a href="http://www.lrc.state.ky.us/kar/807/005/001.htm">http://www.lrc.state.ky.us/kar/807/005/001.htm</a>. If no request for intervention is received within 30 days of the filing of the application the Commission may take final action on the application
- 5. You also have the right to request a local public hearing regarding the application and the proposed 161 kV transmission line. The requirements for requesting a local public hearing are set forth in 807 KAR 5:120, Section 3. 807 KAR 5:120, Section 3 may be accessed here: <a href="http://www.lrc.state.ky.us/kar/807/005/120.htm">http://www.lrc.state.ky.us/kar/807/005/120.htm</a>.

EXHIBIT 13: LANDOWNER NOTICE OCTOBER 30, 2017 (Page 4 of 10)

6. Written comments may also be filed at the above address, or by sending an e-mail to the Commission's public information officer at <a href="mailto:psc.info@ky.gov">psc.info@ky.gov</a>. The comments should reference Case No. 2017-00328.



#### <u>Supplemental Notice Of Proposed Construction Of Electric Transmission Line</u>

This notice supplements the earlier notice mailed to you on October 30, 2017 and is intended to provide updated information on the reconfiguration of an approximately 1,900 foot section of the Hazard-Jackson 69 kV line.

Kentucky Power Company intends to file with the Public Service Commission of Kentucky an application seeking a certificate of public convenience and necessity in connection with its plans to rebuild its existing 161 kV Hazard-Wooton electric transmission line located in Perry and Leslie Counties, Kentucky (Hazard-Wooton Project). The existing line is approximately 6.5 miles in length. The rebuilt line will be approximately 6.6 miles in length.

This notice is being provided to you because the records of the Leslie County or Perry County Property Valuation Administrator indicate the proposed Hazard-Wooton Project rebuild or the Filing Corridor described below may cross property owned by you.

- 1. The Hazard-Wooton Project is expected to involve the following work:
- (a) The rebuild of approximately 5.4 miles of the existing 161 kV Hazard-Wooton transmission line within, partially within, or near the existing right-of-way. The 161 kV line may be relocated within the boundaries of the existing right-of-way;
- (b) The construction of approximately 1.2 miles of 161 kV transmission line outside the existing rights-of-way. The two minor deviations from the existing right-of-way will be in the vicinity of Hazard High School in Perry County and northeast of the Wooton substation in Leslie County;
- (c) Part of the Hazard-Wooton Project includes combining certain existing portions of the existing Hazard-Jackson 69 kV line and the existing Hazard-Wooton 161 kV line onto approximately seven double-circuit structures using principally the existing Hazard-Jackson and Hazard-Wooton rights-of-way and a small portion of newly-acquired right-of-way.
- (d) Kentucky Power generally proposes to expand its existing right-of-way to the current standard of 120 feet (60 feet on each side of the centerline) for 161 kV lines. Newly acquired right-of-way for the two deviations also generally will be 120 feet in

width (60 feet on each side of the centerline). In certain areas of the proposed 120 foot right-of-way the width may be expanded to accommodate guy wires that extend more than 60 feet from the right-of-way. In connection with certain long spans, and where required to permit tree-clearing on the uphill side of the centerline to prevent trees from falling into the line or its structures, the required right-of-way will extend to 150 feet (75 feet on each side of the centerline), except in cases of unusually steep terrain or extremely long spans where the right-of-way may extend to 350-400 feet;

- (e) To enable the safe operation of the line, the required right-of-way width, as well as the location of the centerline, will be determined during detailed engineering design and construction phases, and will include negotiations with landowners. Both the centerline and the right-of-way will lie within the filing corridor described immediately below;
- (f) Kentucky Power anticipates rebuilding the transmission line on the centerline shown on the enclosed map. To ensure the flexibility necessary to address potential issues that may become evident after ground surveys, final engineering, and right-of-way negotiation, Kentucky Power is requesting authority to move the centerline and accompanying right-of-way of the Hazard-Wooton Project within a Filing Corridor defined as: 150 feet in either direction (300 foot corridor) for that portion of the line from the Hazard substation to Kentucky Route 15, and 250 feet in either direction (500 foot corridor) for that portion of the line from Kentucky Route 15 to the Wooton Substation.
- (g) The rebuilding or replacement of approximately 53 existing structures with approximately 35 proposed structures; and
- (h) The installation of new conductors and ground wires on the rebuilt transmission lines.
- 2. An approximately 1,900 foot section of the remaining single-circuit portion of the Hazard-Jackson 69 kV line will reconfigured to the northeast to allow the tie-in of the remainder of the existing single-circuit Hazard-Jackson 69 kV line to the double-circuit portion of the Hazard-Wooton 161 kV line. The Filing Corridor for the reconfigured portion of the Hazard-Jackson 69 kV line is 250 feet in either direction (500 foot corridor) of the indicated centerline.
- 3. Kentucky Power also is proposing the upgrade, replacement, and installation of facilities and equipment at the existing Hazard substation and the existing Wooton substation.

  All such work will take place within the footprint of the existing Hazard substation and Wooton substation.

EXHIBIT 13: LANDOWNER SUPPLEMENTAL NOTICE NOVEMBER 14, 2017 (Page 8 of 10)

- 4. Enclosed is a map showing the route of the rebuilt transmission line, including the deviations from the existing rights-of-way. Also illustrated on the map is the reconfiguration of the approximately 1,900 foot section of the existing Hazard-Jackson 69 kV line to the northeast to permit the tie-in of the remainder of that line to the double-circuit portion of the Hazard-Wooton Project.
- 5. The Public Service Commission of Kentucky will process Kentucky Power's application in Case No. 2017-00328. The address and telephone number of the Executive Director of the Public Service Commission of Kentucky are:

Executive Director
Public Service Commission of Kentucky
211 Sower Boulevard
P. O. Box 615
Frankfort, Kentucky 40602-0615
(502) 564-3940

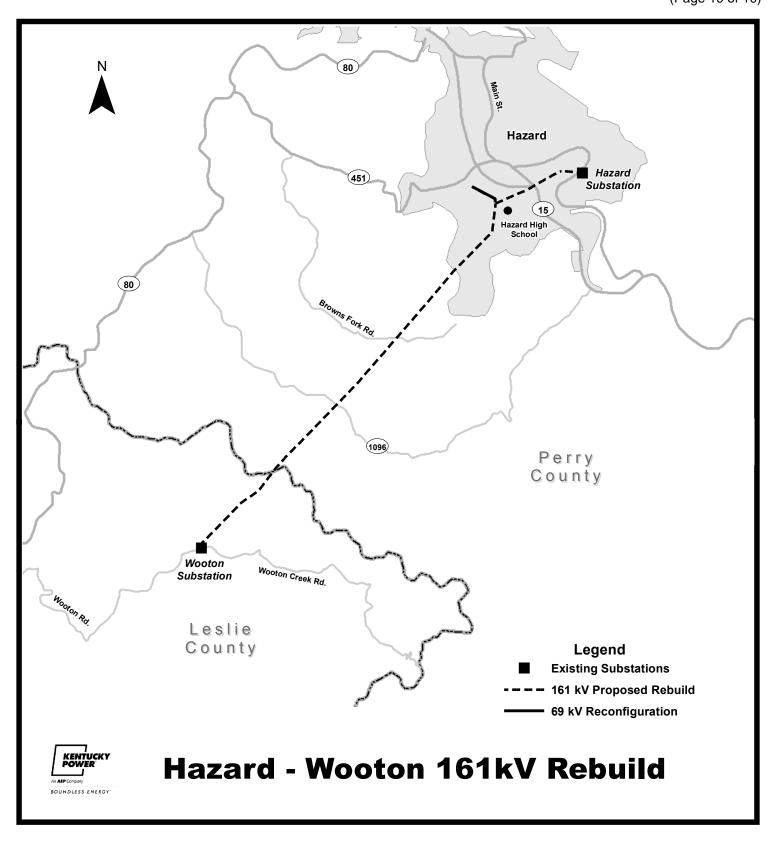
Kentucky Power anticipates filing its application with the Public Service Commission of Kentucky on or before November 30, 2017. The application when filed may be viewed on the Commission's website at <a href="http://psc.ky.gov/PSC\_WebNet/ViewCaseFolders.aspx">http://psc.ky.gov/PSC\_WebNet/ViewCaseFolders.aspx</a> under Case No. 2017-00328.

6. You have the right to submit a timely written request for intervention in Case No. 2017-00328. The motion must be submitted to the Public Service Commission, 211 Sower Boulevard, P. O. Box 615, Frankfort, Kentucky 40602-0615, and must establish the grounds for your request to intervene, including your status and the nature of your interest in the proceeding. Please see 807 KAR 5:001, Section 4(11) for further information regarding the requirements and procedure for requesting intervention. 807 KAR 5:001, Section 4(11) may be accessed here: <a href="http://www.lrc.state.ky.us/kar/807/005/001.htm">http://www.lrc.state.ky.us/kar/807/005/001.htm</a>. If no request for intervention is received

EXHIBIT 13: LANDOWNER SUPPLEMENTAL NOTICE NOVEMBER 14, 2017 (Page 9 of 10)

within 30 days of the filing of the application the Commission may take final action on the application

- 7. You also have the right to request a local public hearing regarding the application and the proposed 161 kV transmission line. The requirements for requesting a local public hearing are set forth in 807 KAR 5:120, Section 3. 807 KAR 5:120, Section 3 may be accessed here: <a href="http://www.lrc.state.ky.us/kar/807/005/120.htm">http://www.lrc.state.ky.us/kar/807/005/120.htm</a>.
- 8. Written comments may also be filed at the above address, or by sending an e-mail to the Commission's public information officer at <a href="mailto:psc.info@ky.gov">psc.info@ky.gov</a>. The comments should reference Case No. 2017-00328.



#### **EXHIBIT 14: PUBLISHED NOTICE**

#### Notice Of Proposed Electric Transmission Line Construction Project

Kentucky Power Company proposes to rebuild the existing 6.5 mile Hazard-Wooton 161 kV transmission line between the Hazard substation in Perry County and the Wooton substation in Leslie County, Kentucky. The rebuilt line will measure 6.6 miles. Approximately 5.4 miles of the 161 kV line will be rebuilt within or adjacent to existing Kentucky Power rights-of-way; approximately 1.2 miles of 161 kV line comprises two segments outside of the existing Hazard-Wooton right-of-way. These two minor deviations are in the vicinity of Hazard High School in Perry County (City of Hazard) and approximately one mile northeast of the Wooton substation in Leslie County.

Approximately 1.15 miles of the proposed line will consist of portions of the existing Hazard-Jackson 69 kV line and the existing Hazard-Wooton 161 kV line that will be combined onto approximately seven double-circuit structures within the rights-of-way of the two lines. An approximately 1,900 foot section of the remaining single-circuit portion of the Hazard-Jackson 69 kV line will reconfigured to the northeast to allow the tie-in of the remainder of the existing single-circuit Hazard-Jackson 69 kV line to the proposed double-circuit portion of the Hazard-Wooton 161 kV line.

Kentucky Power may be required to alter the proposed centerline of the line and adjacent rights-of-way to address conditions discovered during survey and construction that affect constructability and access. Kentucky Power also seeks to widen its existing rights-of-way.

The project also includes improvements at the Wooton substation, as well as upgrade, replacement, and installation work at the Hazard substation.

The single-circuit portion of the Hazard-Wooton 161 kV rebuilt line will be supported by single circuit galvanized tubular steel H-frame structures, single circuit galvanized tubular steel

three-poles, or lattice steel tower structures. All single circuit structures will average 80 feet above ground level. The proposed double circuit portion of the line will use steel monopole structures (average height of 110 feet AGL) or steel lattice tower structures (average height of 120 feet AGL).

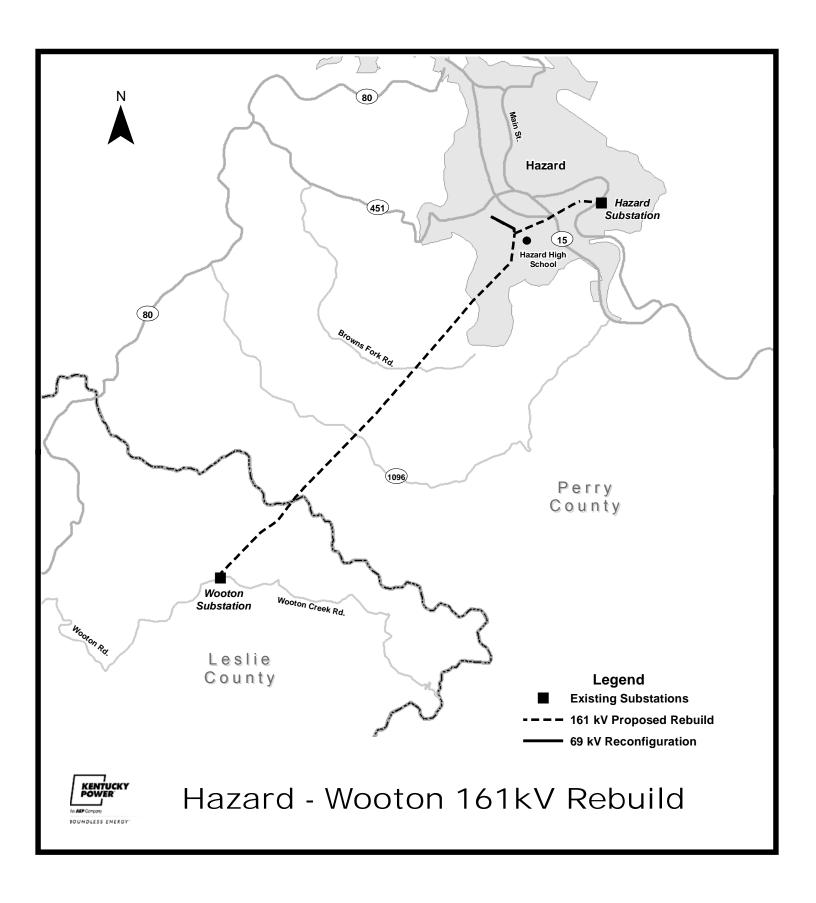
Kentucky Power plans to file an application with the Public Service Commission of Kentucky on or before November 30, 2017 seeking a certificate of public convenience and necessity authorizing the construction of the proposed line and related work. The application and the Commission proceeding have been assigned Case No. 2017-00328.

Any interested person under KRS 278.020(8), including any person over whose property the proposed transmission line will cross, may request a local public hearing. The request must be in writing and should be delivered to the Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602-0615. The local public hearing must be requested no later than thirty days after the date the application is filed. The request for local public hearing must comply with the requirements of 807 KAR 5:120, Section 3.

A person may seek to intervene as a party in the Commission proceeding to review Kentucky Power's application by filing a timely written request for intervention in accordance with the requirements of 807 KAR 5:001, Section 4(11) and 807 KAR 5:120, Section 3(3).

The application and other filings in connection with Kentucky Power's application may be accessed at <a href="http://psc.ky.gov">http://psc.ky.gov</a> under Case No. 2017-00328.

A map of the route of the proposed line is shown below.



