



Legal Department

American Electric Power
1 Riverside Plaza
Columbus, OH 43215
aep.com

April 15, 2015

Barcy F. McNeal
Docketing Division Chief
Public Utilities Commission of Ohio
180 East Broad Street
Columbus, Ohio 43215-3793

Steven T. Nourse
Senior Counsel –
Regulatory Services
(614) 716-1608 (P)
(614) 716-2014 (F)
stnourse@aep.com

RE: *In the Matter of the Long-Term Forecast Report of AEP Ohio Transmission Company, Inc. and Related Matters*, Case No. 15-1501-EL-FOR.

Dear Ms. McNeal:

I am submitting the enclosed 2015 Long-Term Forecast Report (LTFR) on behalf of AEP Ohio Transmission Company, Inc., pursuant to Section 4935.04, Ohio Revised Code. I have sent a copy of AEP Ohio Transmission Company, Inc.'s 2015 LTFR to the Office of the Ohio Consumers' Counsel in accordance with Rule 4901:5-1-03(F), Ohio Administrative Code.

Thank you for your attention to this matter.

Respectfully Submitted,

/s/ Steven T. Nourse
Steven T. Nourse

AEP OHIO TRANSMISSION COMPANY, INC.

**LONG-TERM FORECAST REPORT
TO THE
PUBLIC UTILITIES COMMISSION OF OHIO**

Case No. 15-1501-EL-FOR

**2015
ELECTRIC**

**LONG-TERM FORECAST REPORT
TO THE
PUBLIC UTILITIES COMMISSION OF OHIO**

Submitted by

**AEP Ohio Transmission Company, Inc.
700 Morrison Road
Gahanna, Ohio 43230
Telephone: (614) 716-1000**

April 15, 2015

CERTIFICATE OF SERVICE

I hereby certify that:

1. Pursuant to Section 4901:5-1-03(F), Ohio Administrative Code, copies of AEP Ohio Transmission Company, Inc.'s 2015 Long-Term Forecast Report have been delivered or mailed to the Office of Consumers' Counsel on the day of the filing;
2. Pursuant to Section 4901:5-1-03(G), Ohio Administrative Code, a letter of notification stating where copies of AEP Ohio Transmission Company, Inc.'s 2015 Long-Term Forecast Report to the Public Utilities Commission of Ohio may be obtained, will be sent by first class mail to the appropriate county libraries within three days of filing;
3. Pursuant to Section 4901:5-1-03(H), Ohio Administrative Code, AEP Ohio Transmission Company, Inc. will keep at least one copy of their 2015 Long-Term Forecast Report at their principal business office for public inspection during business hours; and
4. Pursuant to Section 4901:5-1-03(I), Ohio Administrative Code, AEP Ohio Transmission Company, Inc. will provide a copy of their 2015 Long-Term Forecast Report to any person upon request at a cost to cover the expenses incurred.



Steve T. Nourse
American Electric Power Service Corporation
1 Riverside Plaza
Columbus, Ohio 43215
(614) 716-1608
Attorney for AEP Ohio Transmission Company, Inc.

April 15, 2015

Dated this day in Columbus, Ohio

OH Transco 2015

**STATEMENT PURSUANT TO SECTION 4901:5-1-03(D),
OHIO ADMINISTRATIVE CODE**

**AEP Ohio Transmission Company, Inc.'s 2015 Long-Term Forecast Report
is true and correct to the best of my knowledge and belief.**



**E. Wilcox
Director – AEP East Transmission Planning
AEP Ohio Transmission Company, Inc.**

**April 15, 2015
Dated this day in Columbus, Ohio**

OH Transco 2015

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AEP OHIO TRANSMISSION COMPANY, Inc.

LTFR TRANSMISSION FORMS

Case No. 15-1501-EL-FOR

PUCO FORM FE-T7
AEP OHIO TRANSMISSION COMPANY
CHARACTERISTICS OF EXISTING TRANSMISSION LINES

Transmission Name & Line No. ⁽¹⁾	Point of (Origin - Terminus)	Summer Capability		Winter Capability		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations on the Line
		Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width Max./Min. (feet)		Design	Installed	
List Each Transmission Line of 125 kV or More	Indicate Location of Line's Beginning and Terminus					Indicate Design Voltage and Operating Voltage For Each Line				Steel Towers, Wood Poles or Underground, etc. Miles of the Line of Each Structure			Substation Name
621	Kenny - Roberts	213	282	221	328	138	138	1.17	100/100	Steel - 1 pole	1	1	
634	Harrison (Csp) - Poston	138	179	183	213	138	138	54.36	100/100	Wood - H-frame	1	1	GOOD HOPE SW
677	Corridor - Gahanna 138kV	338	456	427	517	138	138	1.22	150/150	Wood - 1 pole	1	1	
2256	Poston - Ross	164	180	213	227	138	138	42.44	100/100	Wood - H-frame	1	1	S BLOOMINGVIL SW-TRA
2804	Bexley - Groves	427	498	541	572	138	138	4.35	100/100	Steel - 1 pole	1	1	
15238	Jug Street - Kirk	1251	1580	1579	1825	345	345	12.26	150/150	Steel - Lattice	1	1	
16787	Blue Creek - Maddox Creek	2369	2829	3019	3365	345	345	0.03	150/150	Steel - Lattice	1	1	
17718	East Leipsic - Yellow Creek	296	361	375	453	138	138	0.41	100/100	Steel - 1 pole	1	1	
18637	Corridor - Vassell No. 1	1409	1472	1761	1826	345	345	0.38	150/150	Steel - 2 pole	1	1	
18638	Corridor - Vassell No. 2	1409	1887	1761	2144	345	345	0.37	150/150	Steel - Lattice	1	1	
19357	Maliszewski - Vassell	4142	4142	5133	5133	765	765	0.85	200/200	Steel - 1 pole	1	1	
19358	Delaware - Vassell	338	456	427	517	138	138	16.3	100/100	Steel - 1 pole	1	1	
19359	Hyatt - Vassell	1409	1472	1761	1826	345	345	0.39	150/150	Steel - Lattice	1	1	
19397	Muskingum River - Steamtown	205	205	258	258	138	138	0.86	100/100	Wood - 1 pole	1	1	SOUTH CALDWELL
19398	Steamtown - Summerfield	191	250	255	297	138	138	0.84	100/100	Steel - Lattice	1	1	
19899	Kammer - Vassell	4047	4571	4484	4961	765	765	116.09	200/200	Steel - 1 pole	1	1	
20237	Amlin - Hyatt	564	755	712	858	138	138	0.66	150/150	Steel - Lattice	1	1	

