FILE

RECEIVED-DOCKETING DIV
2013 APR 15 PM 3:04
PUCO

Ohio Edison Company
The Cleveland Electric Illuminating Company
The Toledo Edison Company
and
American Transmission Systems, Incorporated

2013 ELECTRIC LONG-TERM FORECAST REPORT TO THE PUBLIC UTILITIES COMMISSION OF OHIO

Case № 13-925-EL-FOR

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business
Technician MN Date Processed APR 15 2013

CERTIFICATE OF SERVICE

I hereby certify that this 2013 Long-Term Forecast Report was filed by Ohio Edison Company, The Cleveland Electric Illuminating Company, The Toledo Edison Company and American Transmission Systems, Incorporated with the Public Utilities Commission of Ohio on April 15, 2013 and that:

1. Pursuant to Rule 4901:5-1-03(F), Ohio Administrative Code, a copy of the 2013 Long-Term Forecast Report has been delivered or mailed on the day of filing to the Office of the Ohio Consumers' Counsel;
2. Pursuant to Rule 4901:5-1-03(G), Ohio Administrative Code, within three days of filing with the Public Utilities Commission of Ohio, a letter—stating that the Long-Term Forecast Report has been filed with the Public Utilities Commission of Ohio and that a copy of the Long-Term Forecast report is available for public inspection at the Public Utilities Commission offices located at 180 East Broad Street, Columbus, Ohio 43215, shall be sent by first class mail to the appropriate county libraries;
3. Pursuant to Rule 4901:5-1-03(H), Ohio Administrative Code, the Applicants shall keep at least one copy of its 2013 Long-Term Forecast Report at its principal business office for public inspection during business hours; and
4. Pursuant to Rule 4901:5-1-03(I), Ohio Administrative Code, the Applicants shall provide a copy of its 2013 Long-Term Forecast Report to any person upon request at a cost to cover the expenses incurred.

William R. Ridmann
Vice President, Rates & Regulatory Affairs
FirstEnergy Service Company
76 South Main Street
Akron, OH 44308-1890
(330) 761-4154

ATTESTATION

This Long-Term Forecast Report filed by Ohio Edison Company, The Cleveland Electric Illuminating Company, The Toledo Edison Company and American Transmission Systems, Incorporated is true and correct to the best of my knowledge and belief.

William R. Ridmann
Vice President, Rates & Regulatory Affairs
FirstEnergy Service Company
76 South Main Street
Akron, OH 44308-1890
(330) 761-4154

SECTION I
TRANSMISSION FORECAST FORMS

4901:5-5-04(B)(1)
PUCO FORM FE-T1: TRANSMISSION ENERGY DELIVERY FORECAST
(Megawatt Hours/Year)[a c]

FirstEnergy System

	Year	(1) Energy Receipts from Generation Sources Connected To The Owner's System Inside Ohio	(2) Energy Receipts from Generation Sources Connected To The System Outside Ohio	(3) Total Energy Receipts From Generation Sources 1 + 2	(4) Energy Receipts At Interconnections With Other Transmission Companies Inside Ohio	(5) Energy Receipts At Interconnections With Other Transmission Companies Outside Ohio	(6) Total Energy Receipts At Interconnections 4 + 5	(7) Total Energy Receipts 3 + 6	(8) Energy Deliveries At Interconnections With Other Transmission Companies Inside Ohio	(9) Energy Deliveries At Interconnections With Other Transmission Companies Outside Ohio	(10) Total Energy Deliveries At Interconnections 8 + 9	(11) Total Energy Deliveries For Load Connected To The System[c] 7 - 10	(12) Energy Deliveries For Loads Connected To The System Inside Ohio	(13) Energy Deliveries For Loads Connected To The System Outside Ohio
			-											
-5	2008	71,213,372	-	71,213,372	13,215,136	13,425,474	26,640,610	97,853,982	7,076,940	18,972,838	26,051,778	71,852,782	66,187,876	5,664,906
-4	2009	71,818,247	-	71,213,372	11,763,919	14,994,644	26,758,563	97,853,982	7,323,180	21,450,812	28,773,992	69,844,635	64,353,926	5,490,709
-3	2010	55,301,008	-	55,301,008	13,621,064	16,321,224	29,942,288	85,243,296	5,999,680	15,525,294	21,524,974	63,718,322	58,943,713	4,774,609
-2	2011	58,708,389	-	58,708,389	16,258,613	13,498,208	29,756,821	88,465,211	4,446,906	15,128,995	19,575,901	68,889,310	63,410,852	5,478,458
-1	2012	53,943,857	-	53,943,857	15,569,290	19,295,854	34,865,144	88,809,001	4,839,221	13,616,164	18,455,385	70,353,616	57,354,651	12,998,965
				-										
0	2013	56,584,616	-	53,943,857	15,670,459	19,295,854	34,865,144	88,809,001	4,839,221	13,616,164	18,455,385	67,808,578	57,354,651	10,453,927
1	2014	55,001,107	-	55,001,107	15,874,434	19,674,035	35,548,469	90,549,576	4,934,065	13,883,028	18,817,094	69,137,564	64,138,299	4,999,265
2	2015	55,271,441	-	55,271,441	15,952,457	19,770,734	35,723,191	90,994,632	4,958,316	13,951,264	18,909,581	69,477,379	64,475,355	5,002,024
3	2016	55,187,416	-	55,187,416	15,928,206	19,740,678	35,668,884	90,856,301	4,950,779	13,930,055	18,880,834	69,371,758	64,386,552	4,985,206
4	2017	54,960,735	-	54,960,735	15,862,781	19,659,594	35,522,375	90,483,110	4,930,444	13,872,838	18,803,281	69,086,815	64,064,245	5,022,569
5	2018	54,748,991	-	54,748,991	15,801,668	19,583,852	35,385,520	90,134,512	4,911,448	13,819,391	18,730,839	68,820,648	63,751,957	5,068,692
6	2019	54,116,046	-	54,116,046	15,618,987	19,357,446	34,976,433	89,092,479	4,854,668	13,659,627	18,514,294	68,025,023	62,914,383	5,110,640
7	2020	53,370,864	-	53,370,864	15,403,912	19,090,893	34,494,805	87,865,669	4,787,819	13,471,533	18,259,351	67,088,313	61,942,515	5,145,798
8	2021	52,795,387	-	52,795,387	15,237,818	18,885,043	34,122,862	86,918,249	4,736,194	13,326,275	18,062,468	66,364,927	61,187,119	5,177,808
9	2022	52,200,198	-	52,200,198	15,066,035	18,672,143	33,738,177	85,938,375	4,682,800	13,176,041	17,858,841	65,616,761	60,396,985	5,219,776
10	2023	51,677,228	-	51,677,228	14,915,095	18,485,075	33,400,170	85,077,398	4,635,885	13,044,036	17,679,921	64,959,377	59,695,897	5,263,480

[a] To be filled out by electric transmission owners operating in Ohio.

[b] Data excludes firm off-system power sales.

[c] These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

4901:5-5:04 (B)(2)
PUCO Form FE-T2: Electric Transmission Owner's System
Seasonal Peak Load Demand Forecast (Megawatts)[a e f]

FirstEnergy System

		Native Load[b]		Internal Load[c]	
	Year	Summer	Winter[d]	Summer	Winter
-5	2008	12,494	9,985	12,972	10,463
-4	2009	12,052	10,429	12,310	10,687
-3	2010	12,919	10,452	13,177	10,710
-2	2011	13,774	9,891	14,032	10,149
-1	2012	13,774	9,891	14,032	10,149
0	2013	12,651	9,999	12,852	10,200
1	2014	12,661	9,876	12,862	10,077
2	2015	12,890	9,968	12,890	9,968
3	2016	12,895	9,870	12,895	9,870
4	2017	12,916	9,832	12,916	9,832
5	2018	12,843	9,699	12,843	9,699
6	2019	12,830	9,672	12,830	9,672
7	2020	12,842	9,645	12,842	9,645
8	2021	12,849	9,616	12,849	9,616
9	2022	12,845	9,584	12,845	9,584
10	2023	12,829	9,550	12,829	9,550

[a] To be filled out by electric transmission owners in Ohio.
[b] Excludes interruptible load.
[c] Internal Load equals Native.
[d] Winter load reference is to peak loads which follow the summer peak load.
[e] All loads exclude firm off-system power sales.
[f] These data include load for Pennsylvania Power as well as the 3 Ohio companies.

4901:5-5:04 (B)(3)(a)
PUCO Form FE-T3: Electric Transmission Owner's
Total Monthly Energy Forecast (Megawatt-Hours/Month) [d]

FirstEnergy System

	Ohio Portion[a]	Total Service Area[b]	Total System[c e]
Year 0-2013			
January*	5,041,000	5,489,000	5,489,000
February*	4,646,000	5,046,000	5,046,000
March	4,797,000	5,208,000	5,208,000
April	4,306,000	4,666,000	4,666,000
May	4,455,000	4,823,000	4,823,000
June	4,816,000	5,201,000	5,201,000
July	5,255,000	5,671,000	5,671,000
August	5,427,000	5,852,000	5,852,000
September	4,479,000	4,830,000	4,830,000
October	4,448,000	4,818,000	4,818,000
November	4,496,000	4,878,000	4,878,000
December	5,097,000	5,519,000	5,519,000
Year 1-2014			
January	5,391,000	5,845,000	5,845,000
February	4,765,000	5,175,000	5,175,000
March	4,878,000	5,297,000	5,297,000
April	4,387,000	4,756,000	4,756,000
May	4,538,000	4,914,000	4,914,000
June	4,888,000	5,281,000	5,281,000
July	5,338,000	5,762,000	5,762,000
August	5,505,000	5,938,000	5,938,000
September	4,550,000	4,905,000	4,905,000
October	4,490,000	4,862,000	4,862,000
November	4,518,000	4,903,000	4,903,000
December	5,134,000	5,561,000	5,561,000

[a] Electric transmission owner shall provide or cause to be provided data for the Ohio portion of its service area in this column.

[b] Electric transmission owner operating across Ohio boundries shall provide or cause to be provided data for *the total service area in this column.*

[c] Electric transmission owner operating as a part of an integrated operating system shall provide for the total system in this column.

[d] Actual data shall be indicated with an asterisk (*).

[e] These data include load for Pennsylvania Power as well as the 3 Ohio companies

4901:5-5:04 (B)(3)(b)
PUCO Form FE-T4: Electric Transmission Owner's
Monthly Internal Peak Load Forecast (Megawatts) [d]

FirstEnergy System

	Ohio Portion[a]	Total Service Area[b]	System[c e]
Year 0-2013			
January*	9,461	10,276	10,276
February*	9,235	9,968	9,968
March	8,878	9,598	9,598
April	9,090	9,757	9,757
May	9,847	10,525	10,525
June	11,737	12,613	12,613
July	11,939	12,829	12,829
August	11,946	12,852	12,852
September	10,516	11,337	11,337
October	8,975	9,629	9,629
November	8,616	9,303	9,303
December	9,405	10,200	10,200
Year 1-2014			
January	9,392	10,170	10,170
February	9,157	9,916	9,916
March	8,743	9,461	9,461
April	8,978	9,641	9,641
May	9,764	10,446	10,446
June	11,687	12,565	12,565
July	11,921	12,812	12,812
August	11,955	12,862	12,862
September	10,540	11,363	11,363
October	9,006	9,665	9,665
November	8,497	9,184	9,184
December	9,282	10,077	10,077

[a] Electric transmission owner shall provide or cause to be provided data for the Ohio portion of its service area in this column.
[b] Electric transmission owner operating across Ohio boundries shall provide or cause to be provided data for the total service area
[c] Electric transmission owner operating as a part of an integrated operating system shall provide for the total system in this column.
[d] Actual data shall be indicated with an asterisk (*).
[e] These data include load for Pennsylvania Power as well as the 3 Ohio companies.

4901:5-5-04(B)(3)(c)(i)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: January 2012

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	4,622,111	-	4,622,111
Energy Receipts from other sources	2,853,840	-	2,853,840
Total Energy Receipts	7,475,951	-	7,475,951

4901:5-5-04(B)(3)(c)(I)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: February 2012

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	4,316,025	-	4,316,025
Energy Receipts from other sources	2,623,520	-	2,623,520
Total Energy Receipts	6,939,545	-	6,939,545

4901:5-5-04(B)(3)(c)(i)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: March 2012

1. *Energy Receipts from all sources by type: (MWh)*

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	4,468,715	-	4,468,715
Energy Receipts from other sources	2,237,059	-	2,237,059
Total Energy Receipts	6,705,774	-	6,705,774

4901:5-5-04(B)(3)(c)(I)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: April 2012

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	4,807,211	-	4,807,211
Energy Receipts from other sources	2,222,908	-	2,222,908
Total Energy Receipts	7,030,119	-	7,030,119

4901:5-5-04(B)(3)(c)(i)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: May 2012

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	5,001,288	-	5,001,288
Energy Receipts from other sources	2,232,401	-	2,232,401
Total Energy Receipts	7,233,689	-	7,233,689

4901:5-5-04(B)(3)(c)(i)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: June 2012

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	4,911,233	-	4,911,233
Energy Receipts from other sources	3,098,205	-	3,098,205
Total Energy Receipts	8,009,438	-	8,009,438

4901:5-5-04(B)(3)(c)(I)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: July 2012

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	6,012,836	-	6,012,836
Energy Receipts from other sources	3,057,642	-	3,057,642
Total Energy Receipts	9,070,478	-	9,070,478

4901:5-5-04(B)(3)(c)(i)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: August 2012

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	4,762,951	-	4,762,951
Energy Receipts from other sources	3,444,604	-	3,444,604
Total Energy Receipts	8,207,555	-	8,207,555

4901:5-5-04(B)(3)(c)(I)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: September 2012

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	3,099,428	-	3,099,428
Energy Receipts from other sources	2,907,486	-	2,907,486
Total Energy Receipts	6,006,914	-	6,006,914

4901:5-5-04(B)(3)(c)(i)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: October 2012

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	3,597,255	-	3,597,255
Energy Receipts from other sources	2,840,912	-	2,840,912
Total Energy Receipts	6,438,167	-	6,438,167

4901:5-5-04(B)(3)(c)(i)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: November 2012

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	3,893,364	-	3,893,364
Energy Receipts from other sources	3,562,749	-	3,562,749
Total Energy Receipts	7,456,113	-	7,456,113

4901:5-5-04(B)(3)(c)(i)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: December 2012

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	4,451,440	-	4,451,440
Energy Receipts from other sources	3,783,818	-	3,783,818
Total Energy Receipts	8,235,258	-	8,235,258

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: January 2012

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,905,942	-	4,905,942
Other Investor-Owned Electric Utilities	1,197,704	-	1,197,704
Coorperative-Owned Electric System	106,852	-	106,852
Municipal-Owned Electric Systems	443,125	-	443,125
Federal and State Electric Agencies	37,526	-	37,526
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service	-	-	-
Total Energy Delivery	6,691,148	-	6,691,148

Reporting Month: January 2012

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,508,857	-	4,508,857
Other Investor-Owned Electric Utilities	-	-	-
Coorperative-Owned Electric System	106,852	-	106,852
Municipal-Owned Electric Systems	443,125	-	443,125
Federal and State Electric Agencies	37,526	-	37,526
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service	-	-	-
Total Energy Delivery	5,096,359	-	5,096,359

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: February 2012

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission	Non-Firm Transmission	Total
	Service	Service	
For Distribution Service:			
Affiliated Electric Utility Companies	4,475,663	-	4,475,663
Other Investor-Owned Electric Utilities	1,269,816	-	1,269,816
Coorperative-Owned Electric System	94,686	-	94,686
Municipal-Owned Electric Systems	409,329	-	409,329
Federal and State Electric Agencies	38,856	-	38,856
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	6,288,350	-	6,288,350

Reporting Month: February 2012

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission	Non-Firm Transmission	Total
	Service	Service	
For Distribution Service:			
Affiliated Electric Utility Companies	4,092,381	-	4,092,381
Other Investor-Owned Electric Utilities	-	-	-
Coorperative-Owned Electric System	94,686	-	94,686
Municipal-Owned Electric Systems	409,329	-	409,329
Federal and State Electric Agencies	38,856	-	38,856
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	4,635,253	-	4,635,253

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: March 2012

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,382,477	-	4,382,477
Other Investor-Owned Electric Utilities	1,288,118	-	1,288,118
Coorperative-Owned Electric System	81,696	-	81,696
Municipal-Owned Electric Systems	409,855	-	409,855
Federal and State Electric Agencies	35,134	-	35,134
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	6,197,280	-	6,197,280

Reporting Month: March 2012

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	3,987,029	-	3,987,029
Other Investor-Owned Electric Utilities	-	-	-
Coorperative-Owned Electric System	81,696	-	81,696
Municipal-Owned Electric Systems	409,855	-	409,855
Federal and State Electric Agencies	35,134	-	35,134
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	4,513,715	-	4,513,715

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: April 2012

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission	Non-Firm Transmission	Total
	Service	Service	
For Distribution Service:			
Affiliated Electric Utility Companies	4,048,753	-	4,048,753
Other Investor-Owned Electric Utilities	1,566,232	-	1,566,232
Coorperative-Owned Electric System	75,773	-	75,773
Municipal-Owned Electric Systems	400,280	-	400,280
Federal and State Electric Agencies	34,787	-	34,787
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	6,125,825	-	6,125,825

Reporting Month: April 2012

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission	Non-Firm Transmission	Total
	Service	Service	
For Distribution Service:			
Affiliated Electric Utility Companies	3,685,247	-	3,685,247
Other Investor-Owned Electric Utilities	-	-	-
Coorperative-Owned Electric System	75,773	-	75,773
Municipal-Owned Electric Systems	400,280	-	400,280
Federal and State Electric Agencies	34,787	-	34,787
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	4,196,087	-	4,196,087

4901:5-5-04(B)(3)(c)(II)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: May 2012

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission	Non-Firm Transmission	Total
	Service	Service	
For Distribution Service:			
Affiliated Electric Utility Companies	4,535,974	-	4,535,974
Other Investor-Owned Electric Utilities	1,877,637	-	1,877,637
Coorperative-Owned Electric System	76,891	-	76,891
Municipal-Owned Electric Systems	426,407	-	426,407
Federal and State Electric Agencies	43,074	-	43,074
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	6,959,983	-	6,959,983

Reporting Month: May 2012

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission	Non-Firm Transmission	Total
	Service	Service	
For Distribution Service:			
Affiliated Electric Utility Companies	4,136,852	-	4,136,852
Other Investor-Owned Electric Utilities	-	-	-
Coorperative-Owned Electric System	76,891	-	76,891
Municipal-Owned Electric Systems	426,407	-	426,407
Federal and State Electric Agencies	43,074	-	43,074
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	4,683,224	-	4,683,224

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: June 2012

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,856,529	-	4,856,529
Other Investor-Owned Electric Utilities	1,938,118	-	1,938,118
Coorperative-Owned Electric System	85,760	-	85,760
Municipal-Owned Electric Systems	427,132	-	427,132
Federal and State Electric Agencies	35,955	-	35,955
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	7,343,493	-	7,343,493

Reporting Month: June 2012

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,447,448	-	4,447,448
Other Investor-Owned Electric Utilities	-	-	-
Coorperative-Owned Electric System	85,760	-	85,760
Municipal-Owned Electric Systems	427,132	-	427,132
Federal and State Electric Agencies	35,955	-	35,955
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	4,996,295	-	4,996,295

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: July 2012

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission	Non-Firm Transmission	Total
	Service	Service	
For Distribution Service:			
Affiliated Electric Utility Companies	5,687,183	-	5,687,183
Other Investor-Owned Electric Utilities	2,200,059	-	2,200,059
Coorperative-Owned Electric System	104,754	-	104,754
Municipal-Owned Electric Systems	482,604	-	482,604
Federal and State Electric Agencies	43,645	-	43,645
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	8,518,245	-	8,518,245

Reporting Month: July 2012

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission	Non-Firm Transmission	Total
	Service	Service	
For Distribution Service:			
Affiliated Electric Utility Companies	5,205,378	-	5,205,378
Other Investor-Owned Electric Utilities	-	-	-
Coorperative-Owned Electric System	104,754	-	104,754
Municipal-Owned Electric Systems	482,604	-	482,604
Federal and State Electric Agencies	43,645	-	43,645
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	5,836,381	-	5,836,381

4901:5-5-04(B)(3)(c)(II)

PUCO FORM FE-T5: **MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR**

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: **August 2012**

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission	Non-Firm Transmission	Total
	Service	Service	
For Distribution Service:			
Affiliated Electric Utility Companies	5,113,665	-	5,113,665
Other Investor-Owned Electric Utilities	1,706,980	-	1,706,980
Coorperative-Owned Electric System	89,346	-	89,346
Municipal-Owned Electric Systems	439,523	-	439,523
Federal and State Electric Agencies	41,514	-	41,514
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	7,391,028	-	7,391,028

Reporting Month: **August 2012**

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission	Non-Firm Transmission	Total
	Service	Service	
For Distribution Service:			
Affiliated Electric Utility Companies	4,708,506	-	4,708,506
Other Investor-Owned Electric Utilities	-	-	-
Coorperative-Owned Electric System	89,346	-	89,346
Municipal-Owned Electric Systems	439,523	-	439,523
Federal and State Electric Agencies	41,514	-	41,514
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	5,278,889	-	5,278,889

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: September 2012

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,323,889	-	4,323,889
Other Investor-Owned Electric Utilities	717,240	-	717,240
Coorperative-Owned Electric System	75,812	-	75,812
Municipal-Owned Electric Systems	372,809	-	372,809
Federal and State Electric Agencies	32,092	-	32,092
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	5,521,842	-	5,521,842

Reporting Month: September 2012

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	3,981,786	-	3,981,786
Other Investor-Owned Electric Utilities	-	-	-
Coorperative-Owned Electric System	75,812	-	75,812
Municipal-Owned Electric Systems	372,809	-	372,809
Federal and State Electric Agencies	32,092	-	32,092
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	4,462,498	-	4,462,498

4901:5-5-04(B)(3)(c)(II)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: October 2012

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,232,107	-	4,232,107
Other Investor-Owned Electric Utilities	1,108,121	-	1,108,121
Coorperative-Owned Electric System	79,094	-	79,094
Municipal-Owned Electric Systems	405,992	-	405,992
Federal and State Electric Agencies	44,506	-	44,506
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	5,869,820	-	5,869,820

Reporting Month: October 2012

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	3,883,122	-	3,883,122
Other Investor-Owned Electric Utilities	-	-	-
Coorperative-Owned Electric System	79,094	-	79,094
Municipal-Owned Electric Systems	405,992	-	405,992
Federal and State Electric Agencies	44,506	-	44,506
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	4,412,714	-	4,412,714

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: **MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR**

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: **November 2012**

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission	Non-Firm Transmission	Total
	Service	Service	
For Distribution Service:			
Affiliated Electric Utility Companies	4,314,603	-	4,314,603
Other Investor-Owned Electric Utilities	1,490,056	-	1,490,056
Coorperative-Owned Electric System	87,458	-	87,458
Municipal-Owned Electric Systems	404,830	-	404,830
Federal and State Electric Agencies	55,960	-	55,960
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	6,352,907	-	6,352,907

Reporting Month: **November 2012**

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission	Non-Firm Transmission	Total
	Service	Service	
For Distribution Service:			
Affiliated Electric Utility Companies	3,933,448	-	3,933,448
Other Investor-Owned Electric Utilities	-	-	-
Coorperative-Owned Electric System	87,458	-	87,458
Municipal-Owned Electric Systems	404,830	-	404,830
Federal and State Electric Agencies	55,960	-	55,960
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	4,481,696	-	4,481,696

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: December 2012

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission	Non-Firm Transmission	Total
	Service	Service	
For Distribution Service:			
Affiliated Electric Utility Companies	4,589,503	-	4,589,503
Other Investor-Owned Electric Utilities	2,095,304	-	2,095,304
Coorperative-Owned Electric System	98,384	-	98,384
Municipal-Owned Electric Systems	426,521	-	426,521
Federal and State Electric Agencies	55,437	-	55,437
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	7,265,149	-	7,265,149

Reporting Month: December 2012

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission	Non-Firm Transmission	Total
	Service	Service	
For Distribution Service:			
Affiliated Electric Utility Companies	4,181,198	-	4,181,198
Other Investor-Owned Electric Utilities	-	-	-
Coorperative-Owned Electric System	98,384	-	98,384
Municipal-Owned Electric Systems	426,521	-	426,521
Federal and State Electric Agencies	55,437	-	55,437
Other end user service	-	-	-
For Non Distribution service (transmission to transm	-	-	-
Total Energy Delivery	4,761,540	-	4,761,540

4901:5-5-04(B)(3)(c)(iii)

PUCO FORM FE-T5: **MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH) FOR THE MOST RECENT YEAR**

FirstEnergy System

PART C: LOSSES AND UNACCOUNTED FOR (MWh)

		Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)				
January	2012	784,802	-	784,802
February	2012	651,195	-	651,195
March	2012	508,494	-	508,494
April	2012	904,293	-	904,293
May	2012	273,706	-	273,706
June	2012	665,945	-	665,945
July	2012	552,233	-	552,233
August	2012	816,527	-	816,527
September	2012	485,072	-	485,072
October	2012	568,348	-	568,348
November	2012	1,103,206	-	1,103,206
December	2012	970,110	-	970,110

(a) FE2-T5: Part A minus Part B (1)

4901:5-5-04(B)(4)
PUCO Form FE-:T6

Conditions at Time of Monthly Peak
(Megawatts)

Date Mo/Day/Yr	Hour	Peak MWs	Scheduled Transmission Outages (Y/N)	Unscheduled Transmission Outages (Y/N)	Emergency Operating Procedures
01/03/12	18	10,120	N	N	
02/08/12	19	9,392	N	N	
03/05/12	19	9,425	N	N	
04/11/12	9	8,466	N	N	
05/25/12	15	11,034	N	N	
06/28/12	16	12,791	N	N	
07/17/12	15	13,515	N	N	
08/03/12	15	12,860	N	N	
09/06/12	15	11,481	N	N	
10/29/12	19	8,717	N	N	
11/27/12	18	9,334	N	N	
12/11/12	18	9,620	N	N	

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Ohio Edison Company Area

	Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
	List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
1.	Avon- Beaver #1	Pointof interconnection with CEI (O) Beaver (T)	982	1139	1149	1275	345	345	9.74	150	Steel Tower	1	1	
2.	Beaver- Carlisle	Beaver (O) Carlisle (T)	982	1,139	1149	1243	345	345	17.80	150	Steel Tower & 1 Steel Pole	1	1	
3.	Beaver Valley- Sammis	Beaver Valley (DL) (O) (IC point) Sammis (T)	1506	1793	1701	1793	345	345	0.21 0.17	130 150	Wood "H" Frame Steel Tower	1	1	
4.	Canton Central- Hanna	Canton Central (OP) (O) (IC point) Hanna (T)	1555	1889	1766	2160	345	345	0.07	150	Steel Tower	1	1	
5.	Hanna- Highland	Hanna (O) Highland (T)	1506	1554	1554	1554	345	345	23.76 0.70	130 150	Wood "H" Frame Steel Tower	1	1	
6.	Hanna- Juniper	Hanna (O) Point of interconnection with CEI(T)	1435	1742	1766	1793	345	345	0.07	150	Steel Tower	1	1	
7.	Juniper- Star	Point of interconnection with CEI(O) Star (T)	1396	1666	1717	1906	345	345	18.16	150	Steel Tower	1	1	
8.	South Canton- Star	South Canton (OP) (O) (IC point) Star (T)	1435	1742	1702	1989	345	345	33.42	150	Steel Tower	1	1	
9.	Sammis- Highland	Sammis (O) Highland (T)	877	877	877	877	345	345	49.52	150	Steel Tower	1	1	
10.	Sammis- South Canton	Sammis (O) South Canton (OP) (T) (IC pt)	1506	1841	1701	2186	345	345	46.69	150	Steel Tower	1	1	
11.	Sammis- Star	Sammis (O) Star (T)	1435	1554	1554	1554	345	345	66.86 1.87	150 130	Steel Tower Wood "H" Frame	1	1	
12.	Sammis- Wylie Ridge	Sammis (O) Wylie Ridge (MP) (T)	2444	2689	2505	2689	345	345	3.93	150	Steel Tower	1	1	
30.	Chamberlin- Harding	Chamberlin Point of interconnection with CEI (T)	1555	1889	1766	2160	345	345	7.40	150 120	Steel Tower Steel Pole	1	1	

