2019

LONG-TERM ELECTRIC FORECAST REPORT

SUBMITTED BY

DUKE ENERGY OHIO, INC.

CASE NO. 19-590-EL-FOR

JULY 1, 2019

Rocco D'Ascenzo
Deputy General Counsel
Elizabeth H. Watts
Associate General Counsel
Duke Energy Ohio, Inc.
139 East Fourth Street
Cincinnati, Ohio 45202

STATEMENT

OF

AMY B. SPILLER

PRESIDENT, DUKE ENERGY OHIO, INC.

I, Amy B. Spiller, President of Duke Energy Ohio, Inc., hereby certify that DUKE ENERGY OHIO, INC.'S 2019 ELECTRIC LONG-TERM FORECAST REPORT AND RESOURCE PLAN as submitted to the Public Utilities Commission of Ohio is true and correct to the best of my knowledge and belief.

I further certify the requirements of paragraphs (F) to (I) of Ohio Administrative Code §4901:5-1-03 will be met.

Amy B. Spiller
President
Duke Energy Ohio, Inc.

CERTIFICATE OF SERVICE

I hereby certify that a true and accurate copy of DUKE ENERGY OHIO, INC.'S 2019 ELECTRIC LONG-TERM FORECAST REPORT AND RESOURCE PLAN was served by electronic delivery, this 1st day of July, 2019 upon the following:

Office of the Ohio Consumers' Counsel

10 West Broad St., Suite 1800

Columbus, OH 43215-3458

Also, a Letter of Notification was sent by First Class U.S. Mail to each library listed in the Report.

/s/Elizabeth H. Watts

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Libraries Receiving a Letter of Notification Regarding Duke Energy Ohio, Inc.'s 2019 Long-Term Forecast Report and Resource Plan

County	Library	Address
Adams	Manchester Branch Library	401 Pike Street Manchester, OH 45144
Brown	Mary P. Shelton Library	200 West Grant Avenue Georgetown, OH 45121
Butler	Lane Public Library	300 North Third Street Hamilton, OH 45011
Butler	Middletown Public Library	125 South Broad Street Middletown, OH 45044
Clermont	Clermont County Public Library	180 South Third Street Batavia, OH 45103
Clinton	Wilmington Public Library	268 North South Street Wilmington, OH 45177
Hamilton	Public Library of Cincinnati & Hamilton County University of Cincinnati Library Reference Division	800 Vine Street Cincinnati, OH 45202 P.O. Box 210033 Cincinnati, OH 45221
Highland	Highland County District Library	10 Willetsville Pike Hillsboro, OH 45133
Montgomery	Dayton & Montgomery County Public Library	215 East Third Street Dayton, OH 45402
Preble	Preble County District Library	450 South Barron Street Eaton, OH 45320
Warren	Lebanon Public Library	101 South Broadway Street Lebanon, OH 45036

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PUCO FORM FE-T1: TRANSMISSION ENERGY DELIVERY FORECAST
(Megawatt Hours/Year) (a)

	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 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 7 - 10	(12) ENERGY DELIVERIES FOR LOADS CONNECTED TO THE SYSTEM INSIDE OHIO	(13) ENERGY DELIVERIES FOR LOADS CONNECTED TO THE SYSTEM OUTSIDE OHIO 11 - 12
-5	2014	16,526,108	2,912,565	19,438,673	19,634,282	1,159,012	20,793,294	40,231,967	12,941,696	269,313	13,211,009	27,020,958	22,531,338	4,489,620
-4	2015	12,970,578	4,456,234	17,426,812	21,215,216	1,048,075	22,263,291	39,690,103	12,107,842	372,451	12,480,293	27,209,810	22,934,328	4,275,482
-3	2016	13,427,643	3,698,853	17,126,496	21,764,183	1,092,846	22,857,029	39,983,525	11,952,414	398,127	12,350,541	27,632,984	23,063,417	4,569,567
-2	2017	16,174,898	4,281,241	20,456,139	18,801,234	849,146	19,650,380	40,106,519	12,936,330	499,124	13,435,454	26,671,065	22,276,095	4,394,970
-1	2018	17,113,116	2,915,442	20,028,558	21,305,106	880,347	22,185,453	42,214,011	13,662,843	538,159	14,201,002	28,013,009	23,421,137	4,591,872
0	2019											25,339,795	21,163,106	4,176,688
1	2020											25,335,855	21,134,045	4,201,811
2	2021											25,203,207	20,907,140	4,296,066
3	2022											25,312,644	20,835,261	4,477,383
4	2023											25,310,624	20,797,843	4,512,781
5	2024											25,352,996	20,801,146	4,551,850
6	2025											25,431,695	20,824,098	4,607,597
7	2026											25,504,660	20,846,880	4,657,780
8	2027											25,642,023	20,909,993	4,732,030
9	2028											25,738,096	20,942,530	4,795,566
10	2029											25,791,492	20,960,632	4,830,860

(a) To be filled out by electric transmission owners operating in Ohio.