⁽¹⁾ Indicate with * if transmission line is an interconnection with another electric transmission owner and list the other transmission owner's name.

PUCO FORM FE-T8
AEP OHIO TRANSMISSION COMPANY
SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

Substation Name	Type Distribution (D) Transmission (T)	Voltage(s) (kV)	Line Association (FE3-T7 or FE3-T9 Notation)	Notation	Line Existing or Proposed
CORRIDOR	T	345	Corridor - Vassell No. 1	18637	E
CORRIDOR	T	345	Corridor - Vassell No. 2	18638	E
EMERALD SWITCH - TR	T	138	*Kenton (LGE) - Wildcat	18078	E
GOOD HOPE SW	T	138	Harrison (Csp) - Poston	634	E
HYATT	T	345	Hyatt - Vassell	19359	E
MADDOX CREEK	T	345	Blue Creek - Maddox Creek	16797	E
S BLOOMINGVIL SW-TRA	T	138	Poston - Ross	2256	E
STEAMTOWN	T	138	Muskingum River - Steamtown	19397	E
STEAMTOWN	T	138	Steamtown - Summerfield	19398	E
TIMBER SW	T	138	Haviland - Timber Switch	16677	E
TIMBER SW	T	138	Timber Road No. 2 - Timber Switch	16817	E
VASSELL	T	765	Kammer - Vassell	19899	E
VASSELL	T	765	Maliszewski - Vassell	19357	E
VASSELL	T	345	Corridor - Vassell No. 1	18637	E
VASSELL	T	345	Corridor - Vassell No. 2	18638	E
VASSELL	T	345	Hyatt - Vassell	19359	E
VASSELL	T	138	Delaware - Vassell	19358	E
WARE ROAD	T	138	Adams - Seaman - Ware Road	18298	E
WARE ROAD	T	138	Ware Road - Waverly	18299	E
YELLOW CREEK	T	138	East Leipsic - Yellow Creek	17718	E

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

- | | |
|--|--|
| 1. Line Name and Number: | Indicate planned line name and number. |
| 2. Points of Origin and Termination: | Specify planned points of line origin and termination. |
| 3. Right-Of-Way: | Specify right-of-way length, average width and number of transmission lines above 125 kV. |
| 4. Voltage: | Specify planned design and operate voltage. |
| 5. Application For Certificate: | Indicate the probable date for filing an application for a certificate, to the extent possible. |
| 6. Construction: | Specify planned construction commencement and anticipated date of commercial operation. |
| 7. Capital Investment: | Provide preliminary initial estimates of capital investment including land acquisitions, right-of-way improvements, and facilities and equipment costs, as available at the time of reporting. |
| 8. Planned Substations: | Specify number of tentative location and names of planned substations, transmission voltages and average acreage required. |
| 9. Supporting Structures: | Indicate preliminary structure type(s). |
| 10. Participation with Other Utilities: | Specify the nature of participation with other utilities, if applicable. |
| 11. Purpose of the Planned Transmission Line | Indicate the preliminary purpose of the planned line (e.g., system reliability, connection of generating facilities, load center growth, etc.). |
| 12. Consequences of Line Construction Deferral or Termination: | Briefly describe the consequences of delay. |
| 13. Miscellaneous | Waivers to be requested, date of pre-application conference (optional), area to be served, and other significant information. |