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Ohio Edison Company Area

	Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
	List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terimus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground, Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
31.	Beaver Valley- Hanna	Beaver Valley (DL) (O) (IC point) Hanna (T)	1195	1195	1195	1195	345	345	2.10 50.60	130 150	Wood "H" Frame Steel Tower & 1-Steel Pole	1	1	
32.	Mansfield- Highland	Mansfield (O) Highland (T)	1380	1554	1554	1554	345	345	40.77	150	Steel Tower & 1-Steel Pole	1	1	
33.	Highland- Shenango	Highland (O) Shenango (T)	1503	1554	1554	1554	345	345	19.32	120 120 150	Wood Pole Steel Pole & Steel Tower	1	1	
36.	Hyatt- Tangy	Hyatt (OP) (O) (IC pt) Tangy (T)	1560	1735	1735	1735	345	345	3.10	150	Steel Tower	1	1	
37.	Marysville- Tangy	Marysville (OP) (O) (IC pt) Tangy (T)	897	916	1138	1138	345	345	3.10	150	Steel Tower	1	1	
38.	Chamberlin- Mansfield	Chamberlin (O) Mansfield (T)	1380	1635	1643	1643	345	345	78.25	150 120 130	Steel Tower Steel Pole & Wood "H" Frame	1	1	
40.	Beaver- Davis-Besse	Beaver (O) OE Boundary to TE (T)	1435	1742	1702	1989	345	345	44.23	150 120	Steel Tower & Steel Pole	1	1	
43.	Avon- Beaver #2	Point of interconnection with CEI (O) Beaver (T) #2	982	1139	1149	1275	345	345	11.01 1.60	150 120	Steel Tower Steel Pole	1	1	
47	Carlisle- North Medina	Carlisle (O) North Medina(T)	1245	1463	1463	1463	345	345	16.64	150	Steel Tower	1 1	1 1	
48	North Medina- Star	North Medina (O) Star (T)	1506	1841	1701	2186	345	345	20.56	150	Steel Tower	1	1	
200.	West Akron- Aetna	West Akron (O) Aetna (T)	86	86	86	86	138	138	8.45	110	Steel Tower	1	1	
201.	Evergreen- Highland #3	Evergreen (O) Highland (T) #3	157	192	180	228	138	138	4.43 0.76 1.88	100 110 60	Wood "H" Frame Steel tower Single Wood	1	1	Burton

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Ohio Edison Company Area

	Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
	List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terimus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground, Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
202.	Bluebell- Alliance Casting	Bluebell (O) Alliance Casting	86	86	86	86	138	138	0.86	60	Single Wood Pole	1	1	
203.	Barberton- Babcox & Wilcox	Barberton (O) Babcox and Wilcox (T)	57	57	57	57	138	138	0.29 0.48	100 110	Wood "H" Frame Steel Tower	1	1	
204.	Barberton- Cloverdale	Barberton (O) Cloverdale (T)	167	212	221	284	138	138	23.56 0.19	110 60	Steel Tower Steel Pole	1	1	
205.	Barberton- Star North	Barberton (O) Star (T) North	196	235	239	300	138	138	3.64 1.22	110 100	Steel Tower Wood "H" Frame	1	1	
206.	Barberton- Star South	Barberton (O) Star (T) South	208	249	246	300	138	138	2.55 1.46 1.74	100 60 110	Wood "H" Frame Steel Pole Steel Tower	1	1	
207.	Barberton- West Akron	Barberton (O) West Akron (T)	225	281	263	287	138	138	9.72	110	Steel Tower	1	1	
208.	E. Springfield- London	East Springfield (O) London (T)	200	215	215	215	138	138	18.37	110	Steel Tower	1	1	
210.	Beaver- Ford	Beaver (O) Ford (T)	200	242	226	286	138	138	0.89	110	Steel Tower	1	1	
211.	Beaver- Johnson	Beaver (O) Johnson (T)	233	281	250	306	138	138	13.10	100 100	Steel Tower Wood "H" Frame	1	1	
212.	Beaver- NASA	Beaver (O) NASA (T)	160	192	180	228	139	138	28.27 0.18	110 60	Steel Tower Single Wood Pole	1	1	
213.	Bluebell- Canton Central	Bluebell (O) Canton Central (OP) (T) (IC pt)	266	266	266	266	138	138	17.88	110	Steel Tower	1	1	
214.	Bluebell- Highland	Bluebell (O) Highland (T)	103	132	147	164	138	138	22.69	110	Steel Tower	1	1	Commerce
215.	Boardman- Riverbend	Boardman (O) Riverbend (T)	223	223	223	223	138	138	10.52 0.13	100 60	Steel Tower & Wood Pole	1	1	Wickliffe

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Ohio Edison Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terimus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground, Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
216. Boardman-Shenango	Boardman (O) Shenango (PP) (T)	130	167	183	186	138	138	11.68 4.43 1.78	110 100 60	Steel Tower Wood "H" Frame Steel Pole	1	1	
217. Brookside-Cloverdale	Brookside (O) Cloverdale (T)	225	290	250	306	138	138	42.09	110	Steel Tower	1	1	Ross
218. Cloverdale-East Wooster	Cloverdale (O) East Wooster (OP) (T) (IC pt)	161	194	182	230	138	138	20.19	100	Steel Tower	1	1	
219. Brookside-Leaside	Brookside (O) Leaside (T)	152	179	182	205	138	138	24.54	110	Steel Tower	1	1	
220. Brookside-Howard	Brookside (O) Howard (OP) (T) (IC pt)	160	192	180	228	138	138	13.74	110	Steel Tower	1	1	
221. Brookside-Longview East #2	Brookside (O) Longview (T) (East Line)	160	192	180	210	138	138	13.83	110	Steel Tower	1	1	
222. Brookside-Longview West #1	Brookside (O) Longview (T) (West Line)	153	192	180	210	138	138	13.84	110	Steel Tower	1	1	Madison
223. Burger-Knox	Burger (O) Knox (T)	128	142	142	142	138	138	68.57	100	Wood "H" Frame & Steel Tower	1	1	
225. Burger-Cloverdale #1	Burger (O) Cloverdale (T) (#1 Line)	128	133	133	133	138	138	2.17 72.45	110 100	Steel Tower Wood "H" Frame			
226. Burger-Cloverdale #2	Burger (O) Cloverdale (T) (#2 Line)	140	140	140	140	138	138	74.35 0.23	110 100	Steel Tower Wood "H" Frame	1	1	
227. Burger-Cloverdale #3	Burger (O) Cloverdale (T) (#3 Line)	140	140	140	140	138	138	74.34 0.24	110 100	Steel Tower Wood "H" Frame	1	1	
229. Canton Central-Cloverdale	Canton Central (OP) (O) (IC pt) Cloverdale (T)	161	194	182	210	138	138	12.19	110	Steel Tower	1	1	
230. Johnson-Lorain	Johnson (O) Lorain SW ST (CEI) (T)	161	194	182	230	138	138	3.48	110	Steel Tower	1	1	

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Ohio Edison Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terimus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
231. Cloverdale-Star	Cloverdale (O) Star (T)	167	212	221	287	138	138	23.57	110	Steel Tower	1	1	
232. Cloverdale-Torrey	Cloverdale (O) Torrey (OP) (T) (IC pt)	200	242	226	286	138	138	6.85	110	Steel Tower	1	1	
233. Delaware-Tangy	Delaware (CSOE) (O) Tangy (T)	225	273	263	273	138	138	0.97	100	Wood "H" Frame	1	1	
234. E. Akron-Gilchrist	East Akron (O) Gilchrist (T)	187	191	211	211	138	138	3.89	110	Steel Tower	1	1	
235. E. Akron-W. Ravenna	East Akron (O) West Ravenna (T)	176	225	222	229	138	138	7.95 3.75	100 110	Wood "H" Frame Steel Tower	1	1	
236. Clark-E. Springfield	Clark (O) East Springfield (T)	200	242	226	286	138	138	2.22 3.79 6.93	100 110 60	Wood "H" Frame Steel Tower Wood Pole	1	1	Airpark
237. E. Springfield-Tangy	East Springfield (O) Tangy (T)	152	179	180	205	138	138	3.99 41.24	110 100	Steel Tower Wood "H" Frame	1	1	Mill Creek Bellepoint
238. Edgewater-Beaver	Edgewater (O) Beaver (T)	233	281	250	306	138	138	0.19 12.15	100 110	Wood "H" Frame Steel Tower			
239. Edgewater-USS/Kobe	Edgewater (O) USS/Kobe Steel (T)	158	158	158	158	138	138	3.00	110	Steel Tower	1	1	
240. Longview-Armco Steel	Longview (O) Armco Steel (T)	160	192	180	228	138	138	0.12 2.15	110 100	Steel Tower Wood "H" Frame	1	1	Empire Switching Station
241. Evergreen-Ivanhoe	Evergreen (O) Ivanhoe (T)	160	192	180	228	138	138	2.79 6.53	110 100	Steel Tower Wood "H" Frrame	1	1	Franklin Bridge
242. Evergreen-Highland #2	Evergreen (O) Highland (T) (#2 Line)	200	242	226	286	138	138	0.17 2.50	100 110	Wood "H" Frame Steel Tower	1	1	
243. Evergreen-Highland #1	Evergreen (O) Highland (T) (#1 Line)	200	242	226	286	138	138	2.68	110	Steel Tower	1	1	
244. Greenfield-Visteon	Greenfield (O) Visteon (T)	57	57	57	57	138	138	0.76 1.18	110 100	Steel Tower Wood "H" Frame	1	1	
245. Galion-Roberts North	Galion (O) Roberts (T) (North Line)	161	194	182	230	138	138	22.20	110	Steel Towe	1	1	
246. Galion-Roberts South	Galion (O) Roberts (T) (South Line)	164	208	205	215	138	138	22.14 0.07	110 60	Steel Tower Single Wood	1	1	Dual Rail Hamilton

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Ohio Edison Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
										Pole			
247. Carlisle- Shinrock	Carlisle (O) Shinrock (T)	220	249	249	249	138	138	13.04 9.13 7.92	100 110 60	Wood "H" Frame Steel Tower Single Wood Pole	1	1	
248. General Motors- Highland	General Motors (O) Highland (T)	264	313	315	359	138	138	1.95 2.95	110 100	Steel Tower Wood "H" Frame	1	1	Tod
249. Gates- Johnson	Gates (O) Johnson (T)	187	210	210	210	138	138	0.10 5.05	100 110	Wood "H" Frame Steel Tower	1	1	Murray
250. General Motors- Newton Falls	General Motors (O) Newton Falls (T)	267	316	315	316	138	138	1.52 5.68	110 100	Steel Tower Wood "H" Frame	1	1	
251. Gilchrist- S. Akron	Gilchrist (O) South Akron (T)	146	146	183	183	138	138	19.27 0.61	110 60	Steel Tower Wood Pole	1	1	Lakemore Clayben
252. Babb- E. Akron	Babb (O) East Akron (T)	199	223	223	223	138	138	9.17	110	Single Tower Single Wood	1	1	Evans
253. Greenfield- Lakeview	Greenfield (O) Lakeview (T)	265	311	315	361	138	138	13.17 1.16	110 100	Steel Tower Wood "H" Frame	1	1	
254. Greenfield- NASA	Greenfield (O) NASA (T)	152	179	180	205	138	138	4.66	110	Steel Tower	1	1	
255. Hanna- Newton Falls	Hanna (O) Newton Falls (T)	169	208	206	255	138	138	1.60 18.82	110 100	Steel Tower Wood "H" Frame	1	1	
256. Hanna- W. Ravenna #1	Hanna (O) West Ravenna (T) (#1 Line)	233	281	262	333	138	138	4.83	110	Steel Tower & Steel Poles	1	1	
257. Highland- Salt Springs	Highland (O) Salt Springs (T)	264	313	306	359	138	138	6.77	110	Steel Tower	1	1	
258. Ivanhoe- Packard	Ivanhoe (O) Packard (T)	196	210	210	210	138	138	0.69 2.60	110 100	Steel Tower Wood "H" Frame	1	1	
259. Johnson- USS/Kobe	Johnson (O) USS/Kobe Steel (T)	233	281	263	316	138	138	3.30 1.60	100 110	Wood "H" Frame Steel Tower	1	1	
260. Lakeview- Ottawa	Lakeview (O) Ottawa (T)	295	375	353	441	138	138	7.75	110	Steel Tower	1	1	
261. Lincoln Park- Lowellville	Lincoln Park (O) Lowellville (T)	155	155	155	155	138	138	8.52	110	Steel Tower	1	1	
262. Lincoln Park-	Lincoln Park (O)	155	155	155	155	138	138	10.34	110	Steel Tower	1	1	

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Ohio Edison Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terimus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground, Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
Masury	Masury (T)							0.28 1.43	110 60	Wood "H" Frame 1 Wood Pole			
263. Galion-Longview	Galion (O) Longview (T)	164	207	205	215	138	138	13.78 2.72 8.39	110 100 100	Steel Tower Wood "H" Frame & 2 Steel Poles	1	1	Empire Switching Station Cairns Ontario
264. Masury-Salt Springs	Masury (O) Salt Springs (T)	185	189	208	208	138	138	12.47	110	Steel Tower	1	1	
265. Masury-Crossland	Masury (O) Crossland (T)	176	229	226	285	138	138	0.80	110	Steel Tower	1	1	
266. Masury-Shenango	Masury (O) Shenango (T)	128	165	183	205	138	138	6.93	110	Steel Tower	1	1	
268. Niles-Bluebell	Niles (O) Bluebell (T)	103	131	138	164	138	138	25.99 0.25	110 100	Steel Tower Wood "H" Frame	1	1	
269. Niles-Evergreen	Niles (O) Evergreen (T)	152	179	182	205	138	138	7.03	110	Steel Tower	1	1	
270. Niles Central-Packard	Central (O) Packard (T)	157	196	198	210	138	138	3.84 5.05 3.46	110 100 60	Steel Tower Wood "H" Frame Wood Pole	1	1	Garden, Elm with Cortland via Tap
271. Niles-Salt Springs	Niles (O) Salt Springs (T)	240	310	315	361	138	138	3.16	110	Steel Tower	1	1	
272. Pleasant Valley-W. Akron	Pleasant Valley (O) West Akron (T)	153	198	215	215	138	138	9.39	110	Steel Tower	1	1	
273. Harper-W. Akron	Harper (O) West Akron (T)	143	146	161	161	138	138	9.39	110	Steel Tower	1	1	Brush
275. Crissinger-Roberts	Crissinger (O) Roberts (T)	200	242	226	286	138	138	4.38	60	Single Wood Pole	1	1	
276. Sammis-Pidgeon	Sammis (O) Pidgeon (T)	217	249	249	249	138	138	29.79	110	Steel Tower	2	1	
277. Sammis-Boardman	Sammis (O) Boardman (T)	225	266	266	266	138	138	35.73 1.44	110 100	Steel Tower Wood "H" Frame Wood Pole	1	1	
278. Sammis-Lowellville	Sammis (O) Lowellville (T)	141	182	202	208	138	138	1.40 49.33	100 110	Wood "H" Frame Steel Tower Wood Pole	1	1	Dobbins
279. Boardman-	Boardman (O)	128	164	166	166	138	138	1.47	110	Steel Tower	1	1	

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Ohio Edison Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terimus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
Nevada	Nevada (T)							0.06	60	Wood Pole			
280. Kirby-Roberts	Kirby (O) Roberts (T)	160	192	180	228	138	138	14.48	60	Wood Pole	1	1	
281. Firestone-S. Akron	Firestone (O) South Akron (T)	158	158	158	158	138	138	2.90	110	Steel Tower Single Wood Pole	1	1	
282. Dale-S. Akron	Dale (O) South Akron (T)	164	208	205	241	138	138	9.17	110	Steel Tower	1	1	Moore
283. Wadsworth-W. Akron	Wadsworth (O) West Akron (T)	176	227	230	255	138	138	2.09 17.60	60 110	Steel Pole Steel Tower	1	1	Pine, Rosemont
284. Sammis-E. Akron	Sammis (O) East Akron (T)	185	189	208	208	138	138	68.32	110	Steel Tower	1	1	
285. Dale-W. Canton	Dale (O) W. Canton (OP) (T) (IC pt)	233	281	263	287	138	138	4.96	60	Wood Pole	1	1	
286. Kirby-Tangy	Kirby (O) Tangy (T)	265	273	273	273	138	138	21.84	60	Wood Pole	1	1	
287. Brookside-Wellington	Brookside (O) Wellington (T)	86	86	86	86	138	138	4.22 20.06	 100 110	Wood "H" Frame Steel Tower	1	1	
288. Babb-W. Akron	Babb (O) West Akron (T)	190	223	223	223	138	138	6.51		Steel Tower	1	1	
289. E. Akron-Hanna	East Akron (O) Hanna (T)	196	228	230	255	138	138	15.42	110	Steel Towers	1	1	
291. Clark-Greene	Clark (O) Greene (DPL) (T) (IC pt)	233	281	263	333	138	138	1.14 19.32 5.93	110 100 60	Steel Tower Wood "H" Frame Wood Pole	1	1	
292. Crissinger-Tangy	Crissinger (O) Tangy (T)	272	284	272	284	138	138	3.39 21.41	110 100	Steel Tower Wood "H" Frame	1	1	
293. Chamberlin-Theiss	Chamberlin (O) Theiss (T)	200	242	226	286	138	138	15.25	100	Wood "H' Frame	1	1	
294. Darrow-Hanna	Darrow (O) Hanna (T)	190	225	226	249	138	138	19.45	110 100	Steel Tower Wood "H" Frame	1	1	Brady
295. Avery-Greenfield	Avery (O) Greenfield (T)	149	194	212	277	138	138	10.45	100	Wood "H" Frame	1	1	

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Ohio Edison Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
296. Bluebell- Pidgeon	Bluebell (O) Pidgeon (T)	177	226	230	243	138	138	15.11	110	Steel Tower	1	1	
297. Riverbend- Salt Springs	Riverbend (O) Salt Springs (T)	223	223	223	223	138	138	4.80	110 60	Steel Tower Steel Pole	1	1	
298. Chamberlin- Hudson East	Chamberlin (O) Hudson East (T)	190	225	226	249	138	138	6.25	100	Wood "H" Frame	1	1	
299. Babb- Valley	Babb (O) Valley (C.F.) (T)	200	223	223	223	138	138	1.96	100 110	Wood "H" Frame Steel Tower	1	1	
300. Masury- Maysville	Masury (O) Maysville (T)	110	110	110	110	138	138	9.86	110 60	Steel Tower Wood Pole	1	1	
301. Salt Springs- V&M Star	Salt Springs (O) V&M Star (T)	176	226	229	229	138	138	1.99	110 60	Steel Tower Wood Pole	1	1	
302. Ivanhoe- Mahoningside	Ivanhoe (O) Mahoningside (T)	196	221	223	245	138	138	1.69	60	Wood Pole	1	1	
303. Highland- Mahoningside	Highland (O) Mahoningside (T)	188	225	188	227	138	138	4.97	110 60	Steel Tower & Wood Pole	1	1	
304. Beatty- London	Beatty Rd (CSOE) (O) (IC pt) London (T)	200	242	226	286	138	138	17.45 2.85	100 110	Wood "H" Frame Steel Tower	1	1	
305. Niles Central- Niles	Central (O) Niles (T)	196	228	226	249	138	138	3.09 0.35	110 60	Steel Tower Wood Pole	2	1	
308. Darrow- Hudson East	Darrow (O) Hudson East (T)	164	208	205	215	138	138	7.67	100	Wood "H" Frame	1	1	
310 Theiss Valley	Theiss (O) Valley (C.F.) (T)	200	242	226	286	138	138	1.35	100	Wood "H" Frame			
315. Bluebell- Knox	Bluebell (O) Knox (T)	153	198	216	247	138	138	8.95	100	Wood "H" Frame	1	1	
319. Greenfield- New Departure	Greenfield (O) New Departure (T)	200	242	226	286	138	138	0.02 0.26	110 60	Steel Tower Single Wood Pole	1	1	
320. Avery- Shinrock	Avery (O) Shinrock (T)	149	194	212	277	138	138	7.47	100	Wood "H" Frame	1	1	
322. Chamberlin- W. Akron	Chamberlin (O) West Akron (T)	200	242	226	286	138	138	17.87	60 110	Steel Pole Steel Tower	1	1	Ira Nordonia
328. Hanna-	Hanna (O)	233	281	263	316	138	138	0.72	60	Steel Pole	1	1	

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Ohio Edison Company Area

	Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
	List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
	W. Ravenna #2	West Ravenna (T) (#2 Line)							4.12	110	Steel Tower			
329.	Firestone- Urban	Firestone (O) Urban (T)	233	249	249	249	138	138	2.95	110 60	Steel Tower & Steel Pole	1	1	
330.	Star- Urban	Star (O) Urban (T)	190	225	234	258	138	138	13.38 2.27	110 60	Steel Tower Steel Pole	1	1	Tusc
341.	Carlisle- Lorain	Carlisle (O) Lorain (CEI) (T)	225	281	263	316	138	138	12.81	60 60	Steel Poles Wood Poles	1	1	
343.	Carlisle- Gates	Carlisle (O) Gates (T)	196	210	210	210	138	138	0.06 7.92	110 60	Steel Tower Single Wood Pole	1	1	
344.	Seville W. Medina	Seville (O) West Medina (T)	233	281	263	287	138	138	11.59	60	Wood Pole	1	1	Ryan
345	Seville- Star	Seville (O) Star (T)	233	281	263	287	138	138	15.34	60	Wood Pole			
347	North Medina West Akron	North Medina (O) West Akron (T)	233	281	263	287	138	138	25.94	60	Wood Pole	1	1	Granger, Brunswick, Buckeye, Stoney
348	North Medina W. Medina	North Medina (O) West Medina (T)	233	281	263	333	138	138	2.50	60	Wood Pole	1	1	
350.	Galion- Leaside	Galion (O) Leaside (T)	161	194	182	230	138	138	8.50	110	Steel Tower	1	1	
351.	Galion- Cardington	Galion (O) Cardington (T)	145	145	145	145	138	138	17.12	60	Wood Pole	1	1	
356.	Carlisle- Johnson	Carlisle (O) Johnson (T)	225	281	263	316	138	138	14.17	60 60	Steel Poles Wood Poles	1	1	Fieldstone
360.	Clark- Urbana	Clark (O) Urbana (DPL) (T) (IC pt)	278	338	315	362	138	138	8.60	60	Wood Pole	1	1	
365.	Blue Jacket- Kirby	Blue Jacket (DPL) (O) (IC pt) Kirby (T)	278	338	315	377	138	138	6.00	60	Wood Pole	1	1	
366.	Ford- New Departure	Ford (O) New Departure (T)	189	230	219	249	138	138	17.12	60	Wood Pole	1	1	
369	Hanna Shalersville	Hanna (O) Shalersville (T)	260	309	309	342	138	138	14.0	185	Wood Pole	1	1	
370	Beaver	Beaver (O)	278	338	315	401	138	138	25	60	Steel Tower	1	1	

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Ohio Edison Company Area

	Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
	List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terimus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground, Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
	Greenfield	Greenfield (T)												
371	Beaver-Henrietta	Beaver (O) Henrietta (T)	161	194	182	230	138	138	7.73	100	Steel Tower	1	1	
372	Brookside-Henrietta	Brookside (O) Henrietta (T)	105	135	147	191	138	138	31.05 0.12	100 60	Steel Tower Single Wood Pole	1	1	
373	South Akron-Congress	South Akron (O) Congress (T)	158	158	158	158	138	138	9.66 0.34	100 100	Steel Tower Wood Pole	1	1	
374	Brookside-Longview (#3)	Brookside (O) Longview (T)	141	182	186	186	138	138	16.41 19.34	100 110	Wood "H" Frame Steel Tower	1	1	
375	Star-Wadsworth	Star (O) Wadsworth (T)	221	262	263	300	138	138	1.21	60	Wood Poles	1	1	

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Toledo Edison Company Area

	Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
	List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground, Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
1.	Lemoyne-Midway	Lemoyne Transmission Substation - Midway Transmission Substation	1380	1646	1698	1793	345	345	24.1	150	Steel Tower	2	1	
2.	Allen Junction-Lulu	Allen Junction Transmission Substation - Lulu (to T.E. Boundary - MECS)	2036	2390	2311	2390	345	345	0.1	150	Steel Tower	2	1	
3.	Davis-Besse-Lemoyne	Davis-Besse Generating Station - Lemoyne Transmission Substation	1411	1683	1735	1925	345	345	21.0	150	Steel Tower	2	1	
4.	Bayshore-Davis-Besse	Davis-Besse Generating Station - Bayshore Generating Station	1515	1828	1716	2188	345	345	21.0	150	Steel Tower	2	1	
5.	Beaver-Davis-Besse	Davis-Besse Generating Station - Beaver (to T.E. Boundary - O.E.)	1435	1742	1702	1989	345	345	17.0	150	Steel Tower	2	1	
6.	Fostoria Central-Lemoyne	Lemoyne Transmission Substation - Fostoria (to T.E. Boundary - O.P.)	1439	1774	1692	1912	345	345	4.6	150	Steel Tower	2	2	
7.	Lemoyne-Majestic	Lemoyne Transmission Substation - Monroe (to T.E. Boundary - MECS)	1261	1545	1428	1833	345	345	19.3	150	Steel Tower	2	2	
8.	Bayshore-Monroe	Bayshore Generating Station - Monroe (to T.E. Boundary - MECS)	1261	1545	1428	1793	345	345	8.4	150	Steel Tower	2	2	
9.	Bayshore-Fostoria Central	Bayshore Generating Station - Fostoria (to T.E. Boundary - O.P.)	1411	1683	1692	1810	345	345	20.5	150	Steel Tower	2	2	
10.	North Star Steel Supply	Point on Midway-Allen Junction Line-North Star Steel	725	865	892	990	345	345	9.7	120	Steel Pole	1	1	
11.	Allen Junction-Midway	Midway Transmission Substation - Allen Junction	1380	1646	1698	1882	345	345	23.5	150	Steel Tower	2	1	

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Toledo Edison Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
	Transmission Substation												
202. Bayshore-Ironville	Bayshore Generating Station - Ironville Transmission Substation	236	285	266	304	138	138	3.4	110	Steel Tower	2	2	
204. Bayshore-Ottawa	Bayshore Generating Station - Ottawa Transmission Substation	235	288	275	352	138	138	23.1	110	Steel Tower	2	2	Toussaint
205 Allen Junction-Westgate	Allen Junction Substation - Westgate Substation	278	343	327	382	138	138	4.3 6.1	190 60	Steel Pole Wood Pole	2 2	2 1	Talmadge, Sylvania
206. Allen Junction-Jackman	Allen Junction Transmission Substation - Jackman Transmission Substation	158	190	178	225	138 138	138 138	10.5 0.5	190 100	Steel Pole Steel Tower	2 2	2 1	
207 Jackman-Westgate	Jackman Substation - Westgate Substation	278	343	327	396	138	138	3.4	60	Wood Pole	2	1	
208. Five Point-Five Point Tap	Five Point Distribution Substation - Five Point Tap	198	198	198	198	138	138	1.0	60	Wood Pole	1	1	Delafoil
209. Vulcan-Hawthorne Tap	Vulcan Transmission Substation - Hawthorne Tap	209	308	318	335	138 138 138	138 138 138	11.6 1.2 1.5	60 60 60	Wood Pole Steel Pole Steel Pole	1 2 2	1 2 2	Angola, Hawthorne
211. Chrysler-Levis Park	Chrysler Transmission Substation - Levis Park Transmission Substation	278	333	327	333	138	138	9.77	60	Wood Pole	1	1	Lime City
212. Brim Tap-Brim	Brim Tap - Brim Transmission Substation	143	143	143	143	138	138	5.5	60	Wood Pole	1	1	
213. Lemoyne-Midway #7	Lemoyne Transmission Substation - Midway Transmission Substation	161	179	179	179	138	138	24.4	110	Steel Tower	2	2	
215. Lemoyne-Midway #8	Lemoyne Transmission Substation - Midway	143	143	143	143	138	138	24.4	110	Steel Tower	2	2	

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Toledo Edison Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
	Transmission Substation												
216. Decant-Ottawa	Decant Distribution Substation - Ottawa Transmission Substation	257	311	290	364	138	138	15.9	110	Steel Tower	2	2	
218. Allen Junction-East Fayette	Allen Junction Transmission Substation - Stryker Transmission Substation	144	174	168	214	138	138	31.0	60	Wood Pole	1	1	Lyons, Fayette
219. Allen Junction-Vulcan	Allen Junction Transmission Substation - Vulcan Transmission Substation	278	325	325	325	138 138-69 138-69	138 138 138	3.1 5.8 5.1	60 110 60	Wood Pole Steel Tower Steel Pole	1 2 2	1 2 2	Reynolds
220. Jackman-Vulcan	Jackman Transmission Substation - Vulcan Transmission Substation	216	264	253	287	138	138	3.9	110	Steel Tower	2	2	Bellevue
221. Richland-Richland (Loop)	Richland Transmission Substation - Richland Transmission Substation	216	264	253	287	138	138	8.8	60	Wood Pole	1	1	S.W. Defiance, Ayersville
222 Vulcan Tap-Wauseon	Vulcan Tap - Wauseon Transmission Substation	160	192	180	228	138	138	19.8	60	Wood Pole	1	1	Delta, Swanton, Eber, Wentworth, Lear
223. Midway-Hawthorne Tap	Midway Transmission Substation - Hawthorne Tap	278	343	327	358	138 138	138 138	13.4 4.8	60 60	Steel Pole Wood Pole	2 1	2 1	Hawthorne
224. Dixie-Jeep No2 Stickney	Dixie Transmission Substation - Jeep No2 Stickney	257	311	290	361	138	138	0.7 1.5	60 60	Wood Pole Wood Pole	2 1	2 1	
226. Richland-E. Leipsic	Richland Transmission Substation - E. Leipsic (to T.E. Boundary - O.P.)	216	264	253	287	138	138	16.0	60	Wood Pole	1	1	
227. Richland-Lockwood Rd.	Richland Transmission Substation - Lockwood Rd. (to T.E. Boundary - O.P.)	216	223	253	270	138	138	11.0	60	Wood Pole	1	1	
228. Richland-Midway #1	Richland Transmission Substation - Midway	152	179	179	179	138	138	33.1 1.5	110 60	Steel Tower Wood Pole	2 2	2 2	Ridgeville

