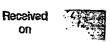
2013.05.03 13:45:15 Kansas Corporation Commission /S/ Patrice Petersen-Klein

BEFORE THE STATE CORPORATION COMMISSION

OF THE STATE OF KANSAS

DIRECT TESTIMONY



OF

MAY 0 3 2013

on

KELLY B. HARRISON

WESTAR ENERGY

by State Corporation Commission of Kansas

DOCKET NO.13-WSEE-676-MIS

1		I. INTRODUCTION
2	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
3	Α.	Kelly B. Harrison, 818 South Kansas Avenue, Topeka, Kansas
4		66612.
5	Q.	BY WHOM AND IN WHAT CAPACITY ARE YOU EMPLOYED?
6	Α.	Westar Energy, Inc. (Westar). I am Vice President, Transmission.
7		I am responsible for transmission line and substation planning,
8		engineering, construction, and maintenance.
9	Q.	PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND
10		AND PROFESSIONAL EXPERIENCE.
11	Α.	I received a B.S. Degree in Electrical Engineering in 1981, a M.S.
12		Degree in Engineering Management Science in 1985 and a M.B.A.
13		in 1994, all from Wichita State University. Following my graduation
14		in 1981, I began work at Kansas Gas and Electric Company

(KG&E) as an engineer in the System Planning department. I held 1 2 various engineering positions until 1987 when I was promoted to 3 Supervisor of Planning and Forecasting in the Rate department. I was promoted to Manager of Planning and Forecasting in 1988, 4 5 and I remained in that position after the acquisition of KG&E by The Kansas Power and Light Company (now Westar) in March 1992. 6 7 From March 1992 until October 1999, I held various positions in the 8 Regulatory Affairs department. In October 1999, I became Senior 9 Director, Restructuring and Rates. In 2001, I was named Executive 10 Director, then Vice President, Regulatory in December 2001. In 11 March 2006, I became Vice President, Transmission Operations 12 and Environmental Services. I assumed my current responsibilities in August 2011. 13

14 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. I will provide an overview of the filing and will discuss the need for
and benefits that will result from the proposed transmission project.
I also describe the basics of the process used by Westar to
determine the preferred route for the proposed line.

19 II. OVERVIEW OF FILING

20 Q. WHAT IS THE PURPOSE OF THIS FILING?

A. This application seeks Commission approval for Westar to site and
 construct a new 345 kV transmission line from Westar's Summit
 Substation, located southeast of Salina, to a connection point near

Justice Road in Ottawa County (the Elm Creek to Summit Line). This connection point will serve as the interface to a line to be constructed by ITC Great Plains, LLC (ITC). ITC's portion of the line will terminate in its Elm Creek substation southeast of Concordia.

6 The filing substantiates the need for the line and details the 7 extensive siting process that was used to select a preferred route. 8 The filing includes testimony and exhibits that: 1) describe the 9 preferred route for the line, 2) list all affected landowners whose 10 land would be crossed by the Westar portion of the preferred route 11 or whose land lies within 1000 feet of the centerline of the Westar portion of the preferred route, 3) summarize the environmental 12 characteristics of the areas studied for siting the Westar portion of 13 14 the line; and 4) explain the benefits of the proposed line to Kansas 15 electric customers, electric customers in the region, and economic 16 development within Kansas.

17Q.IS THE LINE FOR WHICH WESTAR SEEKS SITING AUTHORITY18INTEGRAL TO WESTAR'S PROVISION OF ELECTRIC SERVICE19IN KANSAS?

A. Yes, in at least two important ways. First, Westar's witnesses
 demonstrate the benefits and enhanced reliability from this new line
 for Westar's retail and wholesale customers in Kansas, for other
 Kansas electric utilities and their customers, and for the entire

Southwest Power Pool (SPP) region. The proposed line will also
 complete an important link in SPP's long-range plan to strengthen
 the transmission grid from Oklahoma to Nebraska.

Second, constructing this line is consistent with Westar's business plan of being a basic Kansas electric utility. Westar is capable of financing, engineering, constructing and maintaining this and other major new expansions of the transmission grid. Such investment opportunities in new transmission lines traversing our service territory are essential for Westar to succeed in its business strategy of modest growth and moderate returns.

11Q.PLEASE DESCRIBE THE BENEFITS THAT WILL BE REALIZED12AS A RESULT OF WESTAR'S COMPLETION OF THIS LINE.

13 Α. Under certain contingencies, the voltage in the Concordia area 14 cannot be supported on the existing infrastructure. This condition 15 limits load growth, and thus economic growth. While providing a 16 remedy for this issue, the line will contribute to a stronger, more 17 robust transmission grid, with Kansans and the entire region 18 benefiting from increased reliability. Further, construction of the 19 Elm Creek to Summit line will provide for more efficient use of 20 existing generation resources and reduce line losses.

The economic development organization that serves Cloud
 County and Concordia – CloudCorp – has indicated that it fully
 supports Westar's construction of the Elm Creek to Summit line and

believes that the line will help to support economic development in
 the area. A letter from CloudCorp indicating its support and
 discussing these benefits is attached hereto as Exhibit KBH-1.

4 Q. HOW MUCH WILL IT COST TO CONSTRUCT THE NEW LINE?

5 Α. We currently estimate that it will cost approximately \$66 million to 6 construct Westar's portion of the line and required substation 7 upgrades. This is a detailed estimate that could change after we 8 have an approved route and as we move toward final design of the 9 line. The cost to construct the line will be affected by numerous 10 factors. Among the items that will affect construction costs are 11 changes to the proposed route; changes in prices of metals such as 12 copper, nickel, steel, and aluminum that affect the cost of poles, 13 wire, and other components of the line; changes in labor costs as 14 the demand for workers with the necessary skills to construct 15 transmission facilities increases; structure design; and the ultimate 16 cost to acquire necessary rights-of-way.

17 Q. HOW WILL THE COST OF THE LINE BE RECOVERED?

A. Because the line has been approved by the SPP as a base plan project, all of the costs associated with the project will be allocated regionally across the SPP's eight state footprint on a load-ratio share basis under the highway-byway allocation method. Westar witness Dennis Reed will further discuss how the cost of the line will be recovered.

1 Q. WHEN DOES WESTAR EXPECT THE LINE TO BE IN SERVICE?

A. We expect both segments of the line to be completed and in
service by the end of 2016.

4 Q. WILL WESTAR PRESENT OTHER TESTIMONY IN THIS CASE?

- 5 A. In addition to my testimony, Westar is submitting testimony from the
- 6 following witnesses:
- 7Dennis Reed discussing the method through which8Westar's costs for building the proposed line will be9recovered and charged to customers; and
- 10Salvatore Falcone discussing the preferred route for the11line and the siting process that was used to select the route.

Westar understands that the SPP will be submitting testimony in support of Westar's application within a few days of Westar's filing with the Commission. In that testimony, SPP will present the results of the benefit-cost analysis it conducted when deciding whether to authorize construction of the project for which Westar is requesting siting approval.

18 III. DESCRIPTION OF THE PROPOSED PROJECT

19Q.DESCRIBE THE PROJECT AND ROUTE PROPOSED BY20WESTAR IN THIS DOCKET.

A. Westar is proposing to construct the south half of an SPP project
known as the Elm Creek to Summit 345 kV line. This line is to be a
single circuit 345 kV line from Westar's Summit Substation to an
interconnect point near Justice Road in central Ottawa County
where it will connect with a new 345 kV line to be constructed by

1ITC. Westar's project will also involve the addition of 345 kV2facilities at Westar's Summit Substation. Figure 1 is a map3depicting the approximate location of the proposed line.