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	Biers Run-Hopetown	Hopetown-Delano
2.	POINTS OF ORIGIN AND TERMINATION:	Proposed Biers Run station Proposed Hopetown Station	Proposed Hopetown Station Delano
3.	RIGHT-OF-WAY:		
	LENGTH/WIDTH/CIRCUITS -	5.5 miles / 100 ft / Biers Run-Hopetown	5.5 miles / 100 ft / Hopetown-Delano
4.	VOLTAGE:		
	DESIGN/OPERATE	138 kV / 138 kV	138 kV / 138 kV
5.	APPLICATION FOR CERTIFICATE:	Submitted	Submitted
6.	CONSTRUCTION:	To be completed approx. 2016	To be completed approx. 2016
7.	CAPITAL INVESTMENT:	Approx. \$5.5 million	Approx. \$5.5 million
8.	PLANNED SUBSTATIONS:		
	NAME -		
	TRANS. VOLTAGE -		
	ACREAGE -		
	LOCATION		
9.	SUPPORTING STRUCTURES:	Overhead	Overhead
10.	PARTICIPATION WITH OTHER UTILITIES:	None	None
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	Area reliability/serve increased area capacity.	Area reliability/serve increased area capacity.
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION:	Reduced area reliability	Reduced area reliability
13.	MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	Biers Run-Circleville	Hillsboro-Highland
2.	POINTS OF ORIGIN AND TERMINATION:	Proposed Biers Run station Circleville	Hillsboro Highland
3.	RIGHT-OF-WAY: LENGTH/WIDTH/CIRCUITS -	23.5 miles / 100 ft / Biers Run-Circleville	7.5 miles / 100 ft / Hillsboro-Highland
4.	VOLTAGE: DESIGN/OPERATE	138 kV / 138 kV	138 kV / 138 kV
5.	APPLICATION FOR CERTIFICATE:	Submitted	N/A
6.	CONSTRUCTION:	To be completed approx. 2017	To be completed approx. 2016
7.	CAPITAL INVESTMENT:	Approx. \$24 million	Approx. \$8 million
8.	PLANNED SUBSTATIONS:		
	NAME -		
	TRANS. VOLTAGE -		
	ACREAGE -		
	LOCATION		
9.	SUPPORTING STRUCTURES:	Overhead	Overhead
10.	PARTICIPATION WITH OTHER UTILITIES:	None	None
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	Area reliability/serve increased area capacity.	Area reliability/serve increased area capacity.
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION:	Reduced area reliability	Reduced area reliability
13.	MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	Highland-Seaman	Harrison-Circleville #1
2.	POINTS OF ORIGIN AND TERMINATION:	Highland Seaman	Harrison Circleville
3.	RIGHT-OF-WAY: LENGTH/WIDTH/CIRCUITS -	16.5 miles / 100 ft / Hillsboro-Highland	15.2 miles / 100 ft / Harrison-Circleville
4.	VOLTAGE: DESIGN/OPERATE	138 kV / 138 kV	138 kV / 138 kV
5.	APPLICATION FOR CERTIFICATE:	N/A	If required, to be filed in 2014-2015
6.	CONSTRUCTION:	To be completed approx. 2015	To be completed approx. 2017
7.	CAPITAL INVESTMENT:	Approx. \$8 million	Approx. \$16 million
8.	PLANNED SUBSTATIONS:		
	NAME -	New Market Switch	
	TRANS. VOLTAGE -	138 kV	
	ACREAGE -	Approx. 1/4 acre	
	LOCATION	Highland County	
9.	SUPPORTING STRUCTURES:	Overhead	Overhead
10.	PARTICIPATION WITH OTHER UTILITIES:	None	None
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	Area reliability/serve increased area capacity.	Area reliability/serve increased area capacity.
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION:	Reduced area reliability	Reduced area reliability
13.	MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	Harrison-Circleville #2	Delano-Ross #1
2.	POINTS OF ORIGIN AND TERMINATION:	Harrison Circleville	Delano Ross
3.	RIGHT-OF-WAY: LENGTH/WIDTH/CIRCUITS -	15.2 miles / 100 ft / Harrison-Circleville	4.7 miles / 100 ft / Delano-Ross
4.	VOLTAGE: DESIGN/OPERATE	138 kV / 138 kV	138 kV / 138 kV
5.	APPLICATION FOR CERTIFICATE:	If required, to be filed in 2014-2015	To be filed in 2014-2015
6.	CONSTRUCTION:	To be completed approx. 2017	To be completed approx. 2015
7.	CAPITAL INVESTMENT:	Approx. \$16 million	Approx. \$5 million
8.	PLANNED SUBSTATIONS:		
	NAME -		
	TRANS. VOLTAGE -		
	ACREAGE -		
	LOCATION		
9.	SUPPORTING STRUCTURES:	Overhead	Overhead
10.	PARTICIPATION WITH OTHER UTILITIES:	None	None
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	Area reliability/serve increased area capacity.	Area reliability/serve increased area capacity.
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION:	Reduced area reliability	Reduced area reliability
13.	MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	Ross-Delano #2	Bixby - Ohio Central
2.	POINTS OF ORIGIN AND TERMINATION:	Delano Ross	Bixby Ohio Central
3.	RIGHT-OF-WAY: LENGTH/WIDTH/CIRCUITS -	4.7 miles / 100 ft / Delano-Ross	2 miles / 100 ft / Bixby - Ohio Central
4.	VOLTAGE: DESIGN/OPERATE	138 kV / 138 kV	345 kV / 345 kV
5.	APPLICATION FOR CERTIFICATE:	To be filed in 2014-2015	To be filed in 2014-2015
6.	CONSTRUCTION:	To be completed approx. 2015	To be filed in 2014-2015
7.	CAPITAL INVESTMENT:	Approx. \$5 million	Approx. \$5 million
8.	PLANNED SUBSTATIONS:		
	NAME -		
	TRANS. VOLTAGE -		
	ACREAGE -		
	LOCATION		
9.	SUPPORTING STRUCTURES:	Overhead	Overhead
10.	PARTICIPATION WITH OTHER UTILITIES:	None	None
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	Area reliability/serve increased area capacity.	Support overloads in the Southeastern area due to AEP / ATSI 2015 generation retirements.
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION:	Reduced area reliability	Reduced area reliability
13.	MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	Conesville - Ohio Central	North Bellville - Ohio Central
2.	POINTS OF ORIGIN AND TERMINATION:	Conesville Ohio Central	North Bellville Ohio Central
3.	RIGHT-OF-WAY: LENGTH/WIDTH/CIRCUITS -	2 miles / 150 ft / Conesville - Ohio Central	2 miles / 100 ft / North Bellville - Ohio Central
4.	VOLTAGE: DESIGN/OPERATE	345 kV / 345 kV	138 kV / 138 kV
5.	APPLICATION FOR CERTIFICATE:	To be filed in 2014-2015	To be filed in 2014-2015