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Toledo Edison Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
	Transmission Substation												
229. Naomi Tap-Wauseon	Naomi Tap - Wauseon Transmission Substation	158	190	178	191	138	138	5.0	60	Wood Pole	1	1	
230. Ridgeville Junction-Stryker	Ridgeville Junction - Stryker Transmission Substation	161	194	182	230	138	138	5.6	110	Steel Tower	1	1	
231. Ottawa-Lakeview	Ottawa Transmission Substation - Lakeview (to T.E. Boundary - O.E.)	295	375	353	441	138	138	3.9	110	Steel Tower	2	2	
232. Lemoyne-Fostoria West I West Fremont	Lemoyne Transmission Substation - West Fremont Transmission Substation	200	241	225	285	138	138	24.0	60	Wood Pole	1	1	Woodville 2
233. Allen Junction-Silica	Allen Junction Transmission Substation - Silica Distribution Substation	278	343	327	420	138	138	3.5	60	Wood Pole	1	1	
235. Richland-G.M. #1	Richland Transmission Substation - General Motors Foundry	197	197	197	197	138	138	2.4	60 110	Wood Pole & Steel Tower	1	1	
236. Richland-G.M. #2	Richland Transmission Substation - General Motors Foundry	197	197	197	197	138	138	2.4	60 110	Wood Pole & Steel Tower	1	1	
237 Richland-Midway #2	Richland Transmission Substation - Midway Transmission Substation	152	179	182	191	138	138	33.1 1.5	110 60	Steel Tower Wood Pole	2 2	2 2	
238. Pre-Finish Metals Tap-Pre-Finish Metals	Tap on Maclean-Midway Line to Pre-Finish Metals	163	163	163	163	138	138	0.7	60	Wood Pole	1	1	
239. North Star Steel Backup Supply	Point on Vulcan Tap-Wauseon Line - York Distribution Substation	284	284	284	284	138	138	0.6	60	Wood Pole	1	1	
240. Worthington	Point on Vulcan Tap-Wauseon	14				138	138	0.1	60	Wood Pole	1	1	

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Toledo Edison Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terimus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground, Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
Supply	Line-Worthington Industries												
241. Delafoil Supply	Point on Five Point-Five Point Tap Line-Delafoil Customer Substation	198				138	138	0.1	60	Wood Pole	1	1	
243. Bayshore Decant	Bayshore Generating Station - Decant Distribution Substation	234	287	275	293	138	138	7.2	110	Steel Tower	2	2	
244 Lemoyne - West Fremont	Lemoyne Transmission Substation - West Fremont Transmission Substation	158	190	178	225	138	138	4.3 0.9	110 60	Steel Tower Wood Pole	2 2	1 1	(AEP owns 19 miles in between the segments shown.)
245 West Fremont Fremont Center	West Fremont Transmission Substation - Fremont Center (to T.E. boundary - O.P.)	312	380	353	450	138	138	0.9	60	Wood Pole	2	1	
247 Midway-Levis Park	Midway Levis Park	278	286	286	286	138	138	14.89	60	Wood Pole	1	1	Waterville
248 Chrysler-Maclean	Chrysler Maclean	278	287	287	287	138	138	4.28	60	Wood Pole	1	1	Walbridge Coatings
249 East Fayette - Stryker	East Fayette Transmission Substation - Stryker Transmission Substation	216	261	253	287	138	138	18.0	60	Wood Pole	1	1	
250 Dixie-Jackman	Dixie Jackman	235	287	275	332	138	138	2.02	100	Steel Tower	2	2	
251 Bayshore Jeep No. 2	Bayshore Jeep No. 2	300	332	332	332	138	138	6.5	100	Steel Tower	2	2	
252 Bayshore-BP Husky #2	Bayshore BP Husky	241	292	272	346	138	138	2.5	110	Steel Tower	1	1	
253 BP Husky-Lemoyne	BP Husky Lemoyne	241	292	272	346	138	138	14.3	110	Steel Tower	1	1	Frey
254 Bayshore-Maclean	Bayshore Maclean	287	342	342	342	138	138	12.1	110	Steel Tower	1	1	Oregon

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Toledo Edison Company Area

	Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
	List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terimus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
255	Lemoyne- Maclean	Lemoyne Maclean	329	405	432	495	138	138	10.2	110	Steel Tower	1	1	
256	Bayshore- GM Powertrain	Bayshore GM Powertrain	278	334	327	342	138	138	10.8	110	Steel Tower	1	1	
257	GM Powertrain- Jackman	GM Powertrain Jackman	241	292	272	346	138	138	1.3	110	Steel Tower	1	1	
258	Bayshore- BP Husky #1	Bayshore BP Husky	241	292	272	311	138	138	2.5	110	Steel Tower	1	1	
259	BP Husky- Jackman	BP Husky Jackman	241	292	272	346	138	138	9.4	110	Steel Tower	1	1	Fort Industry
260	Ottawa- West Fremont #1	Ottawa West Fremont	251	290	250	306	138	138	8.94	110	Steel Tower	2	2	
261	Ottawa- West Fremont #2	Ottawa West Fremont	251	290	250	306	138	138	8.94	110	Steel Tower	2	2	Ohio Reality Advisors

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Cleveland Electric Illuminating Company Area

	Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
	List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
1.	Avon-Beaver #1	Avon 345 kV Station - Point of Interconnection with Ohio Edison, Sheffield Township	982	1139	1149	1275	345	345	6.4	150	S.C.T.	1	1	
2.	Juniper-Star	Juniper Substation - Point of Interconnection with Ohio Edison, Richfield Township	1396	1666	1717	1906	345	345	0.6	150	D.C.T.	2	1	
									1.5	150	S.C.T.	1	1	
									9.2	150	D.C. H-Frame	2	1	
3.	Hanna-Juniper	Juniper Substation - Point of Interconnection with Ohio Edison, Osnaburg Township	1435	1742	1766	1793	345	345	54.6	150	S.C.T.	1	1	
4.	Ashtabula-Erie West (Penelec)	Ashtabula 345 kV Station - Interconnection Point with Pennsylvania Electric Co., Ohio-Penn State Line	733	826	828	828	345	345	14.9	150	S.C.T.	1	1	
5.	Perry-Eastlake	Perry Station - Eastlake 345 kV Station	1555	1793	1766	1793	345	345	17.9	150	S.C.T.	1	1	
									2.6	150	D.C.T.	2		
6.	Eastlake-Juniper	Juniper Substation - Eastlake 345 kV Station	1370	1720	1756	1793	345	345	30.8	150	S.C.T.	1	1	
									6.1	150	D.C.T.	2		
7.	Avon-Juniper	Avon 345 kV Station - Juniper Substation	1228	1424	1437	1594	345	345	1.0	150	D.C.T.	2	1	
									12.9	150	D.C. H-Frame	2		
									20.9	150	D.C.P. H-Frame	2		
									9.2	150	S.C.T.	1		
8.	Juniper-Harding	Juniper Substation - Harding Substation	1396	1666	1717	1793	345	345	0.9	150	D.C.T.	2	2	
									2.1	150	D.C. H-Frame	2		
									5.0	120	D.C.P.	2		
9.	Harding-Fox	Harding Substation - Fox Substation	1195	1195	1195	1195	345	345	5.1	120	D.C.P.	2	2	
									0.1	150	D.C.T.	2		
11.	Avon-Beaver #2	Avon 345 kV Station - Point of Interconnection with OE Avon-Beaver ROW, Lorain County	982	1139	1149	1275	345	345	3.6	150	D.C. H-Frame	2		
12.	Perry-Inland	Perry Station - Inland Substation	1543	1673	1673	1673	345	345	43.8	150	D.C.T.	2	2	
									11.4	120	D.C.S.P.	2		

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Cleveland Electric Illuminating Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
13. Inland-Harding	Point on Perry-Macedonia-Inland Line - Harding Substation	1228	1424	1437	1594	345	345	1.8 0.2 0.1	120 150 150	D.C.S.P. D.C. 2P Structure D.C.T.	2 2 2	2	
14. Perry-Ashtabula	Perry Station - Tap Point to Ashtabula Township, Ashtabula County	1560	1900	1766	2251	345	345	1.1 22.1	150 150	D.C.T. S.C.T.	2 1	1	
15. Harding-Chamberlin	Harding Substation - Point of Interconnection with OE, Sagamore Hills	1555	1889	1766	2160	345	345	0.6 1.5	150 150	D.C.T. D.C. H-Frame	2 2	1	
201. Avon-Lorain-Fowles	Avon Lake Plant - Fowles Switching Station	175	215	215	215	138	138	17.9	110	D.C.T.	4	4	Admiral Astor Lorain Crystal Slater Avondale
202. Avon-Lorain-Fowles (Berea Cutoff)	Avon Lake Plant - Fowles Switching Station	176	215	215	215	138	138	17.9 0.5	110 60	D.C.T. S.P.	2 1	2	Clifford
203. Dawson Supply-Avon	Point on Avon-Lorain-Fowles Line, Avon Lake - Dawson Substation	273	331	308	392	138	138	1.8 7.2	110 60	D.C.T. D.C.S.P.	2 2	2	Crestwood Darwin
205. Lorain-Ohio Edison I (Johnson Sub)	Lorain Switching Station - Point of Interconnection with Ohio Edison, Sheffield Township	161	194	182	230	138	138	5.1	110	D.C.T.	2	1	
206. Fowles-NASA	Fowles Switching Station - NASA Customer Station, Cleveland	103	133	147	164	138	138	6.6	110	D.C.T.	4	4	Dunkirk
207. IX Center Supply (Formerly Cadillac)	Point on Fowles-NASA Line, Olmsted Township - Cadillac Customer Station, Brook Park	148	151	166	166	138	138	0.9 0.6	110 60	D.C.T. D.C.S.P. Structures w/6 S.C.P. at Customer Station	2 2	2	
208. Fowles-Clinton	Fowles Switching Station - Clinton Substation	110	138	144	165	138	138	9.0	110	D.C.T.	4	4	Elden Essex

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Cleveland Electric Illuminating Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
													Fox Furlong Graham Grovewood Hummel
209. Ford Tap	Point on Fowles-Clinton Line, Brook Park - Ford Customer Station, Brook Park	148	152	167	167	138	138	2.0	110	D.C.T.	2	2	
210. General Motors Supply	Point on Fowles-Clinton Line - General Motors Chevrolet Customer Station, Parma	49	49	56	56	138	138	0.3	60	D.C.S.P.	2	2	
211. Fowles-Mayfield	Fowles Switching Station - Mayfield Substation	102	132	147	164	138	138	33.3 0.6	110 60	D.C.T. D.C.S.P.	4 4	4	Faber Griffin Imperial Juniper Krick Longfield Maxwell Northfield Nelson Norway Pleasant Valley
212. Pleasant Valley-Ohio Edison (OE) (West Akron)	Pleasant Valley Switching Station - Point of Interconnection with Ohio Edison, Richfield Township	143	146	161	161	138	138	6.8	110	D.C.T.	2	2	Hickory Harper
213. Pleasant Valley-Jennings	Pleasant Valley Switching Station - Jennings Switching Station	225	287	287	287	138	138	9.3	110	D.C.T.	4	4	Grant Hancock Harding Issler
214. LTV Steel Supply (Formerly Republic Steel)	Point on Pleasant Valley-Jennings Line, Newburgh Heights - LTV Steel Customer Station (Formerly Republic Steel)	39	45	43	49	138	138	0.3	110	D.C.T.	4	4	

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Cleveland Electric Illuminating Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground, Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
215. Jennings-Clark	Jennings Switching Station, Newburgh Heights - Clark Substation	100	129	143	159	138	138	0.1 0.1	110 60	S.C.T. W.P.S.	1 2	1 2	
216. Jennings-Jones & Laughlin Steel	Jennings Switching Station - LTV Steel Customer Station (Formerly Jones & Laughlin)	62	67	71	75	138	138	0.1	110	D.C.T.	2	2	
217. Jennings-Hazel	Jennings Switching Station - Hazel Terminal Structure	265	349	347	418	138	138	2.1	110	D.C.T.	2	2	
218. Hazel-Lake Shore	Hazel Terminal Structure - Lake Shore Plant	235	271	287	287	138	138	4.5	100	Underground	2	2	Hamilton
219. Jennings-Oak Tap Structure	Jennings Switching Station - Oak Tap Structure, Cuyahoga Heights	215	215	215	215	138	138	2.0 3.1	60 110	D.C.S.P. D.C.T.	2 2	2	Inca
220. Hillside-Oak Tap Structure	Pleasant Valley Switching Station - Oak Tap Structure, Cuyahoga Heights	215	215	215	215	138	138	5.2 0.2	110 100	D.C.T. Underground	2 2	2	
221. Juniper-Hillside	Juniper Substation - Hillside Structure	215	215	215	215	138	138	2.9	110	D.C.T.	2	2	
222. Juniper-Lloyd	Juniper Substation - Point on the Mayfield-Lloyd Line	164	206	215	215	138	138	8.9 14.6	110 60	D.C.T. D.C.S.P.	2 2	2	Inland Irwin Ivy Iron Jordan Judi Kipling Newburgh Nottingham
223. Kendall-Kelly-Lester Supply	Point on the Fowles-Mayfield Line - Kelly Substation	273	332	309	393	138	138	7.6	60	D.C.S.P.	2	2	Kendall Lester
224. Mayfield-Lloyd	Mayfield Substation - Lloyd	148	151	166	166	138	138	15.7	110	D.C.T.	4	4	Lamont

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Cleveland Electric Illuminating Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
	Substation												Marble Newport Lincoln
225. Mayfield-Ashtabula	Mayfield Substation - Ashtabula Plant Transmission Station	103	115	115	115	138	138	43.4	110	D.C.T.	4	4	Sanborn Leroy Center Spruce Austinburg Pawnee
226. Leroy Center-Eastlake Plant	Leroy Center Switching Station - Eastlake Plant Transmission Station	143	143	143	143	138	138	18.3 2.4	110 60	D.C.T. D.C.S.P.	2 2	2	Nash Nathan Newell Nursery Queen
227. Pinegrove Supply	Point on Mayfield-Ashtabula Line, Chardon Township - Pinegrove Substation	260	309	309	354	138	138	1.0	110	D.C.T.	2	2	
228. Eastlake Tap	Eastlake Plant - Eastlake Tap Structure, City of Eastlake	179	229	253	285	138	138	2.5	110	D.C.T.	2	8	
229. Ashtabula-Conneaut	Ashtabula Plant - Pittsburgh & Conneaut Docks Customer Station, Conneaut	160	192	180	228	138	138	17.7 0.1	110 60	D.C.T. D.C.S.P.	2 2	2	Zenith
231. IX Center-Ford Line	Point on Fowles-CAD Line, Brook Park - Ford Customer Station, Brook Park	237	287	267	339	138	138	2.1 0.6 0.4	60 110 110	D.C.S.P. D.C.T. D.C.S. 2P H Structure	2 2 2	2	Eaton
232. Dell Supply	Point on Fowles-NASA Line, Olmsted Township - Dell Substation	24	29	30	34	138	138	0.9	60	D.C.S.P.	2	2	
234. Fowles-Dunbar Line	Fowles Substation - Dunbar Substation	215	215	215	215	138	138	4.2	60	D.C.S.S.P. Structure	2	2	Erie
235. Garfield Supply	Point on Grant-Jennings Line, Cuyahoga Heights - Garfield	278	287	287	287	138	138	1.5 0.8	60 110	D.C.S.P. D.C.T.	2 2	2	

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

ATSI-Cleveland Electric Illuminating Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name
	Substation												
236. I-271 Line	Point on Kendall-Kelly Line - Point on Eastlake-Lloyd Line, Eastlake	273	332	309	393	138	138	16.8	60	D.C.S.P.	2	2	Keith Kenyon Lark Kepler
238. Lorain-Ohio Edison II (Carlisle Sub)	Lorain Station - Point of Interconnection with Ohio Edison, Sheffield Township	225	281	263	316	138	138	1.5 1.5	110 60	D.C.T. S.C.W.P.	2 1	1	
239. Emily Supply	Point on Fowles-Dunbar Line, Strongsville - Galaxie Substation, North Royalton	339	405	403	463	138	138	7.4 0.5	60 60	S.C.S.W.P. D.C.S.P.	1 2	1	
240. Inland-Lake Shore	Inland Substation-Lake Shore Plant	267	352	387	438	138	138	0.3 5.3	60 60	S.C.S.P. D.C.S.P.	1 2	1 1	
241. Plain Dealer Supply	Point on Fowles-Clinton Line, City of Brooklyn	12	12	12	12	138	138	0.3	60	D.C.S.P.	2	2	
242. Horizon Supply	Hazel Terminal Structure, City of Cleveland, Cuyahoga County - Horizon Substation, City of Cleveland, Cuyahoga County	235	271	287	287	138	138	0.3	100	Underground	4	4	
243 Galaxie Supply	Fowles Substation - Galaxie Substation	176	229	253	284	138	138 345	1.8 11.8	110 150	D.C. H-Frame D.C.P. H-Frame	2 2	2nd Circuit	

