Exhibit No.: Issues: Witness: Sponsoring Party:

Type of Exhibit: Case Nos.: Economic impact analysis Alan E. Spell Missouri Department of Economic Development Rebuttal Testimony EA-2016-0358

MISSOURI PUBLIC SERVICE COMMISSION

GRAIN BELT EXPRESS CLEAN LINE LLC

CASE NO. EA-2016-0358

REBUTTAL TESTIMONY

OF

ALAN E. SPELL

ON

BEHALF OF

MISSOURI DEPARTMENT OF ECONOMIC DEVELOPMENT

Jefferson City, Missouri January 24, 2017

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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In the Matter of the Application of Grain Belt Express Clean Line LLC for a Certificate of Convenience and Necessity Authorizing it to Construct, Own, Operate, Control, Manage and Maintain a High Voltage, Direct Current Transmission Line and an Associated Converter Station Providing an Interconnection on the Maywood -Montgomery 345kV Transmission Line

Case No. EA-2016-0358

AFFIDAVIT OF ALAN E. SPELL

STATE OF MISSOURI)	
)	SS
COUNTY OF COLE)	

Alan E. Spell, of lawful age, being duly sworn on his oath, deposes and states:

- My name is Alan E. Spell. I work in the City of Jefferson, Missouri, and I am employed by the Missouri Department of Economic Development as an Economic and Workforce Research Manager at the Missouri Economic Research and Information Center.
- 2. Attached hereto and made a part hereof for all purposes is my Rebuttal Testimony on behalf of the Missouri Department of Economic Development.
- 3. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded are true and correct to the best of my knowledge.



DAWN ELLEN OVERBEY My Commission Expires December 13, 2019 Moniteau County Commission #15456865

Alan E. Spell

Subscribed and sworn to before me this 24th day of January, 2017

Elle Notary Public ecentre B.

My commission expires:

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I. **INTRODUCTION** 1

2 Q. Please state your name and business address.

- A. 3 My name is Alan E. Spell. My business address is 301 West High Street, Suite 580, PO 4 Box 3150, Jefferson City, Missouri 65102.
- 5 Q.

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By whom and in what capacity are you employed?

- 6 A. I am employed as the Economic and Workforce Research Manager at the Missouri 7 Economic Research and Information Center (MERIC), the research arm of the Missouri 8 Department of Economic Development (DED).
- 9 Q. Please describe your educational background and employment experience.
- 10 A. I received a Bachelor of Science degree in economics from the University of South 11 Carolina and a Masters degree in landscape architecture from the University of Georgia. I 12 am a Certified Community Researcher, a designation received from the national Council for Community and Economic Research, for my work in economic analysis. 13
- 14 I currently manage a research team focused on providing economic and workforce
- 15 analysis to policymakers, educators, planners, and the public. I have worked in economic
 - development for over 20 years, in various roles to include site selection, land planning,
- spatial analysis, economic impact modeling, and industry/labor research. 17
- Since 2005 I have managed the economic impact modeling activities for the DED and 18 19 our team has conducted hundreds of impact studies since that time. The DED uses 20 impact modeling to better understand the economic consequences of planned business 21 activities, primarily in relation to state tax incentives anticipated in a project proposal. I 22 have received formal training in two commonly used economic impact modeling systems,
 - IMPLAN and Regional Economic Models, Inc. Policy Insight (REMI).