6.	CONSTRUCTION:	To be filed in 2014-2015	To be filed in 2014-2015
7.	CAPITAL INVESTMENT:	Approx. \$5 million	Approx. \$1.5 million
8.	PLANNED SUBSTATIONS:		
	NAME -	Overhead	
	TRANS. VOLTAGE -		
	ACREAGE -		
	LOCATION		
9.	SUPPORTING STRUCTURES:	Overhead	Overhead
10.	PARTICIPATION WITH OTHER UTILITIES:	None	None
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	Support overloads in the Southeastern area due to AEP / ATSI 2015 generation retirements.	Support overloads in the Southeastern area due to AEP / ATSI 2015 generation retirements.
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION:	Reduced area reliability	Reduced area reliability
13.	MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	Philo Sw - Ohio Central	Philo Sw - North Muskingum
2.	POINTS OF ORIGIN AND TERMINATION:	Philo Sw Ohio Central	Philo Sw North Muskingum
3.	RIGHT-OF-WAY: LENGTH/WIDTH/CIRCUITS -	2 miles / 100 ft / Philo Sw - Ohio Central	0.5 miles / 100 ft / Philo Sw. - North Muskingum
4.	VOLTAGE: DESIGN/OPERATE	138 kV / 138 kV	138 kV / 138 kV
5.	APPLICATION FOR CERTIFICATE:	To be filed in 2014-2015	To be filed in 2015-2016
6.	CONSTRUCTION:	To be filed in 2014-2015	To be filed in 2015-2016
7.	CAPITAL INVESTMENT:	Approx. \$1.5 million	Approx. \$1.05 million
8.	PLANNED SUBSTATIONS:		
	NAME -		
	TRANS. VOLTAGE -		
	ACREAGE -		
	LOCATION		
9.	SUPPORTING STRUCTURES:	Overhead	Overhead
10.	PARTICIPATION WITH OTHER UTILITIES:	None	None
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	Support overloads in the Southeastern area due to AEP / ATSI 2015 generation retirements.	PJM identified voltage deviations in 2017 for the Muskingum Area.
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION:	Reduced area reliability	Reduced area reliability
13.	MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	Philo Sw - Crooksville	West Bellaire-Brues 138kV #2
2.	POINTS OF ORIGIN AND TERMINATION:	Philo Sw Crooksville	West Bellaire & Brues stations
3.	RIGHT-OF-WAY: LENGTH/WIDTH/CIRCUITS -	0.5 miles / 100 ft / Philo Sw. - Crooksville	4.7 miles/ 100' R/W Width
4.	VOLTAGE: DESIGN/OPERATE	138 kV / 138 kV	138/138
5.	APPLICATION FOR CERTIFICATE:	To be filed in 2015-2016	None required, construction on vacant tower position
6.	CONSTRUCTION:	To be filed in 2015-2016	Oct-13
7.	CAPITAL INVESTMENT:	Approx. \$1.05 million	\$4M
8.	PLANNED SUBSTATIONS:	None	None
	NAME -		
	TRANS. VOLTAGE -		
	ACREAGE -		
	LOCATION		
9.	SUPPORTING STRUCTURES:	Overhead	Double Circuit Lattice Steel Towers
10.	PARTICIPATION WITH OTHER UTILITIES:	None	None
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	PJM identified voltage deviations in 2017 for the Muskingum Area.	Address Reliability Concerns identified by PJM
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION:	Reduced area reliability	Reduced area reliability
13.	MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1. LINE NAME AND NUMBER:	Melmore - Tiffin Center 138 kV	Fostoria Central - East Lima 138 kV
2. POINTS OF ORIGIN AND TERMINATION:	Melmore and Tiffin Center	Fostoria Central - Ebersole
3. RIGHT-OF-WAY: LENGTH/WIDTH/CIRCUITS -	Greenlawn 100 Feet Standard ROW	Ebersole 100 Feet Standard ROW
4. VOLTAGE: DESIGN/OPERATE	138 kV	138 kV
5. APPLICATION FOR CERTIFICATE:	To be filed in 2013	To be filed in 2013
6. CONSTRUCTION:	2014	2014
7. CAPITAL INVESTMENT:	Approx. \$5 million	Approx. \$6 million
8. PLANNED SUBSTATIONS:		
NAME -		
TRANS. VOLTAGE -		
ACREAGE -		
LOCATION		
9. SUPPORTING STRUCTURES:	Overhead	Overhead
10. PARTICIPATION WITH OTHER UTILITIES:	None	None
11. PURPOSE OF THE PLANNED TRANSMISSION LINE:	Reliability Improvement	PJM identified voltage violations
12. CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION:	Reduced area reliability	Reduced area reliability
13. MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	East Amsterdam - Miller Switch	Nottingham - Freebyrd 138 kV
2.	POINTS OF ORIGIN AND TERMINATION:		
	Intermediate Station	Miller Switch Station	Nottingham Station
		East Amsterdam Station	Freebyrd Station
3.	RIGHT-OF-WAY:		4 miles / 100 ft.
	LENGTH/WIDTH/CIRCUITS -	9.7miles/100ft/East Amsterdam - Miller Sw 69kV	
4.	VOLTAGE:		
	DESIGN/OPERATE	138kV / 69kV	138 / 138 kV
5.	APPLICATION FOR CERTIFICATE:	To be submitted July - August 2014	LON Submitted
6.	CONSTRUCTION:	Jan. - Sept. 2015	To start in 2015
7.	CAPITAL INVESTMENT:	\$22.5 Million	\$15 million
8.	PLANNED SUBSTATIONS:		
	NAME -		
	TRANS. VOLTAGE -		
	ACREAGE -		
	LOCATION -		
9.	SUPPORTING STRUCTURES:	Overhead single circuit construction	Steel Poles, double circuit construction
10.	PARTICIPATION WITH OTHER UTILITIES:	none	None
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	Line overloads under normal conditions due to increase in shale gas activity	Serve customer load increase that otherwise would overload existing 69 kV facilities.
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION:	Reduced area reliability	Customer served from South Cadiz-Freebyrd could not increase to full desired load.
13.	MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	Nottingham - Smyrna 138 kV	West Bellaire - Glencoe 138 kV
2.	POINTS OF ORIGIN AND TERMINATION:	Nottingham Station Smyrna Station	West Bellaire Glencoe Switch
3.	RIGHT-OF-WAY:	12 miles / 100 ft.	6 miles / 100 ft.
	LENGTH/WIDTH/CIRCUITS -		
4.	VOLTAGE:		
	DESIGN/OPERATE	138 / 138 kV	138 / 138 kV
5.	APPLICATION FOR CERTIFICATE:	To be filed in 2016	To be Submitted in late 2015 or early 2016
6.	CONSTRUCTION:	To start end of 2017.	To start in 2016 or 2017
7.	CAPITAL INVESTMENT:	\$25 million	\$15 million
8.	PLANNED SUBSTATIONS:		
	NAME -		
	TRANS. VOLTAGE -		