PUCO Form FE-T2 : Electric Transmission Owner's System Seasonal Peak Load Demand Forecast

(Megawatts)(a)

Duke Energy Ohio BEFORE DSM (e)

		Native Load (b)		Internal Load (c)	
	Year	Summer	Winter (d)	Summer	Winter (d)
-5	2014	4,053	3,662	4,053	3,662
-4	2015	4,049	3,702	4,049	3,702
-3	2016	4,427	3,417	4,427	3,417
-2	2017	3,957	3,713	3,957	3,713
-1	2018	4,091	3,619	4,091	3,619
0	2019	3,998	3,583	4,083	3,583
1	2020	3,999	3,576	4,058	3,576
2	2021	3,975	3,568	4,034	3,568
3	2022	3,959	3,559	4,024	3,559
4	2023	3,945	3,518	4,012	3,518
5	2024	3,941	3,544	4,008	3,544
6	2025	3,933	3,534	4,001	3,534
7	2026	3,925	3,530	3,993	3,530
8	2027	3,921	3,491	3,988	3,491
9	2028	3,915	3,500	3,982	3,500
10	2029	3,911	3,500	3,978	3,500

(a) To be filled out by electric transmission owners operating in Ohio.
(b) Excludes interruptible load.
(c) Includes interruptible load.
(d) Winter load reference is to peak loads which follow the summer peak load.
(e) Includes historical DSM impacts.

PUCO Form FE-T2 : Electric Transmission Owner's System Seasonal Peak Load Demand Forecast

(Megawatts)(a)

Duke Energy Ohio After DSM (e) (f)

		Native Load (b)		Internal Load (c)	
	Year	Summer	Winter (d)	Summer	Winter (d)
-5	2014	4,053	3,662	4,053	3,662
-4	2015	4,049	3,702	4,049	3,702
-3	2016	4,427	3,417	4,427	3,417
-2	2017	3,957	3,713	3,957	3,713
-1	2018	4,091	3,619	4,091	3,619
0	2019	3,971	3,551	4,056	3,551
1	2020	3,955	3,526	4,014	3,526
2	2021	3,917	3,503	3,976	3,503
3	2022	3,887	3,480	3,952	3,480
4	2023	3,861	3,419	3,928	3,419
5	2024	3,845	3,431	3,913	3,431
6	2025	3,825	3,407	3,893	3,407
7	2026	3,805	3,389	3,872	3,389
8	2027	3,788	3,353	3,856	3,353
9	2028	3,770	3,342	3,838	3,342
10	2029	3,754	3,332	3,821	3,332

(a) To be filled out by electric transmission owners operating in Ohio.
(b) Excludes interruptible load.
(c) Includes interruptible load.
(d) Winter load reference is to peak loads which follow the summer peak load.
(e) Includes historical DSM impacts.
(f) Historical company peaks not necessarily coincident with system peak.

PUCO Form FE-T3: Electric Transmission Owner's Total Monthly Energy Forecast (MWh)

Duke Energy Ohio After DSM (e)

2019 (d)	Ohio Portion (a)	Total Company (b)	Total System (c)
January	1,877,456	1,877,456	1,877,456
February	1,760,334	1,760,334	1,760,334
March	1,564,744	1,564,744	1,564,744
April	1,568,517	1,568,517	1,568,517
May	1,613,860	1,613,860	1,613,860
June	1,903,643	1,903,643	1,903,643
July	2,059,851	2,059,851	2,059,851
August	1,982,305	1,982,305	1,982,305
September	1,728,847	1,728,847	1,728,847
October	1,599,682	1,599,682	1,599,682
November	1,658,376	1,658,376	1,658,376
December	1,845,493	1,845,493	1,845,493
2020 (d)			
January	1,881,491	1,881,491	1,881,491
February	1,753,430	1,753,430	1,753,430
March	1,667,377	1,667,377	1,667,377
April	1,541,646	1,541,646	1,541,646
May	1,610,348	1,610,348	1,610,348
June	1,919,203	1,919,203	1,919,203
July	2,094,008	2,094,008	2,094,008
August	1,991,340	1,991,340	1,991,340
September	1,729,550	1,729,550	1,729,550
October	1,516,958	1,516,958	1,516,958
November	1,631,936	1,631,936	1,631,936
December	1,796,759	1,796,759	1,796,759

(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) All data shown is a forecast. There is no actual data shown on this table.
(e) Includes DSM impacts.