Figure 1

6 The preferred route selected by Westar for its portion of the 7 line runs through Saline and Ottawa Counties and is approximately 8 28.5 miles long. Mr. Falcone will describe the proposed route in 9 greater detail in his testimony.

4

5

10 The interconnection point for the ITC and Westar segments 11 of the Elm Creek to Summit line was established as approximately 12 one half of the total line mileage. Westar and ITC worked together 13 in conjunction with Black & Veatch (B&V) during the routing study 14 process to establish the agreed upon interconnection point. All 15 affected landowners within this area have been notified of the

planned construction and had the opportunity to attend the open
 houses and provide comments.

3Q.PLEASE DESCRIBE HOW THE ELM CREEK TO SUMMIT4PROJECT WAS IDENTIFIED AS A TRANSMISSION PROJECT.

5 Α. The Integrated Transmission Plan (ITP) is SPP's approach to 6 planning transmission needed to maintain reliability, provide 7 economic benefits, and achieve public policy goals to the SPP 8 region in both the near and long-term. The ITP enables SPP and 9 its stakeholders to facilitate the development of a robust 10 transmission grid that provides regional customers improved 11 access to the SPP region's diverse resources. Development of the 12 ITP is driven by planning principles developed by the Synergistic 13 Planning Project Team (SPPT), a team that I served on, including 14 the need to develop a transmission backbone large enough in both 15 scale and geography to provide flexibility to meet SPP's future 16 needs.

17 The first phase of the ITP study process was completed with 18 the SPP Board of Directors' acceptance of the 2010 ITP 20-year 19 (ITP20) Report on January 25, 2011. A group of Network Upgrade 20 projects, including the Elm Creek to Summit project, was 21 subsequently approved by the SPP Board of Directors as part of 2012 22 Integrated Transmission Planning 10-Year (ITP10) 23 Assessment on January 31, 2012.

1		The study process for this ITP10 utilized a diverse array of
2		power system and economic analysis tools to evaluate the need for
3		100 kV and above facility projects that satisfy needs such as:
4		a) resolving potential criteria violations;
5		b) mitigating known or foreseen congestion;
6		c) improving access to markets;
7		d) staging transmission expansion; and
8		e) improving interconnections.
9		This process provided a recommended portfolio including
10		projects ranging from comprehensive regional solutions to local
11		reliability upgrades to address the expected reliability, economic,
12		and policy needs of the studied 10-year horizon.
13		SPP designated the Elm Creek to Summit project as a base
14		plan project needed to address voltage collapse in the Concordia
15		area under contingency conditions.
16	Q.	HAS SPP ISSUED NOTIFICATIONS TO CONSTRUCT (NTCS)
17		WESTAR'S PROPOSED PROJECT?
18	A.	Yes. On April 9, 2012, SPP issued NTCs for this project to Westar
19		and ITC conditioned on not ordering materials or beginning
20		construction until the submittal to SPP of a refined project cost
21		estimate (CPE). The refined CPE was required to have a variance
22		bandwidth of \pm 20% not exceeding the Study Estimate variance
23		bandwidth of \pm 30%. Westar and ITC could only proceed under the

NTC if the refined CPE was within this variance bandwidth or if the
 SPP Board of Directors reevaluated the project if the CPE
 exceeded the Study Estimate variance bandwidth. A copy of this
 initial NTC received by Westar is attached as Exhibit KBH-2,
 Sheets 1 through 3 with our response accepting the NTC attached
 as Exhibit KBH-2, Sheet 4.

Q. HOW DID WESTAR ARRIVE AT THE REFINED PROJECT COST
8 ESTIMATE?

9 Α. In order to refine the project cost estimate, Westar choose to 10 proceed with a routing study to determine a preferred route, thus 11 reducing the risks associated with routing uncertainty. In 12 conjunction with ITC, Westar engaged Black & Veatch to perform 13 this study. This routing study resulted in the preferred route for 14 which we are requesting a siting permit in this docket. That 15 preferred route was used to produce our CPE.

16 Q. WAS WESTAR'S CPE WITHIN THE SPP ALLOWED VARIANCE

17BANDWIDTH TO RELEASE THIS PROJECT FOR18CONSTRUCTION?

19 A. Yes. Westar's CPE was within the variance required by SPP.

20 Q. HAS SPP REMOVED THE CONDITIONS PLACED ON THE NTC?

A. Yes. SPP removed the conditions placed on the NTC by re-issuing
the NTC on March 21, 2013, a copy of which is attached as Exhibit
KBH-2, Sheets 5 through 7.

1

IV. ROUTING STUDY

2 Q. PLEASE DESCRIBE THE PROCESS USED TO SELECT THE 3 PREFERRED ROUTE FOR THE LINE.

4 Α. The first step was to assemble an internal project team that 5 consists of Westar employees from Real Estate Services, 6 Transmission Planning, Transmission Construction, Major Project 7 Construction, Substation Engineering, Environmental, Public 8 Affairs, Regulatory, and Legal. With a goal of minimizing impacts to 9 landowners, residents, and the environment we engaged the 10 consulting firm of Black & Veatch to assist us with the transmission 11 line siting process. Mr. Falcone's testimony describes the routing 12 study process used to determine the preferred route.

13Q.WHAT OBJECTIVES DID WESTAR PURSUE IN CHOOSING14PRELIMINARY ALTERNATIVE ROUTES FOR THE PROPOSED15TRANSMISSION LINE?

A. The objective of the routing analysis was to identify routes that
connect Summit and Elm Creek Substations. Routes were
developed that offered the most benefits in terms of providing
reliable electric power transmission and also minimized adverse
impacts to the social and natural environment. The major concerns
during the development of routes were to:

22 1) Maximize the distance of the line from existing
23 homes, businesses and public buildings,

- 12)Maintain reliable electric service by developing2realistic and feasible routes,
- 3 3) Minimize overall environmental impacts by
 4 maximizing the use of existing road and transmission
 5 line rights-of-way,
- 6 4) Minimize, to the extent practicable, diagonal routes 7 across tilled agricultural fields,
- 8 5) Avoid impacts to private airstrips in the project area,
- 9 6) Avoid impacts to any existing center-pivot irrigation 10 system by locating the lines along the tangent of the 11 system's arc,
- 12 7) Avoid crossing directly over oil wells, water wells and13 oil storage tanks, and
- 148)Minimize potential impacts to wetlands and other15environmentally sensitive areas, threatened and16endangered species and lesser prairie chicken17habitat.

18 Q. WAS WESTAR ABLE TO IDENTIFY A ROUTE THAT AVOIDED 19 ALL IMPACTS?

A. It was not possible to find a route that avoided all impacts. Some of
 the alternatives were located along existing transmission line
 corridors to minimize impacts to the local environment as much as
 possible. In some cases, residences that are near the existing

1 transmission lines may be closer to the new right-of-way, though it 2 may be possible to adjust the route slightly to increase the distance 3 from the homes when the line is surveyed and designed. Routes along new rights-of-way sometimes offer more flexibility to avoid 4 5 homes than routes along existing lines. However, routes 6 significantly removed from the direct path between the two end 7 points of each line, or routes that zigzag through the area, were not 8 considered to be feasible because of the significant cost resulting 9 from the extra length and greater overall impacts.