	ACREAGE -		
	LOCATION -		
9.	SUPPORTING STRUCTURES:	Overhead single circuit construction	Steel Poles, double circuit construction
10.	PARTICIPATION WITH OTHER UTILITIES:	none	None
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	Improve reliability and allow customers served off of the East Cambridge - Smyrna 34.5 kV circuit to increase load .	PJM identified thermal and voltage violations.
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT		
	OR TERMINATION:	Customers served off of the East Cambridge - Smyrna 34.5 kV circuit can't increase their load .	Reduced area reliability
13.	MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	Freebyrd - South Cadiz 138 kV	Speidel - Herlan Switch 138 kV
2.	POINTS OF ORIGIN AND TERMINATION:	South Cadiz Freebyrd Station	Speidel Switch Herlan Switch
3.	RIGHT-OF-WAY:	2 miles / 100 ft.	12 miles / 100 ft.
	LENGTH/WIDTH/CIRCUITS -		
4.	VOLTAGE:		
	DESIGN/OPERATE	138 / 138 kV	138 / 138 kV
5.	APPLICATION FOR CERTIFICATE:	LON Submitted	To be Submitted in late 2015 or early 2016
6.	CONSTRUCTION:	To start in 2016	To start in 2016 or 2017
7.	CAPITAL INVESTMENT:	\$6 million	\$25 million
8.	PLANNED SUBSTATIONS:		
	NAME -		
	TRANS. VOLTAGE -		
	ACREAGE -		
	LOCATION		
9.	SUPPORTING STRUCTURES:	Steel Poles, double circuit construction	Steel Poles, single circuit on double circuit construction
10.	PARTICIPATION WITH OTHER UTILITIES:	None	None
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	Serve customer load increase that otherwise would overload existing 69 kV facilities.	Support area shale load growth and other system upgrades. Replace deteriorated 69 kV facilities.
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT		
	OR TERMINATION:	Customer served from South Cadiz-Freebyrd could not increase to full desired load.	Continuing to serve area shale growth and obtaining outages for other required upgrades both become increasingly difficult.
13.	MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	Glencoe - Speidel 138 kV	Tappan-Azalea Road 138kV
2.	POINTS OF ORIGIN AND TERMINATION:	Glencoe Switch Speidel Switch	Yager (proposed) Azalea Road
3.	RIGHT-OF-WAY:	13 miles / 100 ft.	6 miles / 100 ft / 1 circuit
4.	VOLTAGE:	138 / 138 kV	138 kV / 138 kV
5.	APPLICATION FOR CERTIFICATE:	To be Submitted in late 2015 or early 2016	Approx. July 2015
6.	CONSTRUCTION:	To start in 2016 or 2017	To be completed approx. May 2016
7.	CAPITAL INVESTMENT:	\$25 million	Approx. \$10 million
8.	PLANNED SUBSTATIONS:		
	NAME -		
	TRANS. VOLTAGE -		
	ACREAGE -		
	LOCATION		
9.	SUPPORTING STRUCTURES:	Steel Poles, single circuit on double circuit construction	Single steel poles with single circuit
10.	PARTICIPATION WITH OTHER UTILITIES:	None	None
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	Support area shale load growth and other system upgrades. Replace deteriorated 69 kV facilities.	Area reliability/serve increased customer loads
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT		
	OR TERMINATION:	Continuing to serve area shale growth and obtaining outages for other required upgrades both become increasingly difficult.	Reduced area reliability, load curtailed at industrial customers
13.	MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	Yager- Tappan 138kV	Dennison-Yager 69kV (138kV design)
2.	POINTS OF ORIGIN AND TERMINATION:	Yager (proposed) Tappan (proposed)	Dennison Yager (proposed)
3.	RIGHT-OF-WAY:		
	LENGTH/WIDTH/CIRCUITS -	1.8 miles / 100 ft / 2 circuits	7 miles / 100 ft / 1 circuit
4.	VOLTAGE:		
	DESIGN/OPERATE	138 kV design / 138 kV & 69kV operation (double-circuit)	138 kV / 69 kV
5.	APPLICATION FOR CERTIFICATE:	Approx. July 2015	Approx. Oct. 2015
6.	CONSTRUCTION:	To be completed approx. May 2016	To be completed approx. Dec. 2016
7.	CAPITAL INVESTMENT:	Approx. \$2 million	Approx. \$5 million
8.	PLANNED SUBSTATIONS:		
	NAME -		Irish Run Switch (existing)
	TRANS. VOLTAGE -		69kV
	ACREAGE -		0.1
	LOCATION		Ulrichsville, Ohio (Tuscarawas County)
9.	SUPPORTING STRUCTURES:	Single steel poles with double circuit	Single steel poles with single circuit
10.	PARTICIPATION WITH OTHER UTILITIES:	None	None
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	Area reliability/serve increased customer loads	Area reliability/serve increased customer loads
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION:	Reduced area reliability, load curtailed at industrial customers	Reduced area reliability, load curtailed at industrial customers
13.	MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	Yager-Azalea Road 138kV	South Caldwell - Macksburg 138kV
2.	POINTS OF ORIGIN AND TERMINATION:	Yager (proposed) Azalea Road	South Caldwell Macksburg
3.	RIGHT-OF-WAY:	4.6 miles / 100 ft / 1 circuit	8 miles / 100 ft / 1 circuit
4.	VOLTAGE:	138 kV / 138 kV	138 kV / 138 kV
5.	APPLICATION FOR CERTIFICATE:	Approx. July 2015	Approx. July 2015
6.	CONSTRUCTION:	To be completed approx. May 2016	To be completed approx. Dec. 2017
7.	CAPITAL INVESTMENT:	Approx. \$6 million	Approx. \$16 million
8.	PLANNED SUBSTATIONS:	Leesville (existing) 138kV 1 Leesville, Ohio (Carroll County)	South Olive Switch (proposed) 138 kV 0.1 Dexter City, Ohio (Noble County)
9.	SUPPORTING STRUCTURES:	Single steel poles with single circuit	Single steel poles with single circuit
10.	PARTICIPATION WITH OTHER UTILITIES:	None	None
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	Area reliability/serve increased customer loads	Increase area reliability
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION:	Reduced area reliability, load curtailed at industrial customers	Reduced area reliability
13.	MISCELLANEOUS:		