PUCO Form FE-T4: Electric Transmission Owner's Monthly Internal Peak Load Forecast (Megawatts)

Internal

Duke Energy Ohio After DSM (e)

2019 (d)	Ohio Portion[a]	Total Service Area[b]	System[c]
January	3,604	3,604	3,604
February	3,435	3,435	3,435
March	3,095	3,095	3,095
April	2,883	2,883	2,883
May	3,523	3,523	3,523
June	3,992	3,992	3,992
July	4,056	4,056	4,056
August	4,025	4,025	4,025
September	3,968	3,968	3,968
October	3,020	3,020	3,020
November	3,087	3,087	3,087
December	3,435	3,435	3,435
2020 (d)			
January	3,551	3,551	3,551
February	3,422	3,422	3,422
March	3,090	3,090	3,090
April	2,858	2,858	2,858
May	3,497	3,497	3,497
June	3,967	3,967	3,967
July	4,014	4,014	4,014
August	3,977	3,977	3,977
September	3,916	3,916	3,916
October	2,969	2,969	2,969
November	3,047	3,047	3,047
December	3,390	3,390	3,390

(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 boundaries 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 data for the total system in this column.

(d) All data shown is a forecast. There is no actual data shown on this table.

(e) Includes DSM impacts.

Forms FE-T5 and FE-T6 - As of January 1, 2012 PJM took over functional control of the transmission system. Duke Energy Ohio no longer sells transmission or tracks the firmness thereof. Also, the allocation of Available Flowgate Capacity (AFC) became the sole responsibility of PJM. For these reasons, Duke Energy Ohio cannot guarantee the accuracy of the information on these forms. All the data presented on Forms FE-T5 and FE-T6 is for Calendar year 2018.

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

PART A: SOURCES OF ENERGY

Reporting Month Jan-18

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	1,520,884	0	1,520,884
Energy Receipts from other sources	2,230,912	0	2,230,912
Total Energy Receipts	3,751,796	0	3,751,796

PART B: DELIVERY OF ENERGY

Reporting Month Jan-18

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	2,415,280	0	2,415,280
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	43,119	0	43,119
Municipal-Owned Electric Systems	110,942	0	110,942
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,269,971	0	1,269,971
Total Energy Delivery	3,839,312	0	3,839,312

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

Reporting Month Jan-18

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	2,014,994	0	2,014,994
Other Investor-Owned Electric Utilities			
Cooperatively-Owned Electric System			0
Municipally-Owned Electric Systems			0
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,165,977	0	1,165,977
Total Energy Delivery	3,180,971	0	3,180,971

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH Jan-18

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	(87,516)	0	(87,516)

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

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

PART A: SOURCES OF ENERGY

Reporting Month Feb-18

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	1,541,185	0	1,541,185
Energy Receipts from other sources	1,557,681	0	1,557,681
Total Energy Receipts	3,098,866	0	3,098,866

PART B: DELIVERY OF ENERGY

Reporting Month Feb-18

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	2,022,809	0	2,022,809
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	32,266	0	32,266
Municipal-Owned Electric Systems	89,618	0	89,618
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,132,409	0	1,132,409
Total Energy Delivery	3,277,102	0	3,277,102

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

Reporting Month Feb-18

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	1,682,294	0	1,682,294
Other Investor-Owned Electric Utilities			
Cooperatively-Owned Electric System			0
Municipally-Owned Electric Systems			0
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,049,347	0	1,049,347
Total Energy Delivery	2,731,641	0	2,731,641

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH Feb-18

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	(178,236)	0	(178,236)

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

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

PART A: SOURCES OF ENERGY

Reporting Month Mar-18

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	1,028,326	0	1,028,326
Energy Receipts from other sources	2,096,666	0	2,096,666
Total Energy Receipts	3,124,992	0	3,124,992

PART B: DELIVERY OF ENERGY

Reporting Month Mar-18

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	1,856,867	0	1,856,867
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	34,966	0	34,966
Municipal-Owned Electric Systems	96,183	0	96,183
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,011,871	0	1,011,871
Total Energy Delivery	2,999,887	0	2,999,887

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

Reporting Month Mar-18

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	1,548,079	0	1,548,079
Other Investor-Owned Electric Utilities			
Cooperatively-Owned Electric System			0
Municipally-Owned Electric Systems			0
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	915,098	0	915,098
Total Energy Delivery	2,463,177	0	2,463,177