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Ohio Edison Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing
Aetna	D	138-23-22.86-4.16	Aetna-West Akron (200)	E
Airpark	D	138-12.47	Clark-E. Springfield (236)	E
Avery	T	138-69	Avery-Greenfield (295)	E
			Avery-Shinrock (320)	E
Babb	D	138-22.86	Babb-East Akron (252)	E
			Babb-West Akron (288)	E
			Babb-Valley (CF) (299)	E
Barberton	D	138-23-4.16	Barberton-Babcock & Wilcox (203)	E
			Barberton-Cloverdale (204)	E
			Barberton-Star North (205)	E
			Barberton-Star South (206)	E
			Barberton-West Akron (207)	E
Beaver	T	345-138	Avon-Beaver #1 (CEI) (1)	E
			Beaver-Carlisle (2)	E
			Beaver-Davis-Besse (TE) (40)	E
			Avon-Beaver #2 (CEI) (43)	E
			Beaver-Henrietta (371)	E
			Beaver-Ford (210)	E
			Beaver-Johnson (211)	E
			Beaver-NASA (212)	E
			Beaver-Edgewater (238)	E
			Beaver-Greenfield (370)	E
Bellepoint	D	138-12.47	East Springfield-Tangy (237)	E
Bluebell	T & D	138-69-23	Bluebell-Alliance Casting (202)	E
			Bluebell-Canton Central (213)	E
			Bluebell-Highland (214)	E
			Bluebell-Knox (315)	E
			Bluebell-Pidgeon (296)	E
			Niles-Bluebell (268)	E
Boardman	T & D	138-69-23	Boardman-Riverbend (215)	E
			Boardman-Shenango (216)	E
			Sammis-Boardman (277)	E
			Boardman-Nevada (279)	E
Brady	D	138-12.47	Darrow-Hanna (294)	E
Bridge	D	138-12.47	Evergreen-Ivanhoe (241)	E
Brookside	T	138-69	Brookside-Henrietta (372)	E
			Brookside-Cloverdale (217)	E
			Brookside-Leaside (219)	E
			Brookside-Howard (OP) (220)	E
			Brookside-Longview E. (221)	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Ohio Edison Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing
			Brookside-Longview W. (222)	E
			Brookside-Wellington (287)	E
			Brookside-Longview (374)	E
Brunswick	D	138-12.47	North Medina-West Akron 138 kV (347)	E
Brush	D	138-12.47	Harper-West Akron (273)	E
Buckeye	D	138-12.47	North Medina-West Akron 138 kV (347)	E
Burger	T	138	Burger-Knox (223)	E
			Burger-Cloverdale #1 (225)	E
			Burger-Cloverdale #2 (226)	E
			Burger-Cloverdale #3 (227)	E
Burton	D	138-12.47	Evergreen-Highland #3 (201)	E
Cairns	D	138-12.47	Galion-Longview (263)	E
Cardington	T	138-69	Galion-Cardington (351)	E
Carlisle	T	345-138-69	Beaver-Carlisle (2)	E
			Carlisle-North Medina 345kV (47)	E
			Carlisle-Gates (343)	E
			Carlisle-Lorain (CEI) (341)	E
			Carlisle-Shinrock (247)	E
			Carlisle-Johnson (356)	E
Chamberlin	T	345-138-69	Chamberlin-Harding (CEI) (30)	E
			Chamberlin-Mansfield (PP) (38)	E
			Chamberlin-Theiss (CF) (293)	E
			Chamberlin-Hudson East (298)	E
			Chamberlin-West Akron (322)	E
Clark	T	138-69	Clark-East Springfield (236)	E
			Clark-Greene (DPL) (291)	E
			Clark-Urbana (DPL) (360)	E
Clayben	D	138-12.47	Gilchrist-South Akron (251)	E
Cloverdale	T & D	138-69-23	Barberton-Cloverdale (204)	E
			Brookside-Cloverdale (217)	E
			Cloverdale-East Wooster (OP) (218)	E
			Burger-Cloverdale #1 (225)	E
			Burger-Cloverdale #2 (226)	E
			Burger-Cloverdale #3 (227)	E
			Canton Central (OP)-Cloverdale (229)	E
			Cloverdale-Star (231)	E
			Cloverdale-Torrey (OP) (232)	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Ohio Edison Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing
Commerce	D	138-12.47	Bluebell-Highland (214)	E
Congress	D	138-12.47	South Akron-Congress (373)	E
Cortland	D	138-12.47	Central-Packard (270)	E
Crissinger	D	138-34.5	Crissinger-Roberts (275)	E
			Crissinger-Tangy (292)	E
Dale	T & D	138-69-12.47	Dale-South Akron (282)	E
			Dale-W. Canton (OP) (285)	E
Darrow	T	138-69	Darrow-Hudson East (308)	E
			Darrow-Hanna (294)	E
Dobbins	D	138-12.47	Sammis-Lowellville (278)	E
Dual Rail	D	138-12.47	Galion-Roberts South (246)	E
East Akron	D	138-23-22.86-12.47	East Akron-Gilchrist (234)	E
			East Akron-West Ravenna (235)	E
			Babb-East Akron (252)	E
			Sammis-East Akron (284)	E
			East Akron-Hanna (289)	E
East Springfield	T	138-69	East Springfield-London (208)	E
			Clark-East Springfield (236)	E
			East Springfield-Tangy (237)	E
Edgewater	T	138-69	Edgewater-Beaver (238)	E
			Edgewater-U.S. Steel (239)	E
Elm	D	138-12.47	Central-Packard (270)	E
Empire Switching Station	T	138	Longview-Armco Steel (240)	E
			Galion-Longview (263)	E
Evans	D	138-22.86	Babb-East Akron (252)	E
Evergreen	T & D	138-23	Evergreen-Highland #3 (201)	E
			Evergreen-Ivanhoe (241)	E
			Evergreen-Highland #2 (242)	E
			Evergreen-Highland #1 (243)	E
			Niles-Evergreen (269)	E
Fieldstone	D	138-12.47	Carlisle-Johnson (356)	E
Ford Lorain	T	138	Beaver-Ford (210)	E
			Ford-New Departure (366)	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Ohio Edison Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing
Franklin	T	138	Evergreen-Ivanhoe (241)	E
Galion	T	345-138-69	Ohio Power Lines (DA13)	E
			Ohio Power Lines (DA18)	E
			Galion-Leaside (350)	E
			Galion-Roberts North (245)	E
			Galion-Roberts South (246)	E
			Galion-Longview (263)	E
			Galion-Cardington (351)	E
Garden	D	138-12.47	Central-Packard (270)	E
Gates	D	138-12.47	Gates-Johnson (249)	E
			Carlisle-Gates (343)	E
General Motors Warren	T	138	General Motors-Highland (248)	E
			General Motors-Newton Falls (250)	E
Gilchrist	T & D	138-69-12.47	East Akron-Gilchrist (234)	E
			Gilchrist-South Akron (251)	E
Granger	D	138-12.47	North Medina-West Akron 138 kV (347)	E
Greenfield	T & D	138-69-12.47	Greenfield-Visteon (244)	E
			Greenfield-Lakeview (253)	E
			Greenfield-NASA (254)	E
			Avery-Greenfield (295)	E
			Greenfield-New Departure (319)	E
			Beaver-Greenfield (370)	E
Hamilton	D	138-12.47	Galion-Roberts South (246)	E
Hanna	T	345-138	Hanna-Highland (5)	E
			Beaver Valley (DL)-Hanna (31)	E
			Canton Central-Hanna (4)	E
			Hanna-Juniper (6)	E
			Hanna-Newton Falls (255)	E
			Hanna-West Ravenna #1 (256)	E
			Darrow-Hanna (294)	E
			East Akron-Hanna (289)	E
			Hanna-West Ravenna #2 (328)	E
			Hanna-Shalersville (369)	E
Henrietta	T	138-69	Beaver-Henrietta (371)	E
			Brookside-Henrietta (372)	E
Highland	T	345-138	Hanna-Highland (5)	E
			Sammis-Highland (9)	E
			Mansfield (PP)-Highland (32)	E
			Highland-Shenango (PP) (33)	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Ohio Edison Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing
			Evergreen-Highland #3 (201)	E
			Bluebell-Highland (214)	E
			Evergreen-Highland #2 (242)	E
			Evergreen-Highland #1 (243)	E
			General Motors-Highland (248)	E
			Highland-Salt Springs (257)	E
			Highland-Mahoningside (303)	E
Ira	D	138-12.47	Chamberlin-West Akron (322)	E
Ivanhoe	D	138-23	Ivanhoe-Packard (258)	E
			Ivanhoe-Mahoningside (302)	E
			Evergreen -Ivanhoe (241)	E
Johnson	T	138-69	Beaver-Johnson (211)	E
			Johnson-Lorain (CEI) (230)	E
			Johnson-Gates (249)	E
			Johnson-U.S. Steel (Lorain) (259)	E
			Carlisle-Johnson (356)	E
Kirby	T	138-69	Blue Jacket-Kirby (DPL) (365)	E
			Kirby- Roberts (280)	E
			Kirby-Tangy (286)	E
Knox	T	138-69	Burger-Knox (223)	E
			Bluebell-Knox (315)	E
Lakemore	D	138-12.47	Gilchrist-South Akron (251)	E
Lakeview	D	138-34.5-12.47-7.2	Greenfield-Lakeview (253)	E
			Lakeview-Ottawa (TE) (260)	E
Leaside	T	138-69	Brookside-Leaside (219)	E
			Galion-Leaside (350)	E
Lincoln Park	D	138-23	Lincoln Park-Lowellville (261)	E
			Lincoln Park-Masury (262)	E
London	T	138-69	Beatty Rd. (CSP)-London (304)	E
			East Springfield-London (208)	E
Longview	T & D	138-69-12.47	Brookside-Longview East (221)	E
			Brookside-Longview West (222)	E
			Longview-Armco Steel (240)	E
			Galion-Longview (263)	E
			Brookside-Longview (374)	E
Lowellville	T & D	138-69-23	Lincoln Park-Lowellville (261)	E
			Sammis-Lowellville (278)	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Ohio Edison Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing
Madison	D	138-12.47	Brookside-Longview W (222)	E
Mahoningside	D	138-23	Ivanhoe-Mahoningside (302)	E
			Highland-Mahoningside (303)	E
Masury	T & D	138-69-23	Lincoln Park-Masury (262)	E
			Masury-Salt Springs (264)	E
			Crossland (PP)-Masury (265)	E
			Masury-Shenango (PP) (266)	E
			Masury-Maysville (PP) (300)	E
Mill Creek	D	138-12.47	East Springfield-Tangy (237)	E
Moore	D	138-12.47	Dale-South Akron (282)	E
Murray	D	138-12.47	Gates-Johnson (249)	E
Nevada	T	138-69	Boardman-Nevada (279)	E
New Departure	T	138	Ford-New Departure (366)	E
			Greenfield-New Departure (319)	E
Newton Falls	T & D	138-69-23	General Motors-Newton Falls (250)	E
			Hanna-Newton Falls (255)	E
Niles	D	138-23	Niles-Evergreen (269)	E
			Niles-Bluebell (268)	E
			Niles-Salt Springs (271)	E
			Niles-Central (305)	E
Nordonia	D	138-12.47	Chamberlin-W. Akron (322)	E
North Medina	T	345-138	Carlisle-North Medina 345kV (47)	E
			North Medina-Star 345 kV (48)	E
			North Medina-West Akron 138 kV (347)	E
			North Medina-West Medina 138 kV (348)	E
Ontario	D	138-12.47	Galion-Longview (263)	E
Packard	D	138-13.2	Ivanhoe-Packard (258)	E
			Central-Packard (270)	E
Pidgeon	T	138-69	Sammis-Pidgeon (276)	E
			Bluebell-Pidgeon (296)	E
Pine	D	138-12.47	Wadsworth-West Akron (283)	E
Riverbend	D	138-23	Boardman-Riverbend (215)	E
			Riverbend-Salt Springs (297)	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Ohio Edison Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing
Roberts	D	138-34.5-13.8	Galion-Roberts North (245)	E
			Galion-Roberts south (246)	E
			Crissinger-Roberts (275)	E
			Kirby-Roberts (280)	E
Rosemont	D	138-12.47	Wadsworth-West Akron (283)	E
Ross	D	138-23-12.47	Brookside-Cloverdale (217)	E
Ryan	D	138-12.47	Seville-West Medina (344)	E
Salt Springs	T & D	138-69-23	Riverbend-Salt Springs (297)	E
			Highland-Salt Springs (257)	E
			Masury-Salt Springs (264)	E
			Niles-Salt Springs (271)	E
			Salt Springs-V&M Star (301)	E
Sammis	T	345-138	Sammis-Highland (9)	E
			Sammis-South Canton (OP) (10)	E
			Sammis-Star (11)	E
			Sammis-Beaver Valley (DL) (3)	E
			Sammis-Wylie Ridge (APS) (12)	E
			Sammis Pidgeon (276)	E
			Sammis-Boardman (277)	E
			Sammis-Lowellville (278)	E
			Sammis-East Akron (284)	E
Seville	T	138-69	Seville-West Medina (344)	E
			Seville-Star (345)	E
Shalersville	T	138-69	Hanna-Shalersville (369)	E
Shinrock	T & D	138-69-12.47	Carlisle-Shinrock (247)	E
			Avery-Shinrock (320)	E
South Akron	D	138-23-22.86-4.16	Gilchrist-South Akron (251)	E
			Firestone-South Akron (281)	E
			Dale-South Akron (282)	E
			South Akron-Congress (373)	E
Star	T	345-138-69	North Medina-Star (48)	E
			Juniper (CEI)-Star (7)	E
			South Canton (OP)-Star (8)	E
			Sammis-Star (11)	E
			Barberton-Star North (205)	E
			Barberton-Star South (206)	E
			Cloverdale-Star (231)	E
			Star-Wadsworth (375)	E
			Star-Urban (330)	E
			Star-West Medina (344)	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Ohio Edison Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing
Stoney	D	138-12.47	North Medina-West Akron 138 kV (347)	E
Tangy	T	345-138-69	Hyatt (OP)-Tangy (36)	E
			Marysville (OP-Tangy (37)	E
			Delaware (CSOE)-Tangy (233)	E
			East Springfield-Tangy (237)	E
			Crissinger-Tangy (292)	E
			Kirby-Tangy (286)	E
Terex	D	138-12.47	Darrow Sub 138 kV Bus	E
Tod	D	138-12.47	General Motors-Highland (248)	E
Tusc	D	138-12.47	Star-Urban (330)	E
Urban	D	138-23-22.86	Firestone-Urban (329)	E
			Star-Urban (330)	E
Wellington	T	138-69	Brookside-Wellington (287)	E
West Akron	T & D	138-69-12.47	Aetna-West Akron (200)	E
			Barberton-West Akron (207)	E
			Pleasant Valley (CEI) --West Akron (272)	E
			Harper --West Akron (273)	E
			Wadsworth-West Akron (283)	E
			Babb-West Akron (288)	E
			Chamberlin-West Akron (322)	E
			North Medina-West Akron 138 kV (347)	E
West Medina	D	138-12.47	Seville-West Medina (344)	E
			North Medina-West Medina 138 kV (348)	E
West Ravenna	T & D	138-69-23	East Akron-West Ravenna (235)	E
			Hanna-West Ravenna #1 (256)	E
			Hanna-West Ravenna #2 (328)	E
Wickliffe	D	138-4.16	Boardman-Riverbend (215)	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Toledo Edison Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing
Allen Junction	T	345 kV	Allen Junction-Lulu-2	E
			Midway-Allen Junction-11	E
	T	138 kV	Allen Junction-East Fayette-218	E
			Allen Junction-Vulcan-219	E
			Allen Junction-Silica-233	E
			Westgate-Allen Junction-206	E
			Allen Junction-Westgate-205	E
Angola	D	138-12.47 kV	Vulcan-Hawthorne Tap-209	E
Ayersville	D	138-12.47 kV	Richland-Richland-221	E
Bayshore	T	345 kV	Bayshore-Monroe-8	E
			Davis-Besse-Bayshore-4	E
			Bayshore-Fostoria-9	E
	T	138 kV	Bayshore-GM Powertrain-256	E
			Bayshore-Ironville-202	E
			Bayshore-BP Husky #2-252	E
			Bayshore-Maclean-254	E
			Bayshore-Ottawa-Toussaint-204	E
			Bayshore-Decant-243	E
			Bayshore-Jeep No.2-251	E
			Bayshore-BP Husky #1-258	E
Bellevue	D	138-12.47 kV	Jackman-Vulcan-220	E
Brim	T	138-69 kV	Brim Tap-Brim-212	E
Davis-Besse	T	345 kV	Davis-Besse-Bayshore-4	E
			Davis-Besse-Lemoyne-3	E
			Davis-Besse-Beaver-5	E
Decant	T	138 kV	Decant-Ottawa - 216	E
			Bayshore-Decant-243	E
Delafoil	D	138-12.47 kV	Delafoil Supply-241	E
Delta	T	138 kV	Vulcan Tap-Wauseon-222	E
Dixie	T	138-69 kV	Dixie-Jeep No2 Stickney-224	E
			Dixie-Jackman-250	E
East Fayette	T	138 kV	Allen Junction-East Fayette-218	E
			East Fayette-Stryker-249	E
Eber	T	138 kV	Vulcan Tap-Wauseon-222	E
Fayette	D	138-12.47 kV	Allen Junction-East Fayette-218	E
Five Point	D	138-12.47 kV	Five Point-Five Point Tap-208	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Toledo Edison Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing
Fort Industry	D	138-12.47 kV	BP Husky-Jackman-259	E
Frey	D	138-12.47 kV	BP Husky-Lemoyne-253	E
GM Powertrain	T	138kV	Bayshore-GM Powertrain-256	E
			GM Powertrain-Jackman-257	E
Hawthorne	D	138-12.47 kV	Vulcan-Hawthorne Tap-209	E
			Midway-Hawthorne Tap-223	E
Ironville	T	138-69 kV	Bayshore-Ironville-202	E
Jackman	T	138 kV	BP Husky-Jackman-259	E
			Allen Junction-Jackman-206	E
			Jackman-Vulcan-220	E
			Dixie-Jackman-250	E
			GM Powertrain-Jackman-257	E
			Jackman-Westgate-207	E
Lear	D	138kV	Vulcan Tap-Wauseon-222	E
Lemoyne	T	345 kV	Lemoyne-Majestic-7	E
			Lemoyne-Fostoria-6	E
			Lemoyne-Midway-1	E
			Davis-Besse-Lemoyne-3	E
		138 kV	Lemoyne-Midway-213	E
			Lemoyne-Midway-215	E
			Lemoyne-Fostoria W End-W Fremont-232	E
			BP Husky-Lemoyne-253	E
			Lemoyne-Maclean-255	E
			Lemoyne-West Fremont-244	E
Levis Park	D	138-12.47 kV	Chrysler-Levis Park-211	E
			Midway-Levis Park-247	E
Lime City	D	138-12.47 kV	Chrysler-Levis Park-211	E
Liquid Air	D	138 kV	Vulcan Tap-Wauseon-222	E
Lyons	D	138-12.47 kV	Allen Junction-East Fayette-218	E
Maclean	T	138-69 kV	Bayshore-Maclean-254	E
			Lemoyne-Maclean-255	E
			Chrysler-Maclean-248	E
Midway	T	345-138-69 kV	Lemoyne-Midway-1	E
			Midway-Allen Junction-11	E
			Midway-Hawthorne Tap-223	E
			Lemoyne-Midway-213	E
			Richland-Midway #1-228	E
			Richland-Midway #2-237	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Toledo Edison Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing
			Midway-Levis Park-247	E
North Star Steel York	D	138 kV	Vulcan Tap-Wauseon-222	E
North Star Steel Sydney	D	345 kV	North Star Steel Supply-10	E
Ohio Reality Advisors	D	138 kV	Ottawa-West Fremont #2-261	E
Oregon	D	138-12.47 kV	Bayshore-Maclean-254	E
Ottawa	T	138 kV	Ottawa-Lakeview-231	E
			Decant-Ottawa-216	E
			Bayshore-Ottawa-204	E
			Ottawa-West Fremont #1-260	E
			Ottawa-West Fremont #2-261	E
Reynolds	D	138-12.47 kV	Allen Junction-Vulcan-219	E
Richland	T	138-69 kV	Richland-Richland-221	E
			Richland-East Lima-226	E
			Richland-Robison Park-227	E
			Richland-Midway-228	E
			Richland-Midway #2-237	E
			Richland-G.M. #1-235	E
			Richland-G.M. #2-236	E
Ridgeville	D	138-12.47 kV	Richland-Midway-228	E
Silica	D	138-12.47 kV	Allen Junction-Silica-233	E
Stryker	T	138-69 kV	East Fayette-Stryker-249	E
			Ridgeville Junction-Stryker-230	E
S. W. Defiance	D	138-12.47 kV	Richland-Richland-221	E
Swanton	T	138 kV	Vulcan Tap-Wauseon-222	E
Sylvania	D	138-12.47 kV	Allen Junction-Westgate-205	E
Talmadge	D	138-12.47 kV	Allen Junction-Westgate-205	E
Toussaint	T	138-69 kV	Bayshore-Ottawa-204	E
Vulcan	T	138-69 kV	Jackman-Vulcan-220	E
			Allen Junction-Vulcan-219	E
			Vulcan-Hawthorne Tap-209	E
Walbridge Coatings	D	138 kV	Chrysler-Maclan-248	E
Waterville	D	138-12.47 kV	Midway-Levis Park 247	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Toledo Edison Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing
Wauseon	T	138-69 kV	Vulcan Tap-Wauseon-222	E
			Naomi Tap-Wauseon-229	E
Wentworth	D	138-12.47 kV	Vulcan Tap-Wauseon-222	E
West Fremont	T	138-69 kV	Lemoyne-West Fremont-232	E
			Lemoyne-West Fremont-244	E
			West Fremont-Fremont Center-245	E
			Ottawa-West Fremont #1-260	E
			Ottawa-West Fremont #2-261	E
Westgate	T	138 kV	Allen Junction-Westgate-205	E
			Jackman-Westgate-207	E
Woodville #2	T	138 kV	Lemoyne-West Fremont-232	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Cleveland Electric Illuminating Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing or Proposed
Admiral	D	138-33 kV	201	E
Ashtabula South	T	345-138 kV	4	E
			225	E
			229	E
Ashtabula East Yard	D	138-13kV	Breaker B-92	E
Astor Substation	D	138-13.2 kV	201	E
Austinburg Substation	D	138-13.2kV	225	E
Avon Substation	T	345-138 kV	1	E
			7	E
			11	E
			201	E
			202	E
Avondale	D	138 - 34kV	201	E
Clark Substation	D	138-11 kV	215	E
Clifford Substation	D	138-13.2 kV	202	E
Clinton Substation	D	138-11 kV	208	E
Crestwood Substation	D	138-13.2 kV	203	E
Crystal Substation	D	138-13.2 kV	201	E
Darwin Substation	D	138-13.2 kV	203	E
Dawson Substation	D	138-33 kV	203	E
Dell Substation	D	138-13.2 kV	232	E
Dunbar Substation	D	138-13.2 kV	234	E
Dunkirk Substation	D	138-13.2 kV	206	E
Eastlake Substation	T	345-138 kV	5	E
			6	E
			226	E
			228	E
Eaton Substation	D	138-13.2 kV	231	E
Elden Substation	D	138-13.2 kV	208	E
Emily Substation	D	138-13.2 kV	239	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Cleveland Electric Illuminating Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing or Proposed
Erie Substation	D	138-13.2 kV	234	E
Essex Substation	D	138-13.2 kV	208	E
Faber Substation	D	138-13.2 kV	211	E
Ford Brookpark	D	138-13.2kV	209	E
			231	E
Fowles Switching Substation	T	138 kV	201	E
			202	E
			206	E
			208	E
			211	E
			231	E
			234	E
			243	E
Fox Substation	T	345-138 kV	9	E
			208	E
Furlong Substation	D	138-13.2 kV	208	E
Galaxie Substation	D	138-13.2 kV	239	E
			243	E
Garfield Substation	D	138-13.2 kV	235	E
Graham Substation	D	138-13.2 kV	208	E
Grant Substation	D	138-66-11 kV	213	E
Griffin Substation	D	138-13.2 kV	211	E
Grovewood Substation	D	138-33 kV	208	E
Hamilton Substation	D	138-11 kV	218	E
Hancock Substation	D	138-13.2 kV	213	E
Harding Substation	T	345-138 kV	8	E
			9	E
			13	E
			15	E
			213	E
Harper Substation	D	138-13.2 kV	212	E
Hickory Substation	D	138-13.2 kV	212	E
Horizon Substation	D	138-11 kV	242	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Cleveland Electric Illuminating Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing or Proposed
Hummel Substation	D	138-33-11 kV	208	E
Imperial Substation	D	138-13.2 kV	211	E
Inca Substation	D	138-13.2 kV	219	E
Inland Substation	T	345-138 kV	12 222 240	E E E
Iron	D	138 - 13.2kV	222	E
Irwin Substation	D	138-13.2 kV	222	E
Issler Substation	D	138-13.2 kV	213	E
Ivy Substation	D	138-33 kV	222	E
Jennings Switching Substation	T	138 kV	213 215 216 217 219	E E E E E
Jordan Substation	D	138-33 kV	222	E
Judi Substation	D	138-13.2 kV	222	E
Juniper Substation	T	345-138 kV	2 3 6 7 8 15 211 221 222	E E E E E E E E E
Keith Substation	D	138-13.2 kV	236	E
Kelly Substation	D	138-13.2 kV	223	E
Kendall Substation	D	138-13.2 kV	223	E
Kenyon Substation	D	138-13.2 kV	236	E
Kepler Substation	D	138-13.2 kV	236	E
Kipling Substation	D	138-13.2 kV	222	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Cleveland Electric Illuminating Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing or Proposed
Krick Substation	D	138-13.2 kV	211	E
Lake Shore Transmission Substation	T	138 kV	218 240	E E
Lamont Substation	D	138-13.2 kV	224	E
Lark Substation	D	138-13.2 kV	236	E
Leroy Center Switching Substation	T	138 kV	225 226	E E
Lester Substation	D	138-13.2 kV	223	E
Liberty Switching Substation	T	138 kV	224 236	E E
Lincoln Substation	D	138-13.2 kV	224	E
Lloyd Substation	D	138-33 kV	224	E
Longfield Substation	D	138-13.2 kV	211	E
Lorain Switching Substation	T	138 kV	202 205 238	E E E
Marble Substation	D	138-13.2 kV	224 228	E E
Maxwell Substation	D	138-13.2 kV	211	E
Mayfield Substation	D	138-33 kV	211 224 225	E E E
Nash Substation	D	138-13.2 kV	226	E
Nathan Substation	D	138-33 kV	226	E
Nelson Substation	D	138-13.2 kV	211	E
Newburgh Substation	D	138-66-11 kV	222	E
Newell Substation	D	138-13.2 kV	226	E
Newport Substation	D	138-13.2 kV	224	E
Northfield Substation	D	138-33 kV	211	E
Norway Substation	D	138-13.2 kV	211	E

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

ATSI-Cleveland Electric Illuminating Company Area

Substation Name	Type Transmission (T) Distribution (D)	Voltages	Line Association(s) (FE-T7 or FE-T9 Notation)	Line Existing or Proposed
Nottingham Switching Substation	T	138 kV	222	E
Nursery Substation	D	138-33-13.2 kV	226	E
Pawnee Substation	D	138-13.2 kV	225	E
Perry Plant Transmission Substation	T	345 kV	5 12 14	E E E
Pinegrove Substation	D	138-13.2 kV	227	E
Pleasant Valley Switching Substation	T	138 kV	211 212 213 220	E E E E
Queen	D	138-33-13.2 kV	226	E
Sanborn Substation	D	138-33 kV	225	E
Slater	D	138-13kV	201	E
Spruce Substation	D	138-13.2 kV	225	E
Zenith Substation	D	138-13.2 kV	229	E

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Chamberlin - Shalersville 138kV Line
2	Point of Origin and Termination	O-Chamberlin Substation T-Shalersville Substation
3	Right of Way	Existing
4	Voltage	138,000 Volts Operation with approximately 9.5 miles constructed for 345,000 Volts
5	Application for Certificate	2009 in Docket 08-0123-EL-BTX
6	Construction	Commence: 2013 Complete: 2014 Operation: 2014
7	Capital Investment	$4,127,817
8	Substations	No. of planned substations: N/A Voltage: N/A Location: N/A
9	Supporting Structures	9.5 miles of existing steel towers, 2.5 miles of wood poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Relieve first contingency line overloads under peak loading with generation on-line. Provides a second 138 kV path between Hanna and Chamberlin Substations for the loss of Chamberlin transformation
12	Consequence of Line Construction Deferment or Termination	To maintain voltages, load will have to be dropped on the Chamberlin-Shalersville 69 kV Line.
13	Miscellaneous	

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	East Springfield-London #2 138kV
2	Point of Origin and Termination	O - East Springfield Substation T - London Substation
3	Right of Way	Length in mile: 3.1 Average width in feet: 60 Number of transmission lines above 125 kV: 1
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Application submitted 5/18/12 in Docket 11-4884-EL-BTX. Anticipate starting construction in 2013.
6	Construction	Commence: 2013 Complete: 2014 Operation: 2014
7	Capital Investment	$26,665,633 (Includes cost for this line and the London -Tangy 138 kV line)
8	Substations	No. of planned substations: N/A Voltage: N/A Location: N/A
9	Supporting Structures	Existing steel towers and new wood poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Provides FE the ablity to sustain the loss of two 138kV transmission lines without having to drop several hundred MW of load. With the addition of 138kV line from Tangy to London back to E.Springfield, FE will be less dependent on importing from AEP through the London-Beatty 138kV line.
12	Consequence of Line Construction Deferment Or Termination	FE will have to drop 200-300 MW of load to prevent system collapse starting in 2012 for the NERC Category C contingency.
13	Miscellaneous	PJM RTEP #s0370

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	London-Tangy 138kV
2	Point of Origin and Termination	O - London Substation T - Tangy Substation
3	Right of Way	Length in mile: 42 Average width in feet: 60 Number of transmission lines above 125 kV: 1
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Application submitted 5/18/12 in Docket 11-4884-EL-BTX. Anticipate starting construction in 2013.
6	Construction	Commence: 2013 Complete: 2014 Operation: 2014
7	Capital Investment	$26,665,633 (Includes cost for this line and the E. Springfield - London #2 line)
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Wood poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Provides FE the ablity to sustain the loss of two 138kV transmission lines without having to drop several hundred MW of load. With the addition of 138kV line from Tangy to London back to E.Springfield, FE will be less dependent on importing from AEP through the London-Beatty 138kV line.
12	Consequence of Line Construction Deferment Or Termination	FE will have to drop 200-300 MW of load to prevent system collapse starting in 2012 for the NERC Category C contingency.
13	Miscellaneous	PJM RTEP #s0369

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Barberton-South Akron 138 kV
2	Point of Origin and Termination	O - Barberton Substation T - South Akron Substation
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2020 Complete: 2021 Operation: 2021
7	Capital Investment	$3,032,700
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Based on 2017 loads, loss of the Star - Urban 138 kV Line at Star loads the Barberton - South Akron 23 kV Line to 100% SN and SE
12	Consequence of Line Construction Deferment Or Termination	Based on 2017 loads, the Dale-West Canton Line loads to 110% normally and loads to 145% SN and 108% SE under loss of the South Canton - Star 345 kV Line
13	Miscellaneous	

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Loop existing Chamberlin-Mansfield 345 kV into Hanna Sub to create Chamberlin-Hanna 345 kV Hanna-Mansfield 345 kV
2	Point of Origin and Termination	O - Chamberlin Substation T - Hanna Substation
3	Right of Way	Existing
4	Voltage	345,000 Volts
5	Application for Certificate	OPSB Letter of Notification Filing anticipated in 2013
6	Construction	Commence: 2013 Complete: 2014 Operation: 2014
7	Capital Investment	Facilities and Equipment: $5,633,457
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Shortens the exposure on the feed to Chamberlin Substation from 78 miles to 26 miles. Gives Chamberlin a stronger southern feed.
12	Consequence of Line Construction Deferment Or Termination	The loss of the Chamberlin-Mansfield 345 kV Line with the Perry Generator out of service has caused loading problems on the Hanna-Juniper 345 kV Line. This project reduces the exposure on the Chamberlin-Mansfield 345 kV Line by splitting it at Hanna Substation (78 miles to 26 miles)
13	Miscellaneous	PJM RTEP #b1283.

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Loop to New Berlin Lake Area Sub to create: Bluebell-Berlin Lake Area Sub 138 kV Niles-Berlin Lake Area Sub 138 kV
2	Point of Origin and Termination	Bluebell-Berlin Lake Area Sub 138 kV O - Bluebell T - Berlin Lake Area Sub Niles-Berlin Lake Area Sub 138 kV O - Berlin Lake Area Sub T - Niles
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Letter of Notification Filing anticipated in 2013
6	Construction	Commence: 2014 Complete: 2015 Operation: 2015
7	Capital Investment	$6,294,264
8	Substations	No. of planned substations: 1 (Berlin Lake) Voltage: 138-69 kV Location: Berlin Lake Area
9	Supporting Structures	Wood poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Long-term solution resulting in increased capacity, increased voltage, decreased line exposure.
12	Consequence of Line Construction Deferment Or Termination	Possible loss of 75+ MVA for N-1 condition.
13	Miscellaneous	PJM RTEP #s0460

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Broadview-E. Springfield 138 kV and Broadview - Tangy 138 kV Create 138kV loop around city of Springfield
2	Point of Origin and Termination	O - Point on the existing East Springfield-Tangy 138 kV Transmission Line T- existing Broadview distribution substation
3	Right of Way	Length in mile: 3.5 Average width in feet: 60 Number of transmission lines above 125 kV: 2
4	Voltage	138,000 Volts
5	Application for Certificate	Filing anticipated at a later date.
6	Construction	Commence: 2019 Complete: 2020 Operation: 2020
7	Capital Investment	$13,203,300 (includes Broadview-Clark 138kV and Broadview-Urbana 138kV)
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Wood Poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Provides FE the ablity to sustain the loss of two 138kV transmission lines, without having to drop several hundred MW of load. With the addition of 138kV line from Tangy to London back to E.Springfield, FE will be less dependant on importing from AEP through the London-Beatty 138kV line. This project will also decrease the amount of load served out of Clark Substation and will defer the proposed transformer addition project at Clark Substation. Additionally, this project will also decrease the amount of load served out of East Springfield Substation, which will postpone any transformer replacements that would be otherwise caused by increased area load.
12	Consequence of Line Construction Deferment Or Termination	Loss of both DP&L ties shows possibliltiy of voltage collapse in Springfield Division and thermal overload of two remaining 138 kV lines serving the Springfield area.
13	Miscellaneous	

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Broadview-Clark 138 kV and Broadview - Urbana 138 kV Create 138kV loop around city of Springfield
2	Point of Origin and Termination	O - Point on the existing Clark-Urbana 138 kV Transmission Line T- existing Broadview distribution substation
3	Right of Way	Length in mile: 5 Average width in feet: 60 Number of transmission lines above 125 kV: 2
4	Voltage	138,000 Volts
5	Application for Certificate	Filing anticipated at a later date.
6	Construction	Commence: 2019 Complete: 2020 Operation: 2020
7	Capital Investment	$13,203,300 (includes Broadview-E. Springfield 138 kV and Broadview - Tangy 138 kV)
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Wood Poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Provides FE the ablity to sustain the loss of two 138kV transmission lines, without having to drop several hundred MW of load. With the addition of 138kV line from Tangy to London back to E.Springfield, FE will be less dependant on importing from AEP through the London-Beatty 138kV line. This project will also decrease the amount of load served out of Clark Substation and will defer the proposed transformer addition project at Clark Substation. Additionally, this project will also decrease the amount of load served out of East Springfield Substation, which will postpone any transformer replacements that would be otherwise caused by increased area load.
12	Consequence of Line Construction Deferment Or Termination	Loss of both DP&L ties shows possibliltiy of voltage collapse in Springfield Division and thermal overload of two remaining 138 kV lines serving the Springfield area.
13	Miscellaneous	

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Hayes Substation Beaver-Hayes 345 kV Davis Besse-Hayes 345 kV Greenfield-Hayes #1 138 kV Greenfield-Hayes #2 138 kV Avery-Hayes 138 kV
2	Point of Origin and Termination	Beaver-Hayes 345 kV O-Beaver T-Hayes Davis Besse-Hayes 345 kV O-Davis Besse T-Hayes Greenfield-Hayes #1 138 kV O-Greenfield T-Hayes Greenfield-Hayes #2 138 kV O-Greenfield T-Hayes Avery-Hayes 138 kV O-Avery T-Hayes
3	Right of Way	Length in mile: Approx 1 mile of new 138 kV line Average width in feet: Existing. New 138 kV would be 60 foot right of way. Number of transmission lines above 125 kV: 1
4	Voltage	345,000 and 138,000 Volts
5	Application for Certificate	OPSB Certificate issued 12/17/12. Project construction expected to start in 2013.
6	Construction	Commence: 2013 Complete: 2014 Operation: 2014
7	Capital Investment	$16,363,207
8	Substations	No. of planned substations: 1 Voltage: 345-138 kV Location: Sandusky Area
9	Supporting Structures	Existing and wood pole for new 138 kV line
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Mitigate local voltage collapse in the Sandusky area. Allow West to East transfers across the ATSI system to supply the Cleveland area.
12	Consequence of Line Construction Deferment Or Temination	There are 23 contingencies identified that caused the load flow model to diverge, which indicates voltage collapse and potential load loss within the ATSI footprint. Also, Generator Queue Projects J106 and H037 would be considered undeliverable under the generator Deliverability test.
13	Miscellaneous	PJM RTEP #B1281

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Niles - Salt Springs 138 kV #2
2	Point of Origin and Termination	O - Niles T - Salt Springs
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB LON submitted 11/19/12 in Docket 12-3031-EL-BLN. Construction anticipated in 2013.
6	Construction	Commence: 2012 Complete: 2013 Operation: 2013
7	Capital Investment	$2,467,300
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing towers
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Area support due to the load increase by V&M Star Steel
12	Consequence of Line Construction Deferment Or Termination	Inability to reliably servé customer anticipated load increase
13	Miscellaneous	PJM RTEP #B1290

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	V&M Star Steel 2nd Feed
2	Point of Origin and Termination	O - Salt Springs T - V&M Star Steel
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2014 Complete: 2015 Operation: 2015
7	Capital Investment	$3,601,639
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing towers
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	V&M is requesting a second 138kV feed from Salt Springs Substation to tie into their ring bus and make a networked connection. They are also requesting it to incrementally increase the available short circuit at their facility – which aids in reduction of potential flicker issues.
12	Consequence of Line Construction Deferment Or Termination	Customer (V&M Star) request will not be met. PJM may be forced to run Niles generation beyond the requested in-service date.
13	Miscellaneous	

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-CEI Company Area

1	Line Name and Number	Ashtabula-Mayfield 138 kV Loop to Stacy Substation
2	Point of Origin and Termination	O - Point on the Ashtabula-Mayfield 138 kV Transmission Line T - Stacy Substation
3	Right of Way	Length in mile: 14.7 Average width in feet: 60 Number of transmission lines above 125 kV: 2 (Loop designed for double circuit construction)
4	Voltage	138,000 Volts
5	Application for Certificate	Under construction
6	Construction	Commence: 2012 Complete: 2013 Operation: 2013
7	Capital Investment	$26,820,729
8	Substations	No. of planned substations: 1 (Stacy) Voltage: 138 - 36kV Location: Geauga County
9	Supporting Structures	Wood poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	138kV transmission line will be constructed into the Middlefield area. This will provide needed voltage support and improved reliability to the area.
12	Consequence of Line Construction Deferment Or Temination	Continued low voltage, poor reliability and degraded customer relations. Routine maintenance is almost impossible even under low load conditions.
13	Miscellaneous	

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-CEI Company Area

1	Line Name and Number	Inland-Jordan Q-11 and Inland-Jordan Q-14 loops to Clinic Hospital Substation
2	Point of Origin and Termination	Inland-Clinic Hospital O-Inland T-Clinic Hospital Inland-Clinic Hospital O-Inland T-Clinic Hospital Jordan-Clinic Hospital O-Jordan T-Clinic Hospital Jordan-Clinic Hospital O-Jordan T-Clinic Hospital
3	Right of Way	Length in mile: 0.3 miles of new 138 kV line Average width in feet: 150 Number of transmission lines above 125 kV: 4
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB LON submitted 8/29/12 in Docket 12-2397-EL-BLN. Construction anticipated in 2013/201·
6	Construction	Commence: 2013 Complete: 2016 Operation: 2016
7	Capital Investment	$55,428,950
8	Substations	No. of planned substations: 1 (Clinic Hospital) Voltage: 138-36 kV Location: Cleveland , Ohio
9	Supporting Structures	Steel poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	New Substations and 36kV underground loop system provides improved reliability and the capacity to meet the needs of the Cleveland Clinic's downtown facility.
12	Consequence of Line Construction Deferment Or Termination	Inability of existing system to serve needs of growing load.
13	Miscellaneous	PJM RTEP #s0458

