

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

**In the Matter of the Application of Grain)
Belt Express Clean Line LLC for 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 345 kV transmission line.)**

Case No. EA-2016-0358

ADDENDUM TO APPLICATION

Grain Belt Express Clean Line LLC (“Grain Belt Express” or “Company”), pursuant to Section 393.170.1,¹ 4 CSR 240-2.060 and 4 CSR 240-3.105(1)(B), submits this Addendum to its Application and to a schedule attached to the Direct Testimony of J. Neil Copeland:

1. In its Application filed on August 30, 2016, Grain Belt Express provided a list of electric and telephone lines of regulated and non-regulated utilities, as well as other entities that the proposed construction will cross, pursuant to 4 CSR 240-3.105(1)(B)1. See Ex. 3, Application. In light of additional information requested by Staff, Exhibit 3 has been amended.

2. The Company attaches Amended Exhibit 3 containing updated and corrected utility crossing information, which should be substituted for the Exhibit 3 to the Application.

3. The Company also attaches Amended Schedule JNC-2 which is a complete copy of the PROMOD Analysis that Grain Belt Express intended to attach as Schedule JNC-2 to the Direct Testimony of Mr. Copeland.

¹ All statutory references are to the Missouri Revised Statutes (2000), as amended, unless otherwise noted.

WHEREFORE, Grain Belt Express respectfully requests that the Commission substitute Amended Exhibit 3 for Exhibit 3 to the Application and substitute Amended Schedule JNC-2 for Schedule JNC-2 to the Direct Testimony of Mr. Copeland.

Respectfully submitted,

/s/ Karl Zobrist

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CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing Application was served upon the parties listed below

by email or U.S. Mail, postage period, this 27th day of October 2016.

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/s/ Joshua Harden
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Amended Exhibit 3

Buchanan County
Water
Buchanan Co. PWSD #1
DeKalb Co. PWSD #1
Missouri American Water
Electric
Kansas City Power & Light Co. (Greater Missouri Operations)
United Electric Cooperative, Inc. (Northwest Electric Power Cooperative)
Platte-Clay Electric Cooperative, Inc. (Northwest Electric Power Cooperative)
Telecom
AT&T Missouri
Southwestern Bell
Aerial Communications
Century Link (Spectra Communications Group)
Mercury Voice and Data LLC (Suddenlink Comm-MO)
United State Cellular Corp. - MO
New Cingular Wireless PCS, LLC - IL
Sprint Spectrum L.P.
Cellco Partnership (Verizon Wireless - MO)
Windstream Nuvox Missouri Inc. - MO
Brooks Fiber Communications - MO
Teleport Communications Group - St. Louis
Gas and Petroleum Pipelines
Rockies Express Pipeline
Southern Star Central Gas Pipeline, Inc.
Missouri Gas Energy
Spectra Energy - Platte Pipeline
TransCanada - Keystone Pipeline
ONEOK - North System HGL Pipeline
Transportation
Missouri Department of Transportation - Highway Crossing
BNSF Railway

Clinton County
Water
Clinton Co. PWSD #4 System 1
Clinton Co. PWSD #4 System 2
Clinton Co. PWSD #3
DeKalb Co. PWSD #1
Electric
Kansas City Power & Light Co. (Greater Missouri Operations)
United Electric Cooperative, Inc. (Northwest Electric Power Cooperative)
Platte-Clay Electric Cooperative, Inc. (Northwest Electric Power Cooperative)
Union Electric Co (Ameren)
Telecom
Century Link (Spectra Communications Group)
Lathrop Telephone Company
Aerial Communications
Cellco Partnership (Verizon Wireless - MO)
New Cingular Wireless PCS, LLC - IL
Gas and Petroleum Pipelines
Rockies Express Pipeline
Municipal Distribution System (city of Plattsburg)
Missouri Gas Energy
Spectra Energy - Platte Pipeline
TransCanada - Keystone Pipeline
Buckeye Partners - Buckeye Petroleum Pipeline
Midstream Partners - Magellan (Petroleum)
ONEOK - North System HGL Pipeline
Transportation
Missouri Department of Transportation - Highway Crossing