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH Mar-18

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	125,105	0	125,105

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

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

PART A: SOURCES OF ENERGY

Reporting Month Apr-18

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	898,637	0	898,637
Energy Receipts from other sources	1,826,714	0	1,826,714
Total Energy Receipts	2,725,351	0	2,725,351

PART B: DELIVERY OF ENERGY

Reporting Month Apr-18

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	1,883,512	0	1,883,512
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	30,119	0	30,119
Municipal-Owned Electric Systems	86,574	0	86,574
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	828,222	0	828,222
Total Energy Delivery	2,828,427	0	2,828,427

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

Reporting Month Apr-18

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	1,573,847	0	1,573,847
Other Investor-Owned Electric Utilities			
Cooperatively-Owned Electric System			0
Municipally-Owned Electric Systems			0
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	741,751	0	741,751
Total Energy Delivery	2,315,598	0	2,315,598

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH Apr-18

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	(103,076)	0	(103,076)

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

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

PART A: SOURCES OF ENERGY

Reporting Month May-18

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	1,096,982	0	1,096,982
Energy Receipts from other sources	1,965,819	0	1,965,819
Total Energy Receipts	3,062,801	0	3,062,801

PART B: DELIVERY OF ENERGY

Reporting Month May-18

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	1,817,478	0	1,817,478
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	31,437	0	31,437
Municipal-Owned Electric Systems	105,159	0	105,159
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	805,348	0	805,348
Total Energy Delivery	2,759,422	0	2,759,422

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

Reporting Month May-18

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	1,520,221	0	1,520,221
Other Investor-Owned Electric Utilities			
Cooperatively-Owned Electric System			0
Municipally-Owned Electric Systems			0
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	699,721	0	699,721
Total Energy Delivery	2,219,942	0	2,219,942

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH May-18

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	303,379 .	0	303,379

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

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

PART A: SOURCES OF ENERGY

Reporting Month Jun-18

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	1,402,266	0	1,402,266
Energy Receipts from other sources	2,134,401	0	2,134,401
Total Energy Receipts	3,536,667	0	3,536,667

PART B: DELIVERY OF ENERGY

Reporting Month Jun-18

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	2,188,240	0	2,188,240
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	33,948	0	33,948
Municipal-Owned Electric Systems	112,019	0	112,019
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,139,666	0	1,139,666
Total Energy Delivery	3,473,873	0	3,473,873

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

Reporting Month Jun-18

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	1,818,405	0	1,818,405
Other Investor-Owned Electric Utilities			
Cooperatively-Owned Electric System			0
Municipally-Owned Electric Systems			0
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,027,823	0	1,027,823
Total Energy Delivery	2,846,228	0	2,846,228

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH Jun-18

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	62,794	0	62,794

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

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

PART A: SOURCES OF ENERGY

Reporting Month Jul-18

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	2,174,076	0	2,174,076
Energy Receipts from other sources	1,884,984	0	1,884,984
Total Energy Receipts	4,059,060	0	4,059,060

PART B: DELIVERY OF ENERGY

Reporting Month Jul-18

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	2,384,269	0	2,384,269
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	36,119	0	36,119
Municipal-Owned Electric Systems	119,504	0	119,504
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,515,429	0	1,515,429
Total Energy Delivery	4,055,321	0	4,055,321

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

Reporting Month Jul-18

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	1,986,380	0	1,986,380
Other Investor-Owned Electric Utilities			
Cooperatively-Owned Electric System			0
Municipally-Owned Electric Systems			0
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,396,167	0	1,396,167
Total Energy Delivery	3,382,547	0	3,382,547

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH Jul-18

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	3,739	0	3,739

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

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

PART A: SOURCES OF ENERGY

Reporting Month Aug-18

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	2,210,019	0	2,210,019
Energy Receipts from other sources	1,884,076	0	1,884,076
Total Energy Receipts	4,094,095	0	4,094,095

PART B: DELIVERY OF ENERGY

Reporting Month Aug-18

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	1,902,878	0	1,902,878
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	36,925	0	36,925
Municipal-Owned Electric Systems	120,681	0	120,681
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,551,673	0	1,551,673
Total Energy Delivery	3,612,157	0	3,612,157

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

Reporting Month Aug-18

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	1,854,524	0	1,854,524
Other Investor-Owned Electric Utilities			
Cooperatively-Owned Electric System			0
Municipally-Owned Electric Systems			0
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,430,032	0	1,430,032
Total Energy Delivery	3,284,556	0	3,284,556