#### NOTARIZED PROOF OF PUBLICATION

COMMONWEALTH OF KENTUCKY

Before me, a Notary Public, in and for said county and state, this 13 day of
NNember, 2017 came PACHEZ MCGARY,
personally known to me, who, being duly sworn, states as follows: that she is the
Advertising Assistant of the Kentucky Press Service, Inc.; that she has personal
knowledge of the contents of this affidavit; and that the publications included on the
attached list published the Legal Notice for Kentucky Power Company.

Notary Public
My Commission Expires: 9-18-20

(SEAL)

Qual # 563384

#### November 6, 2017

The Kentucky Press Service

Business Affiliate of the Kentucky Press Association

Attn: Rachel McCarty 101 Consumer Lane Frankfort, KY 40601 Phone: 502-223-8821

FAX: 502-875-2624

I hereby agree to plan for publication of the Notice attached as directed in a Kentucky Public Service Commission Order and acknowledge same by returning a signed copy of this form to Judy K Rosquist, Kentucky Power Company, Frankfort, KY. by email to jkrosquist@aep.com

Receipt of and Intent to Comply Acknowledged by:

Kachel Milany
The Kentucky Press Service

Date

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Over 20,000 Readers ever

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that the above styled civil action has been filed against you. A copy of the Complaint available at the Perry Circuit Court Clerk's Office in the County Courthouse. You only have a limited time in which to file an other Answer OI responsive pleading in this action. Failure to file a responsive pleading may lead to ludgment being entered against you.
Contact the Perry
Circuit Clerk's Office or consult an attorney with any questions you may have regarding the lawsuit which has been filed against

you, Deborah R. Lewis Warning Order Attorney (606) 487-1234 2x-11/2-11/9-c-drl-70

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be based upon the hest value. The Perry County Fiscal Court has the right to reject any and all bids.

The Perry County Fiscal Court will affirmatively ensure that for any agreement entered into pursuant to this advertisement, pre-qualified disadvantaged business enterprises will be afforded full opportu-nity to submit bids in response to the invitation and will not be discriminated against on the grounds of race, color, sex, religion, national origin, or disability in consideration for the awarding. 2x-11/9-11/16-c-pcfc-

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2x-11/9-11/16-c-pcfc-

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2x-11/9-11/16-c-pcfc-

being requested for increments 14 and 15. This application covers an area of approximately 629.2 surface acres located 0.70 miles east of Glowman

applied for a Phase I

bond release on per-

mit number 897-0520

which was last issued

on August 29, 2017.

A Phase I release is

drainage control is established, including soil preparation and initial seeding and mulching. This work was completed in the Fall of 2017.

(5) Written comments, objections, and requests for a public hearing or informal conference must be

#### Notice Of Proposed Electric Transmission Line Construction Project

Kentucky Perner Company proposes to rebuild the existing 6.5 mile Hazard Wooln, 161 XV ramsnission line between the Hazard solutilities in Perry Count and line Woolno audoletion in Leste County, Kentucky. The sekolli fine will me use 6.6 miles. Approximately 5.4 miles of the 161 XV line will be jebed! within e odjazani la cristing Kenhicky Pamer inghto-dvay; approximately 1,2 miles o 161 kV line comprises turo segments outside of the existing Hazard Alfoltom right A-vay. These has notice deviations are in the vicinity of Hazard High School in Peny County (City of Hazard) and approximately one crite northeast of the Vicolor substation in Lesin County. Approximately 1,15 miles of the proposed lies viii consist of portions of the subsing Hazard-Juckson 69 kV line and the existing Hazard-Vicolor, 161 kV line

as with the combined and approximately seven double-chail structures within a rights of way of the two lines. An approximately 1,900 find section of the maining single circuit portion of the Hazard-Jackson 69 kV fine vill the northeast to allow the tie-in of the remainder of the existing single-circu rard-Jackson 69 kV line to the proposed double-circuit portion of the Hazar

reaction to be sine.

Kentucky Pomer may be required to alter the proposed centerline of the limit and adjacent rights of way to address conditions discovered dening survey an onstruction that affect constructability and access. Kentucky Pover also seek orsing that her spices consuminating unit access, responsely royal also seen. violen ik existing fights-of-way. The project also includes keprovements at the Woolen substation, as well a pgrade, replacement, and installation work at the Hazard substation.

The single-circuit portion of the Hazard-Woodon 161 kV rebuilt line will be su risci by single circuit galvanized lubular sieel itt-frame structures, single circu alvanized tubular steel three-potes, or latice steel lower structures. All signi ciscol sturctures will average 80 feet above ground level. The proposed double ciscols portion of the line will use steel manopole structures (average height of 110 feet AGL), or steel fatics tower structures (average height of 120 feet AGL).

nu sez nazu, or axed intico koro skudures (evrense height († 20 ked Aci), Kenhadry Pomer plans to file en application vallh he Public Service Commis-sion al Kenhadry on or bekore November (3), 2017 seelbigs a certificate of public compeniares and necessity authorities the construction of the proposed line and related vorb. The application and the Commission proceeding have been es-tigaed Case No. 2017-00228.

Any interested person under ICRS 278.020(8), including any person over who property the proposed transmission fine will cross, may request a local public hearing. The request must be in willing and should be delivered to the Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frank prector, I produce Service: Continussion, 211 Service Science (APA, Bott SS), Francis AC Resetudy Modifice SS). The Incolor public broading must be requested on later than I firthy days after the date the application is filed. The request for local public acasing must comply with the requirements of 807 TARA 5128, Section 3. A person must seek to indervore as a porty in the Commission proceeding to acretice Kenducky Prover's application by Miling a Kinnely written request for fader-reaction in accordance with the requirements of 807 KAR 55001, Section § (11).

nd 807 KAR 5:120, Section 3(3). The application and other lilings in connection with Kentucky Power's appl nay be accessed at http://psc.ky.gov under Case No. 2017-00328,

A map of the route of the proposed line is shown below



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#### Obituaries

Bear Branch, KY, Eva. Carol enjoyed cooking for people, working with her students, paintings & drawings, 4-wheeler riding, traveling on her Church trips & spending time with her family. Eva Carol was preceded

in death by her parents & her infant twin brother Edward. She leaves the following relatives surviving, loving & devoted husband, Bige Couch whom she married on July 20, 1968, 2 beloved daughters, Vickic Lynn Hatton & Phil, Rich-mond, KY. & Marilyn Congleton, Richmond. KY., I beloved sister, Rosalie Smallwood, Bear Branch, KY., 2 treasured grandsons, Jackson Congleton & Braden Hatton, Also a host of treasured nieces, nephews, other relatives & friends sur-

FUNERAL: Friday, November 10, 2017 @ 1:00 P.M. at the Couch's Fork Church of

God, Bear Branch, KY. MINISTERS: Rev. Kevin Napier, Rev. Teddy Couch & Rev. J.D. Hensley

INTERMENT: Abe Couch Cemetery, Bear Branch, KY. PALLBEARERS:

Trent Asher, Braden Hatton, Junior Asher, Kevin Hwood. Phil Hatton, Travis Couch & Greg Couch

VISITATION: Wednesday, November 8, 2017 @ 5:00 P.M. & all day Thursday until time of funcral hour on

You may send your condolences to the family @ dwaynewalkerfuncralhome.com



Harold Ritchie, of Bledsoe, Kentucky was bom October 04, 1966, a son of the late Roosevelt and Bessie Ritchie, Harold departed this life on October 19, 2017 in Harlan Kentucky at the age of 51. Harold had been a life-long resident of Obio & Bledsoe, Kentucky By occupation, Harold was a logger. He enjoyed fishing, hunting for ginseng, four wheel ride and be involved with horses, In addition to his parents, Harold was preceded in death by one brother. David Little and two nephews, Herbie Napier and Brandon Ross Namz.

Survivors include four sons, Brandon, Harold, Jr., Teddy, and Preston Ritchie; three brothers, John Ritchie (Susie) and Eddie Wayne Little (Gerri) of Bledsoc. KY and Junior Sandlin (Robin) of Whiteshurg Y; two sisters, Brenda Ritchie of Bledsoe, KY and Joanne Nantz (Ros one) of Helton, KY: his

loving companion and

muter of son. Keeva Hacker, one grandchild and one grandchild to be; nieces and nephews, Shannon Tristan Nantz, Melissa Cooper (Gary), Chassy Colwell (John), Shunnon Nantz (Francie), Christopher Sandlin, Byron Sandlin, and Alyssa Sandlin; very special friends, James & Denise Hacker, Teresa Bentley (Montey), Joe Nantz, Clyde Brock and Sid Jackson; a host of great nieces, great nephews, other relatives and friends also survive.

The funeral service were held at 1PM Tuesday, October 24, 2017 in the chapel of Wolfe & Sons Funeral Home with Pete Ashby officiating, Burial followed at the Nustz Cemetery at Helton, KY. Family and friends eathcred for visitation from 6 P.M. until 9 P.M. Monday evening at the chapel. Arrangements were carefully handled under the direction of Wolfe Sons Funeral Home, Online condolences at www.wolfeandsonsfh.



Mr. John Henry Salyers of Bear Branch, Ken-07, 1942 in Leslie County, a son of the late Joe Salvers and the late Ora Osborne Salvers Woods John was a coal miner by occupation and enjoyed spending time with his family and friends. John passed away on Sunday, October 29, 2017 at the age 75.

John was preceded in death by his parents; siblings, Roscoe Salyers, Herbert Woods, Raymond Salyers, Margaret allwood, and Ann Elizabeth Jones.

Survivors include two

Branch, Kentucky; three daughters. Kim Felmer and hasband, Tony of Bear Branch, Kentucky, Chrissy Salyers and Kendra Herald and husband, William of Hazard, Kentucky: two brothers. Billy Ray Salyers and wife. Wirma of Hyden, Kentucky and Estill Lee Woods and wife, Carol Sue of Stinnett, Kentucky; four sisters, Ruth Collins and husband, Clyde of Hyden, Kentucky, Janie Collins and husband, James Harold of Dayton, Ohio, Alice Brown and husband, Carl of Oneida, Kentucky and Francine Caldwell and bushand Boone of Stinnett, Kentucky; spccial friend, Linda Johnson; eight cherished grandchildren and six cherished great-grandchildren: a host of other relatives and friends also survive.

Foneral held at 1PM Thursday. Nov. 02, 2017 at the Bob Fork Holiness Church with Randy Woods officiating, Burial followed at the Jone Cemetery at Bear Branch. The visitation was held Tuesday and Wednesday at the church. Arrangements were carefully handled under the direction of Wolfe & Sons Funeral Home, Condolences on line at www.wolfeandsonsfh.com.



Mr. Gillous Oneal Napier was born February 22, 1940 in Leslie Cou ty Kentucky to the union of the late Mitchell and Dallie Couch Napier. Gillous passed away peacefully on Sunday, November 05, 2017 at the Mary Breckinridge A.R.H. at the age of 77. Gillous was residing at Thousandsticks, Kentucky at the time of his sons, Jeff Salyers, and passing Gillous, a Leslie Doug Salyers and wife, County native, was a re-

Jennifer, both of Bear tired Dozer operator. He worked with custom picenjoyed gardening, riding his Kubota, working on motors, going to fica markets and spending time with his family and friends. He especially enjoyed spending time with his great nephew, Jaden Scalf who called him "2 Daddy". Gillous was a beloved father, husband, brother and friend.

In addition to his parents, Gillous was preceded in death by his loving and devoted wife of 52 years, Lillie Osborne Napier one brother, Robert Napier, and three sisters, Maggie Napier Lank, Vermeli Salyers and Lelia Waters.

Gillous leaves behind, his beloved son: David Sheridan Napier and wife, Connie whom he loved as a daughter, of Thousandsticks, KY; one brother, Pearl Nanier of Bear Branch, KY. A host of other family and friends also survive his passing.

Funeral services will be held at 2:00 P.M., Thursday, November 09, 2017 in the chapel of Wolfe & Sons Funeral Home. Burial will follow the services at the Sheridan Osborne Cemetery at Thousandsticks, tucky. Family & friends may gather for visi-tation from 6:00 until 9:00 P.M., Wednesday evening at the chapel. Arrangements are being bandled by Wolfe & Sons Funeral Home. Online condolences available at www.wolfeandsousfh. com.



Betty Jean Miniard, of Yeaddiss, Kentucky was born February 16, 1951 in Hyden, Kentucky to the union of Rose Wells Mitchell and the late Hobert Miniard, Betty had been a life-long resident of Leslie County. By occupation, Betty

affiliated with the Full Gospel Church of Jesus Christ at Smilax, Kentucky. Betty was a beloved mother, daughter, sister, and grandmother. She treasured the time spent with her family and grandchildren, especially playing cards and fishing with her grandchildren. Betty passed away peacefully on Wednesday, November 01, 2017 at her residence at the age of 66. In addition to her father,

Betty was preceded in

death by her step-father,

Lester Mitchell, a brother, George Mitchell and a sister, Pauline Cress Betty leaves behind one son, Ryan Ison & wife, Gina; one daughter, Daving Campbell & husband, Willie; her beloved mother, Rose Wells Mitchell; five brothers, David Mitchell & wife. Christine, Larry Mitchell & wife, Mavie, Jeff Mitchell, Lonis Michell & wife, Marie, and Everett Mitcheil & wife, Carol: three sisters, Ann Mitchell, Dallie Maggami & husband, Carl and Kathy Shepherd; two cherished grandchildren, Abby and Hayden Ison: a host of nieces. nephews, other relatives and friends also survive. held at 1:00 P.M., Friday, November 03, 2017 at the Full Gospel Church of Jesus Christ with Rev. Billy Joe Lewis officiating. Interment followed in the Mitchell Family Cemetery at Yeaddis KY. Friends and family gathered for visitation from 6:00 P.M. until 9:00 P.M., Thursday evening at the church. The family entrusted Wolfe & Sons Funeral Home to carefully handle the arrangements. Online condolences at www. wolfeandsonsfn.com.

In lieu of flowers, the

family request donations

be made to WLJC -- Be-

attyville, KY or by vis-

iting their website and clicking the tab "Sup-port Us". You may also

donate to the charity of

your choice. COMMONWEALTH OF KENTUCKY LESLIE CIRCUIT AND DISTRICT COURTS P.O. BOX 1750 HYDEN, KY 41749 PROBATE CASE NO. 17-P-00077

NOTICE OF PROBATE

IN RE: ESTATE OF Hughic E. Collett 3831 Hay 406 Essie, KY 40827 Hughle O. Collett 3831 Hay 406 EXECUTOR: 3631 1187y 406 Essle, KY 40827 A TATABET EST.

ALL CREDITORS MUST FILE CLAIM, (6) SIX MONTES FROM DATE OF APPOINTMENT. APPOINTMENT DATE: 16-17-17 ATTORNEY OF RECORD:

Hon. Don Partin P.O. Box 938 Harlan, KY 40831

COMMONWEALTH OF KENTUCKY LESLIE CIRCUIT AND DISTRICT COURTS P.O. BOX 1750 HYDEN, KY 41749 PROBATE CASE NO. 17-P-00072

NOTICE OF PROBATE

IN RE: ESTATE OF Mekin Baker
ADDRESS 776 Cetablin Road
Wooton, KY 41776
EXECUTOR: Bonnie Day
1601 Hwy 578
ADDRESS: East Berusiadt, KY 40729

ALL CREDITORS MUST FILE CLAIM, (6) SIX MONTHS FROM DATE OF APPOINTMENT. APPOINTMENT DATE: 19-24-17

#### Notice Of Proposed Electric Transmission Line Construction Project

Kentucky Power Company proposels to pleasif the establing 6.5 mile Hazart Wooden 16 kt V annamation fine between the Hazard education in Powy Count and the Wooden statistics in Leadin County, Gentucky. The robustile has reliable sets 6.5 miles. Approximately 5.4 miles of the 181 kt Marwill be noted the sets deposit to activity fleedocky Power principles-develop reprovintedly 1.2 miles of 161 kt Para completes two segments conduce of the activity fleenant-Viscolomi (et Hazart Wall be completed on the particular than the solid policy than the character to Leadin County.