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Toledo Edison Company Area

1	Line Name and Number	Re-configuration for Fulton Sub to create: Allen Junction-Fulton 345 kV Fulton-Midway 345 kV Fulton-North Star Steel 345 kV Fulton-Swanton 138 kV Delta-Fulton 138 kV
2	Point of Origin and Termination	Allen Junction-Fulton 345 kV O-Allen Junction T-Fulton Fulton-Midway 345 kV O-Fulton T-Midway Fulton-North Star Steel 345 kV O-Fulton T-North Star Steel Fulton-Swanton 138 kV O-Fulton T-Swanton Delta-Fulton 138 kV O-Delta T-Fulton
3	Right of Way	Length in mile: 1.2 mile of new 138 kV line Average width in feet: 60 Number of transmission lines above 125 kV: 2
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Certificate issued 12/17/12. Project under construction.
6	Construction	Commence: 2012 Complete: 2013 Operation: 2013
7	Capital Investment	$13,225,097
8	Substations	No. of planned substations: 1 (Fulton) Voltage: 345-138 kV Location: Swan Creek Township
9	Supporting Structures	Wood poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Fulton Substation provides a long term solution to voltage and thermal loading concerns in the fast growing area west of Toledo Airport. The other option (#2) does not provide as much support as Fulton and will require substantially more siting work. The Delta area has been the target of industrial inquiries such as ZincOx and Linde BOC gases. Fulton will mitigate potential voltage fluctuations for customers like ZincOx better than the other options.
12	Consequence of Line Construction Deferment Or Temination	Voltage and thermal criteria violations.
13	Miscellaneous	PJM RTEP #b1297

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Masury-Shenango 138kV (raise rating)
2	Point of Origin and Termination	O-Masury T-Shenango
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2012 Complete: 2013 Operation: 2013
7	Capital Investment	$137,700
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Reconductor the entire Masury 138 kV bus and line exit to Shenango. 1. Replace 300,500,and 750 Cu substation conductor used for the main bus with 954 ACSR at Masury Substation. Include connections from main bus to individual line exits. 2. Replace 300 and 750 Cu, as well as 795 SAC substation conductor of the Shenango Line Exit with 954 ACSR. 3. Replace (2) 600 Amp disconnect switches with (2) 1200 Amp switches on Shenango Line Exit at Masury Substation. Eliminates thermal overload under post-contingency condition.
12	Consequence of Line Construction Deferment Or Temination	The Masury-Shenango 138kV line overloads for the loss of the Crossland-Shenango #1 and Crossland-Shenango #2 138kV lines that share a common tower structure. This overload (107.2% SE) was identified by PJM as a violation in the 2013 Baseline Thermal Analysis.
13	Miscellaneous	PJM RTEP #B1229

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Masury-Crossland 138kV (raise rating)
2	Point of Origin and Termination	O-Masury T-Crossland
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2012 Complete: 2013 Operation: 2013
7	Capital Investment	$70,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Replace 500 and 750 Cu substation conductor of the Crossland Line Exit at Masury Substation with 954 ACSR. Eliminates thermal overload under post-contingency condition.
12	Consequence of Line Construction Deferment Or Temination	The Masury-Crossland line overloads (100.3%SE) for the loss of Masury-Shenago 138 kV in the 2015 PJM analysis.
13	Miscellaneous	PJM RTEP #B1288

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Hanna-West Ravenna 138kV #1 (raise rating) Hanna-West Ravenna 138kV #2 (raise rating)
2	Point of Origin and Termination	O-Hanna T-West Ravenna
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB CN submitted 8/1/12 in Docket 12-2208-EL-BNR. Under construction.
6	Construction	Commence: 2012 Complete: 2013 Operation: 2013
7	Capital Investment	$2,542,400
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Reconductor Hanna-West Ravenna 138 kV lines #1- Replace 4.75 miles of 605 kcmil ACSR and 0.09 miles of 795 kcmil ACSR with 636 kcmil ACSS/TW & #2- Replace 4.8 miles of 605 kcmil ACSR with 636 kcmil ACSS/TW. At Hanna - Upgrade line exit to breaker disconnect switch on W. Ravenna #1 and #2 and replace wave trap. At West Ravenna - Upgrade line exit to breaker disconnect switch on W. Ravenna #1 and #2 and replace wave trap. Eliminates thermal overload under post-contingency condition.
12	Consequence of Line Construction Deferment Or Termination	Loss of the Hanna-West Ravenna No.2 138 kV Line and the Hanna-Juniper 345 kV Lines or the Hanna-West Ravenna No.2 138 kV Line and the East Akron-Hanna 138 kV Line loads the Hanna-West Ravenna No.1 138 kV Lines to 101.0-107.2% of its Summer Emergency rating (232.6/281.6 MVA SN/SE) Loss of the Hanna-West Ravenna No.1 138 kV Line and the Hanna-Juniper 345 kV Lines or the Hanna-West Ravenna No.1 138 kV Line and the East Akron-Hanna 138 kV Line loads the Hanna-West Ravenna No.2 138 kV Lines to 101.0% of its Summer Emergency rating (232.6/281.6 MVA SN/SE)
13	Miscellaneous	PJM RTEP #b1286, #b1287

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Evergreen-Niles 138kV (raise rating)
2	Point of Origin and Termination	O-Evergreen T-Niles
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Letter of Notification submitted 11/9/12 in Docket 12-2938-EL-BLN. Under construction.
6	Construction	Commence: 2012 Complete: 2013 Operation: 2013
7	Capital Investment	$876,277
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Reconductor of 2.5 miles of 336.4 ACSR with 795 ACSR or 336 ACSS from Evergreen Substation to point of conductor change. Reconductor of 0.48 miles of 477 ACSR with 795 ACSR or 336 ACSS from conductor change to corner dead-end where the line turns east and changes to 795 ACSR. Eliminates thermal overload under post-contingency condition.
12	Consequence of Line Construction Deferment Or Temination	With the loss of the Highland – Salt Springs 138kV line, in the Niles Unit #1 stress case, the Niles– Evergreen 138kV line overloads to 103.7% of SN and 88% SE.
13	Miscellaneous	PJM RTEP #b1289

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Toledo Edison Company Area

1	Line Name and Number	Lemoyne-Midway 138kV (Brim Line) (raise rating)
2	Point of Origin and Termination	O-Lemoyne T-Midway
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Don't anticipate OPSB associated siting filings
6	Construction	Commence: 2012 Complete: 2013 Operation: 2013
7	Capital Investment	$50,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Replace 336.4 AA substation conductor with a higher ampacity wire, such as 954 ACSR. Make CT ratio and relay setting changes (5) to increase loadability. Removes future C3 (N-1-1) thermal overloads at minimal cost. Keeps the system compliant with PJM's standards.
12	Consequence of Line Construction Deferment Or Temination	Violation of EDPP & PJM planning standards. Possible forced outages of this critical line, which serves Bowling Green.
13	Miscellaneous	PJM RTEP #b1296.1, #b1296.2

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Toledo Edison Company Area

1	Line Name and Number	Jackman-GM Powertrain 138kV (raise rating)
2	Point of Origin and Termination	O-Jackman T-GM Powertrain
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Will be submitted as a Letter of Notification at future date.
6	Construction	Commence: 2013 Complete: 2014 Operation: 2014
7	Capital Investment	$1,310,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Reconductor about 1.1 miles of 636 ASCR with 795 ACS (Jackman-Smuckers) Remove thermal overload violations. Thermal emergency rating will increase from 292 to 343 MVA
12	Consequence of Line Construction Deferment Or Termination	PJM and NERC violations, possible fines
13	Miscellaneous	PJM RTEP #b1194.2

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Masury-Shenango 138kV (raise rating)
2	Point of Origin and Termination	O-Masury T-Shenango
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Will be submitted as a Letter of Notification at future date.
6	Construction	Commence: 2016 Complete: 2017 Operation: 2017
7	Capital Investment	$225,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Reconductor Replacement of the limiting transmission line segment will increase the capacity of the line, and eliminate the overload violation for this C5 towerline outage.
12	Consequence of Line Construction Deferment Or Temination	Overload violation for C5 towerline outage
13	Miscellaneous	

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Loop to East Akron-Sammis 138kV to Knox Sub to create: East Akron-Knox 138 kV Knox-Sammis 138 kV
2	Point of Origin and Termination	East Akron-Knox 138 kV O - East Akron T - Knox Knox-Sammis 138 kV O - Knox T - Sammis
3	Right of Way	Length in mile: Approx imately 0.3 mile of 138 kV line Average Width in Feet: 60 Number of transmission lines above 125 kV: 2
4	Voltage	138,000 Volts
5	Application for Certificate	*OPSB application and Certificate issued 12/17/12 for Knox Substation expansion.* OPSB LON submitted 9/28/12 in Docket 12-2630-EL-BLN for line extension. Project under construction.
6	Construction	Commence: 2012 Complete: 2013 Operation: 2013
7	Capital Investment	$2,547,900
8	Substations	No. of planned substations: N/A Voltage: N/A Location: N/A
9	Supporting Structures	Wood Poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Low voltage violations for Washington REC and Knox loads for the loss of the Bluebell-Knox 138kV line section. Bluebell Bus outage causes low voltages (below 90%) at Knox and Washington REC. Retirement of Burger generation reduces support to this area and causes even lower voltage to occur (voltage collapse). Future year studies indicate that without generation at Burger, the Burger bus voltage drops below 92% under post-contingency conditions.
12	Consequence of Line Construction Deferment Or Temination	Violation of Criteria. Fix will be mandated
13	Miscellaneous	PJM RTEP #b1692

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Loop the Edgewater-Beaver 138kV into Black River. Disconnect jumpers to the north (Edgewater-Republic 138kV) and install new jumpers to the existing conductors on the north side of the Republic towers to create: Beaver-Black River 138 kV Black River-Republic 138kV #1 Loop in Johnson-Republic 138kV to create: Black River-Johnson 138 kV #2 Black River-Republic 138kV #2 Loop in Johnson-Lorain 138kV to create: Black River-Johnson 138kV #1 Black River-Lorain 138kV
2	Point of Origin and Termination	Beaver-Black River 138 kV O - Beaver T - Black River Black River-Republic 138kV #1 & #2 O - Black River T - Republic Black River-Johnson 138 kV #1 & #2 O - Black River T - Johnson Black River-Lorain 138kV O - Black River T - Lorain
3	Right of Way	Length in mile: 0.15 miles of 138 kV line Average width in feet: 60 Number of transmission lines above 125 kV: 2
4	Voltage	138,000 Volts
5	Application for Certificate	Black River 138-69 kV Substation - Lorain Redevelopment & Republic Arc Furnace Addition: Filed in 2011 in Docket 11-5855-EL-BSB. Black River Transmission Line: Filed in 2011 in Docket 11-5856-EL-BTX. Johnson-Lorain 138 kV Transmission Line Reconductoring Project: Filed in 2011 in Docket 11-6031-EL-BNR
6	Construction	Commence: 2012 Complete: 2013 Operation: 2013
7	Capital Investment	$17,850,000
8	Substations	No. of planned substations: 1 (Black River) Voltage: 138-69kV Location: Lorain, OH
9	Supporting Structures	Existing / Wood and steel poles
10	Participation w/other Utilities	None
11	Purpose of Planned Transmission Line	Improved service to general area. Provided ability to abandon 138 kV and 69 kV lines along Black River - which was a past request made by the City of Lorain. Provided ability to abandon Edgewater Substation. System configuration helps to minimize potential flicker issues.System modifications are mostly on existing ROW corridors and minimizes impacts to area.
12	Consequence of Line Construction Deferment Or Temination	Without the Black River substation, the area transmission system would be unable to support the new arc furnace load addition at Republic Steel. There is the potential for voltage collapse, voltage flicker issues under normal and contingency conditions and thermal overloads for N-1-1 conditions. Violation of NERC, PJM & FE planning criteria.
13	Miscellaneous	PJM RTEP #s0463

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Toledo Edison Company Area

1	Line Name and Number	Cut between three-terminal junction and Richland on Midway-Richland-Wauseon 138kV and between three-terminal junction and Stryker on Napoleon-Richland-Stryker 138kV. Jumper between Richland and Stryker to create: Midway-Wauseon 138kV Napoleon-Richland 138kV Richland-Stryker 138kV
2	Point of Origin and Termination	Midway-Wauseon 138kV O: Midway T: Wauseon Napoleon-Richland 138kV O: Napoleon T: Richland Richland-Stryker 138kV O: Richland T: Stryker
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2017 Complete: 2018 Operation: 2018
7	Capital Investment	$232,200
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Based on 2009 loads (12-03-08 forecast), the NERC category B outage of Richland-Ridgeville 138kV line (Q-2) results in loadings on Richland-Naomi Jct. 138kV line (Q-1) of 86% of SE(166 MVA) when Michigan and/or Ontario is importing 2,000 MW from the south (AEP/TVA). Based on 2013 loads (12-03-08 forecast), the same contingency causes the loading on the Richland-Naomi Jct. 138 kV line to reach 91% of SE. Coordinate with line relay replacement projects. Improve reliability by minimizing overtrippings and simplifying switching.
12	Consequence of Line Construction Deferment Or Termination	Overtrippings and switching errors, as well as inability to reliably support transfers to Michigan and Ontario.
13	Miscellaneous	

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Shawville Sub - Convert to 138kV
2	Point of Origin and Termination	O: Tap on the Carlisle-Lorain 138kV line T: Shawville
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Letter of Notification Filing anticipated in 2013.
6	Construction	Commence: 2014 Complete: 2015 Operation: 2015
7	Capital Investment	$4,439,600
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	This project corrects a planning criteria violation. Removes a large load from the 69 kV system freeing up capacity for commercial and small industrial customers
12	Consequence of Line Construction Deferment Or Temination	Burn down of the overloaded conductors
13	Miscellaneous	

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Beaver-Davis Besse 345kV #2
2	Point of Origin and Termination	O: Beaver T: Davis Besse
3	Right of Way	Existing
4	Voltage	345,000 Volts
5	Application for Certificate	OPSB LON submitted and approved for open arm portion of project from Davis Besse to Hayes in Docket 12-2666-EL-BLN. OPSB Application submitted on 7/31/12 in Docket 11-4248-EL-BTX for Beaver to Brownhelm Junction portion of project. Construction expected to begin in 2013.
6	Construction	Commence: 2013 Complete: 2014 Operation: 2014
7	Capital Investment	$16,263,538
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing / Wood H-Frame (Beaver-Brownhelm Jct.)
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	This project mitigates issues identified by PJM (and confirmed by FirstEnergy) during the PJM Load Deliverability and Generator Deliverability tests.
12	Consequence of Line Construction Deferment Or Termination	There are 23 contingencies identified that caused the load flow model to diverge, which indicates voltage collapse and potential load loss within the ATSI footprint. Also, Generator Queue Projects J106 and H037 would be considered undeliverable under the generator Deliverability test. The Sandusky region could experience a blackout.
13	Miscellaneous	PJM RTEP #b1282

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Loop existing Highland-Shenango 345 kV into Niles Sub to create Highland-Niles 345kV Niles-Shenango 345kV
2	Point of Origin and Termination	Highland-Niles 345kV O: Highland T: Niles Niles-Shenango 345kV O: Niles T: Shenango
3	Right of Way	Length in mile: 0.2 Average width in feet: 100 Number of transmission lines above 125 kV: 1
4	Voltage	345,000 Volts
5	Application for Certificate	OPSB Letter of Notification Filing anticipated in 2013.
6	Construction	Commence: 2014 Complete: 2015 Operation: 2015
7	Capital Investment	$11,619,840
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Wood poles (horizontal configuration)
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Recommended solution adds an additional 345kV source to an area weakened by the Niles generation retirement. Addition of an EHV transformer increase short circuit levels MVA_SC to help mitigate flicker issues caused by area EAF operations.
12	Consequence of Line Construction Deferment Or Termination	Delay of the retirement of New Castle Generation.
13	Miscellaneous	PJM RTEP #b1934, #b1934,1. #b1934.2

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Glenwillow-Mansfield 345kV Loop existing Inland-Perry (S-5-PY-IN) 345kV to create Glenwillow-Inland 345kV Glenwillow-Perry 345kV Loop existing Eastlake-Juniper (S-7-EL-JR) 345kV to create Eastlake-Glenwillow 345kV Glenwillow-Juniper 345kV
2	Point of Origin and Termination	Glenwillow-Mansfield 345kV O: Glenwillow T: Mansfield Glenwillow-Inland 345kV O: Glenwillow T: Inland Glenwillow-Perry 345kV O: Glenwillow T: Perry Eastlake-Glenwillow 345kV O: Eastlake T: Glenwillow Glenwillow-Juniper 345kV O: Glenwillow T: Juniper
3	Right of Way	Existing
4	Voltage	345,000 Volts
5	Application for Certificate	OPSB LON submitted 11/9/12 in Docket 12-1726-EL-BLN for Bruce Mansfield-Docket 12-1727-EL-BSB for Glenwillow Substatin. Construction anticipated to begin in 2013.
6	Construction	Commence: 2013 Complete: 2015 Operation: 2015
7	Capital Investment	$111,726,400
8	Substations	No. of planned substations: 1 (Glenwillow switching station) Voltage: 345kV Location: Northfield area
9	Supporting Structures	Existing / Steel Poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Prevent preemptive load shed or post-contingency voltage collapse in the Cleveland area. This is a required RTEP baseline project
12	Consequence of Line Construction Deferment Or Termination	The ATSI system is at risk for thermal/voltage criteria violations that may result in load shed to resolve.
13	Miscellaneous	PJM RTEP #b1923, #b1924

4901:5-5-04(D)(1)

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Loop existing Lemoyne-Midway 345kV to create Dowling-Lemoyne 345kV Dowling-Midway 345kV Loop existing Lemoyne-Midway 138kV to create Dowling-Lemoyne 138kV Dowling-Midway 138kV Loop existing Chrysler-Levis Park 138kV to create Chrysler-Dowling 138kV Dowling-Levis Park 138kV
2	Point of Origin and Termination	Dowling-Lemoyne 345kV O: Dowling T: Lemoyne Downling-Midway 345kV O: Dowling T: Midway Dowling-Lemoyne 138kV O: Dowling T: Lemoyne Dowling-Midway 138kV O: Dowling T: Midway Chrysler-Dowling 138kV O: Chrysler T: Dowling Dowling-Levis Park 138kV O: Dowling T: Levis Park
3	Right of Way	Length in mile: 2.2 Average width in feet: 60 Number of transmission lines above 125 kV: 2
4	Voltage	345,000 & 138,000 Volts
5	Application for Certificate	OPSB Letter of Notification Filing anticipated in 2013.
6	Construction	Commence: 2014 Complete: 2015 Operation: 2015
7	Capital Investment	$22,781,000
8	Substations	No. of planned substations: 1 (Dowling) Voltage: 345-138kV Location: Perrysburg Township
9	Supporting Structures	Wood poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	The 345-138kV source provides much better voltage support. The 138kV circuits are 25-30 miles long which leads to high losses and voltage drop.
12	Consequence of Line Construction Deferment Or Termination	Voltage Violations in 2015
13	Miscellaneous	PJM RTEP #b1977

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Loop existing Ashtabula-Mayfield (Q-1-AT-MF) 138kV to create Ashtabula-Leroy Center 138kV #1 Leroy Center-Mayfield 138kV #1 Loop existing Ashtabula-Mayfield (Q-2-AT-MF) 138kV to create Ashtabula-Leroy Center 138kV #2 Leroy Center-Mayfield 138kV #2 Loop existing Ashtabula-Mayfield (Q-3-AT-MF) 138kV to create Ashtabula-Leroy Center 138kV #3 Leroy Center-Mayfield 138kV #3 Loop existing Ashtabula-Mayfield (Q-4-AT-MF) 138kV to create Ashtabula-Leroy Center 138kV #4 Leroy Center-Mayfield 138kV #4 Network existing Eastlake-Nursery (Q-15-EL-NY) 138kV to create Eastlake-Leroy Center 138kV #15 Network existing Eastlake-Nursery (Q-16-EL-NY) 138kV to create Eastlake-Leroy Center 138kV #16 Loop existing Perry-Harding (S-6-PY-HD) 345kV to create Harding-Leroy Center 345kV Leroy Center-Perry 345kV
2	Point of Origin and Termination	Ashtabula-Leroy Center 138kV (#1, #2, #3, #4) O: Ashtabula T: Leroy Center Leroy Center-Mayfield 138kV (#1, #2, #3, #4) O: Leroy Center T: Mayfield Eastlake-Leroy Center 138kV (#15, #16) O: Eastlake T: Leroy Center Harding-Leroy Center 345kV O: Harding T: Leroy Center Leroy Center-Perry 345kV O: Leroy Center T: Parry
3	Right of Way	Existing
4	Voltage	345,000 & 138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2015 Complete: 2016 Operation: 2016
7	Capital Investment	$27,616,200
8	Substations	No. of planned substations: 1 (Leroy Center) Voltage: 345kV, 138kV Location: Leroy Township
9	Supporting Structures	Existing
10	Participation w/other utilities	None
11	Purpose of Planned Transmission Line	Prevent preemptive load shed or post-contingency voltage collapse in the Cleveland area. This is a required RTEP baseline project
12	Consequence of Line Construction Deferment Or Termination	The ATSI system is at risk for thermal/voltage criteria violations that may result in load shed to resolve.
13	Miscellaneous	PJM RTEP #b1937 & b1938 & b2042

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Loop existing Burger-Cloverdale #3 138kV (At time of installation, this will be Cloverdale- AEP Ghost Town 138kV) to create Cloverdale-Harmon 138kV #1 Harmon-AEP Ghost Town 138kV (Burger side) Loop existing Cloverdale-Knox 138kV to create Cloverdale-Harmon 138kV #2 Harmon-Knox 138kV Loop existing Star-AEP South Canton 345kV to create Harmon-Star 345kV Harmon-AEP South Canton 345kV
2	Point of Origin and Termination	Cloverdale-Harmon 138kV (#1, #2) O: Cloverdale T: Harmon Harmon-AEP Ghost Town 138kV O: Harmon T: AEP Ghost Town Harmon-Knox 138kV O: Harmon T: Knox Harmon-Star 345kV O: Harmon T: Star Harmon-AEP South Canton 345kV O: Harmon T: AEP South Canton
3	Right of Way	Existing or minimal
4	Voltage	345,000 & 138,000 Volts
5	Application for Certificate	OPSB Letter of Notification Filing anticipated in 2013.
6	Construction	Commence: 2013 Complete: 2015 Operation: 2015
7	Capital Investment	$34,429,000
8	Substations	No. of planned substations: 1 (Harmon) Voltage: 345-138-69kV Location: Massillon
9	Supporting Structures	Existing / Wood poles
10	Participation with other Utilities	AEP
11	Purpose of Planned Transmission Line	Recommended solution is supported by PJM as the preferred fix to mitigate several Gen Retirement violations. Recommended solution also eliminates voltage collapse of the Massillon system for a bus fault/breaker failure at Cloverdale.
12	Consequence of Line Construction Deferment Or Termination	Possible loss of 212 MW of load in the Massillon Area.
13	Miscellaneous	2537 & b1938 & b2042

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Un-six-wire existing East Akron-Sammis 138kV to create Congress-Toronto 138kV Un-six-wire existing Boardman-Sammis 138kV - and - network Boardman-Nevada 138kV radial to create Boardman-Toronto 138kV Un-six-wire existing Dobbins-Sammis 138kV to create Dobbins-Toronto 138kV Sammis-Toronto 138kV Loop existing Sammis-Wylie Ridge 345kV to create Sammis-Toronto 345kV Toronto-Wylie Ridge 345kV
2	Point of Origin and Termination	Congress-Toronto 138kV O: Congress T: Toronto Boardman-Toronto 138kV O: Boardman T: Toronto Dobbins-Toronto 138kV O: Dobbins T: Toronto Sammis-Toronto 138kV O: Sammis T: Toronto Sammis-Toronto 345kV O: Sammis T: Toronto Toronto-Wylie Ridge 345kV O: Toronto T: Wylie Ridge
3	Right of Way	Existing
4	Voltage	345,000 & 138,000 Volts
5	Application for Certificate	OPSB Letter of Notification Filing anticipated in 2013.
6	Construction	Commence: 2014 Complete: 2015 Operation: 2015
7	Capital Investment	$40,311,666
8	Substations	No. of planned substations: 1 (Toronto) Voltage: 345-138kV Location: Toronto
9	Supporting Structures	Existing / Steel and wood poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Provides strong ATSI source into Akron, Warren, and Youngstown systems. ATSI does not have to rely on AEP to support the Massillon, Akron, Media areas
12	Consequence of Line Construction Deferment Or Termination	NERC, PJM, and FE Planning Criteria Violaitons + load shed.
13	Miscellaneous	PJM RTEP #b1977

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Ohio Star Forge moved from 23kV to 138kV service on the Evergreen-Ivanhoe 138kV line
2	Point of Origin and Termination	O-Tap point on the Evergreen-Ivanhoe 138kV line T-Ohio Star Forge
3	Right of Way	Length in mile: 0.1 Average Width in Feet: 60 Number of transmission lines above 125 kV: 1
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2013 Complete: 2013 Operation: 2013
7	Capital Investment	$1,110,350
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Wood poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Ohio Star Forge has submitted a retail load connection application to increase their load from 8 MVA (existing) to 13 MVA (initial), 17 MVA (5 yrs), 22.5 MVA (10 yrs). Star Forge is currently served at 23 kV, but the 23 kV system cannot handle the proposed load increases. Star Forge will need to build a 138 kV substation and receive service at 138 kV.
12	Consequence of Line Construction Deferment Or Termination	Not able to serve customer load increase.
13	Miscellaneous	

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Utica East Ohio Midstream (M3 Midstream) 138kV tap to new Kensington Plant
2	Point of Origin and Termination	O-Tap point on the East Akron-Sammis 138kV line T-M3 Midstream Kensington Plant
3	Right of Way	Length in mile: 0.4 Average Width in Feet: 60 Number of transmission lines above 125 kV: 1
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Letter of Notification for transmission line tap submitted 11/5/12 in Docket 12-2912-EL-BLN. Construction underway.
6	Construction	Commence: 2015 Complete: 2018 Operation: 2018
7	Capital Investment	$4,061,800
8	Substations	No. of planned substations: 1 (M3 Midstream Kensington Plant) Voltage: 138kV Location: Hanover Township
9	Supporting Structures	Wood poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Recommended solution provides electircal service to the proposed customer by the date requested.
12	Consequence of Line Construction Deferment Or Termination	Not meeting customer contractual commitments.
13	Miscellaneous	

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Groton-Hayes 138kV Groton-West Fremont 138kV
2	Point of Origin and Termination	Groton-Hayes 138kV O: Groton T: Hayes Groton-West Fremont 138kV O: Groton T: West Fremont
3	Right of Way	Length in mile: 28 Average Width in Feet: 60 Number of transmission lines above 125 kV: 1 Length in mile: 1 (loop to Groton) Average Width in Feet: 60 Number of transmission lines above 125 kV: 2
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification or Construction Notice at future date.
6	Construction	Commence: 2013 Complete: 2013 Operation: 2013
7	Capital Investment	$33,818,993
8	Substations	No. of planned substations: 1 (Groton) Voltage: 138kV Location: Bellevue
9	Supporting Structures	Wood poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Much cheaper than rebuilding the Ottawa-Lakeview-Greenfield corridor. Reduces generation congestion in the Fremont area. Provides needed voltage support to the Bellevue 69kV area.
12	Consequence of Line Construction Deferment Or Termination	Thermal overloads on the 138kV system, leading to PCLLRW (forced dropping of load by PJM). Generation curtailment and higher congestion costs in the region.
13	Miscellaneous	PJM RTEP #b1959

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Pennant Midstream tap off Sammis-Lowellville 138kV
2	Point of Origin and Termination	O-Tap point on the Sammis-Lowellville 138kV line T-Pennant Midstream
3	Right of Way	Length in mile: 3.7 Average Width in Feet: 60 Number of transmission lines above 125 kV: 1
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification or Construction Notice at future date.
6	Construction	Commence: 2013 Complete: 2013 Operation: 2013
7	Capital Investment	$250,000
8	Substations	No. of planned substations: 1 (Pennant Midstream) Voltage: 138kV Location: New Middletown
9	Supporting Structures	Wood poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Recommended solution provides electrical service to the customer.
12	Consequence of Line Construction Deferment Or Termination	Not meeting our customers contractual commitments
13	Miscellaneous	

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Old Forge New Mod Sub
2	Point of Origin and Termination	O-Tap point on the East Akron-Hanna 138kV line T-Old Forge
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Letter of Notification for transmission line tap submitted 1/7/13 in Docket 13-0108-EL-BLN. Construction aqnticiapted in 2013.
6	Construction	Commence: 2013 Complete: 2013 Operation: 2013
7	Capital Investment	$2,359,464
8	Substations	No. of planned substations: 1 (Old Forge) Voltage: 138kV Location: Kent
9	Supporting Structures	Wood poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	The recommended solution places the new Mod Sub on the East Akron-Hanna138kv line, relieving about 10 MVA of load load from Gilchrist - West Ravenna 69 kV. It provides load relief for several station transformers which have or are forecasted to exceed MLOL ratings, Tallmadge TR#2 has exceeded MLOL in 2011 and 2012. Additional capacity will be available to support the new residential and commercial loads developing in Kent / Brimfield area. The new station provides improved voltage on Brimfield Howe circuit.
12	Consequence of Line Construction Deferment Or Termination	Continued overloads, Transformers exceeding MLOL and limited transferability. Risk of failures to 4 transformers and creating large outage to the area.
13	Miscellaneous	