10 Q. HOW WERE LANDOWNERS INFORMED OF WESTAR'S INTENT 11 TO CONSTRUCT A NEW LINE?

12 Α. Once the potential routes were finalized, we used property 13 ownership data from each county to identify the landowners within 14 1000 feet of the centerline of each of the potential routes. The 15 potential routes were located in Ottawa and Saline counties in 16 north-central Kansas. Black & Veatch obtained digital property 17 ownership data for all property owners who own property located 18 within 1,000 feet of the proposed routes from Ottawa and Saline 19 counties. To confirm we were using the most recent data, Westar 20 confirmed these digital property lists with both counties' on-line 21 data.

Using information gathered in this manner, we sent a letter to each landowner to advise him/her that Westar was proposing to

construct a new high-voltage line near his/her property and inviting
each of them to the open houses. We identified the dates, times
and locations of the December open houses in the letter. Westar
also issued news releases to area media outlets prior to the open
houses. Copies of the form invitation letter and news releases are
shown in Exhibit KBH-3, Sheets 1 through 3.

7 The preliminary alternate routes were shown to the public by 8 Westar at three open house meetings in early December 2012 in 9 order to gather additional input from area landowners. Open 10 houses were held in Miltonvale, Bennington, and Salina on 11 December 4, 5, and 6, 2012, respectively. At each open house, 12 Westar representatives provided information on the purpose and 13 need for the project and routing alternatives (shown on aerial 14 photographs and maps of the project area). We also provided 15 information on the design and construction of the project, typical 16 land requirements for the new line, and the process Westar will use 17 to obtain easements. During these public meetings, Westar and 18 Black & Veatch made notations to the maps and photos with 19 information provided by the area landowners for consideration 20 during the route selection process.

At the open houses, Westar representatives also handed out
project fact sheets and questionnaires included as Exhibit KBH-3,
Sheets 4 through 7. Participants were encouraged to complete the

1 questionnaires and turn them in before leaving the open house or 2 to mail them in at a later date. Some people who were unable to 3 attend the open houses later called Westar and requested 4 information or provided comments. These individuals were 5 provided information as requested. A total of 133 responses were 6 received from those who attended the open houses or requested 7 individual information. A detailed summary of the guestionnaire 8 results is presented as part of Exhibit KBH-3, Sheets 8 through 23.

9 Q. HOW WIDE WILL THE RIGHT-OF-WAY BE FOR THE 10 PROPOSED LINE?

11 Α. The nominal width of the right-of-way will be 150 feet. However, 12 the right-of-way could be more or less in specific areas depending 13 on span length, conductor sag and wind characteristics. Where the 14 proposed line is adjacent to a road, the structures would be offset 15 from the road's centerline, thus reducing the width of the line right-16 of-way by the distance from the edge of the road right-of-way to the 17 road's centerline. In this case, the structures would be placed so 18 that the centerline of the structures is located behind the edge of 19 the road right-of-way.

20Q.WILL LANDOWNERS BE ABLE TO USE THE LAND ON WHICH21THE LINE WILL BE CONSTRUCTED?

A. Yes. Landowners will be able to use the line right-of-way for any
agricultural purpose that does not interfere with use of the line at its

1 full rated capacity. However, landowners will not be permitted to 2 conduct business in the right-of-way that would be hazardous to the 3 landowner, the line, or the general public (such as a pipe storage 4 yard or tree farm). No foreign structures or buildings will be 5 permitted in any part of the right-of-way. Trees and brush in the 6 right-of-way will be trimmed or removed. Herbicides will be used to 7 control the re-growth of woody vegetation in the right-of-way except 8 in the case of certified organic farms or similar situations.

9 Q. WILL WESTAR OBTAIN EASEMENTS FOR THE RIGHT-OF-10 WAY ON WHICH THE LINE WILL BE CONSTRUCTED?

A. Yes. Easements will be obtained from landowners prior to
 construction of the proposed line. Landowners will also be
 compensated for all damages including crop losses that are directly
 attributable to construction of the proposed line.

15Q.HAS WESTAR TAKEN STEPS TO MINIMIZE EXPOSURE TO16ELECTROMAGNETIC FIELDS?

A. Yes. Westar took the electromagnetic field produced by operation of the line into consideration when establishing its route siting criteria. Westar does not consider electromagnetic fields to be a health threat based on published information. However, Westar has adopted a prudent avoidance approach to the siting of all electric facilities. This approach is characterized by the siting of transmission facilities in a manner that minimizes exposure to

electromagnetic fields. A minimum horizontal clearance distance of
 50 feet from the closest phase of the line to existing dwellings will
 be maintained wherever possible.

4 Q. HOW WILL WESTAR MITIGATE THE EFFECT OF THE 5 ELECTRIC AND MAGNETIC FIELDS PRODUCED BY THE 6 PROPOSED LINE?

7 Α. Non-electric wire fence within 150 feet of the center of the line right-8 of-way will be grounded at intervals to limit the electromagnetically 9 induced level of static charges to a safe level. Wire fences that 10 cross the line route will be grounded at both edges of the right-of-11 way. Electric fences will be grounded where necessary with the 12 addition of a 60 Hz series filter at each grounding location. 13 Permanently installed metallic objects within 150 feet of the outside 14 phase conductor of the line will be grounded. Conductor minimum 15 ground clearance will be chosen to limit induced voltage in 16 ungrounded metallic objects (such as a vehicle parked near the 17 line) to a value that keeps induced current to less than 5 milli-18 amperes.

19 Q. PLEASE DESCRIBE WHAT WESTAR HAS DONE TO MINIMIZE 20 THE ENVIRONMENTAL IMPACT OF THE LINE?

A. Westar has a stated objective to minimize adverse social and
environmental impacts of the line. To accomplish this objective,
Westar avoided all major environmental constraints and utilized

criteria to select the line's route that by design prevent or minimize
social and environmental impacts. Westar has followed and will
continue to adhere to the recommendations given by state and
federal agencies for procedures that protect the biological, cultural,
and historical resources for the areas traversed by the line.

V. TRANSMISSION LINE AND SUBSTATION DESIGN
Q. HOW WILL THE NEW 345 KV TRANSMISSION LINE BE
DESIGNED?

9 Α. Detailed design work for the proposed line has not yet been done. 10 but we can describe designs that are typical for a line of this type. 11 The proposed line will be constructed using steel tubular structures. 12 striving to minimize the impact on agricultural land use. The 13 structures would be spaced approximately 600 to 1200 feet apart. 14 Tangent structures would likely be directly embedded using a 15 crushed rock backfill. Some structures will require placement on 16 concrete pier foundations. The minimum ground clearance for the 17 345 kV circuit will be above that required by the National Electric 18 Safety Code. Drawings of typical H-frame and single pole 19 structures are provided in Exhibit KBH-4, Sheets 1 through 4. The 20 height of these structures will vary depending on span length, 21 required clearances, and local terrain, but will typically range 22 between 80 and 160 feet.

1In response to landowner feedback, Westar proposes to2construct the 6.88 mile section of the line which parallels the3existing Jeffrey Energy Center to Summit Substation 345 kV4transmission line, in a double circuit configuration. The existing line5would be removed upon completion of the new line.