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH Aug-18

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	481,938	0	481,938

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

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

PART A: SOURCES OF ENERGY

Reporting Month Sep-18

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	1,902,878	0	1,902,878
Energy Receipts from other sources	1,728,940	0	1,728,940
Total Energy Receipts	3,631,818	0	3,631,818

PART B: DELIVERY OF ENERGY

Reporting Month Sep-18

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	2,265,949	0	2,265,949
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	32,166	0	32,166
Municipal-Owned Electric Systems	104,988	0	104,988
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,402,353	0	1,402,353
Total Energy Delivery	3,805,456	0	3,805,456

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

Reporting Month Sep-18

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	1,883,131	0	1,883,131
Other Investor-Owned Electric Utilities			
Cooperatively-Owned Electric System			0
Municipally-Owned Electric Systems			0
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,296,903	0	1,296,903
Total Energy Delivery	3,180,034	0	3,180,034

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH Sep-18

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	(173,638)	0	(173,638)

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

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

PART A: SOURCES OF ENERGY

Reporting Month Oct-18

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	2,252,177	0	2,252,177
Energy Receipts from other sources	1,400,484	0	1,400,484
Total Energy Receipts	3,652,661	0	3,652,661

PART B: DELIVERY OF ENERGY

Reporting Month Oct-18

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	1,985,524	0	1,985,524
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	31,316	0	31,316
Municipal-Owned Electric Systems	96,054	0	96,054
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,564,668	0	1,564,668
Total Energy Delivery	3,677,562	0	3,677,562

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

Reporting Month Oct-18

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	1,659,686	0	1,659,686
Other Investor-Owned Electric Utilities			
Cooperatively-Owned Electric System			0
Municipally-Owned Electric Systems			0
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,460,381	0	1,460,381
Total Energy Delivery	3,120,067	0	3,120,067

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH Oct-18

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	(24,901)	0	(24,901)

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

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

PART A: SOURCES OF ENERGY

Reporting Month Nov-18

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	1,979,882	0	1,979,882
Energy Receipts from other sources	1,649,797	0	1,649,797
Total Energy Receipts	3,629,679	0	3,629,679

PART B: DELIVERY OF ENERGY

Reporting Month Nov-18

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	1,813,704	0	1,813,704
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	33,847	0	33,847
Municipal-Owned Electric Systems	93,651	0	93,651
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,572,129	0	1,572,129
Total Energy Delivery	3,513,331	0	3,513,331

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

Reporting Month Nov-18

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	1,513,016	0	1,513,016
Other Investor-Owned Electric Utilities			
Cooperatively-Owned Electric System			0
Municipally-Owned Electric Systems			0
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,476,054	0	1,476,054
Total Energy Delivery	2,989,070	0	2,989,070

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH Nov-18

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	116,348	0	116,348

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

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

PART A: SOURCES OF ENERGY

Reporting Month Dec-18

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	2,021,246	0	2,021,246
Energy Receipts from other sources	1,824,979	0	1,824,979
Total Energy Receipts	3,846,225	0	3,846,225

PART B: DELIVERY OF ENERGY

Reporting Month Dec-18

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	2,098,732	0	2,098,732
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	37,326	0	37,326
Municipal-Owned Electric Systems	98,653	0	98,653
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,632,978	0	1,632,978
Total Energy Delivery	3,867,689	0	3,867,689

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

Reporting Month Dec-18

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	1,748,457	0	1,748,457
Other Investor-Owned Electric Utilities			
Cooperatively-Owned Electric System			
Municipally-Owned Electric Systems			
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,541,748	0	1,541,748
Total Energy Delivery	3,290,205	0	3,290,205

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH Dec-18

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	(21,464)	0	(21,464)

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

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month JANUARY

Megawatts	3,984	Day of Week	Tuesday	Day of Month	2	Hour of Peak	9:00
CURTAILMENT PRIORITY CLASSES				Firm Transmission Service	Non-Firm Transmission Service	Total	
Number of Requests				31	0	31	
Requests (MW)				7,092	0	7,092	
Number of requests accepted				6	0	6	
Requests accepted (MW)				1,174	0	1174	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				5,918	0	5,918	Withdrawn/Invalid/ Refused/Declined/ Annulled/Retracted

Reporting Month FEBRUARY

Megawatts	3,385	Day of Week	Friday	Day of Month	2	Hour of Peak	8:00
CURTAILMENT PRIORITY CLASSES				Firm Transmission Service	Non-Firm Transmission Service	Total	
Number of Requests				31	0	31	
Requests (MW)				7,092	0	7,092	
Number of requests accepted				6	0	6	
Requests accepted (MW)				1,174	0	1,174	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				5,918	0	5,918	Withdrawn/Invalid/ Refused/Declined/ Annulled/Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month MARCH