Approximately 1.1 is flee of 10 the proposed the will conside the professor of the character Hazart Lackson 650 kt Men and the activity of Hazart Hazart

received account of which and the deceasing received report of the the combined only approximately seven double-circuit entitle the low lines. An approximately 1,000 foot section of the two lines. An approximately 1,000 foot section of the Hazard-Jackson 69 kV line will receive up single-circuit portion of the Hazard-Jackson 69 kV line will receive up an other flow. is allow the fie-in of the remainder of the existing single-ch 59 kV line to the proposed double-circuit portion of the Haza

ion 181 KV Sna. Intudely Pomer may be required to else the proposed centarine of the lit-adjacent rights—d-way to address conditions discovered during survey are trudien that sited constructability and access. Keebudy Power size see

Root, representation of the Hazard-Hazard Indicators in an executive, depth character is sufficient to the supplication factor and Hazard Executive, and the character is sufficient to the supplication factor in the factor is sufficient to the factor in the factor will factor in the factor in the

or was application with the Public Committee C

oplication and other filings in connection with Kentucky Power's a the accessed at http://jsc.kly.gov.under.Case No. 2017-00325.

A map of the route of the proposed line is show Patry

rd - Wooton 161kV Rebuild

#### COMMONWEALTH OF KENTUCKY LESLIE CIRCUIT AND DISTRICT COURTS P.O. BOX 1750 HYDEN, KY 41749 PROBATE CASE NO. 17-P-00088

NOTICE OF PROBATE

IN RE: ESTATE OF George Hensley
ADDRESS 232 Martin Jones Road Lundon, KY 40744 Caralyn Hensley 232 Martin Jones Road EXECUTOR: ADDRESS. London, KY 40744

ALL CREDITORS MUST FILE CLAIM, (6) SIX MONTHS FROM DATE OF APPOINTMENT. APPOINTMENT DATE: 19:3-17 ATTORNEY OF RECORD: Philip Lewls FQ. Box 915 Hyden, KY 41749

COMMONWRALTH OF KENTUCKY LESLIE CIRCUIT AND DISTRICT COURTS
P.O. BOX 1750 HYDEN, KY 41749 PROBATE CASE NO. 17-P-00689

NOTICE OF PROBATE

IN RE: ESTATE OF Visio C Foltz Viola C. Fultz Harlan Henlih & Rebubilitation Barlon, KY 40831 Larry E. Fultz #5 Longwood LN Bledsac, KY 40816 EXECUTOR. ADDRINS:

ALL CREDITORS MUST FILE CLAIM, (6) SIX MONTHS FROM DATE OF APPOINTMENT. APPOINTMENT DATE: 10-24-17

#### **EXHIBIT 15: HAZARD AREA IMPROVEMENTS PLAN**

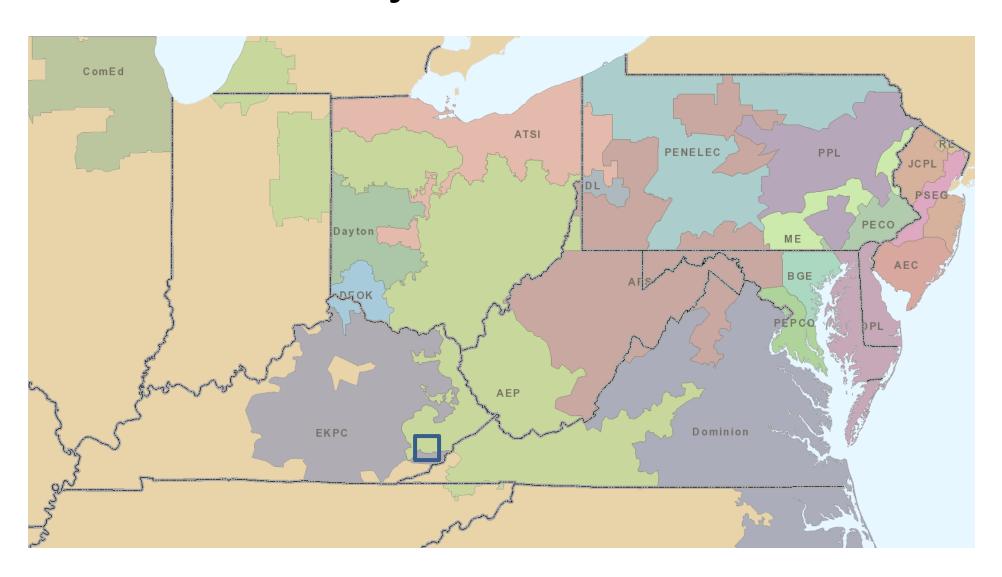
# Hazard 161 kV Area Improvement Plan



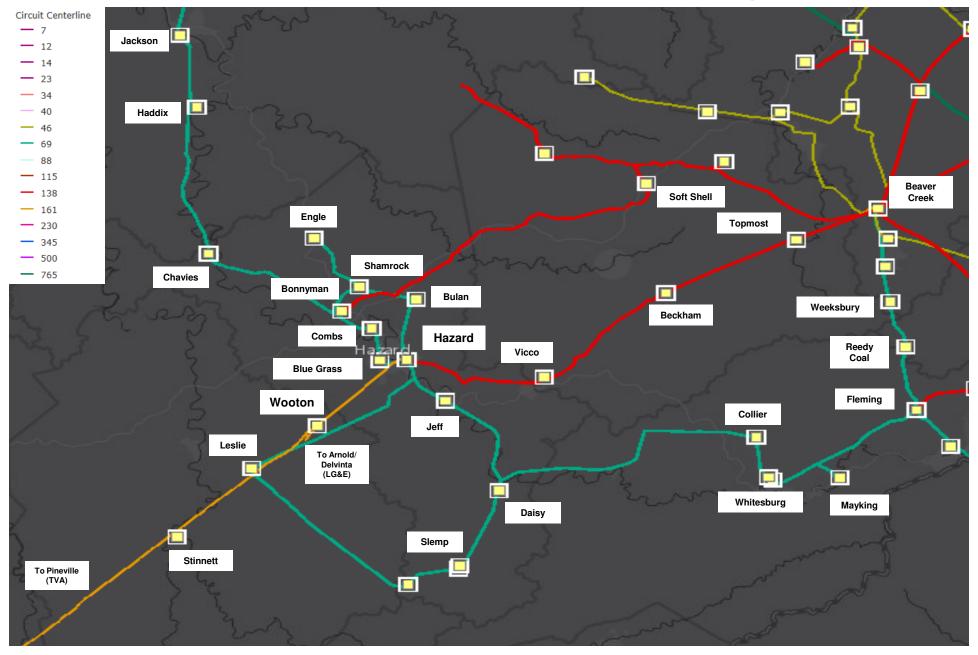
An **AEP** Company

BOUNDLESS ENERGY \*\*\*

## **Project Location**



## Hazard Area Transmission System



## **Project Description**

#### Hazard - Wooton 161 kV Line

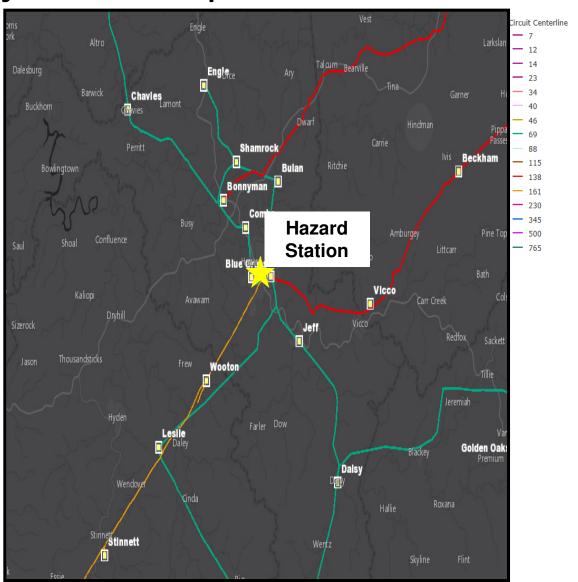
Rebuild the Hazard – Wooton 161 kV line utilizing 795 26/7 ACSR conductor.

#### **Hazard Station**

138 kV capacitor bank and switcher BB will be replaced with a new switcher and 43.2 MVAR capacitor bank. 138/69 kV transformers #1 and #2 will be replaced by new 138/69 kV 130 MVA transformers with a 138 kV circuit switcher on the high side of transformer #2 and 3000A 40 kA 69 kV breakers on the low side of both transformer #1 and #2. 69 kV circuit breakers S, E, and F will be replaced with 3000A 40 kA 69 kV circuit breakers with a bus tie 3000A 69 kV circuit breaker being installed between the existing 69 kV box bays. 69 kV capacitor bank and switcher CC will be replaced with a new switcher and 28.8 MVAR capacitor bank. 69 kV capacitor bank and switcher AA will be retired. 161/138 kV transformer #3 will be replaced with a new 350 MVA three-phase transformer. 161 kV circuit breaker M towards Wooton will be replaced by a 161 kV 3000 A 40 kA breaker. A 3000A 40 kA 138 kV circuit breaker will be added to the low side of 161/138 kV transformer #3. Safety and access issues associated with existing equipment platforms and drainage issues at the station will also be addressed. A 138 kV circuit switcher and a low side 34.5 kV breaker will be added to Transformer #4. 34.5 kV breaker A and 12 kV breaker C will both be replaced.

#### **Wooton Station**

Remote end upgrades to accommodate Hazard – Wooton rebuild.



## **Project Justification**

#### **Planning Criteria Violations:**

The Hazard – Wooton 161 kV line overloads under the generation deliverability analysis performed as part of the 2016 PJM RTEP study.

Hazard 161/138 kV transformer #3 overloads under the generation deliverability analysis performed as part of the 2016 PJM RTEP study.

#### Equipment Material/Condition/Performance/Risk:

In addition to the planning criteria violations, approximately 6.3 of the 6.5 mile Hazard – Wooton 161 kV line utilizes wood structures from the 1940s. There are currently a total of 52 category A open conditions along the 6.5 mile long line which is comprised of 45 structures. These open conditions include damaged/rotted poles, conductor, and cross arms.

Circuit breakers S and E at Hazard station are FK type breakers all over 40 years old. Circuit breaker F at Hazard is a CG type breaker. These are both oil breakers that have become more difficult to maintain due to the required oil handling procedures. In general, oil spills occur often during routine maintenance and failures with these types of breakers. Other drivers include PCB content, damage to bushings ,and an excess number fault operations that exceed the manufacturers recommended number of 10. Breakers S, E, and F have experienced 82, 184, and 193 fault operations respectively.

Hazard circuit breaker C is a PR type oil breaker and is 48 years old, it carries similar issues to the 69 kV oil breakers above. In addition the breaker has experienced 354 fault operations, well above the manufacturer recommendation of 12.

Hazard circuit breaker A is a VWVE type oil breaker and is 28 years old, it carries similar issues to the 69 kV oil breakers above. In addition the breaker has experienced 221 fault operations, well above the manufacturer recommendation of 20.

Hazard circuit breaker M will need to be relocated in association with the baseline project to replace the existing 161/138 kV transformer at Hazard station . The breaker is 29 years old and has experienced 21 fault operations, which exceeds the manufacturer recommendation of 10.

Hazard transformers #1 and #2 and #3 show dielectric breakdown (insulation), accessory damage (bushings/windings), and short circuit breakdown (due to amount of through faults).

Transformer #1 also shows signs of corrosion on radiators as well as oil leaks.

Hazard circuit switcher BB is a MARK V unit which have presented AEP with a large amount of failures and mis-operations. AEP has determined that all MARK V's will be replaced and upgraded with the latest AEP cap-switcher design standard. Capacitor bank BB will need to be relocated in association with the baseline project to replace the existing 161/138 kV transformer at Hazard station.

Hazard capacitor switcher CC has oil leaks on all three phases and cannot be repaired. Capacitor bank CC was a non standard design and its components (fuses and cans) have begun to fail.

Safety concerns associated with existing equipment platforms at Hazard station will also be addressed. The majority of the platforms at the station were field designed with thought of access, and lack both adequate clearances as well as structural integrity. Drainage issues at the station will also be addressed.

#### **Operational Flexibility and Efficiency**

A 69 kV low side breaker will be installed on Hazard transformer # 1 to separate three dissimilar zones of protection.

138 kV circuit switchers will be added to Hazard transformers #2 and #4, as well as low side breakers on transformers #2, #3, and #4 to separate four dissimilar zones of protection.

In order to improve operational flexibility to the 69 kV networks served out of Hazard a 69 kV bus tie circuit breaker will be installed at Hazard. The 69 kV tie breaker will also help facilitate the retirement of Capacitor AA which: is currently located off the line to Bonnyman, is beginning to show issues, and requires its VBM type cap switcher replaced.

## Hazard Station Alternatives Considered

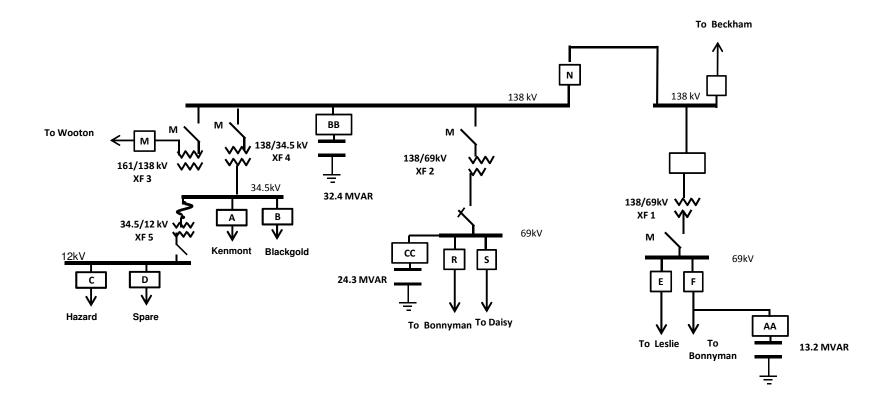
#### Alternate #1

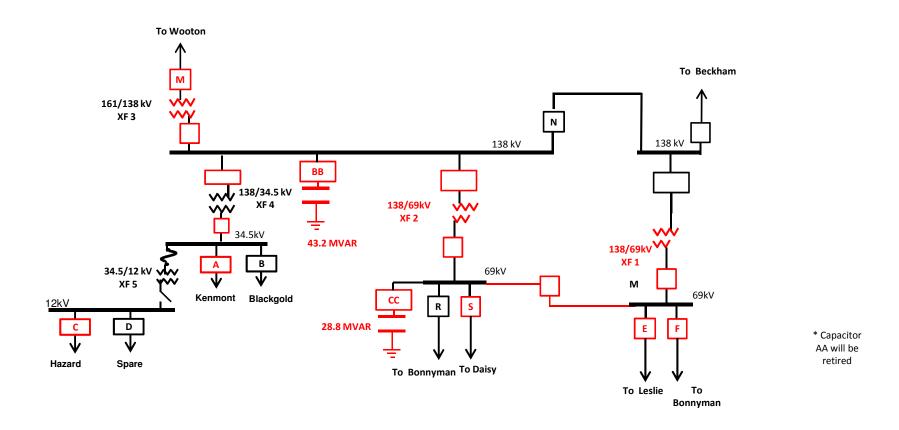
Rebuilding the station in the clear was evaluated. Lack of a suitable site in close proximity to the station due to the mountainous terrain and nearby population would have resulted in significant rerouting and re-terminating of the six transmission circuits and the four distribution circuits currently terminated at the existing station. It was determined that this would not be a cost effective alternative. Beyond the cost implications, relocation of the circuits and station would have been extremely challenging from a project constructability perspective.