PUCO FORM FE-T9
AEP OHIO TRANSMISSION COMPANY
SPECIFICATION OF PLANNED ELECTRIC TRANSMISSION LINES

1.	LINE NAME AND NUMBER:	Yager-Desert Road 69kV (138kV design)	
2.	POINTS OF ORIGIN AND TERMINATION:	Yager (proposed) Desert Road	
3.	RIGHT-OF-WAY:		
	LENGTH/WIDTH/CIRCUITS -	6.6 miles / 100 ft / 1 circuit	
4.	VOLTAGE:		
	DESIGN/OPERATE	138 kV / 69 kV	
5.	APPLICATION FOR CERTIFICATE:	Approx. Oct. 2015	
6.	CONSTRUCTION:	To be completed approx. Dec. 2016	
7.	CAPITAL INVESTMENT:	Approx. \$6 million	
8.			
	NAME -	West Bowerston Switch (existing)	
	TRANS. VOLTAGE -	69kV	
	ACREAGE -	0.1	
	LOCATION -	Bowerston, Ohio (Harrison County)	
9.	SUPPORTING STRUCTURES:	Single steel poles with single circuit	
10.	PARTICIPATION WITH OTHER UTILITIES:	None	
11.	PURPOSE OF THE PLANNED TRANSMISSION LINE:	Area reliability/serve increased customer loads	
12.	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION:	Reduced area reliability, load curtailed at industrial customers	
13.	MISCELLANEOUS:		