Megawatts	3,070	Day of Week	Wednesday	Day of Month	14	Hour of Peak	8:00
CURTAILMENT PRIORITY CLASSES				Firm Transmission Service	Non-Firm Transmission Service	Total	
Number of Requests				31	0	31	
Requests (MW)				7,092	0	7,092	
Number of requests accepted				6	0	6	
Requests accepted (MW)				1,174	0	1174	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				5,918	0	5,918	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month APRIL

Megawatts	2,937	Day of Week	Thursday	Day of Month	5	Hour of Peak	7:00
CURTAILMENT PRIORITY CLASSES				Firm Transmission Service	Non-Firm Transmission Service	Total	
Number of Requests				31	0	31	
Requests (MW)				7,092	0	7,092	
Number of requests accepted				6	0	6	
Requests accepted (MW)				1,174	0	1,174	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				5,918	0	5,918	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month MAY

Megawatts	3,974	Day of Week	Thursday	Day of Month	31	Hour of Peak	15:00
CURTAILMENT PRIORITY CLASSES				Firm Transmission Service	Non-Firm Transmission Service	Total	
Number of Requests				31	0	31	
Requests (MW)				7,092	0	7,092	
Number of requests accepted				6	0	6	
Requests accepted (MW)				1,174	0	1174	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				5,918	0	5,918	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month JUNE

Megawatts	4,360	Day of Week	Monday	Day of Month	18	Hour of Peak	14:00
CURTAILMENT PRIORITY CLASSES				Firm Transmission Service	Non-Firm Transmission Service	Total	
Number of Requests				32	0	32	
Requests (MW)				7,317	0	7,317	
Number of requests accepted				7	0	7	
Requests accepted (MW)				1,399	0	1,399	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				5,918	0	5,918	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month JULY

Megawatts	4,305	Day of Week	Thursday	Day of Month	5	Hour of Peak	15:00
CURTAILMENT PRIORITY CLASSES				Firm Transmission Service	Non-Firm Transmission Service	Total	
Number of Requests				32	0	32	
Requests (MW)				7,317	0	7,317	
Number of requests accepted				7	0	7	
Requests accepted (MW)				1,399	0	1,399	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				5,918	0	5,918	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month AUGUST

Megawatts	4,226	Day of Week	Tuesday	Day of Month	28	Hour of Peak	18:00
CURTAILMENT PRIORITY CLASSES				Firm Transmission Service	Non-Firm Transmission Service	Total	
Number of Requests				32	0	32	
Requests (MW)				7,317	0	7,317	
Number of requests accepted				7	0	7	
Requests accepted (MW)				1,399	0	1,399	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				5,918	0	5,918	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month SEPTEMBER

Megawatts	4,305	Day of Week	Tuesday	Day of Month	4	Hour of Peak	14:00
CURTAILMENT PRIORITY CLASSES				Firm Transmission Service	Non-Firm Transmission Service	Total	
Number of Requests				32	0	32	
Requests (MW)				7,317	0	7,317	
Number of requests accepted				7	0	7	
Requests accepted (MW)				1,399	0	1,399	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				5,918	0	5,918	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month OCTOBER

Megawatts	3,856	Day of Week	Monday	Day of Month	8	Hour of Peak	15:00
CURTAILMENT PRIORITY CLASSES				Firm Transmission Service	Non-Firm Transmission Service	Total	
Number of Requests				32	0	32	
Requests (MW)				7,317	0	7,317	
Number of requests accepted				7	0	7	
Requests accepted (MW)				1,399	0	1,399	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				5,918	0	5,918	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month NOVEMBER

Megawatts	3,322	Day of Week	Tuesday	Day of Month	27	Hour of Peak	19:00
CURTAILMENT PRIORITY CLASSES				Firm Transmission Service	Non-Firm Transmission Service	Total	
Number of Requests				32	0	32	
Requests (MW)				7,317	0	7,317	
Number of requests accepted				7	0	7	
Requests accepted (MW)				1,399	0	1,399	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				5,918	0	5,918	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month DECEMBER

Megawatts	3,337	Day of Week	Tuesday	Day of Month	11	Hour of Peak	8:00
CURTAILMENT PRIORITY CLASSES				Firm Transmission Service	Non-Firm Transmission Service	Total	
Number of Requests				35	9	44	
Requests (MW)				8,017	936	8,953	
Number of requests accepted				7	9	16	
Requests accepted (MW)				1,399	936	2,335	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				6,618	0	6,618	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