#### Alternate #2

Constructing the 69 kV portion of the yard into a 69 kV ring bus was evaluated. It was determined that this alternative was not physically possible at the existing station site without extended outages. This alternative was determined to be not feasible due to constructability aspects.

## System Electrical Diagram





#### **EXHIBIT 16: REBUILD STUDY**

### **Rebuild Study**

For

The Hazard - Wooton 161 kV Transmission Line

Kentucky PSC Case No. 2017-00328

Prepared by:

POWER Engineers, Inc. 2920 W. Broad Street Richmond, Virginia 23230 October 2017





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#### 1.0 INTRODUCTION

#### 1.1 Project Description

Kentucky Power Company, a subsidiary of American Electric Power (AEP or Company), is proposing to rebuild the Hazard – Wooton 161 kilovolt (kV) transmission line and build associated upgrades at its Hazard and Wooton Substations, jointly referred to as the Project. The Project is an approximately \$44.5 million investment. The existing transmission line is approximately 6.5 miles long and located in Perry and Leslie counties, Kentucky (See **Attachment 1, Map 1**). It begins at the Hazard Substation in Hazard, Kentucky and traverses generally south-west to the project terminus, the Wooton Substation.

The Project requires the existing right-of-way (ROW) be widened from an average of 100-foot-wide ROW to a typical 120-foot-wide ROW; however, the ROW will need to be expanded in certain areas due to long span lengths and conductor clearance requirements. The existing structures range generally from 50 to 60 feet tall and are largely wood H-frame and 3-pole structures. New single circuit structures will be on average 80 feet tall and will generally be steel H-frames. New double circuit steel monopole structures will be on average 110 feet tall (**Figure 1**). Other structure types may be used, as necessary and for unique design situations. Construction is expected to commence in the summer of 2018 and be completed by the end of 2019, with restoration finishing in the spring or summer of 2020.

The Project is necessary to address violations identified by PJM Interconnection (PJM, the regional transmission organization). Additionally, the Project addresses severe aging infrastructure concerns. The existing transmission line was built in the 1940s and is at the end of its useful life. Due to the deteriorated wooden poles and age of the transmission line, it needs to be rebuilt to modern standards to ensure reliability and safety.





Figure 1: Existing (left), Proposed Steel H-Frame (middle), and Proposed Double Circuit Monopole (right)

Representative Structure Photographs

#### 1.2 Purpose of this Assessment

Kentucky Power retained the services of POWER Engineers, Inc. ("POWER") to evaluate the existing transmission line route and develop diversions, where necessary, to ensure the rebuild reasonably avoids or minimizes impacts on people and environmental resources (the "Proposed Rebuild" documented in this "Rebuild Study"). The Rebuild Study is intended to provide an understanding of the opportunities and constraints in the Project Study Area to facilitate the development of the Proposed Rebuild alignment. The evaluation of the Proposed Rebuild alignment provides information regarding the suitability of the route and the impact of the line on the natural and human environment, line length, and the potential for additional engineering requirements. If the Rebuild Study concludes that rebuilding the existing transmission on the existing general alignment is not reasonable (e.g., due to existing or future land uses), a more in-depth alternative route development study will be necessary.

#### 1.3 Process and Methodology

#### 1.3.1 Siting Team Members

A multi-disciplinary Siting Team performed the siting of the Project. Team members were selected to bring wide experience to the siting process to achieve a thorough review of all aspects of developing the Proposed Rebuild (**Table 1**). Members of the Siting Team have experience in transmission line siting, impact assessment for a wide variety of natural resources and the human environment, impact mitigation, engineering, and construction management.



Table 1. Siting Team Members					
Siting Team Member	Company	Role			
Lance Blackburn	AEP	Project Manager			
Scott Kennedy	AEP	Siting			
Craig Pritt	AEP	Siting			
George Porter	AEP	Public Outreach			
John Booze	AEP	Transmission Line Engineer			
Will Burkett	AEP	System Planning			
Ryan Howell	AEP	ROW			
Darren Kidwell	AEP	Environmental			
Brad Hall	Kentucky Power	Governmental Affairs			
Mike Lasslo	Kentucky Power	System Planning			
Ryan Weyant	POWER	Transmission Line Engineer			
Emily Larson	POWER	Siting			
Shelley Campbell	POWER	Siting			
Jill Norton	POWER	GIS			
Jason Crum	Emerald Energy	ROW			
Cortney Mustard	EASI	Public Outreach			

#### 1.3.2 Goal of the Rebuild Study

The goal of the Rebuild Study is to gain an understanding of the opportunities and constraints in the Study Area and to develop and evaluate the Proposed Rebuild alignment. The Proposed Rebuild is the route that: (1) reasonably minimizes adverse impacts on area land uses and the natural and cultural environment; (2) minimizes special design requirements and unreasonable costs; and (3) can be constructed and operated in a timely, safe, and reliable manner.

The Rebuild Study was conducted in several steps:

- 1. Developed an initial Project Study Area and gathered readily available environmental, land use, and engineering data.
- 2. Completed a desktop review of Study Area constraints based on readily available data.
- 3. Held a Siting Team kick-off meeting and field review with AEP representatives.
- 4. Developed and evaluated the Proposed Rebuild and any deviations.
- 5. Initiated public outreach process and met with stakeholders.
- 6. Held a public open house.
- 7. Finalized the Proposed Rebuild.

#### 1.3.3 Public Outreach Summary

Community input is a valuable asset to routing transmission lines. Key stakeholders were identified early in the siting process. Members of the Siting Team contacted and met with key stakeholders in the field on August 14, 2017. These stakeholders included the Principal of



Hazard High School, the Mayor of the City of Hazard, and the Perry County Judge Executor. Visual simulations were presented to the Mayor of the City of Hazard and the Perry County Judge Executor on September 6, 2017. The goal of the stakeholder meetings is to solicit information and gain feedback on the Proposed Rebuild alignment for the Project. All stakeholders were receptive to the Project and indicated they supported the Project. The visual simulation (See **Attachment 2**) was also well received.

A public open house was held August 24, 2017 from 5:00 – 7:00 PM at Hazard Community College located at One Community College Drive, Hazard, Kentucky 41701. Invitations were sent to 126 landowners within a 500-foot corridor around the existing transmission line and the Proposed Rebuild centerline. Advertisements for the open house were run in the Hazard Herald in Hazard, Kentucky on August 16 and 23, 2017 and the Leslie County News in Hyden, Kentucky on August 17 and 24, 2017. Six members of the public attended the open house and no comments on comment cards or on mapping were received. A Project website was created to inform the public of the Project and to collect feedback. As of November 8, 2017, no comments have been received on the Project website. One landowner has called with questions since the Project was announced; however, they are receptive to the Project and had no comments that would influence the Proposed Rebuild.

Kentucky Power has contacted all affected property owners in connection with obtaining permission to survey their property. The permission form includes a space in which the property owner may register project opposition. As of November 8, 2017, no property owners have expressed objections to the Project.

#### 1.3.4 Data Collection

Data collection is critical to understanding a Project area and used to develop the Rebuild Study. Data was collected for the following categories and a detailed table of data sources is provided in **Attachment 3**.

#### Land uses

- Churches, schools, parks, airports, and recreational facilities, including trails, parks and boat ramps.
- o Roads, railroads, and airports
- Mining permit areas
- Transmission lines, substations, communication towers, and gas pipelines
- Gas and oil well data
- Conservation easements
- o Parcel data and ownership
- State and National Scenic By-ways

#### Natural resources

- National Wetland Inventory (NWI) wetland locations
- o National Hydrographic Data (NHD) stream locations



- Federal Emergency Management Agency (FEMA) designated floodplains and floodways
- Cultural resources
  - o Cemeteries
  - National Register of Historic Places (NRHP) listed sites
  - o Review of the Kentucky Heritage Council (KHC) database

Aerial photography is an important tool for route selection. The primary sources of aerial imagery used in the route identification, analysis, and selection effort for the Project include:

- Google
- ESRi
- LiDAR (Airborne laser survey, completed April 2, 2017)

Updated information, such as the location of new residences and other constraints, were annotated to the photography by either paper maps and transferred into the GIS, or digitized directly into the GIS as identified during field inspections or on aerial photography.

The Rebuild Study made extensive use of information in existing GIS data sets, obtained from many sources, including federal, state, and local governments (**Attachment 3**). Much of this information was obtained through official agency GIS data access websites, some was provided directly by government agencies, and the Siting Team created data by digitizing information from paper-based maps, aerial photo interpretation, interviews with stakeholders and field inspections.

GIS data sources vary with respect to their accuracy and precision. For this reason, GIS-based calculations and maps presented throughout this study should be considered reasonable approximations of the resource or geographic feature they represent and not absolute measures or counts. The data and calculations presented in this study allow for relative comparisons, with the assumption that any inherent errors or inaccuracies would be generally equal across the Project. Field reconnaissance was not conducted to verify certain features (e.g., locations of residential, commercial and industrial buildings); however LiDAR imagery completed April 2, 2017 provided relatively accurate information as to structure locations. Additionally, select locations in the Study Area were reviewed in the field during site visits to verify the location of structures.



#### 2.0 PROPOSED REBUILD DEVELOPMENT

#### 2.1 Study Area Description

The Study Area is that territory in which line route options can be sited to feasibly meet the Project's functional requirements and, at the same time, minimize environmental impacts and Project costs. The Study Area for the Project is defined as a two-mile buffer around the existing centerline and encompasses approximately 24,600 acres (38.4 square miles) in Perry and Leslie counties, Kentucky (see **Attachment 1: Map 1**). The existing Wooton Substation is the southern terminus of the Project and the existing Hazard Substation is the northern terminus of the Project.

The Project Study Area is generally bounded by the City of Hazard to the north and the existing Hazard – Leslie 69 kV transmission line to the east and south. Land to the west of the existing transmission line ROW is relatively undeveloped and open; however, the terrain is mountainous (**Attachment 1: Map 1**). The majority of the Study Area is dominated by rugged, forested mountains and gas and mineral extraction operations (see **Attachment 4**, Context Photograph/ Diversion Areas).

## 2.2 Constraints and Opportunities

The Siting Team mapped and identified various constraints (i.e., areas or features where locating a new transmission line would result in the potential for adverse impacts) and opportunities (i.e., areas or existing linear features where locating a new transmission line might reduce the overall effect of the line on area land use, residents, and the environment). Overall, the existing ROW has few constraints that would limit its rebuild on the existing centerline (see the GIS Constraints Map, **Attachment 1, Map 2**).

Constraints in the Study Area include community development in the City of Hazard particularly around the existing Hazard Substation and engineering or constructability challenges throughout the rugged and mountainous terrain. The existing Hazard Substation is surrounded by existing development including residential and commercial, as well as electrical and transportation infrastructure. Additionally, the Hazard Substation is bounded by the North Fork of the Kentucky River to the north. The existing transmission line ROW leaves the Hazard Substation and crosses the North Fork of the Kentucky River in proximity to several residences and adjacent to the existing Hazard – Jackson 69 kV Transmission Line and a 34.5 kV distribution line. Further, there is one outbuilding currently within the ROW of the existing Hazard – Wooton 161 kV Transmission Line at this location, immediately west of the North Fork of the Kentucky River crossing. The existing ROW traverses on a side slope above Hazard High School. The side slope is constrained from an engineering and constructability standpoint due to the high potential for slips and slides, showcased by a recent landslide that occurred on the



same slope and affected the high school's ball fields during ball field upgrade and expansion work (see **Attachment 4**, Context Photograph/ Diversion Areas). Additionally, approximately 2.3 miles south west of Hazard High School there are two houses and three outbuildings currently within the existing transmission line ROW (see **Attachment 4**, Context Photograph/ Diversion Areas). Approximately one mile northeast of the existing Wooton Substation, one existing structure is isolated on the peak of a rock outcropping. This area is constrained due to lack of possible access to the structure and engineering and constructability concerns in removing and replacing that structure in the same location (see **Attachment 4**, Context Photograph/ Diversion Areas).

Existing linear features are generally considered "opportunities" to parallel or use for routing transmission lines. The existing Hazard — Wooton 161 kV Transmission Line and Hazard — Jackson 69 kV Transmission Line ROWs are the primary linear features used for routing on the Project, as using existing ROW or paralleling existing ROW is a preferred approach. These areas and the existing transmission lines were reviewed in the field at the Project kick-off meeting by the Siting Team on August 17 and 18, 2016, as well as subsequent field visits during the siting and public outreach process.

## 2.3 Proposed Rebuild

The Siting Team developed the Proposed Rebuild based on the opportunities and constraints within the Study Area. The primary routing criteria was to maximize the use of the existing transmission line ROW and rebuild back on centerline as much as possible. The Proposed Rebuild is 6.6 miles and uses existing transmission line ROW to the greatest extent practicable. Using existing ROW limits the additional cost to acquire new ROW compared with a greenfield route and also minimizes viewshed impacts, as there is an existing transmission line and visual impact on the landscape. Approximately 5.4 miles of the Proposed Rebuild is within or near existing Kentucky Power ROW. Approximately 1.2 miles of the Proposed Rebuild is outside of existing Kentucky Power ROW via two minor diversions (see **Attachment 1: Maps 2 and 3**). The two diversions accommodate engineering and constructability concerns and/or issues. All other portions of the Proposed Rebuild are located in or adjacent to existing ROW. One-thousand nine hundred (1,900) feet of the existing Hazard – Jackson 69 kV Transmission Line will be reconfigured slightly where the 69 kV circuit rejoins the existing Hazard – Jackson 69 kV Transmission Line ROW, described further below.

Outside of the existing Hazard Substation and north of the North Fork of the Kentucky River, the existing Hazard – Wooton 161 kV Transmission Line has one outbuilding encroaching on the ROW and is located along the backside of several residences. The existing Hazard – Wooton 161 kV Transmission Line is located immediately adjacent to the existing Hazard – Jackson 69 kV Transmission Line and a 34.5 kV distribution line, all within adjacent and/or overlapping ROWs.