1	II.	PURPOSE AND SUMMARY OF TESTIMONY
2	Q.	What is the purpose of your Rebuttal Testimony in this proceeding?
3	А.	The purpose of my testimony is to provide additional details on the economic impact
4		analysis conducted by the Missouri Department of Economic Development regarding the
5		Grain Belt Express Clean Line transmission project ("Grain Belt Express Project" or
6		"Project"), which is discussed in the direct testimony of Mark Lawlor. The construction
7		and operation of the Project is expected to have positive economic impacts to the state of
8		Missouri with regard to jobs, income, gross domestic product, and tax revenues. Those
9		impacts are summarized in Mr. Lawlor's Schedule MOL-7 and further detailed in this
10		testimony.
11	III.	SUMMARY OF ECONOMIC IMPACT RESULTS
12	Q.	What economic impacts of the Grain Belt Express Project did your study assess?
13	A.	The study analyzed the potential economic impact the Project would have to the state of
14		Missouri for the construction of the electrical transmission line and on-going operations.
15		The impacts include the anticipated number of jobs, personal income, gross domestic
16		product (GDP), state tax revenue, and county property taxes the Project will support. The
17		analysis included the total statewide effect of construction which is anticipated to occur
18		in years 2018 through 2020, the first year of impact (2021) when the transmission line is
19		in operation and up-front landowner payments are made, and the annual impact
20		anticipated in operational years that begin in 2022.
21	Q.	What does the study estimate will be the economic impact of construction of the
22		Grain Belt Express Project?

1	A.	The construction phase of the Project is expected to support 1,527 total jobs over the
2		three years, create \$246 million in personal income, \$476 million in GDP, and \$9.6
3		million in state general revenue for the state of Missouri. These figures are presented in
4		2016 constant dollars using REMI's personal consumer expenditure deflator.
5		Inputs for the construction phase includes \$354 million in spending to build the
6		transmission line in Missouri and \$249 million in Missouri-specific manufacturing and
7		professional service contract spending for the completion of the total project which spans
8		four states (Kansas, Missouri, Illinois, and Indiana). Since impact models estimate
9		supply-chain purchases based on construction spending, this analysis removed the portion
10		of related manufacturing and services from the impact of the transmission line
11		construction in Missouri to avoid double counting those inputs.
12	Q.	What does the study estimate will be the economic impact of operations of the Grain
13		Belt Express Project?
14	A.	The operations phase analysis is divided into two time periods due to up-front landowner
15		payments that would only impact the first year of operations, or year 2021. The
16		economic impact in year 2021 of Project operations is expected to support 91 total jobs,
17		create \$17.9 million in personal income, \$9.1 million in GDP, and \$720,000 in state
18		general revenue for the state of Missouri. Total county property taxes of \$7.2 million are
19		expected to be paid to the eight Missouri counties the transmission line crosses in 2021.
20		Beginning in year 2022, when landowner payments are smaller, the impact is expected to
21		support 28 total jobs, create \$2.6 million in personal income, \$4.2 million in GDP, and
22		\$111,000 in state general revenue on an annual basis. Annual county property taxes of
23		\$7.2 million are expected to continue.
		3

1		Inputs for the operations phase of the Project include a one-time, up-front payment of
2		\$14.97 million to landowners in year 2021. The new transmission line is also expected to
3		increase annual operations and maintenance spending by \$5 million beginning in 2021.
4		In year 2022 the annual payments to landowners are reduced to \$1.23 million, based on
5		the assumption that landowners choose annual payments over a one-time payment option.
6	IV.	DESCRIPTION OF STUDY METHODOLOGY
7	Q.	Please describe how the economic impact study was conducted.
8	А.	The economic impacts of the construction and operations phases of the Project were
9		estimated using the REMI economic model. The model takes direct spending inputs and
10		predicts the jobs, income, GDP, and state fiscal revenue that will occur in Missouri based
11		on new supply-chain purchases and worker spending. The county property tax estimates
12		were provided by the Missouri State Tax Commission.
13	Q.	What is the REMI model and how does it work?
14	A.	The REMI models the flow of income that moves around an economy through the
15		primary relationships between businesses and consumers. Those relationships are
16		informed by input-output, commuter flows, and income data from the U.S. Bureau of
17		Economic Analysis; employment, wage, and occupational data from the U.S. Bureau of
18		Labor Statistics; and county business patterns, population, and migration data from the
19		U.S. Census Bureau, among other sources. The model follows spending patterns to
20		estimate the larger impacts to a region that include jobs, income, GDP, and government
21		revenue. The REMI model also takes into account state expenditures when new workers
22		move to Missouri in response to job opportunities simulated in the model. New workers