PUCO FORM FE-T10
AEP OHIO TRANSMISSION COMPANY
SUMMARY OF PROPOSED SUBSTATIONS

Substation Name	Voltage(s) (kV)	Type Distribution (D) Transmission (T)	Timing	Line Association(s)	Line Existing or Proposed	Minimum Substation Site Acreage
Biers Run	345/138/69	T	Estimated 6/2015	Don Marquis-Bixby 345 kV	Existing	Approx. 15 acres
Biers Run	345/138/69	T	Estimated 6/2016	Biers Run-Hopetown 138 kV	Proposed	Approx. 15 acres
Biers Run	345/138/69	T	Estimated 6/2017	Biers Run-Circleville 138 kV	Proposed	Approx. 15 acres
Emerald Switch	138	T	Estimated 12/31/2014	Hillsboro-Kenton 138 kV	Existing	Approx. ¼ acre
Firebrick	138/69	T	Estimated 12/31/2016	Sporn-Portsmouth 138 kV	Existing	Approx. 2 acres
Hopetown	138/12	D	Estimated 6/2016	Biers Run-Hopetown 138 kV	Proposed	Approx. 3 acres
Hopetown	138/12	D	Estimated 6/2016	Hopetown-Delano 138 kV	Proposed	Approx. 3 acres
New Market Switch	138	T	Estimated 3/1/2015	Highland-Seaman 138 kV	Existing	Approx. ¼ acre
Melmore	138	T	Estimated 6/1/2016	Melmore - Fremont Center	Proposed	Approx. 5.0 acres
Ebersole	138	T	Estimated 12/30/2015	East Lima - Fostorial Central	Existing	Approx. 5.0 acres
Holloway	345/138kV	T	Estimated 12/30/2015	Beverly-Tidd 345kV; Burger-Cloverdale #1 & #2 & #3 138kV (FE); Burger-Knox 138kV (FE); Burger-Brookside 138kV (FE); Burger-Longview 138kV (FE)	Proposed	Approx 10 acres
North New Lexington	138/69 kV	T	11/1/2017	West Lancaster - Zanesville 138 kV ckt; New Lexington - South Fultonham 69 kV ckt	Existing	Approx. 3 acres
Hazelton	138 kV/12 kV	T	Estimated 6/01/2016	Jug - Kirk 138 kV	Proposed	Approx 1.2 acres
Nottingham Switch	138 kV	T	Estimated 12/2016	Nottingham-Freebyrd 138 kV	Proposed	Approx. 114 acres
Yager	138/69kV	T	Est. 6/1/2016	Dennison-Desert Road 69kV; Yager-Tappan 138kV; Yager-Azalea Road 138kV; Holloway-Cloverdale (FE) 138kV tie-line; Holloway-Harmon #1 (FE) 138kV tie-line	Proposed	Approx. 6 acres

PUCO FORM FE-T10
AEP OHIO TRANSMISSION COMPANY
SUMMARY OF PROPOSED SUBSTATIONS

Tappan	69kV initially, later converted to 138kV	T	10/1/2015 for 69kV, est. 6/1/2016 for 138kV	Dennison-Desert Road 69kV; Yager-Tappan 138kV; Yager-Azalea Road 138kV	Proposed	Approx. 2 acres
Sparrow	138/12 (operated at 69)	T	Estimated Fall 2015	South Cadiz-Black Hawk-Miller Switch 69 kV	Existing	Approx. 1 acre
Gable Switch	138kV	T	Estimated Fall 2015	Carrollton-Tidd 138kV; Gable-South Cadiz 138kV	Proposed	Approx. 1.5 acres
Y2-050 Interconnection Station "Stemple" (Carroll County Energy)	345kV	T	Est. 11/1/16 for backfeed	Canton Central-Tiidd 345kV	Existing	Approx 2.5 acres
Herlan Switch	138kV	T	Est. early 2017	Speidel-Herlan Switch 138 kV	Proposed voltage conversion	Approx. 4 acres
Malaga Switch	138kV	T	Est early 2017	Muskingum-Somerton-Natrium 138 kV & Summerfield-Somerton-Natrium 138 kV	Existing	Approx. 4 acres
South Olive Switch	138 kV	T	Estimated Fall 2017	South Caldwell - Macksburg 138 kV	Proposed	Approx 0.2 acres
Panda Road	138 kV	T	Estimated Late 2015	Tidd-Wagenhals 138kV	Existing	Approx 1 acre
Polo Road	138 kV	T	Estimated June 2015	Polo Road Extension (tap of FE's Burger-Knox 138kV)	Existing	Approx 0.5 acre