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Allen Junction-Fulton 345kV #2 Fulton-Midway 345kV Lemoyne-Midway 345kV Existing (future) loop to Midway of Dowling-Midway 345kV and Fulton-Midway 345kV will be eliminated to create: Dowling-Fulton 345kV
2	Point of Origin and Termination	Allen Junction-Fulton 345kV #2 O: Allen Junction T: Fulton Fulton-Midway 345kV O: Fulton T: Midway Lemoyne-Midway 345kV O: Lemoyne T: Midway Dowling-Fulton 345kV O: Dowling T: Fulton
3	Right of Way	Existing
4	Voltage	345,000 Volts
5	Application for Certificate	OPSB Letter of Notification Filing anticipated in 2013.
6	Construction	Commence: 2013 Complete: 2016 Operation: 2016
7	Capital Investment	$23,705,300
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing and wood poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Avoid an N-1-1 contingency that removes the Allen Junction, Fulton, Midway, and Five Points 345kV source substations from the system. Avoid using an operating procedure to drop 150MW from the transmission system.
12	Consequence of Line Construction Deferment Or Termination	Cause a thermal violation and future voltage issues due to N-1-1 contignencies within the Toledo Eidson footprint.
13	Miscellaneous	PJM RTEP #b1936

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Avery-Greenfield 138kV (raise rating)
2	Point of Origin and Termination	Avery-Greenfield 138kV O: Avery T: Greenfield
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification or Construction Notice at future date.
6	Construction	Commence: 2014 Complete: 2014 Operation: 2014
7	Capital Investment	$161,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Increase thermal capability of the Avery - Hayes 138kV line and prevent potential sag limitation issues on this circuit.
12	Consequence of Line Construction Deferment Or Termination	Possibly violate future Interconnection Agreement with generation connection. Create thermal overloads and cogestion on the 138kV system in ATSI, which may result in load shed.
13	Miscellaneous	PJM RTEP #b1930

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Cloverdale-Star 138kV (raise rating)
2	Point of Origin and Termination	Cloverdale-Star 138kV O: Cloverdale T: Star
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification or Construction Notice at future date.
6	Construction	Commence: 2014 Complete: 2015 Operation: 2015
7	Capital Investment	$527,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Raise the operating temperature of the existing 605 kcmil ACSR to 212 degrees F. Replace the WT at Cloverdale and Star Substations.
12	Consequence of Line Construction Deferment Or Termination	Thermal overload
13	Miscellaneous	PJM RTEP #b2105

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Barberton-Star 138kV (raise rating)
2	Point of Origin and Termination	Barberton-Star 138kV O: Barberton T: Star
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Do not anticipate OPSB associated siting filings.
6	Construction	Commence: 2015 Complete: 2015 Operation: 2015
7	Capital Investment	$250,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Upgrade operating temperature of Barberton-Star #1 138 kV Line to 212 and replace 605 kcmil SCIR w/954 kcmil ACSR at Star Substation
12	Consequence of Line Construction Deferment Or Termination	With a load of 13347.2 MW for the loss of the Star-Wadsworth and the Barberton-Star #2 138 kV Lines the Barberton-Star#1 138 kV Line loads to 103.6% Summer Emergency Rating (206 MVA)
13	Miscellaneous	PJM RTEP #b1586

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Avon-Fowles 138kV #2 (Q-2-AV-FW) (raise rating on tap to Lorain) Lorain-Johnson 138kV #23 (Q-23-LR-OEJ) (raise rating)
2	Point of Origin and Termination	Avon-Fowles 138kV #2 O: Lorain tap on the Avon-Fowles 138kV #2 line T: Lorain Lorain-Johnson 138kV #23 O: Lorain T: Johnson
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Do not anticipate OPSB associated siting filings.
6	Construction	Commence: 2013 Complete: 2013 Operation: 2013
7	Capital Investment	$354,500
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Prevent preemptive load shed. Future proof relay replacement
12	Consequence of Line Construction Deferment Or Termination	At risk for thermal criteria violations that may result in load shed to resolve. Miscoordination of Relays/carrier sets
13	Miscellaneous	PJM RTEP #s0463

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Bayshore-Fostoria 345kV (structure replacement) Lemoyne-ITC Majestic 345kV (structure replacement)
2	Point of Origin and Termination	Bayshore-Fostoria 345kV O: Bayshore T: Fostoria Lemoyne-ITC Majestic 345kV O: Lemoyne T: ITC Majestic
3	Right of Way	Existing
4	Voltage	345,000 Volts
5	Application for Certificate	Under construction.
6	Construction	Commence: 2013 Complete: 2013 Operation: 2013
7	Capital Investment	$2,197,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Remove 14 wooden H-frame structures Install 5 double-circuit steel poles with concrete foundations
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Restore 345kV to original design. Less footprint for farmers. Stronger structural support and greater sag clearances between phases.
12	Consequence of Line Construction Deferment Or Termination	Angry land-owners. Less structural integrity on wood poles, compared to steel towers. Potential sagging issues leading to short circuits.
13	Miscellaneous	

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Brookside-AEP Howard (raise rating)
2	Point of Origin and Termination	Brookside-AEP Howard 138kV O: Brookside T: Howard
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification or Construction Notice at future date.
6	Construction	Commence: 2013 Complete: 2013 Operation: 2013
7	Capital Investment	$7,000,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	AEP is responsible for reconductoring from structure 1681 to Howard
11	Purpose of Planned Transmission Line	Increase rating of the line to avoid potential overload with the retirement of the lake plants.
12	Consequence of Line Construction Deferment Or Termination	Overload of line with the retirement of lake plants.
13	Miscellaneous	

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Galion-Leaside 138kV (raise rating)
2	Point of Origin and Termination	Galion-Leaside 138kV O: Galion T: Leaside
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Letter of Notification Filing anticipated in 2013.
6	Construction	Commence: 2014 Complete: 2014 Operation: 2014
7	Capital Investment	$3,072,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Recommended solution mitigates thermal overloads on 138kV facilities. This facitility has been identified as overloading for N-1 conditions in real-time ops. Several PCLLRW warnings have been issued. One PCLLRW was issued in 2011 and resulted in 210MW of load shed. The recommended solution would have avoided PCLLRW load shed.
12	Consequence of Line Construction Deferment Or Termination	Defer the retirement of FES generation: Bayshore Units #2-4, Astabula Unit 5, Lakeshore Unit 18, and Eastlake Units #1-5. Possible load shed to avoid thermal overload.
13	Miscellaneous	PJM RTEP #b1919

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Galion-Longview 138kV (raise rating)
2	Point of Origin and Termination	Galion-Longview 138kV O: Galion T: Longview
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Letter of Notification Filing anticipated in 2013.
6	Construction	Commence: 2014 Complete: 2014 Operation: 2014
7	Capital Investment	$8,867,700
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Only option that can be implemented by the required in-service date.
12	Consequence of Line Construction Deferment Or Termination	Violations of PJM and NERC criteria. Particularly, it would be thermal violations. Possible load shed in the area to get back within criteria
13	Miscellaneous	PJM RTEP #b1920

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Cloverdale-Harmon #2 138kV (raise rating) Cloverdale-Harmon #3 138kV (raise rating)
2	Point of Origin and Termination	Cloverdale-Harmon 138kV (#2, #3) O: Cloverdale T: Harmon
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification or Construction Notice at future date.
6	Construction	Commence: 2014 Complete: 2015 Operation: 2015
7	Capital Investment	$2,420,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Eliminates identified violations. Reduces local area impact by reutilizing existing facilities.
12	Consequence of Line Construction Deferment Or Termination	NERC and PJM plannign criteria violations. Overload of 138 kV lines between Cloverdale and Harmon
13	Miscellaneous	PJM RTEP #b1931

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Barberton-West Akron 138kV (raise rating)
2	Point of Origin and Termination	Barberton-West Akron 138kV O: Barberton T: West Akron
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification or Construction Notice at future date.
6	Construction	Commence: 2014 Complete: 2015 Operation: 2015
7	Capital Investment	$1,950,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	PJM Gen Retirement project. Thermal overload identified in Avon Retirement Study.
12	Consequence of Line Construction Deferment Or Termination	Circuit overload.
13	Miscellaneous	PJM RTEP #b1939

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Midway-Richland-Wauseon 138kV (raise rating)
2	Point of Origin and Termination	Richland-Naomi Jct. 138kV O: Richland T: Naomi Jct. (3-terminal junction)
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Do not anticipate OPSB associated siting filings.
6	Construction	Commence: 2015 Complete: 2015 Operation: 2015
7	Capital Investment	$26,600
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	This project will raise the SE rating from 179 MVA to 191 MVA, removing the NERC Category C overload.
12	Consequence of Line Construction Deferment Or Termination	NERC Category C thermal violation. Generation curtailment at Richland peaking plant
13	Miscellaneous	PJM RTEP #b1933

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Inland-Clinic Q-11 138kV (raise rating)
2	Point of Origin and Termination	Inland-Clinic Q-11 138kV O: Inland T: Clinic
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification or Construction Notice at future date.
6	Construction	Commence: 2015 Complete: 2016 Operation: 2016
7	Capital Investment	$1,213,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Increased loadability
12	Consequence of Line Construction Deferment Or Termination	More severe overloads
13	Miscellaneous	PJM RTEP #b1978

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Avon-Crestwood Q-1 138kV (raise rating)
2	Point of Origin and Termination	Avon-Crestwood Q-1 138kV O: Avon T: Crestwood
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Construction Noitce submitted 12/12/12 in Docket 12-330-1-EL-BNR. Construction anticipated in 2013.
6	Construction	Commence: 2013 Complete: 2013 Operation: 2013
7	Capital Investment	$76,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Prevent pre-emptive load shed or post contingency criteria violations.
12	Consequence of Line Construction Deferment Or Termination	Thermal criteria violations and pre-contingent load shed.
13	Miscellaneous	PJM RTEP #b1918

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Galion-Roberts North 138kV (raise rating)
2	Point of Origin and Termination	Galion-Roberts North 138kV O: Galion T: Roberts
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification or Construction Notice at future date.
6	Construction	Commence: 2013 Complete: 2013 Operation: 2013
7	Capital Investment	$4,181,000
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Eliminate outages due to line failures
12	Consequence of Line Construction Deferment Or Termination	Increased outage frequency
13	Miscellaneous	

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Toronto-Harmon 345kV
2	Point of Origin and Termination	Toronto-Harmon 345kV O: Toronto T: Harmon
3	Right of Way	Length in mile: 56 Average Width in Feet: 150 Number of transmission lines above 125 kV: 1
4	Voltage	345,000 Volts
5	Application for Certificate	OPSB Certificate Required
6	Construction	Commence: 2014 Complete: 2017 Operation: 2017
7	Capital Investment	$150,419,800
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel Poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Provides strong ATSI source into Akron, Warren, and Youngstown systems. ATSI does not have to rely on AEP to support the Massillon, Akron, Media areas
12	Consequence of Line Construction Deferment Or Termination	NERC, PJM, and FE Planning Criteria Violations + load shed.
13	Miscellaneous	PJM RTEP #b1977.1 [deferred pending 2018 PJM RTEP analysis]

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Avon-Lake Ave 345kV (#1, #2) Beaver-Lake Ave 345kV (#1, #2) Black River-Lake Ave 138kV (#1, #2) Johnson-Lake Ave 138kV (#1., #2)
2	Point of Origin and Termination	Avon-Lake Ave 345kV (#1, #2) O: Avon T: Lake Ave Beaver-Lake Ave 345kV (#1, #2) O: Beaver T: Lake Ave Black River-Lake Ave 138kV (#1, #2) O: Black River T: Lake Ave Johnson-Lake Ave 138kV (#1., #2) O: Johnson T: Lake Ave
3	Right of Way	Mininal
4	Voltage	345,000 and 138,000 Volts
5	Application for Certificate	Filing anticipated in 2013
6	Construction	Commence: 2014 Complete: 2016 Operation: 2016
7	Capital Investment	$32,351,953
8	Substations	No. of planned substations: Lake Ave Voltage: 345-138kV Location: Elyria, OH
9	Supporting Structures	Steel Towers/Steel Poles
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Improved service to general area. Provides increased short ciruit strength to Black River Susbtation and Republic Steel area. System configuration helps to minimize potential flicker issues. Minimal impact to area. Addresses remaining N-1-1 contingency issue not addressed by Black River Substation project.
12	Consequence of Line Construction Deferment Or Termination	Without the Lake Avenue substation, there is the potential for voltage flicker issues under normal and contingency conditions and thermal overloads for N-1-1 conditions. Violation of NERC, PJM and FE planning criteria.
13	Miscellaneous	Currently under consideration for 2016 depending on system development

4901:5-5-04(D)(2)

PUCO FORM FE3-T10: SUMMARY OF PROPOSED SUBSTATIONS

ATSI-Ohio Edison Company Area

Substation Name:	Type of Substation	Voltage (kV)	Timing	Line Association(s):	Line Existing or Proposed:
Berlin Lake Area Substation	Transmission	138 - 69 kV	ISD: 6/15	Niles-Bluebell 138 kV	Existing
				Loop to Berlin Lake Area Sub	Proposed
Hayes Substation	Transmission	345 - 138 kV	ISD: 6/14	Beaver - Hayes 345 kV	Proposed
				Davis Besse - Hayes 345 kV	Proposed
				Greenfield-Hayes #1 138 kV (formerly Avery-Greenfield 138 kV)	Proposed
				Greenfield-Hayes #2 138 kV (formerly Beaver-Greenfield 138 kV)	Proposed
				Avery-Hayes 138 kV (formerly Avery-Greenfield 138 kV)	Proposed
Broadview	Transmission	138 - 69 kV	ISD: 6/20	East Springfield - Tangy 138 kV	Existing
				Loop to Broadview Sub	Proposed
				Clark - Urbana 138 kV	Existing
				Loop to Broadview Sub	Proposed
West Medina	Transmission	138 - 69 kV	ISD: 12/14	Add 138-69kV Transformer	Proposed
Chamberlin	Transmission	345-138 kV	ISD: 6/16	Add 2nd Transformer	Proposed
Star	Transmission	345-138 kV	ISD: 6/13	Replace Transformer #3	Proposed
Knox	Transmission	138 - 69 kV	ISD: 6/13	East Akron-Sammis 138kV	Existing
				Loop to Knox	Proposed
	Transmission	138kV	ISD: 12/13	Replace overdutied 138kV line breaker	Proposed
Black River	Transmission	138 - 69 kV	ISD: 6/13	Black River-Republic No. 1 138kV (formerly part of Edgewater-Beaver 138kV)	Proposed
				Beaver-Black River 138kV (formerly part of Edgewater-Beaver 138kV)	Proposed
				Black River-Republic No. 2 138kV (formerly part of Johnson-USS 138kV)	Proposed
				Black River-Johnson 2 138kV (formerly part of Johnson-USS 138kV)	Proposed
				Black River-Johnson No. 1 138kV (formerly part of Johnson-Lorain 138kV)	Proposed
				Black River-Lorain 138kV (formerly part of Johnson-Lorain 138kV)	Proposed
Ironville	Transmission	138 - 69 kV	ISD: 5/15	Ironville-H037 Cogen	Proposed
Galion	Transmission	138 - 69 kV	ISD: 6/18	Replace Transformer #2	Proposed
		345 - 138 kV	ISD: 6/15	Replace Transformer #3	Proposed
				Replace Transformer #4	Proposed
Newton Falls	Transmission	138 - 69 kV	ISD: 6/16	Replace Transformer #3	Proposed

4901:5-5-04(D)(2)

PUCO FORM FE3-T10: SUMMARY OF PROPOSED SUBSTATIONS

ATSI-Ohio Edison Company Area (continued)

Substation Name:					
Avery	Transmission	138 - 69 kV	ISD: 6/15	Install 138-69kV transformer	Proposed
Niles	Transmission	345 - 138 kV	ISD: 6/15	Install 345-138kV transformer	Proposed
				Highland - Shenango 345 kV	Existing
				Loop to Niles	Proposed
Harmon	Transmission	345-138-69 kV	ISD: 6/15	Install two 345-138kV transformers	Proposed
				Install two 138-69kV transformers	Proposed
				Burger-Cloverdale #3 138kV (At time of installation, this will be Cloverdale- AEP Ghost Town 138kV)	Existing
				Loop to Harmon	Proposed
				Cloverdale-Knox 138kV	Existing
				Loop to Harmon	Proposed
				Star-AEP South Canton 345kV	Existing
				Loop to Harmon	Proposed
			ISD: 6/17	Toronto-Harmon 345kV	Proposed
Toronto	Transmission	345 - 138 kV	ISD: 6/15	Install two 345-138kV transformers	Proposed
				East Akron-Sammis 138kV	Existing
				Un-six-wire and reconnect one side Congress-Toronto 138kV	Proposed
				Boardman-Sammis 138kV	Existing
				Un-six-wire and reconnect one side Boardman-Toronto 138kV	Proposed
				Boardman-Nevada 138kV radial	Existing
				Becomes part of Boardman-Toronto 138kV after un-six-wire	Proposed
				Dobbins-Sammis 138kV	Existing
				Un-six-wire between Sammis and Toronto and connect to create Dobbins-Toronto 138kV and Sammis-Toronto 138kV	Proposed
				Sammis-Wylie Ridge 345kV	Existing
				Loop to Toronto	Proposed
			ISD: 6/17	Toronto-Harmon 345kV	Proposed
Groton	Transmission	138 - 69 kV	ISD: 6/18	Install 138-69kV transformer	Proposed
				Groton-Hayes 138kV	Proposed
				Groton-West Fremont 138kV	Proposed
Greenfield	Transmission	138kV	ISD: 12/13	Replace 138kV breaker 501-B68	Proposed
		138kV	ISD: 12/15	Replace 138kV breaker 501-B-227	Proposed
		138kV	ISD: 12/15	Replace 138kV breaker 501-B-242	Proposed
		138kV	ISD: 12/15	Replace 138kV breaker 501-B-40	Proposed
		138kV	ISD: 12/15	Replace 138kV breaker 501-B-38	Proposed
		138kV	ISD: 12/15	Replace 138kV breaker 501-B-21	Proposed
		138kV	ISD: 12/15	Replace 138kV breaker 501-B-1	Proposed
		138kV	ISD: 12/15	Replace 138kV breaker 501-B-23	Proposed
		138kV	ISD: 12/15	Replace 138kV breaker 501-B-36	Proposed
Highland	Transmission	345kV	ISD: 12/13	Replace four 345kV breakers	Proposed

4901:5-5-04(D)(2)

PUCO FORM FE3-T10: SUMMARY OF PROPOSED SUBSTATIONS

ATSI-Ohio Edison Company Area (continued)

Substation Name:					
Roberts	Transmission	138kV	ISD: 12/13	Replace 138kV breakers 601-B26, B113, B13	Proposed
East Akron	Transmission	138kV	ISD: 12/13	Replace 138kV breakers 36-B56, B40, B45	Proposed
Brady Lake	Transmission	138kV	ISD: 12/13	Replace 138kV breaker 1003-B6	Proposed
Sammis	Transmission	138kV	ISD: 12/13	Replace Line and Bus Tie/Transfer Circuit Breakers	Proposed
Pine	Transmission	138kV	ISD: 11/13	Convert to a four - breaker ring bus	Proposed
Bluebell	Transmission	138kV	ISD: 12/13	Replace Transformer and Line Circuit Breakers	Proposed
Lake Ave	Transmission	345-138kV	ISD: 6/16	Install two 345-138kV transformers	Proposed
				Black River-Johnson 138kV #1	Existing
				Loop to Lake Ave	Proposed
				Black River-Johnson 138kV #2	Existing
				Loop to Lake Ave	Proposed
				Avon-Beaver 345kV #1	Existing
				Loop to Lake Ave	Proposed
				Avon-Beaver 345kV #2	Existing
				Loop to Lake Ave	Proposed

4901:5-5-04(D)(2)

PUCO FORM FE3-T10: SUMMARY OF PROPOSED SUBSTATIONS

ATSI-Cleveland Electric Illuminating Company Area

Substation Name:	Type of Substation	Voltage (kV)	Timing	Line Association(s):	Line Existing or Proposed:
Stacy Substation	Distribution	138 - 36kV	ISD: 6/13	Q-3-AT-MF-X Loop to Stacy Sub	Proposed
Clinic Hospital Substation	Distribution	138 - 36 kV	ISD: 5/16	Juniper-Lloyd (Inland-Jordan Q-11) 138 kV	Existing
				Loop to Clinic Hospital Substation	Proposed
				Juniper-Lloyd (Inland-Jordan Q-14) 138 kV	Existing
				Loop to Clinic Hospital Substation	Proposed
Inland Substation	Transmission	345 - 138 kV	ISD: 6/13	Install second 345-138kV transformer	Proposed
		138kV	ISD: 6/13	New breaker - Q-11 exit toward Ivy	Proposed
Glenwillow Switching Station	Transmission	345kV	ISD: 6/15	Inland-Perry (S-5-PY-IN) 345kV	Existing
				Loop to Glenwillow	Proposed
				Eastlake-Juniper (S-7-EL-JR) 345kV	Existing
				Loop to Glenwillow	Proposed
				Glenwillow-Mansfield 345kV	Proposed
Leroy Center Substation	Transmission	345 - 138 kV	ISD: 6/16	Install two 345-138kV transformers	Proposed
				Ashtabula-Mayfield (Q-1-AT-MF) 138kV	Existing
				Loop to Leroy Center	Proposed
				Ashtabula-Mayfield (Q-2-AT-MF) 138kV	Existing
				Loop to Leroy Center	Proposed
				Ashtabula-Mayfield (Q-3-AT-MF) 138kV	Existing
				Loop to Leroy Center	Proposed
				Ashtabula-Mayfield (Q-4-AT-MF) 138kV	Existing
				Loop to Leroy Center	Proposed
				Eastlake-Nursery (Q-15-EL-NY) 138kV	Existing
				Network to Leroy Center	Proposed
				Eastlake-Nursery (Q-16-EL-NY) 138kV	Existing
				Network to Leroy Center	Proposed
				Perry-Harding (S-6-PY-HD) 345kV	Existing
				Loop to Leroy Center	Proposed
Pleasant Valley	Transmission	138kV	ISD: 12/14	Replace breaker Q-2-FW-PV (B-3)	Proposed
Avon Lake	Transmission	138kV	ISD: 12/13	Replace breaker Q-1-2-AV-TIE (10-B-9)	Proposed

4901:5-5-04(D)(2)

PUCO FORM FE3-T10: SUMMARY OF PROPOSED SUBSTATIONS

ATSI-Toledo Edison Company Area

Substation Name:	Type of Substation	Voltage (kV)	Timing	Line Association(s):	Line Existing or Proposed:
Fulton Sub	Transmission	345 - 138 kV	ISD: 12/13	Allen Junction-Midway 345 kV	Existing
				Loop to Fulton Sub	Proposed
				Delta-Swanton 138 kV	Existing
				Loop to Fulton Sub	Proposed
Bayshore Sub	Transmission	345 - 138 kV	ISD: 6/14	Install second 345-138kV transformer	Proposed
Allen Junction	Transmission	345 - 138 kV	ISD: 6/14	Install second 345-138kV transformer	Proposed
		345kV	ISD: 6/14	Replace three 345kV circuit breakers	Proposed
Dowling	Transmission	345 - 138 kV	ISD: 6/15	Install 345-138kV transformer	Proposed
				Lemoyne-Midway 345kV	Existing
				Loop to Dowling	Proposed
				Lemoyne-Midway 138kV	Existing
				Loop to Dowling	Proposed
				Chrysler-Levis Park 138kV	Existing
				Loop to Dowling	Proposed
Ironville	Transmission	138kV	ISD: 6/16	Replace over-duted circuit breaker B13208	Proposed
Davis Besse	Transmission	345kV	ISD: 5/13	Substation breaker additions	Proposed
North Star Steel York	Transmission	138kV	ISD: 12/13	Install 138kV breaker	Proposed

SECTION II
DISTRIBUTION FORECAST FORMS

4901:5-5-05 (B)(1)(a)
PUCO FORM FE - D1: Electric Utility Service Area Energy Consumption Forecast
(Megawatt Hours/Year) [d]

Ohio Edison Company

		(1)	(2)	(3)	(4)	(5a)	(5b)	(6) (1 +2+3+4+5a+5b)	(7)	(8) (6 + 7)
	Year	Residential	Commercial	Industrial	Transportation[a]	Other[b]	Energy Efficiency & Demand Response[e]	Total End User Consumption	Losses And Unaccounted For Company	Net Energy For Load [c]
-5	2008	9,250,000	7,157,000	8,726,000	-	146,000	-	25,279,000	1,531,000	26,810,000
-4	2009	8,974,000	6,835,000	6,900,000	-	148,000	-	22,857,000	1,571,000	24,428,000
-3	2010	9,493,000	7,006,000	7,510,000	-	146,000	-	24,155,000	1,756,000	25,911,000
-2	2011	9,512,000	6,726,000	8,272,000	-	146,000	-	24,656,000	1,255,000	25,911,000
-1	2012	9,400,000	6,691,000	8,208,000	-	142,000	-	24,441,000	1,470,000	25,911,000
0	2013	9,164,000	6,663,000	8,643,000	-	144,000	(419,000)	24,195,000	1,874,000	26,069,000
1	2014	9,395,000	6,812,000	9,005,000	-	144,000	(696,000)	24,660,000	1,784,000	26,444,000
2	2015	9,531,000	6,893,000	9,232,000	-	143,000	(906,000)	24,893,000	1,791,000	26,684,000
3	2016	9,644,000	6,967,000	9,266,000	-	140,000	(1,169,000)	24,848,000	1,793,000	26,641,000
4	2017	9,750,000	7,020,000	9,212,000	-	137,000	(1,431,000)	24,688,000	1,785,000	26,473,000
5	2018	9,846,000	7,064,000	9,138,000	-	136,000	(1,678,000)	24,506,000	1,775,000	26,281,000
6	2019	9,952,000	7,108,000	9,103,000	-	134,000	(2,161,000)	24,136,000	1,751,000	25,887,000
7	2020	10,018,000	7,132,000	9,065,000	-	133,000	(2,623,000)	23,725,000	1,723,000	25,448,000
8	2021	10,126,000	7,167,000	9,021,000	-	133,000	(3,065,000)	23,382,000	1,696,000	25,078,000
9	2022	10,221,000	7,185,000	8,967,000	-	133,000	(3,490,000)	23,016,000	1,675,000	24,691,000
10	2023	10,334,000	7,205,000	8,895,000	-	132,000	(3,897,000)	22,669,000	1,653,000	24,322,000

[a] Transportation includes railroads & railways.

[b] Other includes street & highway lighting, public authorities and interdepartmental sales.

[c] Years 0 through 10 is calculated by applying a loss factor to each rate class then summing the results.

[d] A reclassification of customers occurred in 2011. Customers are classfied based upon based on customers' rate schedule.

[e] Excludes the impact of self-directed mercantile EE programs. Incremental to 2012 benchmark.

4901:5-5-05 (B)(1)(a)
PUCO FORM FE - D1: Electric Utility Service Area Energy Consumption Forecast
(Megawatt Hours/Year) [d]

The Cleveland Electric Illuminating Company

		(1)	(2)	(3)	(4)	(5a)	(5b)	(6) (1 +2+3+4+5a+5b)	(7)	(8) (6 + 7)
	Year	Residential	Commercial	Industrial	Transportation[a]	Other[b]	Energy Efficiency & Demand Response[e]	Total End-User Consumption	Losses And Unaccounted For Company	Net Energy For Load
-5	2008	5,606,000	4,840,000	8,689,000	-	167,000	-	19,302,000	1,359,000	20,661,000
-4	2009	5,429,000	4,646,000	7,409,000	-	155,000	-	17,639,000	1,163,000	18,802,000
-3	2010	5,726,000	4,779,000	8,216,000	-	149,000	-	18,870,000	1,231,000	20,101,000
-2	2011	5,710,000	6,774,000	6,284,000	-	148,000	-	18,916,000	1,185,000	20,101,000
-1	2012	5,678,000	6,665,000	6,324,000	-	138,000	-	18,805,000	1,296,000	20,101,000
0	2013	5,562,000	6,852,000	6,663,000	-	144,000	(326,000)	18,895,000	1,224,000	20,119,000
1	2014	5,823,000	6,968,000	6,753,000	-	144,000	(496,000)	19,192,000	1,355,000	20,547,000
2	2015	5,915,000	6,992,000	6,757,000	-	144,000	(615,000)	19,193,000	1,357,000	20,550,000
3	2016	6,012,000	7,014,000	6,674,000	-	141,000	(731,000)	19,110,000	1,356,000	20,466,000
4	2017	6,104,000	7,021,000	6,579,000	-	132,000	(922,000)	18,914,000	1,358,000	20,272,000
5	2018	6,190,000	7,032,000	6,527,000	-	132,000	(1,105,000)	18,776,000	1,345,000	20,121,000
6	2019	6,282,000	7,044,000	6,508,000	-	132,000	(1,466,000)	18,500,000	1,324,000	19,824,000
7	2020	6,338,000	7,036,000	6,508,000	-	132,000	(1,816,000)	18,198,000	1,298,000	19,496,000
8	2021	6,431,000	7,038,000	6,515,000	-	132,000	(2,150,000)	17,966,000	1,283,000	19,249,000
9	2022	6,513,000	7,027,000	6,525,000	-	132,000	(2,469,000)	17,728,000	1,264,000	18,992,000
10	2023	6,612,000	7,034,000	6,537,000	-	132,000	(2,783,000)	17,532,000	1,245,000	18,777,000

[a] Transportation includes railroads & railways.

[b] Other includes street & highway lighting, public authorities and interdepartmental sales.