6 The proposed line will be constructed using 1590 KCM-7 ACSR 45/7 (Code Name "Lapwing"), aluminum, steel-reinforced 8 conductors. This conductor is composed of 45 strands of aluminum 9 wrapped around 7 steel strands. This line will utilize a two-10 conductor bundle for each of the three phases. The diameter of 11 each conductor comprising the two-conductor bundle will be 1.502 12 inches. The two conductors in each bundle will be approximately 13 18 inches apart and will be arranged in a horizontal bundle. In a 14 conductor of this type, the aluminum strands carry the load current; 15 the mechanical strength to support the conductors is provided by 16 the steel core. Non-ceramic suspension insulators will be used to 17 suspend the bundled phase conductors.

18 The line will be protected from lightning by overhead ground 19 wires strung at the uppermost extremity of the supporting 20 structures. One shield wire will be comprised of ten strands of 21 aluminum-coated steel (alumoweld) wire wrapped around a 22 centrally located aluminum alloy pipe that contains a number of

optical fibers. The optical fibers will be used as a communications
 medium for line protective relaying and for internal communications.

Q. PLEASE DESCRIBE THE DESIGN OF THE SUBSTATION 4 EQUIPMENT FOR THIS PROJECT.

5 Α. At Summit Substation, the 345 kV bus will be modified to a breaker 6 and one-half design and a terminal, with shunt reactor facilities, will 7 be added for the proposed line to Elm Creek Substation. Currently, 8 345 kV lines from Jeffery Energy Center Substation and Reno 9 County Substation are terminated into the 345 kV bus at Summit 10 Substation. An existing 345 to 230 kV transformer connects the 11 345 kV bus to the 230 kV bus at Summit Substation. Future 12 identified SPP projects at Summit Substation are to install a 345 to 13 115 kV transformer and to construct a 345 kV line to the Post Rock 14 Substation near Hays. At the conclusion of this project, three 345 15 kV lines and the existing transformer will be connected to the 345 16 kV bus at Summit Substation. Summit Substation will contain the 17 appropriate interconnection metering in accordance with standard 18 SPP protocols.

19

VI. CONCLUSION

20 Q. DO YOU HAVE ANY CONCLUDING COMMENTS?

A. Yes. The Commission should grant Westar a siting permit for the
 proposed line. Westar's analysis demonstrates that: 1) the line will
 provide substantial economic benefits to Kansas electric customers

1and the SPP region and will support economic development in2Kansas; 2) the SPP has authorized construction of the line; 3) ITC3supports and is committed to the construction of its portion of the4line; and 4) the siting process Westar used was reasonable and5appropriate.

6 Q. THANK YOU.

CloudCOIP Cloud County Development Corporation

Board of Directors

Lowell Thoman President

Tim Parker Vice President

Marsha Wentz Secretary

Robert Steimel Treasurer

Dana Brewer

Dave Clemons

Jim Coash

Johnita Crawford

Phil Gilliland

John Herbin

Sheri Kindel

Terry Koch

Kurt Kocher

Rick Limon

Tammy Marrs

Dallas Nading

Roger Nelson

Nels Noel

Greg Peltier

Jon Puckett

Ben Retter

Dan Stehlik

Phil Sudduth

Loren Swenson

Charles Wilson

Staff Ashley McMillan Executive Director

Donna J. Barrett Administrative Assistant April 25, 2013

Mark Ruelle CEO Westar Energy PO Box 889 Topeka, Kansas 66601

Dear Mr. Ruelle:

CloudCorp desires to express our support for the Elm Creek to Summit 345 kV Transmission Line project proposed by Westar Energy.

The United States has some of the best wind resources in the world, making it possible to obtain a sizable portion of our energy from a clean, domestic resource. However, there are thousands of megawatts of projects stranded in development that cannot be built due to insufficient transmission infrastructure. The challenge lies in connecting abundant, low-cost, renewable resources to communities that need the power with an efficient transmission solution.

Westar is developing projects to address this challenge. The Elm Creek to Summit Line will create many temporary jobs and will allow for the expansion of industrial, commercial, and residential loads in the Cloud County area by alleviating a constraint created by the possibility of the failure of the Manhattan to Elm Creek 230 kV line.

I support the Elm Creek to Summit Line and urge you to continue your work on this important project.

Respectfully submitted,

Lowell Thoman, President

606 Washington Street, Suite B Voice (785) 243-2010 Concordia, Kansas 66901-2827 Fax (785) 243-2014 ashley.mcmillan@cloudcorp.net Mobile (785) 243-8710

EXHIBIT KBH-2

SPP Documents



Helping our members work together to keep the lights on... today and in the future.

SPP-NTC-200182

SPP Notification to Construct with Conditions

April 9, 2012

Mr. Mo Awad Westar Energy, Inc. P.O. Box 889 Topeka, KS 66601

RE: Notification to Construct Approved ITP10 Network Upgrades

Dear Mr. Awad,

Pursuant to Section 3.3 of the Southwest Power Pool, Inc. ("SPP") Membership Agreement and Attachment O. Section VI. of the SPP Open Access Transmission Tariff ("OATT"). SPP provides this Notification to Construct ("NTC") directing Westar Energy. Inc. ("Westar"), as the Designated Transmission Owner ("DTO"), to construct the Network Upgrade(s). This NTC is Conditioned upon Westar not ordering materials or beginning construction until:

(1) the DTO submits a refined project cost estimate (CPE) to SPP that has a variance bandwidth of -20% to $\pm 20\%$ that <u>does not</u> exceed the Study Estimate variance bandwidth of -30% to $\pm 30\%$ as provided for in SPP's Business Practices: <u>or</u>

(2) the SPP Board of Directors considers SPP's re-evaluation of a project that has a refined project cost estimate (CPE) from the DTO that exceeds the Study Estimate variance bandwidth of -30% to +30% as provided for in SPP's Business Practices.

On January 31, 2012, the SPP Board of Directors approved the Network Upgrade(s) listed below to be constructed as part of the 2012 Integrated Transmission Planning 10-Year ("ITP10") Assessment.

New Network Upgrades

Project ID: 30367 Project Name: Multi - Elm Creek - Summit 345 kV Need Date for Project: 3/1/2018 Estimated Cost for Project: \$101,807,789 (this project cost contains Network Upgrades not included in this NTC)

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- 413 NORODE AR REALES REPORT AND THE 1400 - ELEPER REAL AS, 72003 C, SOLVETE (200 - REPARK)



HELPING OUR MEMBERS WORK TOGETHER TO KEEP THE LIGHTS ON... TODAY AND IN THE FUTURE

SPP-NTC-200182

Network Upgrade ID: 50429 Network Upgrade Name: Elm Creek - Summit 345 kV Ckt 1 (WR) Network Upgrade Description: Build new 345 kV line from Elm Creek to Summit. The total mileage of this Elm Creek to Summit 345 kV line is 58 miles. Westar and ITC Great Plains, LLC shall decide who shall build how much of these Network Upgrades and shall provide such information, along with specific cost estimates for each Designated Transmission Owner's portion of the Network Upgrades, to SPP in its response to this NTC-C. Network Upgrade Owner: Westar MOPC Representative: John Olsen, Tom Stuchlik TWG Representative: Mo Awad **Categorization: ITP10** Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 1792 MVA, but are not limited to that amount. Network Upgrade Justification: To address voltage collapse at Elm Creek 230 kV for the loss of the Elm Creek - Northwest Manhattan 230 kV line. Cost Allocation of the Network Upgrade: Base Plan

Commitment to Construct

Please provide to SPP a written commitment to construct the Network Upgrade(s) within 90 days of the date of this NTC, pursuant to Attachment O. Section VI.6 of the SPP OATT, in addition to providing a construction schedule for the Network Upgrade(s). Failure to provide a sufficient written commitment to construct as required by Attachment O could result in the Network Upgrade(s) being assigned to another entity.