APPENDIX

List of Libraries

ADAMS COUNTY PUBLIC LIBRARY
212 E SPARKS ST
WEST UNION OH 45693-1257

LIMA PUBLIC LIBRARY
650 W MARKET ST
LIMA OH 45801-4678

ASHLAND CO PUBLIC LIBRARY
224 CLAREMONT AVE
ASHLAND OH 44805-3093

ATHENS CO PUBLIC LIBRARY
95 W WASHINGTON
NELSONVILLE OH 45764-1134

AUGLAIZE CO PUBLIC LIBRARY
203 S PERRY ST
WAPAKONETA OH 45895-1999

ST CLAIRSVILLE PUBLIC LIBRARY
108 W MAIN ST
ST CLAIRSVILLE OH 43950-1225

BROWN COUNTY PUBLIC LIBRARY
613 S HIGH ST
P O BOX 527
MT ORAB OH 45154

CARROLL CO DISTRICT LIBRARY
70 SECOND ST
CARROLLTON OH 44615-1326

CARNEGIE PUBLIC LIBRARY
219 E FOURTH ST
EAST LIVERPOOL OH 43920-3143

COSHOCTON PUBLIC LIBRARY
655 MAIN ST
COSHOCTON OH 43812-1697

BUCYRUS PUBLIC LIBRARY
200 E MAINSFIELD
BUCYRUS OH 44820-2381

GREENVILLE PUBLIC LIBRARY
520 SYCAMORE ST
GREENVILLE OH 45331-1438

DEFIANCE PUBLIC LIBRARY
320 FORT ST
DEFIANCE OH 43512-2186

DELAWARE COUNTY LIBRARY
84 E WINTER ST
DELAWARE OH 43015-1941

FAIRFIELD CO DISTRICT LIBRARY
219 N BROAD ST
LANCASTER OH 43130-3098

CARNEGIE PUBLIC LIBRARY
127 S NORTH ST
WASHINGTON CH OH 43160-2283

COLUMBUS METRO LIBRARY
96 S GRANT AVE
COLUMBUS OH 43215-4702

DR SAMUEL L BOSSARD MEMORIAL
LIBRARY
7 SPRUCE ST
GALLIPOLIS OH 45631-1220

GUERNSEY CO PUBLIC LIBRARY
800 STEUBENVILLE AVE
CAMBRIDGE OH 43725-8590

FINDLAY HANCOCK COUNTY
PUBLIC DISTRICT LIBRARY
206 BROADWAY
FINDLAY OH 45840-3382

MARY LOU JOHNSON-HARDIN CO
DISTRICT PUBLIC LIBRARY
325 E COLUMBUS ST
KENTON OH 44326-1546

PUSKARICH PUBLIC LIBRARY
200 E MARKET ST
CADIZ OH 43907-1185

PATRICK HENRY SCHOOL DISTRICT
PUBLIC LIBRARY
208 N EAST AVE
DESHLER OH 43516-1280

HIGHLAND CO DISTRICT LIBRARY
10 WILLETTSVILLE PIKE
HILLSBORO OH 45133-8524

LOGAN-HOCKING CO LIBRARY
230 E MAIN ST
LOGAN OH 43138-1356

HOLMES CO PUBLIC LIBRARY
3102 GLEN DR
MILLERSBURG OH 44654-1397

EXTENSION LIBRARY DISTRICT OF
HURON CO - WILLARD MEMORIAL
6 W EMERALD ST
WILLARD OH 44890-1610

JACKSON CITY LIBRARY
21 BROADWAY ST
JACKSON OH 45640-1610

PUBLIC LIBRARY OF
STEUBENVILLE & JEFFERSON CO
407 S 4TH ST
STEUBENVILLE OH 43952-2942

PUBLIC LIBRARY OF MT VERNON &
KNOX CO
201 N MULBERRY ST
MT VERNON OH 43050-2413

BRIGGS LAWRENCE COUNTY
PUBLIC LIBRARY
321 S 4th ST
IRONTON OH 45638-1613

LICKING COUNTY LIBRARY
101 W MAIN ST
NEWARK OH 43055-5054

LOGAN CO DISTRICT LIBRARY
220 N MAIN ST
BELLEFONTAINE OH 43311-2228

HURT/BATTELLE MEM LIBRARY
270 LILLY CHAPEL RD
WEST JEFFERSON OH 43162-1202

MARION PUBLIC LIBRARY
445 E CHURCH ST
MARION OH 43302-4290

MEIGS CO DISTRICT LIBRARY
216 W MAIN ST
POMEROY OH 45769-1032

MONROE CO DISTRICT LIBRARY
96 HOME AVE
WOODSVILLE OH 43793-1232

KATE LOVE-SIMPSON MORGAN
COUNTY LIBRARY
358 E MAIN ST
MCCONNELSVILLE OH 43756-1130

MT GILEAD FREE PUBLIC LIBRARY
41 E HIGH ST
MT GILEAD OH 43338-1429

MUSKINGUM CO LIBRARY SYSTEM
220 N FIFTH ST
ZANESVILLE OH 43701-2508

CALDWELL PUBLIC LIBRARY
517 SPRUCE ST
CALDWELL OH 43724-1289

PAULDING CO CARNEGIE LIBRARY
205 S MAIN ST
PAULDING OH 45879-1492

PERRY CO DISTRICT LIBRARY
117 S JACKSON ST
NEW LEXINGTON OH 43764-1368

PICKAWAY CO PUBLIC LIBRARY
1160 N COURT ST
CIRCLEVILLE OH 43113-1304

GARNET A WILSON PUBLIC
LIBRARY OF PIKE COUNTY
207 N MARKET ST
WAVERLY OH 45690-1138

PUTNAM CO DISTRICT LIBRARY
136 PUTNAM PARKWAY
OTTAWA OH 45875

MANSFIELD-RICHLAND CO LIBRARY
43 W THIRD ST
MANSFIELD OH 44902-1218

CHILLICOTHE AND ROSS COUNTY
PUBLIC LIBRARY
140-146 S PAINT ST
P O BOX 185
CHILLICOTHE OH 45601

BIRCHARD PUBLIC LIBRARY OF
SANDUSKY COUNTY
423 CROGHAN ST
FREMONT OH 43420-2499

PORTSMOUTH PUBLIC LIBRARY
1220 GALLIA ST
PORTSMOUTH OH 45662-4185

TIFFIN-SENECA PUBLIC LIBRARY
77 JEFFERSON ST
TIFFIN OH 44883-2399

STARK COUNTY DISTRICT LIBRARY
715 MARKET AVE N
CANTON OH 44702-1018

AKRON-SUMMIT PUBLIC LIBRARY
60 S HIGH ST
AKRON OH 44326

TUSCARAWAS CO PUBLIC LIBRARY
121 FAIR AVE NW
NEW PHILADELPHIA OH 44663

MARYSVILLE PUBLIC LIBRARY
231 S PLUM ST
MARYSVILLE OH 43040-1596

BRUMBACK LIBRARY
215 W MAIN ST
VAN WERT OH 45891-1695

HERBERT WESCOAT MEM LIBRARY
120 N MARKET ST
MCARTHUR OH 45651-1297

WASHINGTON CO PUBLIC LIBRARY
615 FIFTH ST
MARIETTA OH 45750-1973

WAYNE CO PUBLIC LIBRARY
220 W LIBERTY ST
WOOSTER OH 44691-3514

WOOD COUNTY PUBLIC LIBRARY
251 N MAIN ST
BOWLING GREEN OH 43402-2477

UPPER SANDUSKY COMM LIBRARY
301 N SANDUSKY AVE
UPPER SANDUSKY OH 43351-1139

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in

Case No(s). 15-1501-EL-FOR

Summary: Report -2015 Long-Term Forecast Report electronically filed by Mr. Steven T Nourse on behalf of AEP Ohio Transmission Company