[c] Years 0 through 10 is calculated by applying a loss factor to each rate class then summing the results.

[d] A reclassification of customers occurred in 2011. Customers are classfied based upon based on customers' rate schedule.

[e] Excludes the impact of self-directed mercantile EE programs. Incremental to 2012 benchmark.

4901:5-5-05 (B)(1)(a)
PUCO FORM FE - D1: Electric Utility Service Area Energy Consumption Forecast
(Megawatt Hours/Year) [d]

The Toledo Edison Company

		(1)	(2)	(3)	(4)	(5a)	(5b)	(6) (1 +2+3+4+5a+5b)	(7)	(8) (6 + 7)
	Year	Residential	Commercial	Industrial	Transportation[a]	Other[b]	Energy Efficiency & Demand Response[e]	Total End-User Consumption	Losses And Unaccounted For Company	Net Energy For Load
-5	2008	2,523,000	2,850,000	4,851,000	-	57,000	-	10,281,000	607,000	10,888,000
-4	2009	2,405,000	2,584,000	4,466,000	-	48,000	-	9,503,000	551,000	10,054,000
-3	2010	2,588,000	2,680,000	5,014,000	-	51,000	-	10,333,000	624,000	10,957,000
-2	2011	2,596,000	2,039,000	5,750,000	-	51,000	-	10,436,000	521,000	10,957,000
-1	2012	2,569,000	2,018,000	5,743,000	-	51,000	-	10,381,000	576,000	10,957,000
0	2013	2,503,000	2,065,000	6,018,000	-	48,000	(149,000)	10,485,000	590,000	11,075,000
1	2014	2,590,000	2,132,000	6,297,000	-	48,000	(280,000)	10,787,000	604,000	11,391,000
2	2015	2,616,000	2,151,000	6,415,000	-	48,000	(380,000)	10,850,000	603,000	11,453,000
3	2016	2,653,000	2,168,000	6,456,000	-	48,000	(465,000)	10,860,000	606,000	11,466,000
4	2017	2,690,000	2,183,000	6,560,000	-	48,000	(581,000)	10,900,000	601,000	11,501,000
5	2018	2,720,000	2,192,000	6,664,000	-	48,000	(691,000)	10,933,000	599,000	11,532,000
6	2019	2,756,000	2,201,000	6,756,000	-	48,000	(910,000)	10,851,000	593,000	11,444,000
7	2020	2,777,000	2,202,000	6,850,000	-	48,000	(1,126,000)	10,751,000	577,000	11,328,000
8	2021	2,810,000	2,204,000	6,941,000	-	48,000	(1,334,000)	10,669,000	570,000	11,239,000
9	2022	2,839,000	2,201,000	7,031,000	-	48,000	(1,535,000)	10,584,000	563,000	11,147,000
10	2023	2,872,000	2,203,000	7,125,000	-	48,000	(1,731,000)	10,517,000	552,000	11,069,000

[a] Transportation includes railroads & railways.

[b] Other includes street & highway lighting, public authorities and interdepartmental sales.

[c] Years 0 through 10 are calculated by applying a loss factor to each rate class then summing the results.

[d] A reclassification of customers occurred in 2011. Customers are classfied based upon based on customers' rate schedule.

[e] Excludes the impact of self-directed mercantile EE programs. Incremental to 2012 benchmark.

4901:5-5-05 (B)(1)(b)
PUCO FORM FE - D1: System Service Area Energy Consumption Forecast
(Megawatt Hours/Year) [d]

Total Ohio

		(1)	(2)	(3)	(4)	(5a)	(5b)	(6) (1 +2+3+4+5a+5b)	(7)	(8) (6 + 7)
	Year	Residential	Commercial	Industrial	Transportation[a]	Other[b]	Energy Efficiency & Demand Response[e]	Total End User Consumption	Losses And Unaccounted For Company	Net Energy For Load
-5	2008	17,379,000	14,847,000	22,266,000	-	370,000	-	54,862,000	3,497,000	58,359,000
-4	2009	16,808,000	14,065,000	18,775,000	-	351,000	-	49,999,000	3,285,000	53,284,000
-3	2010	17,807,000	14,465,000	20,740,000	-	346,000	-	53,358,000	3,611,000	56,969,000
-2	2011	17,818,000	15,539,000	20,306,000	-	345,000	-	54,008,000	2,961,000	56,969,000
-1	2012	17,647,000	15,374,000	20,275,000		331,000	-	53,627,000	3,342,000	56,969,000
0	2013	17,229,000	15,580,000	21,324,000	-	336,000	(894,000)	53,575,000	3,688,000	57,263,000
1	2014	17,808,000	15,912,000	22,055,000	-	336,000	(1,472,000)	54,639,000	3,743,000	58,382,000
2	2015	18,062,000	16,036,000	22,404,000	-	335,000	(1,901,000)	54,936,000	3,751,000	58,687,000
3	2016	18,309,000	16,149,000	22,396,000	-	329,000	(2,365,000)	54,818,000	3,755,000	58,573,000
4	2017	18,544,000	16,224,000	22,351,000	-	317,000	(2,934,000)	54,502,000	3,744,000	58,246,000
5	2018	18,756,000	16,288,000	22,329,000	-	316,000	(3,474,000)	54,215,000	3,719,000	57,934,000
6	2019	18,990,000	16,353,000	22,367,000	-	314,000	(4,537,000)	53,487,000	3,668,000	57,155,000
7	2020	19,133,000	16,370,000	22,423,000	-	313,000	(5,565,000)	52,674,000	3,598,000	56,272,000
8	2021	19,367,000	16,409,000	22,477,000	-	313,000	(6,549,000)	52,017,000	3,549,000	55,566,000
9	2022	19,573,000	16,413,000	22,523,000	-	313,000	(7,494,000)	51,328,000	3,502,000	54,830,000
10	2023	19,818,000	16,442,000	22,557,000	-	312,000	(8,411,000)	50,718,000	3,450,000	54,168,000

[a] Transportation includes railroads & railways.

[b] Other includes street & highway lighting, public authorities and interdepartmental sales.

[c] Years 0 through 10 are calculated by applying a loss factor to each rate class then summing the results.

[d] A reclassification of customers occurred in 2011. Customers are classfied based upon based on customers' rate schedule.

[e] Excludes the impact of self-directed mercantile EE programs.

4901:5-5-05 (B)(1)(b)
PUCO FORM FE - D2: System Service Area Energy Consumption Forecast
(Megawatt Hours/Year) [c d]

FirstEnergy System

		(1)	(2)	(3)	(4)	(5)	(6) (1 +2+3+4+5)	(7)	(8) (6 + 7)
	Year	Residential	Commercial	Industrial	Transportation[a]	Other[b]	Total End User Consumption	Losses And Unaccounted For Company	Net Energy For Load
-5	2008	19,046,000	16,251,000	23,880,000	-	376,000	59,553,000	4,114,000	63,667,000
-4	2009	18,442,000	15,432,000	20,004,000	-	357,000	54,235,000	3,539,000	57,774,000
-3	2010	19,503,000	15,876,000	22,128,000	-	352,000	57,859,000	4,193,000	62,052,000
-2	2011	19,529,000	16,866,000	21,848,000	-	351,000	58,594,000	3,458,000	62,052,000
-1	2012	19,315,000	16,708,000	21,731,000		337,000	58,091,000	3,961,000	62,052,000
0	2013	18,875,000	16,916,000	22,797,000	-	348,000	58,936,000	3,065,000	62,001,000
1	2014	19,437,000	17,259,000	23,573,000	-	348,000	60,617,000	2,582,000	63,199,000
2	2015	19,680,000	17,392,000	23,923,000	-	347,000	61,342,000	2,165,000	63,507,000
3	2016	19,936,000	17,513,000	23,886,000	-	341,000	61,676,000	1,700,000	63,376,000
4	2017	20,194,000	17,600,000	23,838,000	-	329,000	61,961,000	1,122,000	63,083,000
5	2018	20,429,000	17,675,000	23,817,000	-	328,000	62,249,000	566,000	62,815,000
6	2019	20,687,000	17,752,000	23,857,000	-	326,000	62,622,000	(547,000)	62,075,000
7	2020	20,847,000	17,779,000	23,917,000	-	325,000	62,868,000	(1,643,000)	61,225,000
8	2021	21,100,000	17,825,000	23,975,000	-	325,000	63,225,000	(2,676,000)	60,549,000
9	2022	21,332,000	17,836,000	24,023,000	-	325,000	63,516,000	(3,664,000)	59,852,000
10	2023	21,606,000	17,874,000	24,057,000	-	324,000	63,861,000	(4,630,000)	59,231,000

[a] Transportation includes railroads & railways.

[b] Other includes street & highway lighting, public authorities and interdepartmental sales.

[c] These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

[d] A reclassification of customers occurred in 2011. Customers are classfied based upon the voltage level in which they take their power supply.

4901:5-5-05(B)(2)(a)

PUCO Form FE-D3: Electric Utility Ohio Seasonal Peak Load Demand Forecast (Megawatts)

The Ohio Edison Company

		Native Load				Internal Load [b]			
	Year	Summer	Demand Response[c]	Net Summer	Winter[a]	Summer	Demand Response	Net Summer	Winter
-5	2008	4,797	-	4,797	3,854	4,997	-	4,997	4,054
-4	2009	4,616	-	4,616	3,953	4,682	-	4,682	4,089
-3	2010	5,069	-	5,069	4,116	5,135	-	5,135	4,182
-2	2011	5,619	-	5,619	4,074	5,679	-	5,679	4,134
-1	2012	5,503	-	5,503	4,071	5,546	-	5,546	4,114
0	2013	5,147	(20)	5,127	3,932	5,200	(20)	5,180	3,985
1	2014	5,223	(87)	5,136	3,868	5,276	(87)	5,189	3,921
2	2015	5,357	(161)	5,196	3,874	5,357	(161)	5,196	3,874
3	2016	5,417	(202)	5,215	3,852	5,417	(202)	5,215	3,852
4	2017	5,446	(231)	5,215	3,809	5,446	(231)	5,215	3,809
5	2018	5,441	(259)	5,182	3,766	5,441	(259)	5,182	3,766
6	2019	5,446	(267)	5,179	3,748	5,446	(267)	5,179	3,748
7	2020	5,446	(267)	5,179	3,731	5,446	(267)	5,179	3,731
8	2021	5,443	(267)	5,176	3,712	5,443	(267)	5,176	3,712
9	2022	5,435	(267)	5,168	3,694	5,435	(267)	5,168	3,694
10	2023	5,422	(267)	5,155	3,674	5,422	(267)	5,155	3,674

[a] Winter load reference is the peak loads which follows the summer peak load.

[b] Internal Load equals Native plus Interruptible.

[c] Excludes impact of self-directed mercantile DR programs. Incremental to 2012 benchmark.

4901:5-5-05(B)(2)(a)

PUCO Form FE-D3: Electric Utility Ohio Seasonal Peak Load Demand Forecast (Megawatts)

The Cleveland Illuminating Company

		Native Load				Internal Load [b]			
	Year	Summer	Demand Response[c]	Net Summer	Winter[a]	Summer	Demand Response	Net Summer	Winter
-5	2008	3,876	-	3,876	2,960	3,986	-	3,986	3,070
-4	2009	3,742	-	3,742	3,042	3,790	-	3,790	3,236
-3	2010	4,035	-	4,035	3,014	4,083	-	4,083	3,062
-2	2011	4,260	-	4,260	2,895	4,307	-	4,307	2,942
-1	2012	4,015	-	4,015	2,927	4,047	-	4,047	2,959
0	2013	3,937	(8)	3,929	3,027	3,951	(8)	3,943	3,041
1	2014	3,979	(32)	3,948	3,024	3,993	(32)	3,962	3,038
2	2015	4,039	(55)	3,983	3,029	4,039	(55)	3,983	3,029
3	2016	4,072	(163)	3,909	2,892	4,072	(163)	3,909	2,892
4	2017	4,088	(156)	3,933	2,980	4,088	(156)	3,933	2,980
5	2018	4,085	(201)	3,884	2,869	4,085	(201)	3,884	2,869
6	2019	4,088	(239)	3,849	2,870	4,088	(239)	3,849	2,870
7	2020	4,088	(239)	3,849	2,871	4,088	(239)	3,849	2,871
8	2021	4,087	(239)	3,848	2,870	4,087	(239)	3,848	2,870
9	2022	4,082	(239)	3,844	2,869	4,082	(239)	3,844	2,869
10	2023	4,075	(239)	3,836	2,866	4,075	(239)	3,836	2,866

[a] Winter load reference is the peak loads which follows the summer peak load.

[b] Internal Load equals Native plus Interruptible.

[c] Excludes impact of self-directed mercantile DR programs. Incremental to 2012 benchmark.

4901:5-5-05(B)(2)(a)

PrCO Form FE-D3: Electric Utility Ohio Seasonal Peak Load Demand Forecast (Megawatts)

The Toledo Edison Company

		Native Load				Internal Load [b]			
	Year	Summer	Demand Response[c]	Net Summer	Winter[a]	Summer	Demand Response	Net Summer	Winter
-5	2008	1,731	-	1,731	1,796	1,899	-	1,899	1,964
-4	2009	1,697	-	1,697	1,452	1,841	-	1,841	1,600
-3	2010	1,836	-	1,836	1,465	1,980	-	1,980	1,609
-2	2011	2,017	-	2,017	1,520	2,138	-	2,138	1,641
-1	2012	2,214	-	2,214	1,448	2,342	-	2,342	1,576
0	2013	1,872	(8)	1,863	1,449	2,006	(8)	1,997	1,583
1	2014	1,897	(48)	1,848	1,532	2,031	(48)	1,982	1,666
2	2015	2,062	(98)	1,964	1,649	2,062	(98)	1,964	1,649
3	2016	2,087	(82)	2,005	1,672	2,087	(82)	2,005	1,672
4	2017	2,107	(99)	2,007	1,699	2,107	(99)	2,007	1,699
5	2018	2,116	(107)	2,009	1,682	2,116	(107)	2,009	1,682
6	2019	2,128	(90)	2,038	1,717	2,128	(90)	2,038	1,717
7	2020	2,138	(90)	2,048	1,727	2,138	(90)	2,048	1,727
8	2021	2,148	(90)	2,058	1,738	2,148	(90)	2,058	1,738
9	2022	2,156	(90)	2,066	1,746	2,156	(90)	2,066	1,746
10	2023	2,163	(90)	2,073	1,754	2,163	(90)	2,073	1,754

[a] Winter load reference is the peak loads which follows the summer peak load.

[b] Internal Load equals Native plus Interruptible.

[c] Excludes impact of self-directed mercantile DR programs. Incremental to 2012 benchmark.

4901:5-5-05(B)(2)(a)

PUCO Form FE-D3: Electric Utility Ohio Seasonal Peak Load Demand Forecast (Megawatts)

Total Ohio

OH Peak Hist - D & T

		Native Load				Internal Load [b]			
	Year	Summer	Demand Response[c]	Net Summer	Winter[a]	Summer	Demand Response	Summer	Winter
-5	2008	10,392	-	10,392	8,265	10,870	-	10,870	8,743
-4	2009	10,036	-	10,036	8,594	10,294	-	10,294	8,852
-3	2010	10,907	-	10,907	8,581	11,165	-	11,165	8,839
-2	2011	11,754	-	11,754	8,314	11,982	-	11,982	8,542
-1	2012	11,522	-	11,522	8,394	11,725	-	11,725	8,597
0	2013	10,793	(36)	10,757	8,332	10,992	(34)	10,958	8,533
1	2014	10,934	(167)	10,767	8,219	11,137	(169)	10,968	8,420
2	2015	11,292	(314)	10,978	8,320	11,292	(314)	10,978	8,320
3	2016	11,419	(447)	10,972	8,234	11,408	(436)	10,972	8,234
4	2017	11,471	(486)	10,986	8,203	11,471	(485)	10,986	8,203
5	2018	11,483	(567)	10,916	8,092	11,472	(555)	10,916	8,092
6	2019	11,500	(596)	10,904	8,074	11,492	(588)	10,904	8,074
7	2020	11,510	(596)	10,914	8,058	11,502	(588)	10,914	8,058
8	2021	11,516	(596)	10,920	8,038	11,507	(588)	10,920	8,038
9	2022	11,512	(596)	10,915	8,017	11,503	(588)	10,915	8,017
10	2023	11,498	(596)	10,902	7,994	11,490	(588)	10,902	7,994

[a] Winter load reference is the peak loads which follows the summer peak load.

[b] Internal Load equals Native plus Interruptible.

c Excludes impact of self-directed mercantile DR programs. Incremental to 2012 benchmark.

4901:5-5-05(B)(2)(b)
PUCO Form FE-D4: Electric Utility Ohio Seasonal Peak Load Demand Forecast
(Megawatts)

FirstEnergy System

		Native Load		Internal Load	
	Year	Summer	Winter	Summer	Winter
-5	2008	11,404	9,080	11,882	9,558
-4	2009	10,937	9,472	11,195	9,730
-3	2010	11,905	9,486	12,163	9,744
-2	2011	12,771	8,956	12,999	9,184
-1	2012	12,384	9,167	12,587	9,370
0	2013	11,626	9,101	11,827	9,302
1	2014	11,641	8,988	11,842	9,189
2	2015	11,874	9,090	11,874	9,090
3	2016	11,883	9,000	11,883	9,000
4	2017	11,906	8,966	11,906	8,966
5	2018	11,838	8,844	11,838	8,844
6	2019	11,828	8,818	11,828	8,818
7	2020	11,840	8,793	11,840	8,793
8	2021	11,847	8,765	11,847	8,765
9	2022	11,843	8,736	11,843	8,736
10	2023	11,829	8,704	11,829	8,704

[a] Winter load reference is to peak loads which follow the summer peak load.

4901:5-5-05(B)(3)(a)
PUCO Form FE-D5: Monthly Net Energy For Load Forecast
(Megawatt-Hours Per Year) [a]

Ohio Edison Company

	Monthly Net Energy For Load Forecast	
Year 0-2013	Ohio Service Area	System[b]
January*	2,389,000	5,489,000
February*	2,159,000	5,046,000
March*	2,169,000	5,208,000
April	1,937,000	4,666,000
May	1,996,000	4,823,000
June	2,180,000	5,201,000
July	2,382,000	5,671,000
August	2,443,000	5,852,000
September	2,013,000	4,830,000
October	1,999,000	4,818,000
November	2,038,000	4,878,000
December	2,364,000	5,519,000
Year 1-2014		
January	2,492,000	5,845,000
February	2,177,000	5,175,000
March	2,193,000	5,297,000
April	1,964,000	4,756,000
May	2,025,000	4,914,000
June	2,204,000	5,281,000
July	2,413,000	5,762,000
August	2,474,000	5,938,000
September	2,044,000	4,905,000
October	2,021,000	4,862,000
November	2,051,000	4,903,000
December	2,386,000	5,561,000

[a] Actual data shall be indicated with an asterisk (*).
[b] These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

4901:5-5-05(B)(3)(a)
PUCO Form FE-D5: Monthly Net Energy For Load Forecast
(Megawatt-Hours Per Year) [a]

The Cleveland Illuminating Company

	Monthly Net Energy For Load Forecast	
Year 0-2013	Ohio Service Area	System[b]
January*	1,701,000	5,489,000
February*	1,603,000	5,046,000
March*	1,700,000	5,208,000
April	1,533,000	4,666,000
May	1,585,000	4,823,000
June	1,701,000	5,201,000
July	1,853,000	5,671,000
August	1,924,000	5,852,000
September	1,588,000	4,830,000
October	1,576,000	4,818,000
November	1,590,000	4,878,000
December	1,765,000	5,519,000
Year 1-2014		
January	1,876,000	5,845,000
February	1,674,000	5,175,000
March	1,729,000	5,297,000
April	1,560,000	4,756,000
May	1,612,000	4,914,000
June	1,724,000	5,281,000
July	1,879,000	5,762,000
August	1,947,000	5,938,000
September	1,607,000	4,905,000
October	1,581,000	4,862,000
November	1,589,000	4,903,000
December	1,769,000	5,561,000

[a] Actual data shall be indicated with an asterisk (*).

[b] These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

4901:5-5-05(B)(3)(a)
PUCO Form FE-D5: Monthly Net Energy For Load Forecast
(Megawatt-Hours Per Year) [a]

The Toledo Edison Company

	Monthly Net Energy For Load Forecast	
Year 0-2013	Ohio Service Area	System[b]
January*	951,000	5,489,000
February*	884,000	5,046,000
March*	928,000	5,208,000
April	836,000	4,666,000
May	874,000	4,823,000
June	935,000	5,201,000
July	1,020,000	5,671,000
August	1,060,000	5,852,000
September	878,000	4,830,000
October	873,000	4,818,000
November	868,000	4,878,000
December	968,000	5,519,000
Year 1-2014		
January	1,023,000	5,845,000
February	914,000	5,175,000
March	956,000	5,297,000
April	863,000	4,756,000
May	901,000	4,914,000
June	960,000	5,281,000
July	1,046,000	5,762,000
August	1,084,000	5,938,000
September	899,000	4,905,000
October	888,000	4,862,000
November	878,000	4,903,000
December	979,000	5,561,000

[a] Actual data shall be indicated with an asterisk (*).

[b] These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

4901:5-5-05(B)(3)(a)
PUCO Form FE-D5: Monthly Net Energy For Load Forecast
(Megawatt-Hours Per Year) [a]

Total Ohio

	Monthly Net Energy For Load Forecast	
Year 0-2013	Ohio Service Area	System[b]
January*	5,041,000	5,489,000
February*	4,646,000	5,046,000
March	4,797,000	5,208,000
April	4,306,000	4,666,000
May	4,455,000	4,823,000
June	4,816,000	5,201,000
July	5,255,000	5,671,000
August	5,427,000	5,852,000
September	4,479,000	4,830,000
October	4,448,000	4,818,000
November	4,496,000	4,878,000
December	5,097,000	5,519,000
Year 1-2014		
January	5,391,000	5,845,000
February	4,765,000	5,175,000
March	4,878,000	5,297,000
April	4,387,000	4,756,000
May	4,538,000	4,914,000
June	4,888,000	5,281,000
July	5,338,000	5,762,000
August	5,505,000	5,938,000
September	4,550,000	4,905,000
October	4,490,000	4,862,000
November	4,518,000	4,903,000
December	5,134,000	5,561,000

[a] Actual data shall be indicated with an asterisk (*).
[b] These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

4901:5-5-05(B)(3)(b)
PUCO Form FE-D6: Monthly Peak Load Forecast
(Megawatts)

Ohio Edison Company

	Monthly Native Load Forecast				Monthly Internal Load Forecast	
Year 0-2013	Ohio Service Area	Demand Response[d]	Net	System[b]	Ohio Service Area	System[b]
January*	4,071		4,071	9,065	4,114	9,323
February*	3,846		3,846	8,771	3,889	9,029
March	3,619		3,619	8,440	3,662	8,698
April	3,928		3,928	8,655	3,971	8,913
May	4,144		4,144	9,363	4,187	9,621
June	5,014		5,014	11,396	5,067	11,624
July	5,080		5,080	11,591	5,133	11,819
August	5,127		5,127	11,599	5,180	11,827
September	4,404		4,404	10,171	4,457	10,399
October	3,658		3,658	8,585	3,711	8,813
November	3,523		3,523	8,233	3,576	8,461
December	3,892		3,892	9,074	3,945	9,302
Year 1-2014						
January	3,932		3,932	9,043	3,985	9,271
February	3,775		3,775	8,790	3,828	9,018
March	3,544		3,544	8,362	3,597	8,590
April	3,860		3,860	8,589	3,913	8,817
May	4,092		4,092	9,323	4,145	9,551
June	5,000		5,000	11,355	5,043	11,583
July	5,084		5,084	11,580	5,127	11,808
August	5,146		5,146	11,614	5,189	11,842
September	4,431		4,431	10,202	4,474	10,430
October	3,690		3,690	8,623	3,733	8,851
November	3,469		3,469	8,125	3,512	8,353
December	3,835		3,835	8,961	3,878	9,189

[a] Actual data shall be indicated with an asterisk (*).

[b] These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

[c] Internal Load equals Native plus Interruptible.

[d] Excludes impact of self-directed mercantile DR programs. Incremental to 2012 benchmark.

4901:5-5-05(B)(3)(b)
PUCO Form FE-D6: Monthly Peak Load Forecast
(Megawatts) [a]

The Cleveland Illuminating Company

	Monthly Native Load Forecast				Monthly Internal Load Forecast	
	Ohio Service Area	Demand Response[d]	Net	System[b]	Ohio Service Area	System[b]
Year 0-2013						
January*	2,887		2,887	9,065	2,919	9,323
February*	2,927		2,927	8,771	2,959	9,029
March	2,842		2,842	8,440	2,874	8,698
April	2,822		2,822	8,655	2,854	8,913
May	3,185		3,185	9,363	3,217	9,621
June	3,830		3,830	11,396	3,844	11,624
July	3,910		3,910	11,591	3,924	11,819
August	3,929		3,929	11,599	3,943	11,827
September	3,440		3,440	10,171	3,454	10,399
October	2,941		2,941	8,585	2,955	8,813
November	2,794		2,794	8,233	2,808	8,461
December	3,027		3,027	9,074	3,041	9,302
Year 1-2014						
January	2,905		2,905	9,043	2,919	9,271
February	2,945		2,945	8,790	2,959	9,018
March	2,860		2,860	8,362	2,874	8,590
April	2,840		2,840	8,589	2,854	8,817
May	3,203		3,203	9,323	3,217	9,551
June	3,812		3,812	11,355	3,844	11,583
July	3,892		3,892	11,580	3,924	11,808
August	3,911		3,911	11,614	3,943	11,842
September	3,422		3,422	10,202	3,454	10,430
October	2,923		2,923	8,623	2,955	8,851
November	2,776		2,776	8,125	2,808	8,353
December	3,009		3,009	8,961	3,041	9,189

[a] Actual data shall be indicated with an asterisk (*).

[b] These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

[c] Internal Load equals Native plus Interruptible.

[d] Excludes impact of self-directed mercantile DR programs. Incremental to 2012 benchmark.

4901:5-5-05(B)(3)(b)
PUCO Form FE-D6: Monthly Peak Load Forecast
(Megawatts)

The Toledo Edison Company

	Monthly Native Load Forecast				Monthly Internal Load Forecast	
	Ohio Service Area	Demand Response[d]	Net	System[b]	Ohio Service Area	System[b]
Year 0-2013						
January*	1,448		1,448	9,065	1,576	9,323
February*	1,425		1,425	8,771	1,553	9,029
March	1,386		1,386	8,440	1,514	8,698
April	1,456		1,456	8,655	1,584	8,913
May	1,557		1,557	9,363	1,685	9,621
June	1,838		1,838	11,396	1,972	11,624
July	1,863		1,863	11,591	1,997	11,819
August	1,854		1,854	11,599	1,988	11,827
September	1,683		1,683	10,171	1,817	10,399
October	1,490		1,490	8,585	1,624	8,813
November	1,320		1,320	8,233	1,454	8,461
December	1,449		1,449	9,074	1,583	9,302
Year 1-2014						
January	1,447		1,447	9,043	1,581	9,271
February	1,424		1,424	8,790	1,558	9,018
March	1,350		1,350	8,362	1,484	8,590
April	1,428		1,428	8,589	1,562	8,817
May	1,532		1,532	9,323	1,666	9,551
June	1,827		1,827	11,355	1,955	11,583
July	1,854		1,854	11,580	1,982	11,808
August	1,846		1,846	11,614	1,974	11,842
September	1,675		1,675	10,202	1,803	10,430
October	1,481		1,481	8,623	1,609	8,851
November	1,284		1,284	8,125	1,412	8,353
December	1,410		1,410	8,961	1,538	9,189

[a] Actual data shall be indicated with an asterisk (*).

[b] These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

[c] Internal Load equals Native plus Interruptible.

[d] Excludes impact of self-directed mercantile DR programs. Incremental to 2012 benchmark.

SECTION III
RESOURCE FORECAST FORMS

4901-5-5-06(A)(6)(a)
PUCO Form FE-R1:

Monthly Forecast of Electric Utility's Ohio Service Area Peak Load and Resources
Dedicated to Meet Ohio Service Area Peak Load
(Megawatts) [b]

Ohio Edison Company

Current Calendar Year: 2013

	Jan*	Feb*	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability	0	0	0	0	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0	0	0	0	0
Purchases [a]	4,278	4,045	3,808	4,130	4,354	5,270	5,338	5,388	4,635	3,860	3,719	4,102
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability [c]	4,278	4,045	3,808	4,130	4,354	5,270	5,338	5,388	4,635	3,860	3,719	4,102
Native Load	4,071	3,846	3,619	3,928	4,144	5,014	5,080	5,127	4,404	3,658	3,523	3,892
Available Reserve [d]	208	199	189	202	210	256	258	260	231	201	196	211
Internal Load [e]	4,114	3,889	3,662	3,971	4,187	5,067	5,133	5,180	4,457	3,711	3,576	3,945
Reserve [d f]	165	156	146	159	167	203	205	207	178	148	143	158

Next Calendar Year: 2014

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability	0	0	0	0	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0	0	0	0	0
Purchases [a]	4,145	3,981	3,741	4,070	4,311	5,247	5,334	5,399	4,655	3,884	3,655	4,036
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability [c]	4,145	3,981	3,741	4,070	4,311	5,247	5,334	5,399	4,655	3,884	3,655	4,036
Native Load	3,932	3,775	3,544	3,860	4,092	5,000	5,084	5,146	4,431	3,690	3,469	3,835
Available Reserve [d]	213	206	197	210	219	247	251	253	224	194	185	200
Internal Load [e]	3,985	3,828	3,597	3,913	4,145	5,043	5,127	5,189	4,474	3,733	3,512	3,878
Reserve [d f]	160	153	144	157	166	204	208	210	181	151	142	157

[a] Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

[b] Actual data shall be indicated with an asterisk (*).