NTC-C Project Estimate (CPE)

Please provide SPP a NTC-C Project Estimate (CPE) by February 28, 2013, as described in SPP's Business Practices regarding Notification to Construct with Conditions. Westar shall advise SPP of any inability to provide the CPE by February 28, 2013 as soon as the inability becomes apparent.

Removal of Conditions

Upon notice by SPP of removal of the conditions contained in this NTC, SPP will issue the DTO a new NTC and the following will be applicable:

Mitigation Plan

The Need Date represents the timing required for the Network Upgrade(s) to address the identified need. Your prompt attention is required in the formulation and approval of any necessary mitigation plans for the Network Upgrade(s) included in the Network Upgrade(s) if the Need Date is not feasible. Additionally, if it is anticipated that the completion of any

2

418 NORTH MCKINER STREET NORE 140 C. BEERE LONK, AR 22204 C. SPECIFIC STREET



HEIPING OUR MEMBERS WORK TOGETHER TO KEEP THE LIGHTS ON... TODAY AND IN THE FUTURE

SPP-NTC-200182

Network Upgrade will be delayed past the Need Date. SPP requires a mitigation plan be filed within 60 days of the determination of expected delays.

Notification of Commercial Operation

Please submit a notification of commercial operation for each listed Network Upgrade to SPP once the Network Upgrade is complete and in-service. Please provide SPP with the actual costs of these Network Upgrades as soon as possible after completion of construction. This will facilitate the timely billing by SPP based on actual costs.

Notification of Progress

Please keep SPP advised of any inability on Westar's part to complete the approved Network Upgrade(s). For project tracking purposes, SPP requires Westar to submit status updates for the Network Upgrade(s) quarterly in conjunction with the SPP Board of Directors meetings. However, Westar shall also advise SPP of any inability to comply with the Project Schedule as soon as the inability becomes apparent.

All terms and conditions of the SPP OATT and the SPP Membership Agreement shall apply to this Project, and nothing in this NTC shall vary such terms and conditions.

Don't hesitate to contact me if you have questions or comments regarding these instructions. Thank you for the important role that you play in maintaining the reliability of our electric grid.

Sincerely,

Lang Hickel

Lanny Nickell Vice President, Engineering Phone: (501) 614-3232 • Fax: (501) 821-3198 • <u>Inickell@spp.org</u>

cc: Carl Monroe - SPP Katherine Prewitt - SPP John Olsen - Westar Energy, Inc. Tom Stuchlik - Westar Energy, Inc. Dracy Jenkins - Westar Energy, Inc.

415 NORTH MCKENTER MEDITAL COLDARD COLDARD ROCK AR 72205 (1) 403-614-5207 (1) MPLORG



Mo Ryad Managen, Inansmission Franzing Email: <u>Mo.Awad@WestarEnergy.com</u> Office: 785-575-1674

June 26, 2012

Mr. Lanny Nickell Vice President, Engineering Southwest Power Pool 415 North McKinley Street, Suite 140 Little Rock, AR 72205

Ref: SPP-NTC-200182

Lanny,

This letter is in response to the SPP Notification to Construct letter (SPP-NTC-200182) issued on April 9, 2012.

Per this letter, Westar Energy is committing to the Summit-Elm Creek 345 kV line transmission line and the in service date of March 1, 2018 as listed in SPP-NTC-200182. Westar will work towards providing SPP with a NTC-C Project Estimate (CPE) by February 28, 2013.

Sincerely,

Mo Awad Westar Energy Manager, Transmission Planning 785-575-1674 Mo.Awad@westarenergy.com

cc: Carl Monroe (Southwest Power Pool) Katherine Prewitt (Southwest Power Pool) John Olsen (Westar Energy) Tom Stuchlik (Westar Energy) Dracy Jenkins (Westar Energy)

818 S Kansas Ave / PO Box 889 / Topeka, Kansas 66601-0889



HELPING OUR MEMBERS WORK TOGETHER TO KEEP THE LIGHTS ON... TODAY AND IN THE FUTURE

SPP-NTC-200221

SPP Notification to Construct

March 18, 2013

Mr. Mo Awad Westar Energy, Inc. P.O. Box 889 Topeka, KS 66601

RE: Notification to Construct Approved ITP10 Network Upgrades

Dear Mr. Awad,

Pursuant to Section 3.3 of the Southwest Power Pool, Inc. ("SPP") Membership Agreement and Attachment O, Section VI, of the SPP Open Access Transmission Tariff ("OATT"). SPP provides this Notification to Construct ("NTC") directing Westar Energy, Inc. ("WR"), as the Designated Transmission Owner, to construct the Network Upgrade(s).

On January 31, 2012, the SPP Board of Directors approved the Network Upgrade(s) listed below to be constructed as part of the 2012 Integrated Transmission Planning 10-Year Assessment ("ITP10"). On April 9, 2012, SPP issued WR the Notification to Construct with Conditions ("NTC-C") No. 200182.

On February 22, 2013, SPP received WR's NTC-C Project Estimate(s) ("CPE") for the Network Upgrade(s) specified in the NTC-C No. 200182. SPP approved the CPE(s) as meeting the requirements of Condition No. 1 of the NTC-C, and an NTC would therefore be automatically issued for the Network Upgrade(s).

Upgrades with Modifications

Previous NTC Number: 200182 Previous NTC Issue Date: 4/9/2012 Project ID: 30367 Project Name: Multi - Elm Creek - Summut 345 kV Need Date for Project: 3/1/2018 Estimated Cost for Project: \$113,049.038 (this project cost contains Network Upgrades not included in this NTC)

201 WORTHEN DRIVE (* 11111) ROCK, AEKANNAS 72223-4936 (* 504-614-3200 (* 512-086



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SPP-NTC-200221

Network Upgrade ID: 50429 Network Upgrade Name: Elm Creek - Summit 345 kV Ckt 1 (WR) Network Upgrade Description: Build new 345 kV line from the Summit substation to the ITC Great Plains, LLC interception point from the Elm Creek substation. Network Upgrade Owner: WR MOPC Representative(s): John Olsen. Tom Stuchlik TWG Representative: Mo Awad Reason for Change: The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of the NTC-C No. 200182. Therefore, the conditions of the project are removed. **Categorization: ITP10** Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 1792 MVA. Network Upgrade Justification: To address voltage collapse at Elm Creek 230 kV for the loss of the Elm Creek - Northwest Manhattan 230 kV line. Estimated Cost for Network Upgrade (current day dollars): \$66,202,442 Cost Allocation of the Network Upgrade: Base Plan Estimated Cost Source: WR Date of Estimated Cost: 2/22/2013

Commitment to Construct

Please provide to SPP a written commitment to construct the Network Upgrade(s) within 90 days of the date of this NTC, pursuant to Attachment O, Section VI.6 of the SPP OATT, in addition to providing a construction schedule. Failure to provide a sufficient written commitment to construct as required by Attachment O could result in the Network Upgrade(s) being assigned to another entity.