Considering the development, steep terrain and electrical infrastructure this area is very constrained, making it difficult to rebuild the Hazard - Wooton 161 kV Transmission Line in the same location. In order to avoid the outbuilding, maximize the distance from the residential area, avoid conflicts with the parallel infrastructure during construction and avoid constructability issues related to the steep terrain, an option to double circuit the Hazard -Wooton 161 kV Transmission Line and Hazard - Jackson 69 kV Transmission Line, while also underbuilding the 34.5 kV distribution line was reviewed. The Proposed Rebuild proposes to double circuit the two existing transmission lines within a combined 120-foot ROW, with the 34.5 kV distribution line underbuilt from the Hazard Substation to the first structure north of the North Fork of the Kentucky River. The 34.5 kV distribution line will be relocated to a rightof-way generally adjacent to the Proposed Rebuild right-of-way between the first structure north of the North Fork of the Kentucky River and Kentucky Route 15. The new double circuit 161/69 kV transmission line is shifted slightly south within the combined ROWs and farther from the adjacent residences, removing the existing encroachment from the ROW. By combining the individual ROWs and double circuiting the 161 and 69 kV transmission lines, underbuilding the distribution line, and designing the line to meet current electrical clearance requirements, the structures became taller than the existing H-frames and would be more visible to the shopping center and residential surrounding areas. A visual simulation of the proposed double circuit configuration with the distribution line underbuild is included as Attachment 2.

The Proposed Rebuild, continuing as a double circuit 161/69 kV transmission line crosses South Main Street/Kentucky Route 15 and shifts north of the existing Hazard - Wooton 161 kV Transmission Line and south of the existing Hazard – Jackson 69 kV Transmission Line. The first diversion, not in or partially in existing ROW, is located near the Hazard High School and is approximately 3,200 feet in length (See Attachment 4 for Context photograph of the existing ROW, "Diversion Area No. 1"). The existing centerline is located on a steep side slope above the high school's ball fields and in a location that has experienced slips and slides in the past. The Proposed Rebuild relocates the transmission line north of the existing centerline and to near the top of the ridge line to optimize constructability and minimize the expectancy of slips and slides. Moving the double circuit section of line north on the ridge puts it closer to the existing Hazard – Jackson 69 kV centerline. From a point north and west of Hazard High School, the 161 and 69 kV circuits split. The Hazard – Wooton 161 kV circuit turns south, to reconnect with the existing 161 kV centerline and the 69 kV circuit reconnects with the existing 69 kV transmission line via a short spur of new transmission line (approximately 1,900 feet long). The first 69 kV structure (designed to 138 kV standards) is slightly offset from the existing 69 kV centerline and relocated onto higher terrain (Attachment 1: Maps 2 and 3). One existing 69 kV structure will be removed as a result. This slight relocation provides for a better optimized line design,



decreases the outage duration during construction, and reduces the likelihood of slips and slides during construction. The conductors from the proposed 69 kV structure will then reconnect to the next existing 69 kV transmission line structure located northwest and downhill. Due to the relocation of the one 69 kV structure, the right-of-way will shift slightly and additional right-of-way varying from 0 to 100 feet will be necessary for the approximately 1,900 foot 69 kV reconfiguration. (Attachment 1: Maps 2 and 3). The 161 kV circuit will continue in new right-of-way for a short distance before rejoining the existing 161 kV centerline.

The existing Hazard – Wooton 161 kV Transmission Line would then be rebuilt on centerline for 3.7 miles until a point approximately one mile northwest of the Wooton Substation. At this point, the second diversion from existing ROW is proposed due to the inaccessibility of a structure (See **Attachment 4** for Context photograph of the existing ROW, "Diversion Area No. 2"). The diversion is approximately 3,000 feet in length. The inaccessible structure on the existing centerline is located on a steep rock outcropping with limited or no ability to build a road to the structure. As such, the Proposed Rebuild has been relocated to an accessible and constructible location on the adjacent ridge. After the diversion, the Proposed Rebuild returns to the existing centerline and continues to the Wooton Substation. The Proposed Rebuild was evaluated for various routing factors and qualitative assessment.

## 2.4 Assessment of the Proposed Rebuild

A corridor was created around the Proposed Rebuild and included in the Kentucky Public Service Commission (PSC) filing, to allow Kentucky Power the flexibility necessary to address potential issues that may become evident after ground surveys, final engineering and right-of-way negotiation for the Proposed Rebuild. The corridor is defined as a 150 foot buffer (300-foot corridor) on each side of the Proposed Rebuild centerline from the Hazard Substation to Kentucky Route 15 and a 250 foot buffer (500-foot corridor) on each side of the Proposed Rebuild centerline from Kentucky Route 15 to the Wooton Substation, including the portion of the 69 kV transmission line that is being reconfigured (See **Attachment 1, Map 2**). The ROW will generally be 120-feet wide. In some long spans, a widened right-of-way may be required to allow for additional tree clearing in order to prevent the conductors from coming in contact with trees under certain wind conditions and to allow tree clearing on the up-hill side to prevent trees from falling down hill and into the conductors.

The majority of the Proposed Rebuild is located in or near existing ROW. The total length of the Proposed Rebuild is 6.6 miles, of which 5.4 miles will be in or near existing ROW. The Proposed Rebuild is slightly longer, approximately 0.1 mile, than the existing transmission line due to the two proposed minor diversions. The Proposed Rebuild crosses fewer parcels and has fewer residences within 250 feet of its centerline compared with the existing centerline. The existing



transmission line's 100 foot ROW crosses 50 parcels and has 23 residences within 250 feet of the centerline; the Proposed Rebuild's 120-foot ROW crosses 48 parcels and has 20 residences within 250 feet of its centerline (these numbers do not include the 69 kV reconfiguration). Due to the diversions, the Proposed Rebuild requires four heavy angles (those angles over 30 degrees) while the existing line only has two. The existing transmission line has one outbuilding in the ROW near the Hazard Substation and two occupied houses and two outbuildings in the ROW and located off Browns Fork Road (See Attachment 4 for the Context Photo showing one of the existing Brown's Fork residences in the ROW and Attachment 1, Map 2). The residences off Browns Fork Road are located in a hollow with the existing conductor high above the buildings due to the steep terrain. The outbuilding near the Hazard Substation is no longer within the ROW of the Proposed Rebuild; however the two residences and two outbuildings located off Browns Fork Road are still within the Proposed Rebuild ROW. Alternatives that would permit Kentucky Power to deviate from the existing centerline and to avoid the need to remove the residences off Browns Fork Road are not practical due to the long span over the hollow. A minimum of three transmission line angle structures would be required and additional structures would be needed in the hollow bottom. Landowners of the two residences off of Browns Fork Road were contacted by Kentucky Power ROW agents regarding the Project and have indicated a willingness to work with the Company to be relocated. Determinations for all encroachments on the Project will be further analyzed and determined based off of final property boundary survey, ROW negotiations and engineering design.

Visual impacts near the Hazard Substation and the City of Hazard will be minimal. While structures will be taller, two transmission lines that were parallel are now on a single centerline and ROW, limiting visual clutter (see the Visual Simulation in **Attachment 2**). At Hazard High School, the Proposed Rebuild is being moved up on the hill and farther from the school. Vegetation will be allowed to grow between the school and ROW which, over time, will provide a visual buffer from the ball fields. Visual impacts will remain largely unchanged southwest of Hazard High School, as the Proposed Rebuild is largely located on the existing centerline and away from most development. Overall the structures will increase in height (approximately 20 - 30 feet taller on average) due to the heavier/larger conductor and fewer proposed structures with longer spans lengths; however, the majority of the area is scarcely populated and most residences are located in low lying areas along roads while structures are placed predominantly on mountain ridges. The mountainous nature of the region means sight lines are limited from most vehicular traffic or development in the valleys. The diversion near the Wooton Substation will require new ROW and trees to be cleared; however, it is located in a remote area where the change will not likely be noticeable.



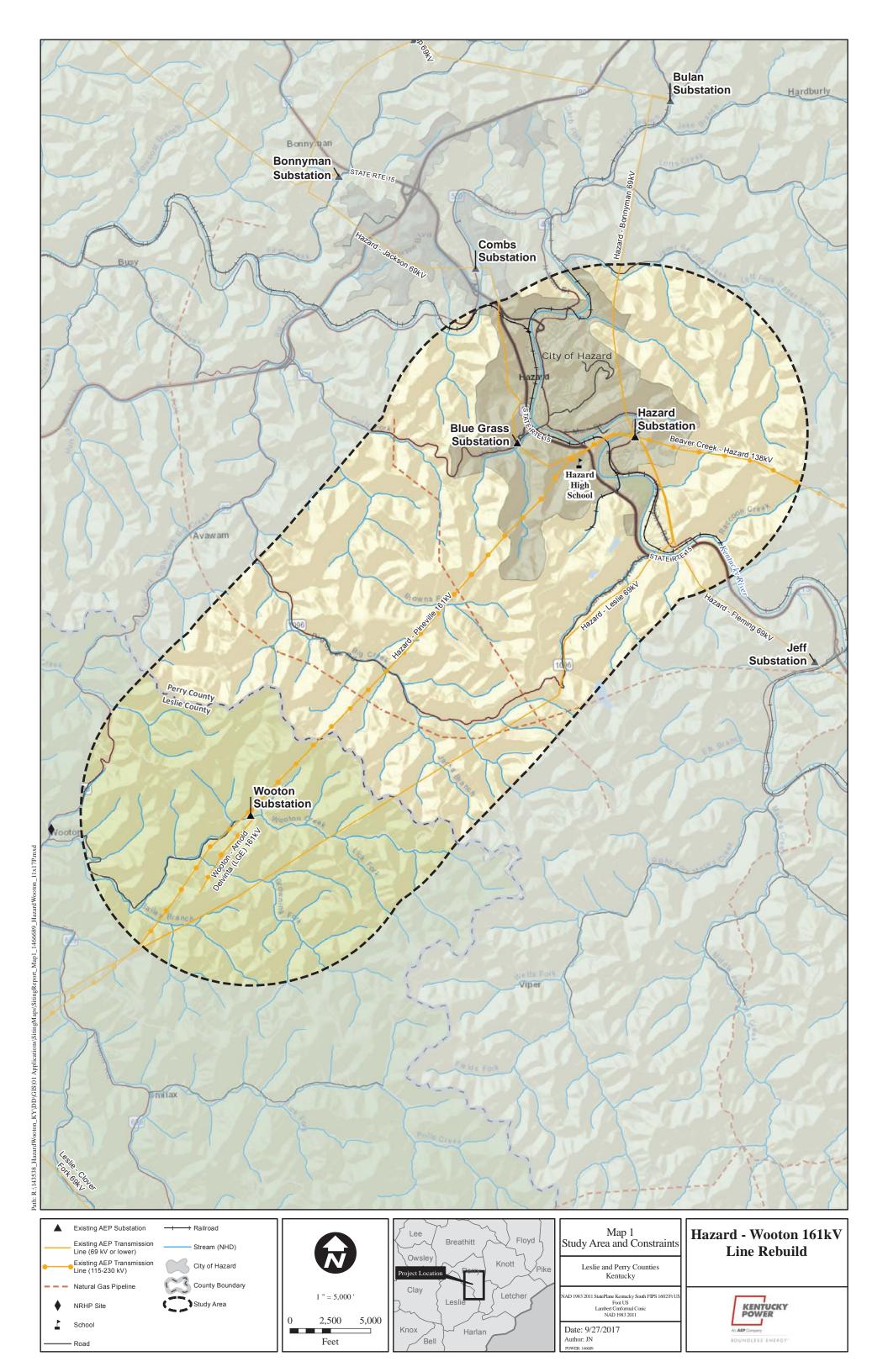
#### 3.0 RESULTS AND CONCLUSION

In assessing the suitability of using the existing Hazard-Wooton 161 kV ROW, the following activities were concluded:

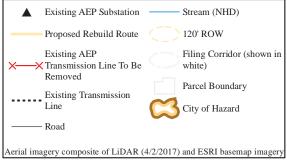
- Based on desktop and field examinations, the Company and POWER concluded that construction of the Proposed Rebuild on the existing general alignment is reasonable and the best route. The existing route is short, efficient and direct, and generally takes advantage of the terrain to maximize span lengths.
- The Company and POWER determined, based on a preliminary design, that the Proposed Rebuild would reduce the existing overall number of transmission line structures by approximately 18 structures.
- Based on field investigations, Company access road construction personnel
  concluded approximately two-thirds (12 miles of the estimated 18 miles) of the
  required access roads for the Proposed Rebuild either exist or partially exist.
  Using the existing centerline, as compared to a new greenfield route, in the
  mountainous and rugged terrain avoids a significant amount of new access roads
  and associated environmental impacts.
- Company land agents and POWER undertook field reconnaissance of the existing right-of-way and concluded the right-of-way is generally in good condition with few encroachments. The eastern end of the study area encompasses part of the City of Hazard and some residential development; however the majority of the existing right-of-way is dominated by rugged, forested mountains and gas and mineral extraction operations. There are two residences in the existing ROW off of Browns Fork Road. Residents at these locations have indicated a willingness to work with the Company.

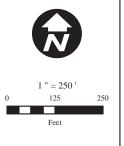
Overall, based on the Siting Team's evaluation, stakeholder input and public feedback, the Proposed Rebuild is the best option as it maximizes the use of existing ROW and is largely located on the existing centerline (Attachment 1, Map 3). Abandoning the existing right-of-way, an existing linear feature in the landscape, for a new greenfield route is neither practical nor necessary. A greenfield route would impose new impacts on people and the environment. The Company based off of this Rebuild Study concluded that construction of the Proposed Rebuild on the existing general alignment is reasonable, the best route, and consistent with public preferences and general siting guidelines for paralleling or utilizing existing rights-of-way for new or rebuilt transmission facilities. Doing so eliminated the need to examine greenfield or other alternative routes.