[c] Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

[d] All of the Companies' native load and internal load are served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor do they intend to become, an LSE, and therefore do not have any reserves. Reserve requirements are supplied by the LSE.

[e] Internal Load equals Native plus Interruptible.

[f] Based upon the Unforced Margin w/div as stated in PJM's "Reserve Requirement Study (2012)"

4901-5-5-06(A)(6)(a)
PUCO Form FE-R1:

Monthly Forecast of Electric Utility's Ohio Service Area Peak Load and Resources
Dedicated to Meet Ohio Service Area Peak Load
(Megawatts)

The Cleveland Electric Illuminating Company

Current Calendar Year -2013

	Jan*	Feb*	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases [a]	3,036	3,078	2,989	2,968	3,346	3,998	4,082	4,101	3,592	3,074	2,920	3,163
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability [c]	3,036	3,078	2,989	2,968	3,346	3,998	4,082	4,101	3,592	3,074	2,920	3,163
Native Load	2,887	2,927	2,842	2,822	3,185	3,830	3,910	3,929	3,440	2,941	2,794	3,027
Available Reserve [d]	149	150	147	146	161	168	171	172	153	133	127	136
Internal Load [e]	2,919	2,959	2,874	2,854	3,217	3,844	3,924	3,943	3,454	2,955	2,808	3,041
Reserve [d f]	117	118	115	114	129	154	157	158	139	119	113	122

Next Calendar Year -2014

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases [a]	3,036	3,078	2,990	2,968	3,346	4,000	4,083	4,103	3,594	3,075	2,921	3,164
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability [c]	3,036	3,078	2,990	2,968	3,346	4,000	4,083	4,103	3,594	3,075	2,921	3,164
Native Load	2,887	2,927	2,842	2,822	3,185	3,830	3,910	3,929	3,440	2,941	2,794	3,027
Available Reserve [d]	149	151	147	146	161	170	173	174	154	134	128	137
Internal Load [e]	2,919	2,959	2,874	2,854	3,217	3,844	3,924	3,943	3,454	2,955	2,808	3,041
Reserve [d f]	117	119	115	114	129	156	159	160	140	120	114	123

[a] Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

[b] Actual data shall be indicated with an asterisk (*).

[c] Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

[d] All of the Companies' native load and internal load are served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor do they intend to become, an LSE, and therefore do not have any reserves. Reserve requirements are supplied by the LSE.

[e] Internal Load equals Native plus Interruptible.

[f] Based upon the Unforced Margin w/div as stated in PJM's "Reserve Requirement Study (2011)"

4901-5-5-06(A)(6)(a)
PUCO Form FE-R1:

Monthly Forecast of Electric Utility's Ohio Service Area Peak Load and Resources
Dedicated to Meet Ohio Service Area Peak Load
(Megawatts)

The Toledo Edison Company

Current Calendar Year -2013

	Jan*	Feb*	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases [a]	1,639	1,615	1,574	1,647	1,752	2,051	2,078	2,067	1,890	1,689	1,513	1,646
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability [c]	1,639	1,615	1,574	1,647	1,752	2,051	2,078	2,067	1,890	1,689	1,513	1,646
Native Load	1,448	1,425	1,386	1,456	1,557	1,838	1,863	1,854	1,683	1,490	1,320	1,449
Available Reserve [d]	191	190	189	191	195	213	214	214	207	199	192	197
Internal Load [e]	1,576	1,553	1,514	1,584	1,685	1,972	1,997	1,988	1,817	1,624	1,454	1,583
Reserve [d f]	63	62	61	63	67	79	80	80	73	65	58	63

Next Calendar Year -2014

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases [a]	1,644	1,621	1,543	1,625	1,733	2,034	2,063	2,054	1,876	1,674	1,469	1,600
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability [c]	1,644	1,621	1,543	1,625	1,733	2,034	2,063	2,054	1,876	1,674	1,469	1,600
Native Load	1,447	1,424	1,350	1,428	1,532	1,827	1,854	1,846	1,675	1,481	1,284	1,410
Available Reserve [d]	197	196	194	197	201	207	208	208	201	193	185	190
Internal Load [e]	1,581	1,558	1,484	1,562	1,666	1,955	1,982	1,974	1,803	1,609	1,412	1,538
Reserve [d f]	63	62	60	63	67	79	80	80	73	65	57	62

[a] Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

[b] Actual data shall be indicated with an asterisk (*).

[c] Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

[d] All of the Companies' native load and internal load are served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor do they intend to become, an LSE, and therefore do not have any reserves. Reserve requirements are supplied by the LSE.

[e] Internal Load equals Native plus Interruptible.

[f] Based upon the Unforced Margin w/div as stated in PJM's "Reserve Requirement Study (2011)"

4901-5-5-06(A)(6)(b)
PUCO Form FE-R2:

Monthly Forecast of System Peak Load and Resources Dedicated to Meet System Peak Load
(Megawatts)

FirstEnergy System [g]

Current Calendar Year: 2013

	Jan*	Feb*	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability	0	0	0	0	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0	0	0	0	0
Purchases [a]	9,696	9,390	9,046	9,270	10,006	12,090	12,292	12,301	10,816	9,166	8,800	9,675
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability [c]	9,696	9,390	9,046	9,270	10,006	12,090	12,292	12,301	10,816	9,166	8,800	9,675
Native Load	9,065	8,771	8,440	8,655	9,363	11,396	11,591	11,599	10,171	8,585	8,233	9,074
Available Reserve [d]	631	619	606	615	643	694	702	702	645	581	567	601
Internal Load [e]	9,323	9,029	8,698	8,913	9,621	11,624	11,819	11,827	10,399	8,813	8,461	9,302
Reserve [d f]	373	361	348	357	385	466	474	474	417	353	339	373

Next Calendar Year: 2014

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability	0	0	0	0	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0	0	0	0	0
Purchases [a]	9,643	9,380	8,934	9,171	9,934	12,052	12,286	12,321	10,852	9,209	8,691	9,561
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability [c]	9,643	9,380	8,934	9,171	9,934	12,052	12,286	12,321	10,852	9,209	8,691	9,561
Native Load	9,043	8,790	8,362	8,589	9,323	11,355	11,580	11,614	10,202	8,623	8,125	8,961
Available Reserve [d]	600	590	572	582	611	697	706	708	650	586	566	600
Internal Load [e]	9,271	9,018	8,590	8,817	9,551	11,583	11,808	11,842	10,430	8,851	8,353	9,189
Reserve [d f]	372	362	344	354	383	469	478	480	422	358	338	372

[a] Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

[b] Actual data shall be indicated with an asterisk (*).

[c] Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

[d] All of the Companies' native load and internal load are served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor do they intend to become, an LSE, and therefore do not have any reserves. Reserve requirements are supplied by the LSE.

[e] Internal Load equals Native plus Interruptible.

[f] Based upon the Unforced Margin w/div as stated in PJM's "Reserve Requirement Study (2011)"

[g] These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

4901-5-5-06(A)(6)(c)
PUCO Form FE-R3: Summary of Existing Electric Generation Facilities for the System [a]
(as of 12/31/2009)

Station Name & Location	Unit No.	Type of Units	Date of First On-Line Service	Expected Retirement Date	Generation Summer (MW)	Generation Winter (MW)	Environmental Protection Measures

[a] The companies do not own or operate generation, nor intend to, for the duration of this forecast.

4901-5-5-06(A)(6)(d)(i)

PUCO Form FE-R4: Actual Generating Capability Dedicated to Meet Ohio Peak Load [a]
(as of 12/31/2009)

	Unit Designation		Seasonal
Year/Season	Unit Name	Description	Total

[a] The companies do not own or operate generation, nor intend to, for the duration of this forecast.

4901-5-5-06(A)(6)(d)(ii)

PUCO Form FE-R5: Projected Generating Capability Changes To Meet Future Ohio Peak Load [a]

	Unit Designation		Capability	Seasonal
Year/Season	Unit Name	Description	Changes	Total

[a] The companies do not own or operate generation, nor intend to, for the duration of this forecast.

4901-5-5-06(A)(6)(d)(iii)
PUCO Form FE-R6:

Electric Utility's Actual and Forecast Ohio Peak Load and Resources
Dedicated to Meet Electric Utility's Ohio Peak Load
(Megawatts) - Summer Season

Ohio Edison Company

	(-5) 2008	(-4) 2009	(-3) 2010	(-2) 2011	(-1) 2012	(0) 2013	(1) 2014	(2) 2015
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases [a]	5,681	4,933	5,342	5,908	5,768	5,409	5,490	5,576
Sales	0	0	0	0	0	0	0	0
Available Capability [c]	5,681	4,933	5,342	5,908	5,768	5,409	5,490	5,576
Native Load	4,797	4,616	5,069	5,619	5,503	5,147	5,223	5,357
Available Reserve [d]	885	316	273	289	265	262	267	219
Internal Load [e]	4,997	4,682	5,135	5,679	5,546	5,200	5,276	5,357
Reserve [d f]	685	250	207	229	222	209	214	219

	(3) 2016	(4) 2017	(5) 2018	(6) 2019	(7) 2020	(8) 2021	(9) 2022	(10) 2023
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases [a]	5,612	5,642	5,637	5,642	5,642	5,639	5,631	5,617
Sales	0	0	0	0	0	0	0	0
Available Capability [c]	5,612	5,642	5,637	5,642	5,642	5,639	5,631	5,617
Native Load	5,417	5,446	5,441	5,446	5,446	5,443	5,435	5,422
Available Reserve [d]	195	196	196	196	196	196	196	195
Internal Load [e]	5,417	5,446	5,441	5,446	5,446	5,443	5,435	5,422
Reserve [d f]	195	196	196	196	196	196	196	195

[a] Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

[b] Actual data shall be indicated with an asterisk (*).

[c] Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

[d] All of the Companies native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.

[e] Internal Load equals Native plus Interruptible.

[f] Based upon the Unforced Margin w/div as stated in PJM's "Reserve Requirement Study (2012)".

4901-5-5-06(A)(6)(d)(iii)
PUCO Form FE-R6:

Electric Utility's Actual and Forecast Ohio Peak Load and Resources
Dedicated to Meet Electric Utility's Ohio Peak Load
(Megawatts) - Summer Season

The Cleveland Electric Illuminating Company

	(-5) 2008	(-4) 2009	(-3) 2010	(-2) 2011	(-1) 2012	(0) 2013	(1) 2014	(2) 2015
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases [a]	4,532	3,993	4,248	4,481	4,208	4,110	4,155	4,204
Sales	0	0	0	0	0	0	0	0
Available Capability [c]	4,532	3,993	4,248	4,481	4,208	4,110	4,155	4,204
Native Load	3,876	3,742	4,035	4,260	4,015	3,937	3,979	4,039
Available Reserve [d]	656	251	213	221	194	172	176	165
Internal Load [e]	3,986	3,790	4,083	4,307	4,047	3,951	3,993	4,039
Reserve [d f]	546	203	165	174	162	158	162	165

	(3) 2016	(4) 2017	(5) 2018	(6) 2019	(7) 2020	(8) 2021	(9) 2022	(10) 2023
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases [a]	4,219	4,235	4,232	4,235	4,235	4,234	4,229	4,222
Sales	0	0	0	0	0	0	0	0
Available Capability [c]	4,219	4,235	4,232	4,235	4,235	4,234	4,229	4,222
Native Load	4,072	4,088	4,085	4,088	4,088	4,087	4,082	4,075
Available Reserve [d]	147	147	147	147	147	147	147	147
Internal Load [e]	4,072	4,088	4,085	4,088	4,088	4,087	4,082	4,075
Reserve [d f]	147	147	147	147	147	147	147	147

[a] Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

[b] Actual data shall be indicated with an asterisk (*).

[c] Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

[d] All of the Companies native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not

[e] Internal Load equals Native plus Interruptible.

[f] Based upon the Unforced Margin w/div as stated in PJM's "Reserve Requirement Study (2012)".

4901-5-5-06(A)(6)(d)(iii)
PUCO Form FE-R6:

Electric Utility's Actual and Forecast Ohio Peak Load and Resources
Dedicated to Meet Electric Utility's Ohio Peak Load
(Megawatts) - Summer Season

The Toledo Edison Company

	(-5) 2008	(-4) 2009	(-3) 2010	(-2) 2011	(-1) 2012	(0) 2013	(1) 2014	(2) 2015
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases [a]	2,159	1,940	2,060	2,224	2,435	2,086	2,113	2,147
Sales	0	0	0	0	0	0	0	0
Available Capability [c]	2,159	1,940	2,060	2,224	2,435	2,086	2,113	2,147
Native Load	1,731	1,697	1,836	2,017	2,214	1,872	1,897	2,062
Available Reserve [d]	428	243	224	207	222	214	216	84
Internal Load [e]	1,899	1,841	1,980	2,138	2,342	2,006	2,031	2,062
Reserve [d f]	260	99	80	86	94	80	82	84

	(3) 2016	(4) 2017	(5) 2018	(6) 2019	(7) 2020	(8) 2021	(9) 2022	(10) 2023
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases [a]	2,162	2,182	2,192	2,204	2,215	2,225	2,234	2,241
Sales	0	0	0	0	0	0	0	0
Available Capability [c]	2,162	2,182	2,192	2,204	2,215	2,225	2,234	2,241
Native Load	2,087	2,107	2,116	2,128	2,138	2,148	2,156	2,163
Available Reserve [d]	75	76	76	77	77	77	78	78
Internal Load [e]	2,087	2,107	2,116	2,128	2,138	2,148	2,156	2,163
Reserve [d f]	75	76	76	77	77	77	78	78

[a] Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

[b] Actual data shall be indicated with an asterisk (*).

[c] Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

[d] All of the Companies native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.

[e] Internal Load equals Native plus Interruptible.

[f] Based upon the Unforced Margin w/div as stated in PJM's "Reserve Requirement Study (2012)".

4901-5-5-06(A)(6)(d)(iv)
PUCO Form FE-R7: Actual and Forecast System Peak Load and Resources Dedicated to Meet System Peak Load (Megawatts) - Summer Season

FirstEnergy System

	(-5) 2008	(-4) 2009	(-3) 2010	(-2) 2011	(-1) 2012	(0) 2013	(1) 2014	(2) 2015
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases [a]	13,032	11,536	12,396	13,296	12,887	12,100	12,120	12,360
Sales	0	0	0	0	0	0	0	0
Available Capability [c]	13,032	11,536	12,396	13,296	12,887	12,100	12,120	12,360
Native Load	11,404	10,937	11,905	12,771	12,384	11,626	11,641	11,874
Available Reserve [d]	1,628	599	491	525	503	474	480	486
Internal Load [e]	11,882	11,195	12,163	12,999	12,587	11,827	11,842	11,874
Reserve [d f]	1,628	599	491	525	503	474	480	486

	(3) 2016	(4) 2017	(5) 2018	(6) 2019	(7) 2020	(8) 2021	(9) 2022	(10) 2023
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases [a]	12,311	12,334	12,265	12,254	12,267	12,274	12,270	12,255
Sales	0	0	0	0	0	0	0	0
Available Capability [c]	12,311	12,334	12,265	12,254	12,267	12,274	12,270	12,255
Native Load	11,883	11,906	11,838	11,828	11,840	11,847	11,843	11,829
Available Reserve [d]	428	429	426	426	426	427	426	426
Internal Load [e]	11,883	11,906	11,838	11,828	11,840	11,847	11,843	11,829
Reserve [d f]	428	429	426	426	426	427	426	426

[a] Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

[b] Actual data shall be indicated with an asterisk (*).

[c] Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

[d] All of the Companies native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.

[e] Internal Load equals Native plus Interruptible.

[f] Based upon the Unforced Margin w/div as stated in PJM's "Reserve Requirement Study (2012)".

[g] These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

4901-5-5-06(A)(6)(d)(v)
PUCO Form FE-R8:

Electric Utility's Actual and Forecast Ohio Peak Load and Resources
Dedicated to Meet Electric Utility's Ohio Peak Load
(Megawatts) - Winter Season

Ohio Edison Company

	(-5) 2008	(-4) 2009	(-3) 2010	(-2) 2011	(-1) 2012	(0) 2013	(1) 2014	(2) 2015
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases [a]	4,609	4,649	4,755	4,700	4,278	4,145	4,078	4,030
Sales	0	0	0	0	0	0	0	0
Available Capability [c]	4,609	4,649	4,755	4,700	4,278	4,145	4,078	4,030
Native Load	3,854	3,953	4,116	4,074	4,071	3,932	3,868	3,874
Available Reserve [d]	755	696	639	626	208	212	210	157
Internal Load [e]	4,054	4,089	4,182	4,134	4,114	3,985	3,921	3,874
Reserve [d f]	555	560	573	566	165	159	157	157

	(3) 2016	(4) 2017	(5) 2018	(6) 2019	(7) 2020	(8) 2021	(9) 2022	(10) 2023
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases [a]	4,010	3,965	3,920	3,901	3,883	3,864	3,845	3,825
Sales	0	0	0	0	0	0	0	0
Available Capability [c]	4,010	3,965	3,920	3,901	3,883	3,864	3,845	3,825
Native Load	3,852	3,809	3,766	3,748	3,731	3,712	3,694	3,674
Available Reserve [d]	158	156	154	153	153	152	151	150
Internal Load [e]	3,852	3,809	3,766	3,748	3,731	3,712	3,694	3,674
Reserve [d f]	158	156	154	153	153	152	151	150

[a] Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

[b] Actual data shall be indicated with an asterisk (*).

[c] Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

[d] All of the Companies' native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.

[e] Internal Load equals Native plus Interruptible.

[f] Based upon the Unforced Margin w/div as stated in PJM's "Reserve Requirement Study (2012)".

4901-5-5-06(A)(6)(d)(v)
PUCO Form FE-R8: Electric Utility's Actual and Forecast Ohio Peak Load and Resources Dedicated to Meet Electric Utility's Ohio Peak Load (Megawatts) - Winter Season

The Cleveland Electric Illuminating Company

	(-5) 2008	(-4) 2009	(-3) 2010	(-2) 2011	(-1) 2012	(0) 2013	(1) 2014	(2) 2015
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases [a]	3,491	3,679	3,481	3,345	3,365	3,162	3,159	3,151
Sales	0	0	0	0	0	0	0	0
Available Capability [c]	3,491	3,679	3,481	3,345	3,365	3,162	3,159	3,151
Native Load	2,960	3,042	3,014	2,895	2,927	3,027	3,024	3,029
Available Reserve [d]	531	637	467	450	437	136	136	123
Internal Load [e]	3,070	3,236	3,062	2,942	2,959	3,041	3,038	3,029
Reserve [d f]	421	443	419	403	405	122	122	123

	(3) 2016	(4) 2017	(5) 2018	(6) 2019	(7) 2020	(8) 2021	(9) 2022	(10) 2023
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases [a]	3,010	3,102	2,987	2,987	2,988	2,988	2,986	2,984
Sales	0	0	0	0	0	0	0	0
Available Capability [c]	3,010	3,102	2,987	2,987	2,988	2,988	2,986	2,984
Native Load	2,892	2,980	2,869	2,870	2,871	2,870	2,869	2,866
Available Reserve [d]	118	122	117	117	117	117	117	117
Internal Load [e]	2,892	2,980	2,869	2,870	2,871	2,870	2,869	2,866
Reserve [d f]	118	122	117	117	117	117	117	117

[a] Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

[b] Actual data shall be indicated with an asterisk (*).

[c] Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

[d] All of the Companies' native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.

[e] Internal Load equals Native plus Interruptible.

[f] Based upon the Unforced Margin w/div as stated in PJM's "Reserve Requirement Study (2012)".

4901-5-5-06(A)(6)(d)(v)
PUCO Form FE-R8:

Electric Utility's Actual and Forecast Ohio Peak Load and Resources
Dedicated to Meet Electric Utility's Ohio Peak Load
(Megawatts) - Winter Season

The Toledo Edison Company

	(-5) 2008	(-4) 2009	(-3) 2010	(-2) 2011	(-1) 2012	(0) 2013	(1) 2014	(2) 2015
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases [a]	2,233	1,819	1,829	1,865	1,792	1,646	1,733	1,716
Sales	0	0	0	0	0	0	0	0
Available Capability [c]	2,233	1,819	1,829	1,865	1,792	1,646	1,733	1,716
Native Load	1,796	1,452	1,465	1,520	1,448	1,449	1,532	1,649
Available Reserve [d]	437	367	364	346	344	197	201	67
Internal Load [e]	1,964	1,600	1,609	1,641	1,576	1,583	1,666	1,649
Reserve [d f]	269	219	220	225	216	63	67	67

	(3) 2016	(4) 2017	(5) 2018	(6) 2019	(7) 2020	(8) 2021	(9) 2022	(10) 2023
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases [a]	1,741	1,768	1,751	1,787	1,798	1,809	1,818	1,825
Sales	0	0	0	0	0	0	0	0
Available Capability [c]	1,741	1,768	1,751	1,787	1,798	1,809	1,818	1,825
Native Load	1,672	1,699	1,682	1,717	1,727	1,738	1,746	1,754
Available Reserve [d]	68	69	69	70	71	71	71	72
Internal Load [e]	1,672	1,699	1,682	1,717	1,727	1,738	1,746	1,754
Reserve [d f]	68	69	69	70	71	71	71	72

[a] Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

[b] Actual data shall be indicated with an asterisk (*).

[c] Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

[d] All of the Companies' native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.

[e] Internal Load equals Native plus Interruptible.

[f] Based upon the Unforced Margin w/div as stated in PJM's "Reserve Requirement Study (2012)".

4901-5-5-06(A)(6)(d)(vi)
PUCO Form FE-R9: Actual and Forecast System Peak Load and Resources Dedicated to Meet System Peak Load (Megawatts) - Winter Season

FirstEnergy System [g]

	(-5) 2008	(-4) 2009	(-3) 2010	(-2) 2011	(-1) 2012	(0) 2013	(1) 2014	(2) 2015
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases [a]	10,868	11,063	11,079	10,443	9,744	9,674	9,557	9,458
Sales								
Available Capability [c]	10,868	11,063	11,079	10,443	9,744	9,674	9,557	9,458
Native Load	9,080	9,472	9,486	8,956	9,167	9,101	8,988	9,090
Available Reserve [d]	1,788	1,591	1,593	1,486	578	573	569	368
Internal Load [e]	9,558	9,730	9,744	9,184	9,370	9,302	9,189	9,090
Reserve [d f]	1,310	1,333	1,335	1,258	375	372	368	368

	(3) 2016	(4) 2017	(5) 2018	(6) 2019	(7) 2020	(8) 2021	(9) 2022	(10) 2023
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases [a]	9,368	9,332	9,205	9,178	9,152	9,123	9,093	9,060
Sales								
Available Capability [c]	9,368	9,332	9,205	9,178	9,152	9,123	9,093	9,060
Native Load	9,000	8,966	8,844	8,818	8,793	8,765	8,736	8,704
Available Reserve [d]	368	367	362	361	360	358	357	356
Internal Load [e]	9,000	8,966	8,844	8,818	8,793	8,765	8,736	8,704
Reserve [d f]	368	367	362	361	360	358	357	356

[a] Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

[b] Actual data shall be indicated with an asterisk (*).

[c] Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

[d] All of the Companies' native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.

[e] Internal Load equals Native plus Interruptible.

[f] Based upon the Unforced Margin w/div as stated in PJM's "Reserve Requirement Study (2012)".

[g] These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

4901-5-5-06(A)(6)(e)

PUCO Form FE-R10: Specifications of Planned Electric Generation Facilities [a]

1. Facility Name
2. Facility Location
3. Facility Type
4. Anticipated Capability
5. Anticipated Capital Cost
6. Application Timing
7. Construction Timing
8. Planned Pollution Control Measures
9. Fuel
10. Miscellaneous

[a] The companies do not own or operate generation, nor intend to, for the duration of this forecast.

APPENDIX
LIBRARIES

Ashland County: Ashland County District Library 224 Claremont Avenue Ashland, OH 44805	Fayette County: Carnegie Public Library 127 S. North Street Washington C.H., OH 43160
Ashtabula County: Ashtabula County District Library 335 W. 44th Street Ashtabula, OH 44004	Franklin County: Columbus Metropolitan Library Attn: N. Friday, Biography, History & Travel Division 96 S. Grant Avenue Columbus, OH 43215
Carroll County: Carroll County District Library 70 Second St NE Carrollton, OH 44615	Fulton County: Delta Public Library 402 Main Street Delta, OH 43515
Champaign County: Champaign County Library 1060 Scioto Street Urbana, OH 43078	Geauga County: Geauga County Public Library 12701 Ravenwood Drive Chardon, OH 44024
Clark County: Clark County Public Library 201 S. Fountain Avenue – PO Box 1080 Springfield, OH 45506	Greene County: Hallie Q. Brown Memorial Library Central State University 1400 Brush Row Road, Box # 1006 Wilberforce, OH 45384
Columbiana County: Carnegie Public Library 219 E. Fourth Street East Liverpool, OH 43920	Greene County: Greene County District Library 76 East Market Street, POB 520 Xenia, OH 45385
Columbiana County: Lepper Library 303 E. Lincoln Way Lisbon, OH 44432	Henry County: Napoleon Public Library 310 W. Clinton Street Napoleon, OH 43545
Crawford County: Bucyrus Public Library 200 E. Mansfield Bucyrus, OH 44820	Holmes County: Holmes County District Library 3102 Glen Drive Millersburg, OH 44654
Cuyahoga County: Cleveland Public Library Reference Division 325 Superior Avenue, N.E. Cleveland, OH 44114	Huron County: Willard Memorial Library 6 W. Emerald Street Willard, OH 44890
Cuyahoga County: Cuyahoga County Public Library Maple Heights Regional 5225 Library Lane Maple Heights, OH 44137	Knox County: Mt. Vernon Public Library 201 N. Mulberry Street Mt. Vernon, OH 43050
Defiance County: Defiance Public Library 320 Fort Street Defiance, OH 43512	Lake County: Morley Library 184 Phelps Street Painesville, OH 44077
Delaware County: Delaware County District Library 84 E. Winter Street Delaware, OH 43015	Lorain County: Lorain Public Library 351 Sixth Street Lorain, OH 44052
Erie County: Sandusky Library 114 W. Adams Street Sandusky, OH 44870	Lorain County: Oberlin College Library Reference Division 148 W. College Street Oberlin, OH 44074
Erie County: Huron Public Library 333 Williams Street Huron, OH 44839	Lorain County: Elyria Public Library 320 Washington Avenue Elyria, OH 44035

Lucas County: Toledo-Lucas County Public Library Reference Division 325 Michigan Street Toledo, OH 43604	Richland County: Mansfield/Richfield Public Library 43 W. Third Street Mansfield, OH 44902
Lucas County: William S. Carlson Library University of Toledo Reference Division 2801 West Bancroft Street	Sandusky County: Birchard Public Library 423 Croghan Street Fremont, OH 43420
Madison County: London Public Library 20 E. First Street London, OH 43140	Seneca County: Tiffin-Seneca Public Library 77 Jefferson Street Tiffin, OH 44883
Madison County: Hurt/Battelle Memorial Library 270 Lilly Chapel Road West Jefferson, OH 43162	Stark County: Stark County District Library 715 Market Ave., N. Canton, OH 44702
Mahoning County: Public Library of Youngstown Reference Division 305 Wick Avenue Youngstown, OH 44503	Summit County: Akron-Summit County Public Library 60 South High Street Akron, OH 44326
Marion County: Marion Public Library 445 E. Church Street Marion, OH 43302	Trumbull County: Warren-Trumbull County Public Library 444 Mahoning Avenue, N.W. Warren, OH 44483
Medina County: Troy- Miami Public Library 416 W Main St Troy, OH 44256	Tuscarawas County: Tuscarawas County Public Library 121 Fair Avenue., N.W. New Philadelphia, OH 44663
Miami County: Medina County District Library 210 S. Broadway Medina, OH 44256	Union County: Marysville Public Library 231 S. Plum Street Marysville, OH 43040
Morrow County: Mt. Gilead Free Public Library 41 E. High Street Mt. Gilead, OH 43338	Wayne County: Wayne County Public Library 304 N. Market Street Wooster, OH 44691
Ottawa County: Ida Rupp Public Library 310 Madison Street Port Clinton, OH 43452	Williams County: Williams County Public Library 107 E. High Street Bryan, OH 43506
Portage County: Portage County District Library 10482 South Street Garrettsville, OH 44231	Wood County: Wood County District Public Library 251 N. Main Street Bowling Green, OH 43402
Portage County: Kent State University Library Serials Department 1 Eastway Drive, P.O. Box 5190 Kent, OH 44242	Wood County: William T. Jerome Library Bowling Green State University Documents Librarian Bowling Green, OH 43403
Putnam County: Putnam County District Library Educational Service Center 124 Putnam Parkway Ottawa, OH 45875	Wyandot County: Upper Sandusky Community Library 301 N. Sandusky Avenue Upper Sandusky, OH 43351