Mitigation Plan

The Need Date represents the timing required for the Network Upgrade(s) to address the identified need. Your prompt attention is required for formulation and approval of any necessary mitigation plans for the Network Upgrade(s) included in the Network Upgrade(s) if the Need Date is not feasible. Additionally, if it is anticipated that the completion of any Network Upgrade will be delayed past the Need Date, SPP requires a mitigation plan be filed within 60 days of the determination of expected delays.

Notification of Commercial Operation

Please submit a notification of commercial operation for each listed Network Upgrade to SPP as soon as the Network Upgrade is complete and in-service. Please provide SPP with the actual costs of these Network Upgrades as soon as possible after completion of construction. This will facilitate the timely billing by SPP based on actual costs.

²⁰¹ WORTHEN DRIVE | LITTLE ROCK, ARKANSAS 72223-4936 | 501-614-3200 | SPP.ORG



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SPP-NTC-200221

Notification of Progress

On an ongoing basis, please keep SPP advised of any inability on WR's part to complete the approved Network Upgrade(s). For project tracking, SPP requires WR to submit status updates of the Network Upgrade(s) quarterly in conjunction with the SPP Board of Directors meetings. However, WR shall also advise SPP of any inability to comply with the Project Schedule as soon as the inability becomes apparent.

All terms and conditions of the SPP OATT and the SPP Membership Agreement shall apply to this Project, and nothing in this NTC shall vary such terms and conditions.

Don't hesitate to contact me if you have questions or comments regarding these instructions. Thank you for the important role that you play in maintaining the reliability of our electric grid.

Sincerely,

Lang Michael

Lanny Nickell Vice President, Engineering Phone: (501) 614-3232 • Fax: (501) 482-2022 • <u>Inickell@spp.org</u> ce: Carl Monroe - SPP Katherine Prewitt - SPP John Olsen - WR Tom Stuchlik - WR Dracy Jenkins - WR

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EXHIBIT KBH-3

Open House Documents



November 19, 2012

Dear property owner:

Westar Energy, Inc. invites you and your family to attend one of the company's upcoming open houses to review our plans to build a new transmission line on or near your property. This 345 kV transmission line is necessary to provide improved voltage support and reliability to the regional electric grid.

The transmission line will connect Westar Energy's Summit Substation, approximately five (5) miles northeast of Assaria, to ITC Great Plains' Elm Creek Substation, approximately four (4) miles northwest of Aurora. Westar Energy will construct and own the southern half of this line and ITC, in conjunction with Mid Kansas Electric, will construct and own the northern half. The project will also involve upgrades at both substations.

Multiple route options are being considered for the line as noted on the enclosed map. These open houses will give Westar Energy the opportunity to share information with you and listen to your comments and suggestions. At the open house, you will have an opportunity to complete a questionnaire. Feedback from meeting attendees and scoring from the questionnaires will be used by Westar Energy to help select a preferred route for this new line. Because your property is located on or near one of the route options, we are extending to you a personal invitation to attend an open house. Your input concerning this project is extremely valuable to us so please plan to attend one of the open houses.

The open houses are informal and designed for you to come and go at times convenient to you. They are scheduled from 4:00 to 7:00 P.M. as follows:

- Tuesday, Dec. 4, Miltonvale City Building, 107 Starr Ave., Miltonvale
- Wednesday, Dec. 5, Bennington Bible Church, 824 N. Nelson, Bennington
- Thursday, Dec. 6, Bicentennial Center, 800 The Midway, Salina

We look forward to meeting with you at one of the open houses. We will do our best to answer your questions, provide valuable information, and address any concerns you may have. If you have any questions prior to our open houses, please contact Matt Armfield at (785) 575-1826.

Sincerely,

Kelly B. Harrison Vice President, Transmission

818 S Kansas Ave / PO Box 889 / Topeka, Kansas 66601-0889



Media contact: Leonard Allen Sr. Communication Rep. Phone: 785-575-8444 Leonard.Alle@WestarEnergy.com

WESTAR HOSTS THREE OPEN HOUSES FOR

NEW TRANSMISSION LINE PROJECT

Area residents invited to open houses to learn about project.

TOPEKA, Kan., November 30, 2012 — Westar Energy will conduct three separate open

houses from 4 p.m. to 7:00 p.m. on each of the following dates and locations:

- Tuesday, Dec. 4, Miltonvale City Building, 107 Starr Ave., Miltonvale
- Wednesday, Dec. 5, Bennington Bible Church, 824 N, Nelson, Bennington
- Thursday, Dec. 6, Bicentennial Center, 800 The Midway, Salina

Westar Energy will build a 345-kilovolt transmission line connecting Westar Energy's Summit Substation, approximately five (5) miles northeast of Assaria, to ITC Great Plains' Elm Creek Substation, approximately four (4) miles northwest of Aurora. Westar Energy will construct and own the southern half of this line and ITC, in conjunction with Mid Kansas Electric, will construct and own the northern half. The project will also involve upgrades at both substations.

Large project maps will be displayed and Westar representatives from transmission engineering, real estate and other departments will be available to answer questions and gather input from residents in the area.

Westar Energy Elm Creek to Summit Transmission Line

feedback can be used when deciding the final route.

Some examples of some of the major criteria for consideration are:

- Minimize proximity to residences
- Parallel existing utilities when practical
- Avoid a line directly over oil wells or tanks
- Avoid crossing diagonally over center-pivot irrigation systems
- Avoid wetlands, riparian areas and conservation lands
- Minimize cost by maintaining reasonable lengths and few angles

Landowners near the project received a letter inviting them to the open houses; however,

the meetings are open to the public.

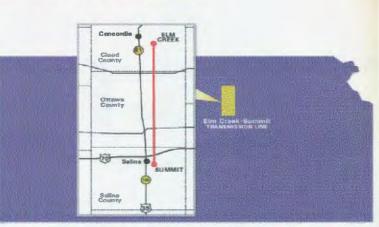
- 30 -

Westar Energy, Inc. (NYSE: WR) is Kansas' largest electric utility. For more than a century, we have provided Kansans the safe, reliable electricity needed to power their businesses and homes. Every day our team of professionals takes on projects to generate and deliver electricity, protect the environment and provide excellent service to our nearly 700,000 customers. Westar has 7,400 MW of electric generation capacity fueled by coal, uranium, natural gas, wind and landfill gas. We are also a leader in electric transmission in Kansas. Our innovative customer service programs include mobile-enabled customer care, a smart meter pilot project and paving the way for electric vehicle adoption. Our employees live, volunteer and work in the communities we serve.

For more information about Westar Energy, visit us on the Internet at <u>http://www.WestarEnergy.com</u>. Westar Energy is on Facebook: <u>www.Facebook.com/WestarEnergyInc</u> and Twitter: <u>www.Twitter.com/WestarEnergy</u>.

ELM CREEK-SUMMIT TRANSMISSION LINE

Location:	Saline, Ottawa and Cloud Counties
Distance:	60 miles
Construction Start:	2016 (projected)
In service:	2018 (projected)
Size:	345 kV
Timeline:	
Fail 2012:	Preliminary routing & community outreach
Dec. 4-6, 2012:	Public Open House events in
	Miltonvale, Bennington & Salina
Jan June 2013:	Route selection & refined cost
	estimate; Southwest Power Pool review & approval
July - Sep. 2013:	Route application filed with the KCC
Oct Dec. 2013:	KCC route approval anticipated
2014 - 2015:	Right-of-way acquisition/
	engineering design
2016 - 2017:	Construction
2018:	Project in service



Elm Creek-Summit Transmission Line Project Estimated Route

The Elm Creek to Summit project will improve the reliability of the grid in central Kansas, allowing the grid to continue to meet required standards of reliability. It will benefit residents and businesses in central Kansas and beyond by easing congestion across the transmission network and improving the efficiency of the grid. It also will provide tax revenue, construction jobs and local expenditures, and will expand capabilities for future investment in area industry.