# **Attachment 1: Maps**











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Leslie and Perry Counties Kentucky

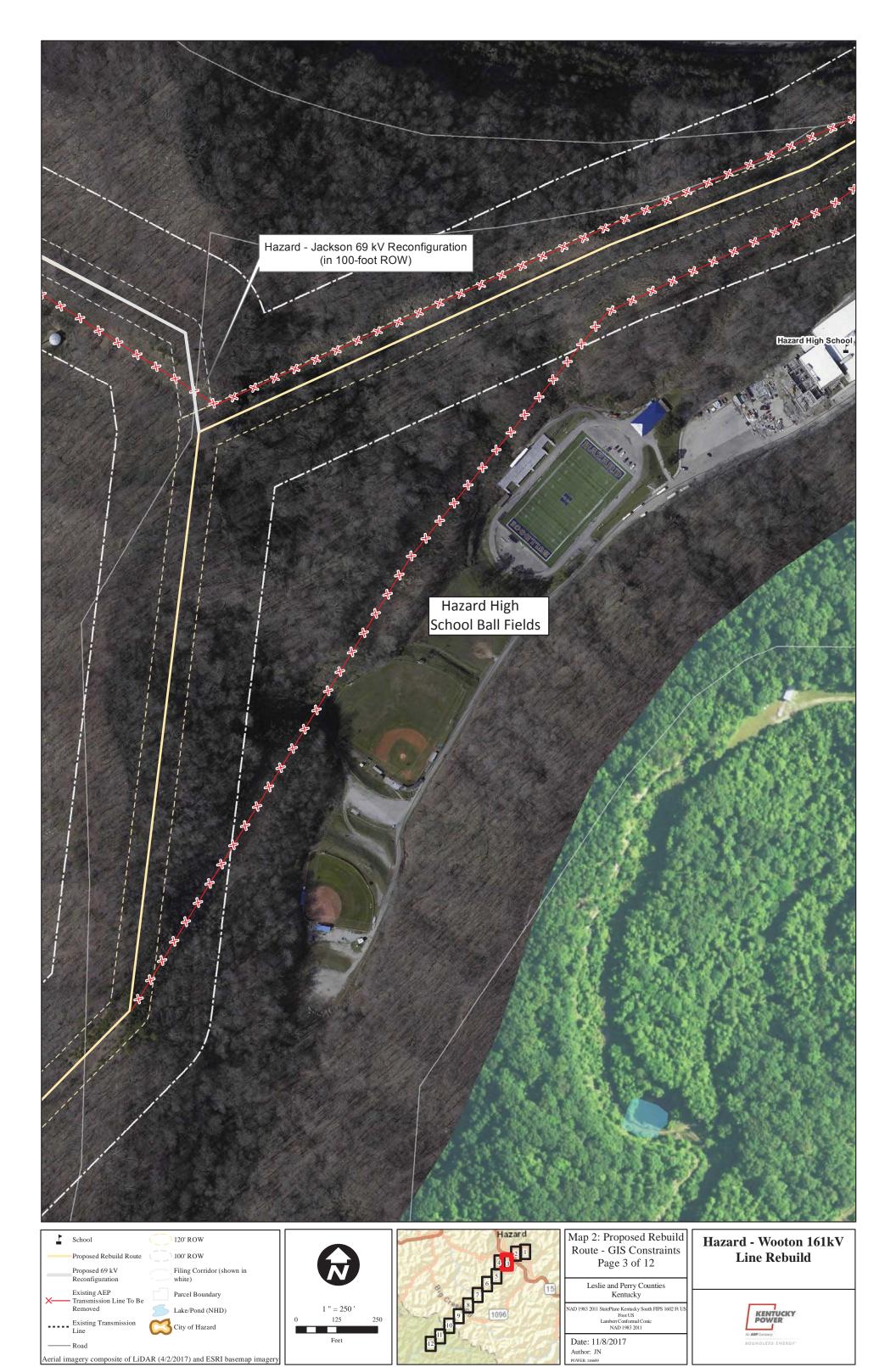
NAD 1983 2011 StatePlane Kentucky South FIPS 1602 Ft US Foot US Lambert Conformal Conic NAD 1983 2011

Date: 11/8/2017 Author: JN POWER: 146689

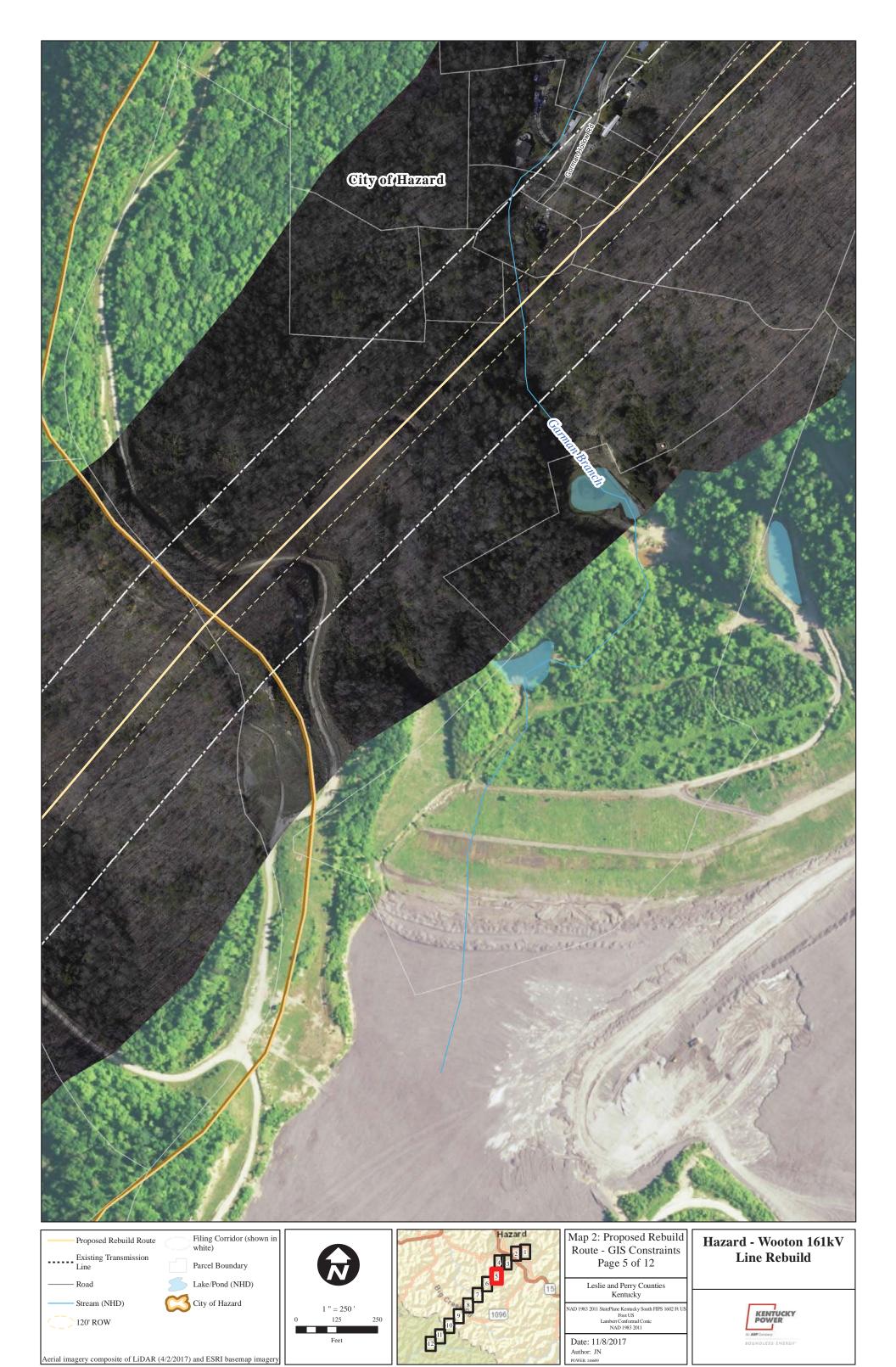
Line Rebuild

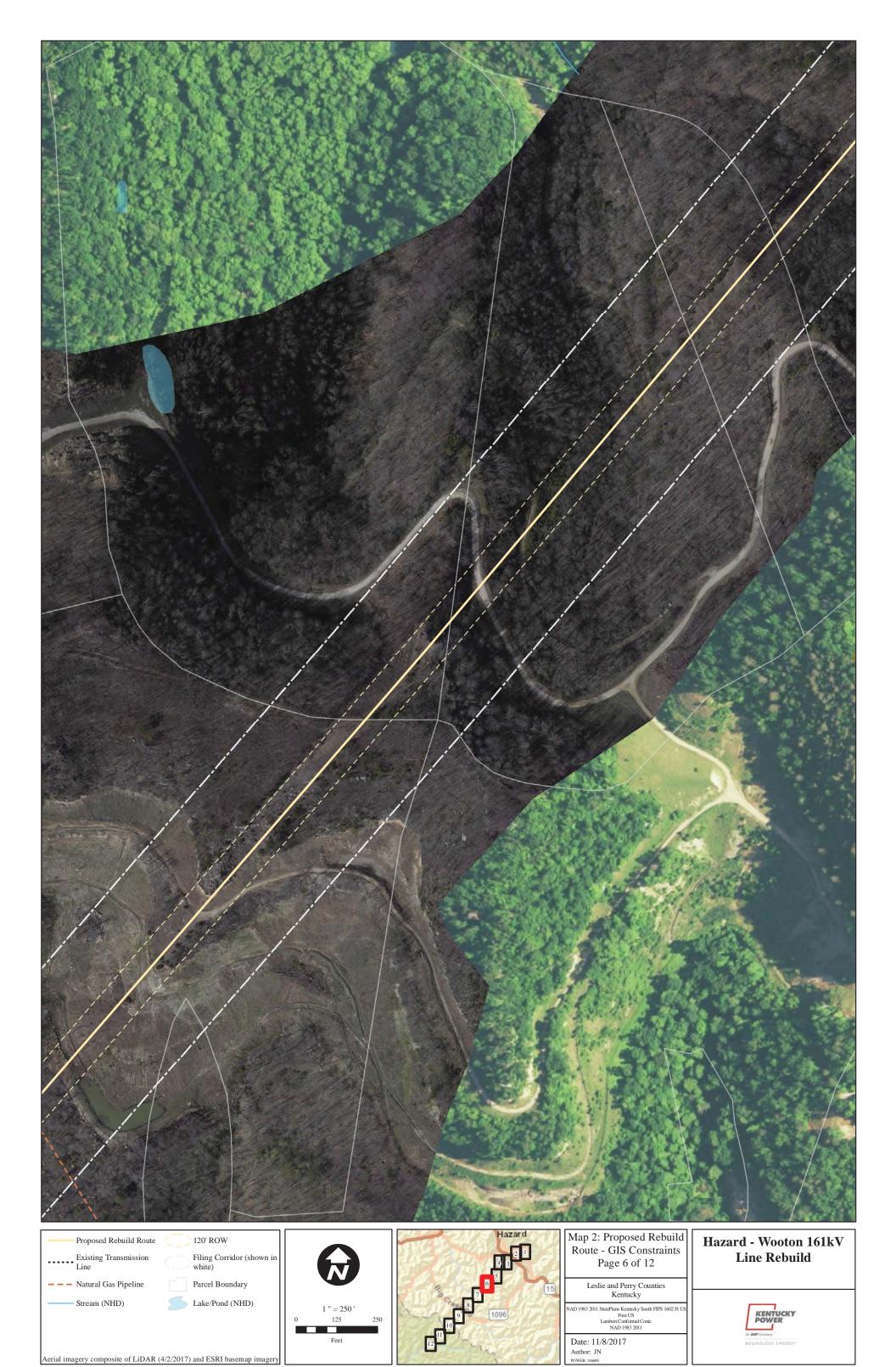








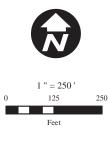








Parcel Boundary - Road Stream (NHD) Aerial imagery composite of LiDAR (4/2/2017) and ESRI basemap imagery