Caldwell County
Water
Caldwell Co. PWSD #1
Caldwell Co. PWSD #3
Clinton Co. PWSD #4 System I
Ray Co. PWSD #3
Electric
Union Electric Co (Ameren)
Farmers' Electric Cooperative, Inc. (Northwest Electric Power Cooperative)
Platte-Clay Electric Cooperative, Inc. (Northwest Electric Power Cooperative)
Transource Missouri, LLC
Telecom
Century Link (Spectra Communications Group)
Green Hills Telephone Corp. (Green Hills Telecom Service)
Lathrop Telephone Co.
Aerial Communications
Cellco Partnership (Verizon Wireless - MO)
New Cingular Wireless PCS, LLC - IL
Gas and Petroleum Pipelines
Rockies Express Pipeline
Summit Natural Gas of MO
Spectra Energy - Platte Pipeline
TransCanada - Keystone Pipeline
Buckeye Partners - Buckeye Petroleum Pipeline
Enterprise Products - East Leg-East Loop HGL Pipeline
Transportation
Missouri Department of Transportation - Highway Crossing
Union Pacific Railroad
Canadian Pacific Railway (formerly known as Iowa, Chicagao, and Eastern Railroad)

Carroll County
Water
Carroll C. PWSD #1
Livingston Co. PWSD #3 - East
Electric
Union Electric Co (Ameren)
Kansas City Power & Light Co. (Greater Missouri Operations)
Farmers' Electric Cooperative, Inc. (Northwest Electric Power Cooperative)
Telecom
Green Hills Telephone Corp. (Green Hills Telecom Service)
Chariton Valley Telephone Co.
AT&T Missouri
Century Link (Spectra Communications Group)
Gas and Petroleum Pipelines
Rockies Express Pipeline
Missouri Gas Energy
Southern Star Central Gas Pipeline, Inc.
Spectra Energy - Platte Pipeline
TransCanada - Keystone Pipeline
BP Pipeline - Cushing to Whiting
Enterprise Products - West Leg HGL Pipeline
Transportation
Missouri Department of Transportation - Highway Crossing
BNSF Railway

Chariton County
Water
Chariton Co. PWSD #2
Chariton-Linn Co. PWSD #3
Thomas Hill PWSD #1
Missouri-American Water Co.
Electric
Kansas City Power & Light Co.
Farmers' Electric Cooperative, Inc. (Northwest Electric Power Cooperative)
Macon Electric Cooperative, Inc. (Northeast Electric Power Cooperative)
Salisbury Municipal Electric
Telecom
Century Link (Spectra Communications Group)
Chariton Valley Telephone Co.
Socket Telecom, LLC - MO
MCC Telephony of Missouri LLC - MO
Gas and Petroleum Pipelines
Rockies Express Pipeline
Empire District Gas Co
Spectra Energy - Platte Pipeline
TransCanada - Keystone Pipeline
BP Pipeline - Cushing to Whiting
Enbridge - Spearhead
Enterprise Products - West Leg HGL Pipeline
Transportation
Missouri Department of Transportation - Highway Crossing
Missouri North Central Railroad
Norfolk Southern Railway

Randolph County
Water
Thomas Hill PWSD #1
Electric
Boone Electric Cooperative (Central Electric Power Cooperative)
Howard Electric Cooperative (Central Electric Power Cooperative)
Macon Electric Cooperative, Inc. (Northeast Electric Power Cooperative)
Union Electric Co (Ameren)
Telecom
Chariton Valley Telephone Co.
Southwestern Bell
United States Cellular Corp. - Missouri
Sprint Spectrum L.P.
Chariton Valley Cellular
Level 3 Communications, LLC - MO
New Cingular Wireless PCS, LLC - IL
Gas and Petroleum Pipelines
Rockies Express Pipeline
Ameren Missouri
Panhandle Eastern Pipe Line Company
Spectra Energy - Platte Pipeline
TransCanada - Keystone Pipeline
Enbridge - Spearhead
Enterprise Products - West Leg HGL Pipeline
Municipal Distribution System (city of Renick)
Transportation
Missouri Department of Transportation - Highway Crossing
Norfolk Southern Railway

Monroe County
Water
Monroe Co. PWSD #2
Missouri-American Water Co.
Electric
Union Electric Co (Ameren)
Consolidated Electric Cooperative Inc. (Central Electric Power Cooperative)
Telecom
Century Link (Spectra Communications Group)
AT&T Missouri
Socket Telecom, LLC - MO
Windstream Missouri, Inc.
Gas and Petroleum Pipelines
Koch Pipeline - Minncan Pipeline System
Municipal Distribution System (cities of Paris, Madison, Shelbina, and Clarence)
Transportation
Missouri Department of Transportation - Highway Crossing