THE PROJECT:

The Elm Creek to Summit Project is a new 60-mile, 345,000-volt (345 kV) line linking the existing 345 kV Summit Substation southeast of Salina, Kansas, to a new 345 kV substation southeast of Concordia, Kansas, to be located near the existing 230 kV Elm Creek Substation. ITC Great Plains, LLC (ITC), under a co-development agreement with Mid-Kansas Electric, LLC (MKEC), will construct, co-own with MKEC and operate the northern section of the line, and Westar Energy, Inc. (Westar) will construct, own, and operate the southern section. The project is scheduled to be complete and in service in 2018.

THE ROUTING PROCESS:

A routing study is currently underway that is expected to result in three potential routes intended to minimize adverse impacts to residents, their land and the natural environment while providing a technically viable and cost-effective transmission line. As part of the transparent review/input process, ITC and Westar will meet with state and local officials, local business leaders, landowners, residents and environmental organizations to fully discuss the project, review proposed routes and answer any questions. The routes will be presented to potentially affected landowners during community open house events in December 2012 in each county along the route. Landowners along the proposed routes will have the opportunity to review the routes and provide input to Westar and ITC. The companies will consider input from all stakeholders equally in developing a final preferred route to submit to the Kansas Corporation Commission (KCC). The KCC has the final authority to determine where the line will run.

WORKING WITH LANDOWNERS:

ITC and Westar are committed to open, honest and frequent communications with landowners. We will work respectfully with landowners throughout the siting, design, and construction process to minimize impacts to their properties. Following route approval by the Kansas Corporation Commission, the companies will contact landowners who have property on the line route to obtain Right of Entry Agreements. These agreements provide the basis for accessing property for surveying, environmental studies and soil boring. This is followed by easement acquisition offers, based on the results of a market study conducted by a local appraiser on the fair market value of the land that will be subject to the easement. The easement grants the right to use a strip of land approximately 150 to 200 feet wide for construction, operation and maintenance of the transmission line. Property owners retain ownership of the land and can continue most uses of it.







ANSWERS TO YOUR QUESTIONS

Q: WHAT WILL THE LINE LOOK LIKE?

A. The types of structures to be used on this project have not yet been determined. Structure height will vary based on terrain, clearances to the ground, objects under the line and structure spacing, but typically range between 120 and 160 feet. The span lengths between structures could be approximately 800 to 1,500 feet, with an average span of 900 feet.

Q: WHO WILL BUILD THE LINES AND MANAGE THE CONSTRUCTION?

A. Wester will provide project management services and coordination for the engineering and construction of the south half of the line. ITC will provide the same for the north half.

Q: WHO APPROVED THIS PROJECT?

A. The project has been reviewed and approved by the Southwest Power Pool (SPP), the organization designated by the Federal Energy Regulatory Commission (FERC) to oversee the high-voltage grid in the multi-state region that includes Kansas.

Q. WHO WILL PAY FOR TRANSMISSION LINE AND FACILITIES?

A. Because the line will benefit the entire region in terms of improved reliability and increased efficiency, the cost will be recovered from all customers in the Southwest Power Pool region which includes Kansas, Oklahoma and parts of Nebraska, Texas, New Mexico, Arkeneas and Missouri.

Q. WHY ARE YOU STARTING THIS PROCESS NOW IF THE LINE WON'T BE FINISHED UNTIL 2018?

A. Planning and building a transmission line is a multi-year process. An important part of the current process is to develop a more accurate cost estimate based on a more pracise route for the line. Additional time is required for regulatory approvals, securing the necessary right of way, formalizing design, ordering materials, and hiring contractors. Construction could take a year or more (see projected timeline).

Q. WHAT ENVIRONMENTAL IMPACTS WILL BE CONSIDERED WITH THE SITING OF THE PROJECT?

A. We work closely with appropriate agencies and organizations to take reasonable precautions to assure any direct environmental impact is appropriately identified and addressed. We adhere to all state and federal regulations to protect native plants, threatened or endangered species, wetlands and water and air quelity.

Westar Energy. Inc.

Westar is the largest electric energy provider in Kanses, dedicated to operating the best electric utility in the Midwest and providing quality service at below average prices. Headquartered in Topeka, Westar provides generation, transmission, and distribution to more than 687,000 customers in much of east and east-central Kanses. westarenergy.com

(785) 575-6300

ITC Great Plains

ITC Great Plains, LLC, based in Topeka is a transmission only utility with authority to construct, own, operate and maintain a regulated, highvoltage transmission system in the Southwest Power Pool region. It is a subsidiary of ITC Grid Development LLC, a wholly-owned subsidiary of ITC Holdings Corp., the nation's largest independent electric transmission company.

itctransco.com 877.ITC.ITC9 (877.482.4829)

Mid-Kansas Electric, LLC. (MKEC)

Mid-Kansas is a coalition of five rural electric cooperatives and one wholly-owned subsidiary serving approximately 200,000 people through central and western Kansas. Mid-Kansas and ITC have collaborated on transmission projects since 2008, and in early 2012, an agreement was reached to further partnership for the continued growth of the transmission system in Kansas. midkansaselectric.net (800) 354.3638

Westar Energy.





Westar Energy Transmission Elm Creek - Summit Project

Westar Energy Elm Creek – Summit Project STAKEHOLDER QUESTIONNAIRE

This questionnaire is designed to help you identify issues related to the routing of the proposed Elm Creek – Summit Transmission Line Project. Your answers will assist the study team in understanding public interests and concerns, and will allow the team to incorporate this information in the route selection process. Please complete this questionnaire <u>after</u> you have reviewed the information presented in the informational meeting today. Thank you for your input.

PROJECT NEED

Do you believe the need for this transmission line has been explained adequately?

__Yes ____No ____Úncertain

If "No" or "uncertain," what additional information would be helpful to you?

LINE ROUTING CONSIDERATIONS

2.

1

The routing of a transmission line involves many considerations. Please circle the number corresponding to the level of importance of that factor to you.

		Rating				
	Factor	Not Important		Somewhat Important		Most Important
<u>a)</u>	Maximize distance from residences	1	2	3	4	5
b)	Maximize distance from businesses	1	2	3	4	5
c)	Maximize distance from public facilities (e.g., parks, schools, churches, cemeteries)	1	2	3	4	5
d)	Maximize length along existing transmission lines	1	2	3	4	5
<u>e)</u>	Maximize length along highways or other roads	1	2	3	4	5
t)	Maintain reliable electric service	1	2	3	4	5
g)	Minimize length through wetlands and number of stream / river crossings	1	2	3	4	.5
h)	Minimize length across tilled agricultural land	1	2	3	4	5
<u>i)</u>	Maximize distance from center pivot irrigation systems	1	2	3	4	5
j)	Minimize loss of trees	1	2	3	4	5
<u>k)</u>	Minimize visibility of the line	1	2	3	4	5
<u>l)</u>	Minimize total length of line (reducing the total cost)	t	2	3	4	5
m)	Minimize length through grassland or pasture	1	2	3	4	5
n)	Minimize impacts to archaeological and historic sites	1	2	3	4	5
<u>o</u>)	Minimize distance through Prairie Chicken Habitat	1	2	3	4	5

 If you would like to comment further on any of the above factors, or identify any other factors or issues that you feel should be considered, please use the space below or a separate page to describe your comments.