DUKE ENERGY OHIO
4901:5-5-04(C) (1) (a)
FORM FE-T7: CHARACTERISTICS OF EXISTING TRANSMISSION LINES

WHOLLY OWNED TRANSMISSION LINES DESIGNED FOR 138 KV OPERATION

CIRCUIT NO. DEO-A	LINE NAME	ORIGIN	TERMINUS	SUMMER MVA		WINTER MVA		VOLTAGE		LENGTH (MILES)	WIDTH (FEET)	SUPPORTING STRUCTURES	NUMBER OF CIRCUITS	SUBSTATIONS ON THE LINE
				NORMAL RATING	EMERG. RATING	NORMAL RATING	EMERG. RATING	OPER. LEVEL	DESIGN LEVEL					
684	Elmwood-Lateral	Elmwood	Lateral											
	Section 1			226	275	302	336	138	138	1.34	100	Wood Pole	1	
	Section 2			226	275	302	336	138	138	2.37	100	Steel Tower	2	
689	Elmwood-Terminal	Elmwood	Terminal	261	318	349	389	138	138	1.40	100	Wood Pole	1	
885	Oakley-Red Bank	Oakley	Red Bank	282	343	377	421	138	138	1.09	100	Steel Tower	2	
886	Oakley-Beckjord	Oakley	Beckjord											
	Section 1	Oakley	Beckjord	282	343	377	421	138	138	16.45	100	Steel Tower	2	
	Section 2	Tower No. 150	Summerside	301	301	378	378	138	138	1.98	50	Steel Pole & Wood Pole	1	
1180	Ashland-Whittier	Ashland	Whittier											
	Section 1			230	280	308	343	138	138	0.18	100	Steel Pole	1	
	Section 2			230	280	308	343	138	138	0.31	100	Steel Tower	2	
	Section 3			230	280	308	343	138	138	0.48	50	Steel Pole & Wood Pole	1	
1263	Mitchell-Brighton	Mitchell	Brighton	92	111	123	136	69	138	4.2	100	Steel Tower	2	
1269	Central-Ashland	Tower No. 38	Tower No. 54	98	98	122	122	69	138	2.98	100	Steel Tower	2	
1284	Mitchell-Terminal	Mitchell	Terminal	234	284	312	343	138	138	3.61	100	Steel Tower	2	Henkel Corp.
1286	Mitchell-West End	Mitchell	West End	230	280	308	343	138	138	8.18	100	Steel Tower	2	Cumminsville, Queensgate, Metro Sewer Dist.
1288	Mitchell-Central	Mitchell	Central	230	280	308	343	138	138	2.3	100	Steel Tower	2	
1385	Charles-West End	Charles	West End	234	245	267	277	138	138	1.11	100	Underground	1	
1389	Charles-West End	Charles	West End	234	245	267	277	138	138	1.12	100	Underground	1	
1587	West End-Crescent	West End	Ohio/Ky. St. Line	226	275	302	336	138	138	0.3	100	Steel Tower	1	
1681	Miami Fort-Greendale	Miami Fort	Ohio/Ind. St. Line	500	500	679	679	138	138	0.86	100	Steel Tower & Wood Pole	1	
1682	Miami Fort-Clifty Creek	Miami Fort	Ohio/Ky. St. Line	136	136	181	181	138	138	0.3	100	Wood H-Frame	1	
1683	Miami Fort-Hebron	Ohio/Ky. St. Line	Miami Fort	204	248	273	303	138	138	0.13	100	Steel Tower	2	
1688	Miami Fort-MFGT	Miami Fort	Miami Fort GT	226	275	302	336	138	138	0.34	100	Wood Pole	1	
1689	Miami Fort-Morgan	Miami Fort	Morgan	226	275	302	336	138	138	8.16	100	Steel Tower	2	
1762	Trenton-Terminal	Trenton	Terminal											
	Section 1			77	92	102	113	69	138	0.45	100	Steel Tower	1	
	Section 2			77	92	102	113	69	138	1.2	100	Wood Pole	1	
1782	Terminal-Glenview	Terminal	Glenview											
	Section 1			230	280	308	343	138	138	5.03	100	Steel Tower	2	
	Section 2			230	280	308	343	138	138	0.6	100	Wood H-Frame	1	
1783	Terminal-Ebenezer	Terminal	Ebenezer											
	Section 1			234	284	312	349	138	138	9.98	100	Steel Tower	2	
	Section 2			234	284	312	349	138	138	3.64	100	Wood Pole	1	
	Section 3			234	284	312	349	138	138	0.13	100	Wood H-Frame	1	Midway
1880	Beckjord-Silver Grove	Beckjord	Ohio/Ky. St. Line											
	Section 1			253	308	339	377	138	138	1	100	Wood Pole	1	
	Section 2			253	308	339	377	138	138	0.25	100	Steel Tower	2	
1881	Beckjord-Wilder	Beckjord	Ohio/Ky. St. Line	166	201	221	245	138	138	0.32	100	Steel Tower	2	
1885	Beckjord-Tobasco	Beckjord	Tobasco	282	343	377	421	138	138	5.84	100	Steel Tower	2	
1887	Beckjord-Pierce	Beckjord	Pierce	478	478	478	478	138	138	0.38	50	Wood Pole & Steel Tower	1	
1889	Beckjord-Pierce	Beckjord	Pierce	478	478	478	478	138	138	0.22	100	Steel Tower	1	
2166	Brighton-Wilder	Brighton	Ohio/Ky. St. Line	83	101	111	123	69	138	3.65	100	Steel Tower	2	
2381	Warren-Clinton County	Warren	Clinton County	170	206	227	252	138	138	16.32	100	Wood H-Frame	1	
2862	Miami Fort GT-Hebron	Miami Fort GT	Ohio/Ky. St. Line	83	101	111	123	69	138	0.14	100	Steel Tower	2	
2865	Miami Fort GT-INEOS	Miami Fort GT	Tower No. 30	113	137	151	168	69	138	6.39	100	Steel Tower	2	
2986	Cedarville-Ford	Cedarville	Ford											
	Section 1			253	308	339	378	138	138	5.02	100	Wood Pole	1	
	Section 2			253	308	339	378	138	138	4.86	100	Wood Pole	1	