Ralls County
Water
Cannon PWSD #1
Ralls Co. PWSD #1
Electric
Union Electric Co (Ameren)
Ralls County Electric Cooperative (Northeast Electric Power Cooperative)
Perry Municipal Electric
Telecom
AT&T Missouri
Century Link (Spectra Communications Group)
New London Telephone Co.
Southwestern Bell
United States Cellular Corp. - Missouri
New Cingular Wireless PCS, LLC - IL
Charter Fiberlink, LLC - MO
Sprint Spectrum L.P.
Level 3 Communications, LLC - MO
Socket Telecom LLC - MO
Gas and Petroleum Pipelines
Ameren Missouri
Panhandle Eastern Pipe Line Company
Rockies Express Pipeline
Municipal Distribution System (cities of Perry and Monroe City)
Midstream Partners - Magellan (Petroleum)
Transportation
Missouri Department of Transportation - Highway Crossing
BNSF Railway

Missouri Adjusted Production Cost (\$mm)*in 2022*

	Business As Usual	Limited Growth	High Growth	Generation Shift	Public Policy
Without Grain Belt	1,951	1,469	2,432	2,499	5,274
With Grain Belt	1,911	1,453	2,369	2,424	5,051
<i>Savings</i>	<i>40</i>	<i>16</i>	<i>63</i>	<i>76</i>	<i>223</i>

Wind Volatility Sensitivity

	Business As Usual	<i>Savings</i>
Without Grain Belt	1,951	
High Wind Volatility	1,911	<i>40</i>
Med Wind Volatility	1,911	<i>40</i>
Low Wind Volatility	1,911	<i>40</i>

Missouri Demand Cost (\$mm)*in 2022*

	Business As Usual	Limited Growth	High Growth	Generation Shift	Public Policy
Without Grain Belt	3,333	2,649	5,593	4,295	7,516
With Grain Belt	3,321	2,614	5,596	4,250	7,513
<i>Savings</i>	<i>12</i>	<i>35</i>	<i>(3)</i>	<i>45</i>	<i>2</i>

Wind Volatility Sensitivity

	Business As Usual	<i>Savings</i>
Without Grain Belt	3,333	
High Wind Volatility	3,320	<i>13</i>
Med Wind Volatility	3,321	<i>12</i>
Low Wind Volatility	3,320	<i>14</i>