1	bring families and the need for additional governmental services so those costs are
2	deducted from state tax revenues.
3	REMI provides annual updates of the model to DED to continually incorporate newer
4	information from the Bureau of Economic Analysis, Bureau of Labor Statistics, Census
5	Bureau, and other agencies. The DED staff also take the extra step to annually calibrate
6	the fiscal component with Missouri Office of Administration budget figures to produce
7	better state tax estimates.
8	The REMI model has been used by DED for over fifteen years to estimate the impacts of
9	business activities. REMI is a popular model with over 250 organizations, universities,
10	and consulting firms using the system, including governmental agencies in 40 states.
11	Many organizations use models like REMI as a tool in analyzing the potential economic
12	benefits and costs associated with a business activity while recognizing that it is one part
13	of a decision-making process. Future changes in the project inputs or general economy,
14	for example, will impact the conclusions of any analysis and therefore these studies
15	should be viewed as reasonable estimates given currently available information.
16	Articles about the REMI model have been published in professional and peer-reviewed
17	journals, such as the American Economic Review, Economic Systems Research, Journal
18	of Regional Science, Applied Economics, and the International Regional Science Review.
19	A more complete description, to include model concepts, sources, and equations, can be
20	found on REMI's website ¹ in PDF format, which I have attached to my testimony as
21	Schedule-AES 1.

¹ REMI documentation can be found at: http://www.remi.com/resources/documentation

1	Q.	Does the REMI model take into account costs borne by property owners along the
2		right-of-way such as lost property value or use of agricultural land?
3	A.	The analysis does not include estimates of lost property value or use of agricultural land.
4		At the time of conducting this analysis I did not have information on these potential
5		effects. It is always the case that some consequences of a business activity, both positive
6		and negative, will be either unknown, difficult to quantify, or both during an analysis. If
7		reasonable estimates of the costs borne to property owners are available then those
8		factors could be incorporated into a revised analysis.
9	Q.	Where did you obtain your data inputs?
10	A.	The estimates of construction and operations spending on the Project were provided by
11		Clean Line, the company building the roughly 700-mile high voltage line across four
12		states. Clean Line provided information on the timing of activities, the construction
13		spending specific to Missouri, contracts with Missouri companies for project
14		management and transmission line components, operation and maintenance spending,
15		and details of landowner payments. Clean Line also provided Dr. Loomis's analysis,
16		shown in Schedule AES-2, which was used to determine direct construction spending by
17		detailed categories and by state. Construction spending by states was used with
18		information on specific Missouri contract agreements to discount those sales if already
19		accounted for in the construction impact estimate. This was done to avoid double-
20		counting the impact to Missouri.
21		The county property tax estimates were provided by the State Tax Commission after they
22		determined which taxing jurisdictions the transmission line would cross.

Q. Based off your experience are the inputs that Clean Line provided you reasonable estimates? A. I believe the construction and operation spending inputs provided by Clean Line were reasonable.

V. CONCLUSIONS

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6 Q. Please summarize the main conclusions of your testimony.

7 A. The construction and operation of the Project is expected to have positive economic 8 impacts to Missouri with regard to jobs, income, gross domestic product, and state tax 9 revenues beginning in year 2018. The construction phase (2018-2020) is expected to support 1,527 total jobs over the three years, create \$246 million in personal income, 10 \$476 million in GDP, and \$9.6 million in state general revenue for the state of Missouri. 11 12 The first year of operations (2021), which includes spending to maintain the transmission line and nearly \$15 million in initial landowner payments, is expected to support 91 total 13 jobs, create \$17.9 million in personal income, \$9.1 million in GDP, \$720,000 in state 14 15 general revenue, and \$7.2 million in county property taxes. Beginning in year 2022 the annual operations and landowner payments of the Project are expected to support 28 total 16 jobs, create \$2.6 million in personal income, \$4.2 million in GDP, \$111,000 in state 17 general revenue, and \$7.2 million in county property taxes. 18

19 Q. Does this conclude your prepared rebuttal testimony?

20 A.

Yes.