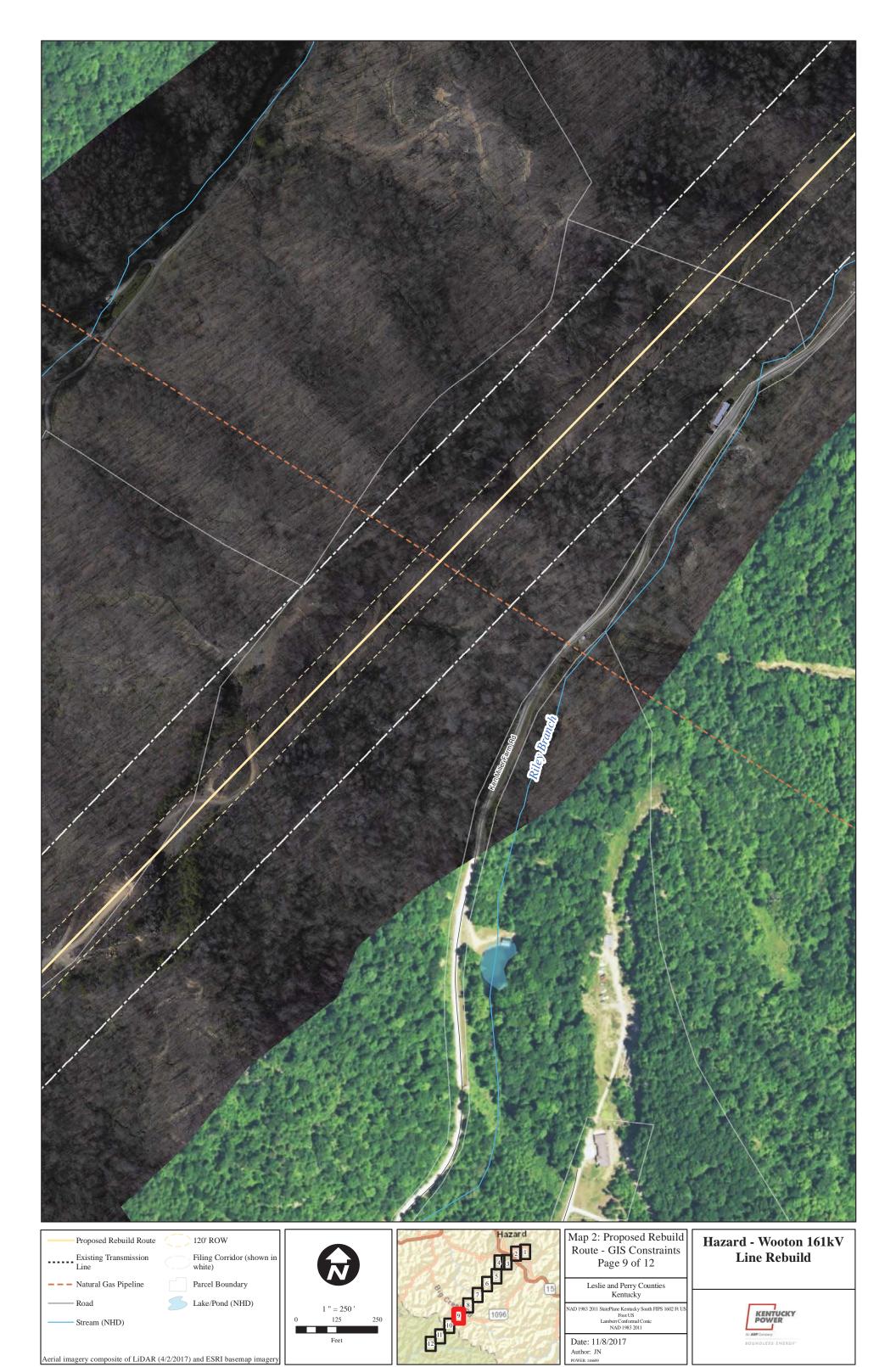


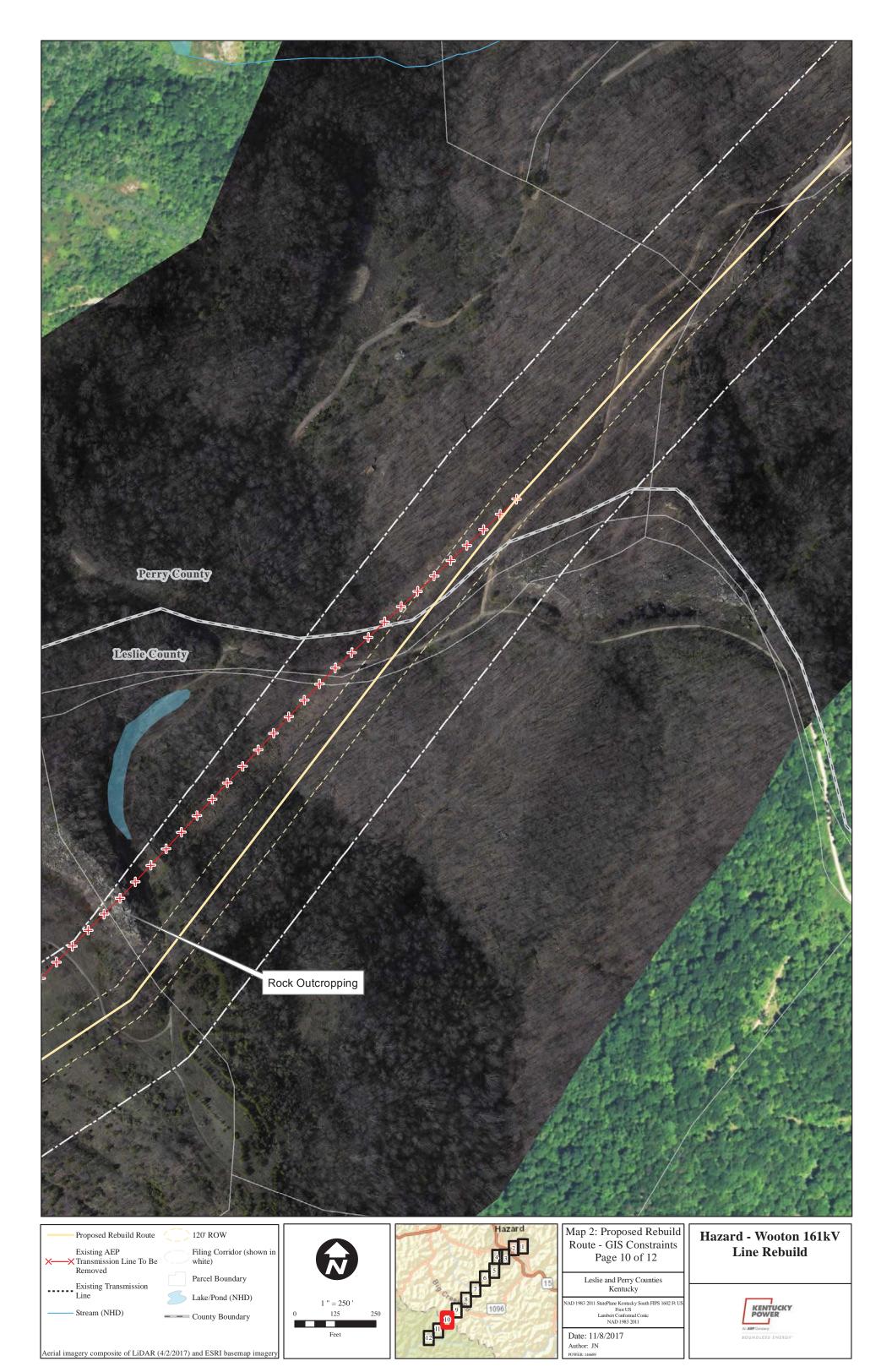
Leslie and Perry Counties Kentucky

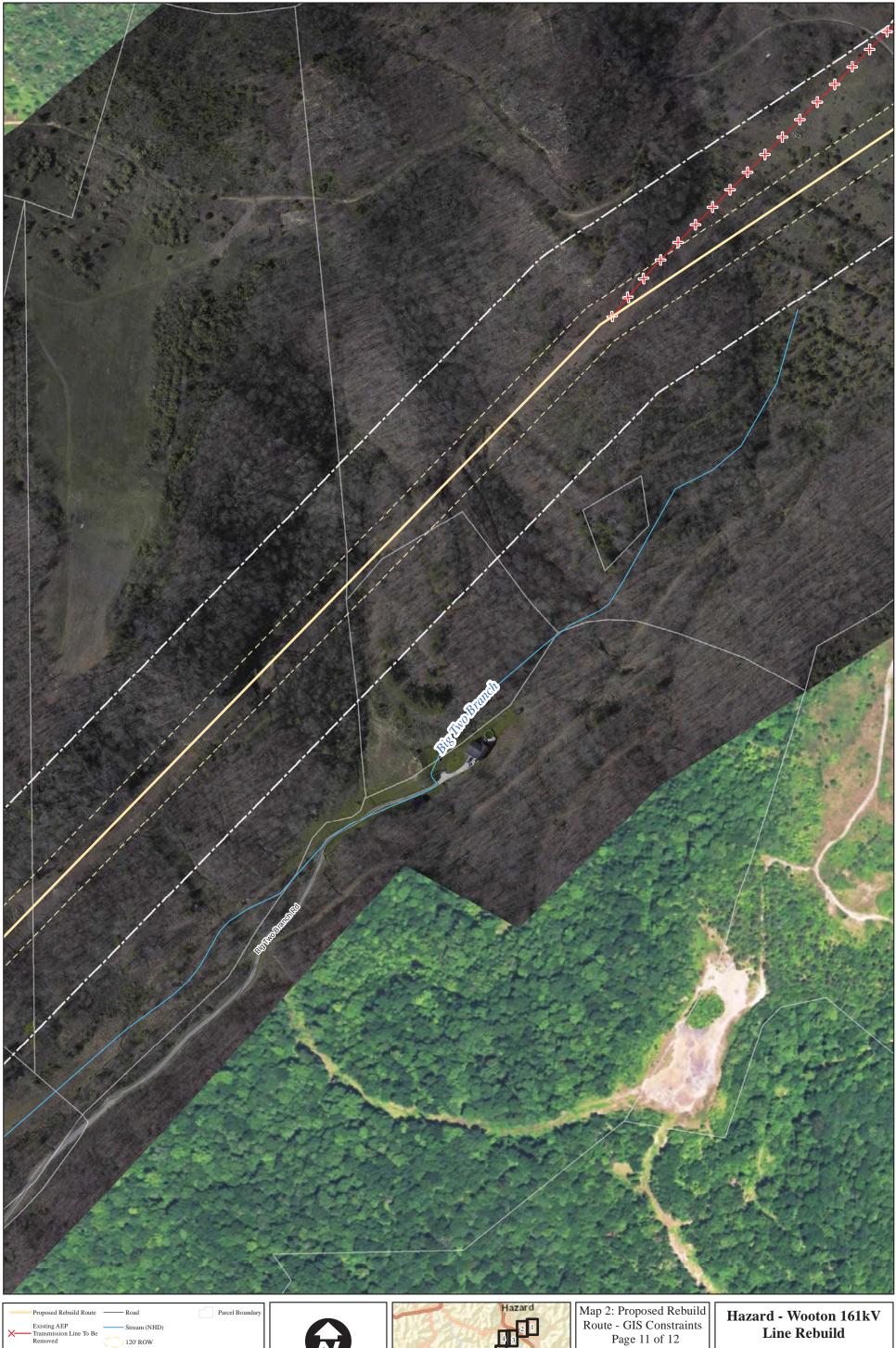
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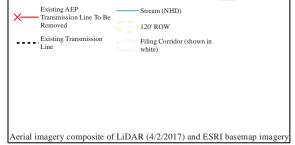
Date: 11/8/2017 Author: JN POWER: 146689















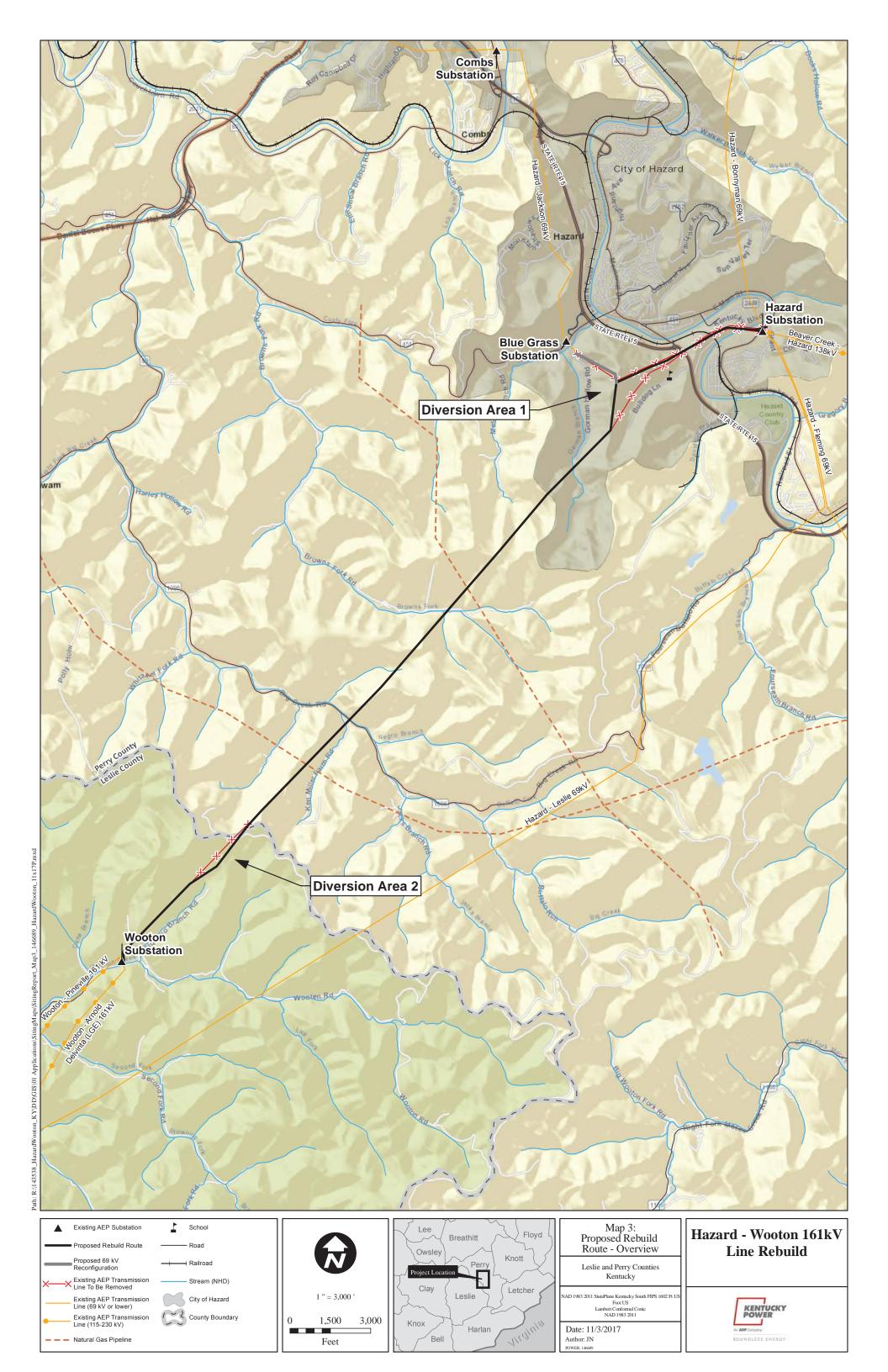
Leslie and Perry Counties Kentucky

NAD 1983 2011 StatePlane Kentucky South FIPS 1602 Ft US Foot US Lambert Conformal Conic NAD 1983 2011

Date: 11/8/2017 Author: JN POWER: 146689







# **Attachment 2: Visual Simulation**



EASTERN KENTUCKY TRANSMISSION PROGRAM HAZARD — WOOTON PROJECT LOCATION MAP EASTERN KENTUCKY TRANSMISSION PROGRAM









EASTERN KENTUCKY TRANSMISSION PROGRAM HAZARD — WOOTON PROJECT

PHOTO SIMULATION

**DATE:** 8/1/2017

**TIME:** 11:43 AM

**DIRECTION: NORTHEAST** 



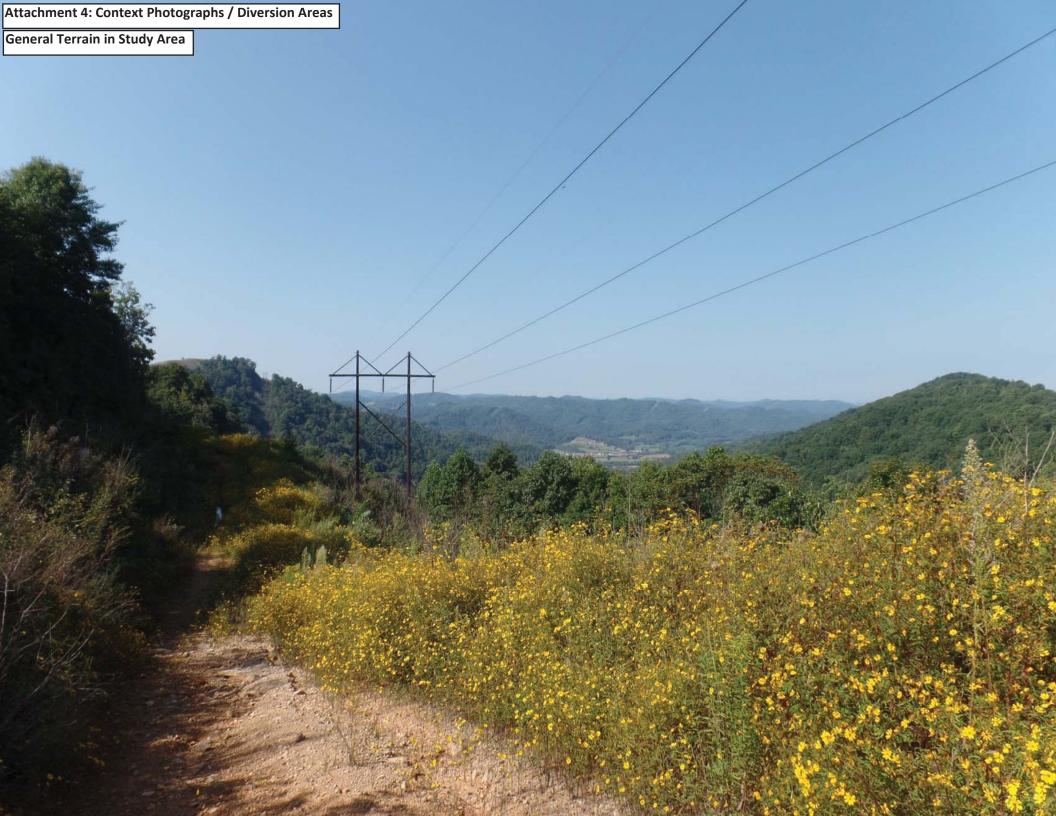


# **Attachment 3: Data Source Table**

Hazard - Wooton GIS Data Sources				
Category	Definition	Data Source		
General				
	Parcels	Perry and Leslie counties Property Valuation Administrators office		
	Residences	Digitized per ESRI aerial basemaps & checked with GoogleEarth imagery		
	National Elevation Data			
Contours	10 meter	USDA/NRCS; https://datagateway.nrcs.usda.gov/		
Basemap				
	Aerial imagery	Google Earth		
l	Aerial imagery	ESRi		
Aerial Imagery and basmapping	Aerial imagery	LiDAR flown April 2, 2017		
	Basemapping	USGS 24k Quads-Hazard South and Hayden East Quads		
Land Use Resources	1 1 5			
All land use categories	NLCD	2011 NLCD: https://datagateway.nrcs.usda.gov/GDGOrder.aspx		
	Oil & Gas Wells	http://minemaps.ky.gov/Default.aspx?Src=Downloads		
Mining	Coal Mines	http://minemaps.ky.gov/Default.aspx?Src=Downloads		
	Churches	ESRI: U.S. Geographic Names Information System		
	Cemeteries	ESRI: U.S. Geographic Names Information System		
	Schools	ESRI: U.S. Geographic Names Information System		
	Hospitals	ESRI: U.S. Geographic Names Information System		
Community Facilities & Recreation				
	Boat Launch	Geographic Names Information System Non-Populated Places: https://datagateway.nrcs.usda.gov/		
	Trails	Blue Water Trails: KY Fish & Wildlife		
	Rec Trails	Local Rec Trails: Kentucky Infrastructure Authority; ftp://ftp.kymartian.ky.gov/hls/loc rec trails.zip		
Environmental Resources				
	EPA Facility Registry			
CERCLIS	Service Facility	EPA: https://www.epa.gov/enviro/geospatial-data-download-service		
Water Resources	·			
	Streams	USGS NHD: https://datagateway.nrcs.usda.gov/		
	Waterbodies	USGS NHD: https://datagateway.nrcs.usda.gov/		
	FEMA floodplains	FEMA: https://msc.fema.gov/portal		
		US Fish Wildlife Service, Div of Habitat and Resource Conservation. Data derived from the National Wetlands		
	Wetlands	Inventory (NWI)		
	Wells	KY Geological Survey: http://kgs.uky.edu/kgsweb/main.asp#tabs-2		
	Springs	KY Geological Survey: http://kgs.uky.edu/kgsweb/main.asp#tabs-2		