Missouri Average LMPs (\$/MWh)
in 2022

<u>MO Generation Hub LMP</u>		Business As Usual	Limited Growth	High Growth	Generation Shift	Public Policy
Without Grain Belt	On Peak Average	39.70	34.46	63.54	52.18	89.55
Without Grain Belt	Off Peak Average	32.92	27.21	49.19	42.86	80.27
Without Grain Belt	All Hours Average	36.16	30.66	56.03	47.30	84.69
With Grain Belt	On Peak Average	39.59	33.87	63.64	51.50	89.56
With Grain Belt	Off Peak Average	32.72	26.80	48.91	42.49	79.93
With Grain Belt	All Hours Average	36.00	30.16	55.92	46.79	84.51
<i>Change in LMP</i>	<i>On Peak Average</i>	<i>-0.11</i>	<i>-0.60</i>	<i>0.10</i>	<i>-0.68</i>	<i>0.01</i>
<i>Change in LMP</i>	<i>Off Peak Average</i>	<i>-0.20</i>	<i>-0.41</i>	<i>-0.29</i>	<i>-0.37</i>	<i>-0.35</i>
<i>Change in LMP</i>	<i>All Hours Average</i>	<i>-0.16</i>	<i>-0.50</i>	<i>-0.11</i>	<i>-0.51</i>	<i>-0.18</i>
<u>MO Load Hub LMP</u>		Business As Usual	Limited Growth	High Growth	Generation Shift	Public Policy
Without Grain Belt	On Peak Average	41.18	35.83	66.18	54.10	92.41
Without Grain Belt	Off Peak Average	34.06	28.21	51.31	44.33	82.53
Without Grain Belt	All Hours Average	37.46	31.84	58.39	48.99	87.23
With Grain Belt	On Peak Average	41.10	35.35	66.47	53.41	92.57
With Grain Belt	Off Peak Average	33.86	27.85	51.10	43.92	82.25
With Grain Belt	All Hours Average	37.31	31.42	58.42	48.44	87.16
<i>Change in LMP</i>	<i>On Peak Average</i>	<i>-0.07</i>	<i>-0.48</i>	<i>0.30</i>	<i>-0.69</i>	<i>0.15</i>
<i>Change in LMP</i>	<i>Off Peak Average</i>	<i>-0.21</i>	<i>-0.36</i>	<i>-0.21</i>	<i>-0.41</i>	<i>-0.28</i>
<i>Change in LMP</i>	<i>All Hours Average</i>	<i>-0.14</i>	<i>-0.42</i>	<i>0.03</i>	<i>-0.55</i>	<i>-0.07</i>
Wind Volatility Sensitivity						
<u>MO Generation Hub LMP</u>		Business As Usual	<i>Change in LMP</i>			
Without Grain Belt	All Hours Average	36.16				
High Wind Volatility	All Hours Average	35.98				<i>-0.17</i>
Med Wind Volatility	All Hours Average	36.00				<i>-0.16</i>
Low Wind Volatility	All Hours Average	35.99				<i>-0.17</i>
<u>MO Load Hub LMP</u>		Business As Usual	<i>Change in LMP</i>			
Without Grain Belt	All Hours Average	37.46				
High Wind Volatility	All Hours Average	37.30				<i>-0.16</i>
Med Wind Volatility	All Hours Average	37.31				<i>-0.14</i>
Low Wind Volatility	All Hours Average	37.30				<i>-0.16</i>

Systemwide emissions (short tons)*in 2022*

		Business As Usual	Limited Growth	High Growth	Generation Shift	Public Policy
Without Grain Belt	CO ₂	1,601,540,578	1,498,806,074	1,717,063,291	1,561,815,245	1,295,415,276
Without Grain Belt	NO _x	1,680,673	1,599,984	1,781,492	1,619,695	1,175,250
Without Grain Belt	SO ₂	1,905,495	1,842,896	1,978,100	1,818,555	1,179,587
With Grain Belt	CO ₂	1,588,558,950	1,486,083,410	1,704,904,268	1,549,463,441	1,275,936,800
With Grain Belt	NO _x	1,668,381	1,586,930	1,772,294	1,609,392	1,153,275
With Grain Belt	SO ₂	1,895,357	1,832,559	1,968,639	1,808,532	1,154,281
<i>Emissions reduction</i>	<i>CO₂</i>	<i>12,981,628</i>	<i>12,722,664</i>	<i>12,159,022</i>	<i>12,351,804</i>	<i>19,478,476</i>
<i>Emissions reduction</i>	<i>NO_x</i>	<i>12,292</i>	<i>13,054</i>	<i>9,198</i>	<i>10,304</i>	<i>21,975</i>
<i>Emissions reduction</i>	<i>SO₂</i>	<i>10,138</i>	<i>10,337</i>	<i>9,461</i>	<i>10,023</i>	<i>25,306</i>

Wind Volatility Sensitivity

		Business As Usual	<i>Emissions reduction</i>
Without Grain Belt	CO ₂	1,601,540,578	
High Wind Volatility	CO ₂	1,588,546,756	<i>1,588,546,715</i>
Med Wind Volatility	CO ₂	1,588,558,950	<i>1,588,558,909</i>
Low Wind Volatility	CO ₂	1,588,579,146	<i>1,588,579,105</i>

		Business As Usual	<i>Emissions reduction</i>
Without Grain Belt	NO _x	1,680,673	
High Wind Volatility	NO _x	1,668,032	<i>1,667,991</i>
Med Wind Volatility	NO _x	1,668,381	<i>1,668,340</i>
Low Wind Volatility	NO _x	1,668,319	<i>1,668,278</i>

		Business As Usual	<i>Emissions reduction</i>
Without Grain Belt	SO ₂	1,905,495	
High Wind Volatility	SO ₂	1,895,350	<i>1,895,309</i>
Med Wind Volatility	SO ₂	1,895,357	<i>1,895,316</i>
Low Wind Volatility	SO ₂	1,895,350	<i>1,895,309</i>