Open House, December 4, 5, & 6

Westar Energy.

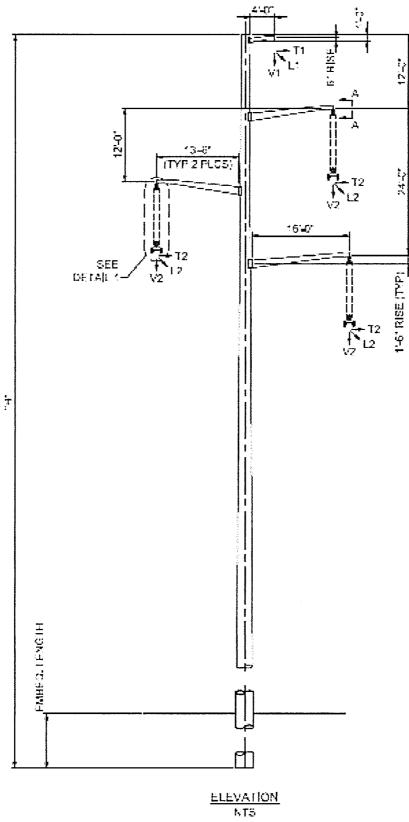
4. If you have a concern with, or a suggestion for, a particular transmission line route(s) shown on the display of potential routes, please indicate the route color number and describe your concern or suggestion.

	Route Color	Location of Concern	Concern				
	RYB						
	RYB						
	RYB						
ADDI							
5.	Which of the following applies to your situation?						
	a. Potential line route is near my home.						
	b. Potential line route is near my farm or business.						
	c. Not affected by potential route.						
	d. Other, please specify						
6.	project? OPEN INFOR	he public open house form HOUSE FORMAT: MATION PROVIDED: AR STAFF HELPFUL:	at and the information provided was helpful for your understanding of thehelpfulnot helpfulhelpfulnot helpfulhelpfulnot helpful				
	How can we imp	prove this format to better i	nform and respond to you?				
7.	If you would like to know the results of this routing study, please enter your name and address below. (Names and addresses are considered confidential.)						
	Name:		Phone:				
ADDI	TIONAL COMME	ENTS OR QUESTIONS					
			it your questionnaire at the meeting. If you take the questionnaire with aires before December 17, 2012 to:				
			Westar Energy Elm Creek – Summit Transmission Line Attn: Matt Armfield PO Box 889 Topeka, KS 66601				
Open l	House, December 4	4, 5, & 6					

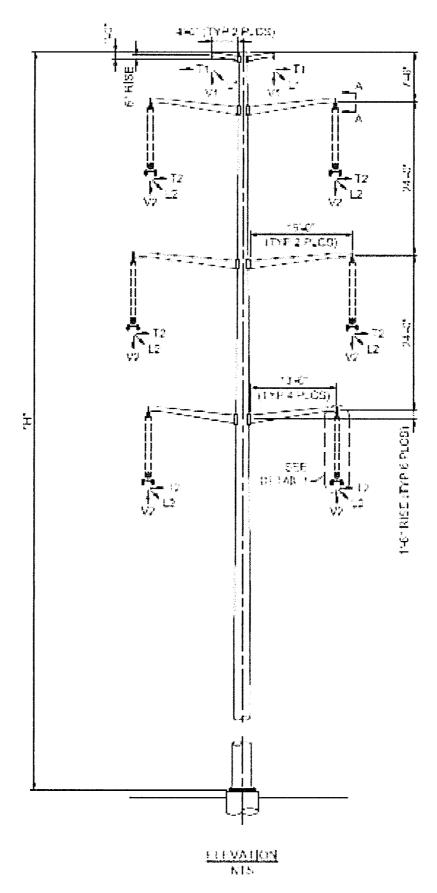
A_____ Westar Energy.

EXHIBIT KBH-4

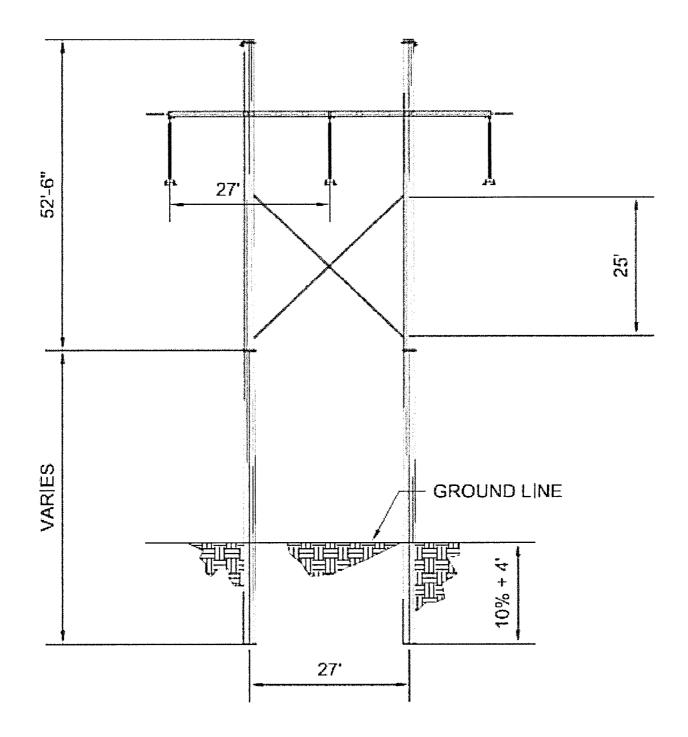
Structure Drawings



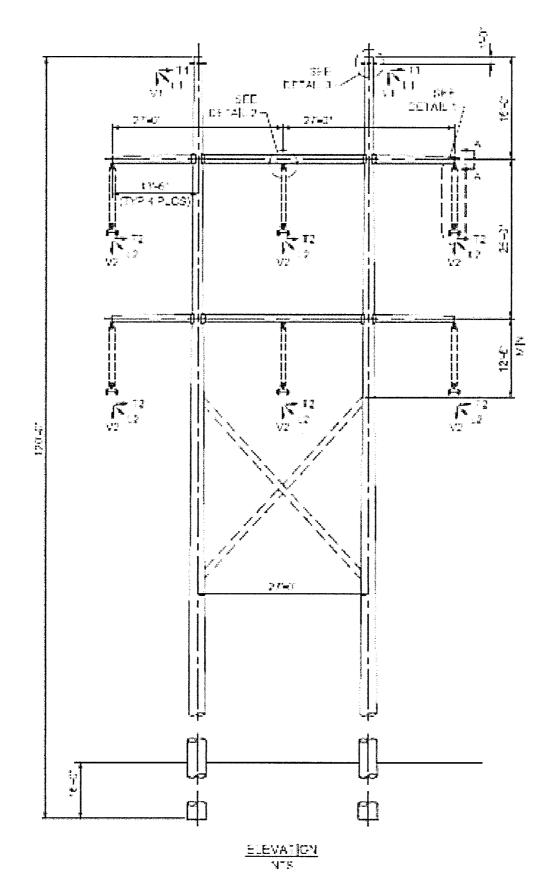




KBH – 4, Sheet 2



KBH – 4, Sheet 3



KBH – 4, Sheet 4