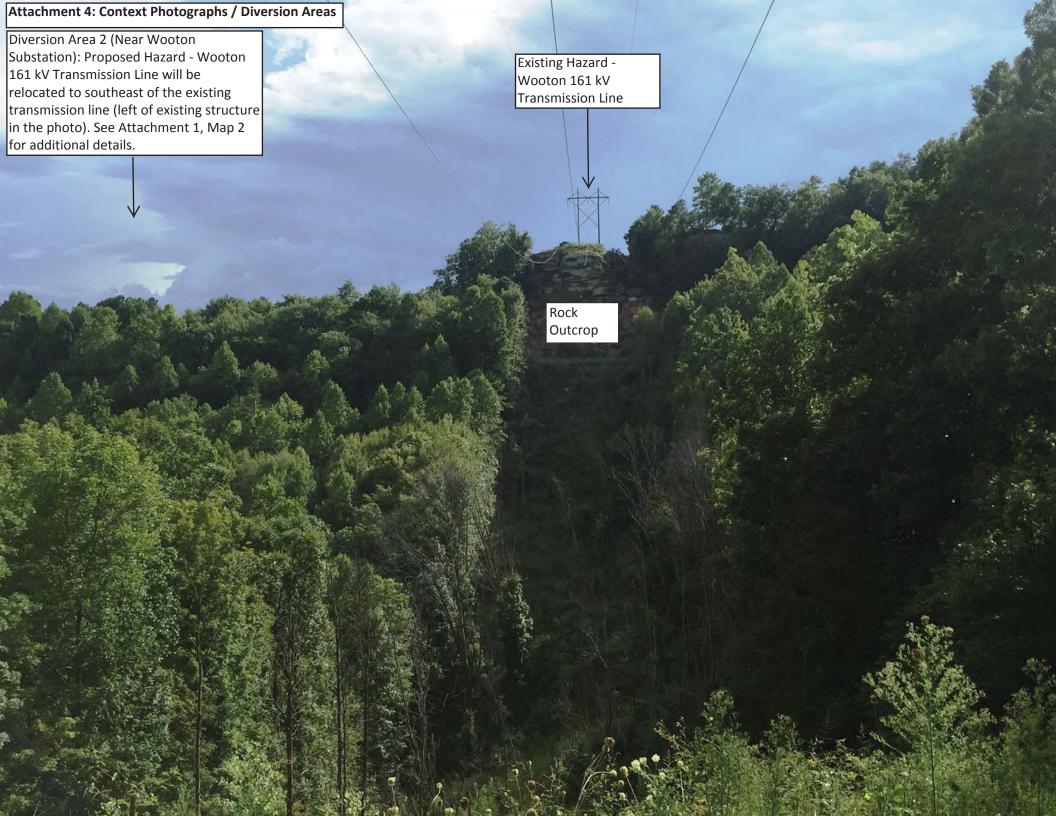
	Hazard - Wooton GIS Data Sources			
Category	Definition	Data Source		
Biological Resources				
	KSNPC Natural Heritage			
	Data	KSNPC data acquired by PEI Becky Braeutigam		
	Rare Communities,			
	Redbird Crest Trail,			
	Critical Habitat, Bat and			
	Bird Habitat	Daniel Boone Nat'l Forest; email		
Transportation Resources	2.14.1142.1141	parino poorte recer roi socy eman		
•	Local Roads	KY Geography Network: http://kygisserver.ky.gov/geoportal/catalog/search/search.page		
Roads	State Roads	KY Geography Network: http://kygisserver.ky.gov/geoportal/catalog/search/search.page		
	Railroads	KY Geography Network: http://kygisserver.ky.gov/geoportal/catalog/search/search.page		
	Airports	FAA: KY Geography Network: http://kygisserver.ky.gov/geoportal/catalog/search/search.page		
Cultural Resources	·			
	NRHP	Nat' Park Service; NRHP https://npgallery.nps.gov/nrhp/Download?path=/natreg/docs/Download.html		
Architecture	KHC Historic Resource	PEI; Kate Meehan: state of KY		
Archaeology	Archaeology data	PEI; Karen Garrard: KY Office of State Archaeology		
Utilities	•			
	Existing Substations	AEP		
	Existing T-lines	AEP		
	<b>Existing Structures</b>	AEP		
	Natural Gas Pipeline	http://minemaps.ky.gov/Default.aspx?Src=Downloads		
Geological Resources				
	Karst	Kentucky Geological Survey, University of Kentucky		
	Soils	http://www.uky.edu/KGS/gis/geology.htm		
	Populated Places	USGS: https://datagateway.nrcs.usda.gov/GDGOrder.aspx		
Jurisdiction/Land Mgt				
	Land Ownership	https://datagateway.nrcs.usda.gov/GDGOrder.aspx		
	Off-Limit WMA Areas			
	(WootonPineville project	Kentucky Department of Fish & Wildlife Resources; email		
	State Parks	KY Geography Network: http://kygisserver.ky.gov/geoportal/catalog/search/search.page		
	City Boundaries	KY Geography Network: http://kygisserver.ky.gov/geoportal/catalog/search/search.page		
	Conservation Easements	Nat'l Conservation Easement Database: http://nced.conservationregistry.org/login		

Attachment 4: Co	ntext Photographs / Diversion Areas









# **EXHIBIT 17: PUBLIC NEWS RELEASE**



## News from Kentucky Power

#### **MEDIA CONTACT:**

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www.kentuckypower.com

#### FOR IMMEDIATE RELEASE

#### KY POWER PLANS UPGRADES TO REGIONAL POWER GRID STARTING WITH \$30 MILLION

**ASHLAND, Ky., Aug. 14, 2017** – Kentucky Power on Monday announced the Eastern Kentucky Transmission Program to strengthen and upgrade the regional power grid over five to seven years to better service customers.

The first of several projects under the multi-million dollar program is a \$30 million improvement. The Hazard-Wooton Project will generate combined annual tax revenue of about \$270,000 for the city of Hazard and Perry and Leslie counties. The project includes rebuilding 7 miles of existing 161-kilovolt (kV) transmission line and making upgrades to additional transmission facilities. The work will reduce the likelihood of outages and decrease restoration times.

Other Eastern Kentucky Transmission Program projects will replace aging equipment to ensure continued reliable electric service for customers. Work will take place in Bell, Clay, Knox, Leslie and Perry counties and is expected to happen in several stages. Each project will be announced to the public prior to any field work.

"These transmission projects represent a significant investment in eastern Kentucky and will improve reliability for our customers," said Kentucky Power President and COO Matt Satterwhite. "The projects show how we are modernizing our power delivery infrastructure and supporting our commitment to provide our customers with safe and reliable electrical service."

The company will host an open house to provide details about the Hazard-Wooton project to the public and affected landowners. The open house is scheduled for Thursday, August 24 from 5:30 p.m. to 7:30 p.m., at the Hazard Community and Technical College at One Community College Drive in Hazard. Visitors may come any time during the open house to learn about project details, view maps of proposed routes and speak with company representatives.

"This open house provides customers an opportunity to be involved in our process by providing us feedback on our preliminary route," Satterwhite said.

The transmission line to be rebuilt starts at the company's substation on East Main Street and continues west through Hazard along the ridge just north of Hazard High School. The line then continues southwest out of Hazard and connects with the substation on Wooton Creek Road. The majority of the line will be rebuilt within or adjacent to existing right-of-way. Kentucky Power plans to file for a Certificate of Public Convenience and Necessity with the Kentucky Public Service Commission later this fall.

Kentucky Power, based in Ashland, provides electric service to about 168,000 customers in 20 eastern Kentucky counties. It is an operating company of American Electric Power.

# **EXHIBIT 18: THE COMPANY'S CERTIFICATE OF EXISTENCE**

# Commonwealth of Kentucky Alison Lundergan Grimes, Secretary of State

Alison Lundergan Grimes Secretary of State P. O. Box 718 Frankfort, KY 40602-0718 (502) 564-3490 http://www.sos.ky.gov

## **Certificate of Existence**

Authentication number: 195212

Visit https://app.sos.ky.gov/ftshow/certvalidate.aspx to authenticate this certificate.

I, Alison Lundergan Grimes, Secretary of State of the Commonwealth of Kentucky, do hereby certify that according to the records in the Office of the Secretary of State,

# **KENTUCKY POWER COMPANY**

is a corporation duly incorporated and existing under KRS Chapter 14A and KRS Chapter 271B, whose date of incorporation is July 21, 1919 and whose period of duration is perpetual.

I further certify that all fees and penalties owed to the Secretary of State have been paid; that Articles of Dissolution have not been filed; and that the most recent annual report required by KRS 14A.6-010 has been delivered to the Secretary of State.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 30<sup>th</sup> day of October, 2017, in the 226<sup>th</sup> year of the Commonwealth.



Alison Lundergan Grimes

Secretary of State

Commonwealth of Kentucky

195212/0028317

# **EXHIBIT 19: FILING REQUIREMENTS**

# **Filing Requirements**

<u>Citation</u>	<u>Requirement</u>	<u>Location</u>
807 KAR 5:001, Section 14(1)	Applicant And Project Information	Application ¶ 2. Generally, <i>Passim</i> .
807 KAR 5:001, Section 14(2)	Corporate Information	Application ¶ 1; Application Exhibit 18.
807 KAR 5:001, Section 14(3)	Limited Liability Company Information	Not Applicable.
807 KAR 5:001, Section 14(4)	Limited Partnership Information	Not Applicable.
807 KAR 5:001, Section 15(1)	Information Required For Certificates Of Public Convenience And Necessity To Bid On Franchises	Not Applicable.
807 KAR 5:001, Section 15(2)	Requirements of 807 KAR 5:001, Section 14	See Above.
807 KAR 5:001, Section 15(2)(a)	Facts Demonstrating The Proposed Construction Is Required By The Public Convenience And Necessity	Testimony of Michael G. Lasslo; Application ¶¶ 42-44; and Application Exhibit 15.
807 KAR 5:001, Section 15(2)(b)	Franchises And Permits.	Testimony of Emily S. Larson; Application ¶¶ 39-41.
807 KAR 5:001, Section 15(2)(c)	Proposed Route	Testimony of Ranie K. Wohnhas; Testimony of Emily S. Larson; Application ¶¶ 9-12, 17, 22-32; and Application Exhibits 1, 2, and 16.
807 KAR 5:001, Section 15(2)(c)	Description Of Construction	Testimony of Michael G. Lasslo; Application ¶¶ 9-19; and Application Exhibits 4- 11.
807 KAR 5:001, Section 15(2)(c)	Competitors	Application ¶ 44.
807 KAR 5:001, Section 15(2)(d)(1)	Map To Suitable Scale Showing Route And Neighboring Facilities	Application Exhibits 1, 2, and 16. <sup>1</sup>
807 KAR 5:001, Section 15(2)(d)(2)	Plans And Specifications	Application Exhibits 4-11. <sup>2</sup>

<sup>1</sup> The maps show a preferred centerline and are not an actual design. Kentucky Power will supplement its filing with maps certified in accordance with KRS 322.340 once the project is in service.

<sup>&</sup>lt;sup>2</sup> The structure exhibit drawings are conceptual representative sketches and not actual designs. Kentucky Power will supplement its filing with plans certified in accordance with KRS 322.340 once the project is in service.

Citation	<u>Requirement</u>	<u>Location</u>
807 KAR 5:001, Section 15(2)(e)	Manner Of Financing	Application ¶20.
807 KAR 5:001, Section 15(2)(f)	Annual Operating Expenses	Application ¶21.
807 KAR 5:001, Section 15(3)	Extensions In Ordinary Course	Not Applicable.
807 KAR 5:001, Section 15(4)	Renewal Applications	Not Applicable.
807 KAR 5:120, Section 1	Notice Of Intent Conforming To The Requirements Of 807 KAR 5:120, Section 1(2)	Filed Of Record On August 11, 2017.
807 KAR 5:120, Section 2(1)(a)	All Information Required By 807 KAR 5:001, Section 14	See 807 KAR 5:001, Section 14 Above. The Required Number Of Copies Will Be Filed.
807 KAR 5:120, Section 2(1)(b)	All Information Required By 807 KAR 5:001, Section 15(2)(a)-(c) And 807 KAR 5:001, Section 15(2)(e)-(f).	See 807 KAR 5:001, Section 15(2)(a)-(c) And 807 KAR 5:001, Section 15(2)(e)-(f) Above.
807 KAR 5:120, Section 2(2)(a)	Map Showing Centerline, Right- Of-Way, And Boundaries Of Properties Crossed By Right-Of- Way.	Application Exhibit 2.
807 KAR 5:120, Section 2(2)(b)	Sketches Of Typical Support Structures	Application Exhibits 4-9.
807 KAR 5:120, Section 2(2)(c)	Separate Map Showing Alternate Routes Considered	Testimony of Emily S. Larson; Application Exhibit 16. <sup>3</sup>
807 KAR 5:120, Section (2)(3)	Verified Statement Concerning Mailed Notice To Property Owners	Application Exhibit 12.
807 KAR 5:120, Section (2)(4)	Sample Copy Of Notices Conforming To 807 KAR 5:001, Section 120, Section (2)(3).	Application Exhibit 13.
807 KAR 5:120, Section (2)(5)	Statement Of Publication Of Notice Of Proposed Electric Transmission Line Project	Application Exhibit 14; Also Included As Part Of Exhibit 14 Is An Affidavit Of Publication.
807 KAR 5:120, Section	Copy Of Published Notice Of	Application Exhibit 14.

<sup>&</sup>lt;sup>3</sup> The Company is proposing to rebuild an existing line. To limit the impact on property owners and the viewshed, Kentucky Power concluded to rebuild approximately 80% of the line within or near the existing right-of-way. Doing so eliminated the possibility of examining alternative routes. *See* Testimony of Emily S. Larson and Exhibit 16 for a further description of the study area used in the Rebuild Study.

Citation	<u>Requirement</u>	<u>Location</u>
(2)(6)	Proposed Electric Transmission Line Project	
807 KAR 5:120, Section (2)(7)	Capital Outlay	Application ¶ 20; Testimony of Ranie K. Wohnhas.