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FORM FE-T7: CHARACTERISTICS OF EXISTING TRANSMISSION LINES

WHOLLY OWNED TRANSMISSION LINES DESIGNED FOR 138 KV OPERATION

CIRCUIT NO. DEO-A	LINE NAME	ORIGIN	TERMINUS	SUMMER MVA		WINTER MVA		VOLTAGE		LENGTH (MILES)	WIDTH (FEET)	SUPPORTING STRUCTURES	NUMBER OF CIRCUITS	SUBSTATIONS ON THE LINE
				NORMAL RATING	EMERG. RATING	NORMAL RATING	EMERG. RATING	OPER. LEVEL	DESIGN LEVEL					
3263	Trenton-Air Products	Tower No.1	Tower No. 17	83	101	111	123	69	138	2.77	100	Steel Tower	1	
3281	Trenton-College Corner	Trenton	Ohio/Ind. St. Line	153	184	203	225	138	138	24.11	100	Steel Tower	2	Collinsville, BREC Huston
3283	N/A	Structure 696	Structure 645A	170	206	227	252	138	138	3.94	90	Wood H-Frame		
3284	Trenton-Todhunter	Trenton	Todhunter	302	302	337	337	138	138	4.9	100	Wood H-Frame	1	
3881	Port Union-Summerside													
	Section 1	Port Union	Summerside	198	198	249	249	138	138	22.74	100	Steel Tower	2	
	Section 2	Tower No. 141	Cornell	266	266	333	333	138	138	2.87	50	Wood Pole	1	Cornell
3885	Port Union-Fairfield	Port Union	Fairfield	310	310	310	310	138	138	6.59	100	Steel Tower	2	Hall, Provident
3886	Port Union-Fairfield	Port Union	Fairfield	198	198	249	249	138	138	6.75	100	Steel Tower	2	Mulhauser
3887	Port Union-Todhunter	Port Union	Todhunter	304	304	390	390	138	138	9.69	100	Steel Tower	2	Millikin
3888	Port Union-Todhunter	Port Union	Todhunter	304	304	390	390	138	138	9.69	100	Steel Tower	2	Beckett
3889	Port Union-City of Hamilton	Port Union	City of Hamilton	253	308	339	377	138	138	4.65	100	Wood Pole	1	Seward
3981	Central-Oakley	Central	Oakley	230	280	308	343	138	138	2.9	100	Steel Tower	2	
3985	Central-Ashland	Central	Ashland	230	280	308	343	138	138	3.43	100	Steel Tower	2	
4187	Lateral-Red Bank	Lateral	Red Bank	230	280	308	343	138	138	2.9	100	Steel Tower	2	
4861	Ivorydale-Terminal	Tower No. 1	Tower No. 5	83	101	111	123	69	138	0.9	100	Steel Tower	2	
5381	Shaker Run-Rockies Express													
	Section 1	Structure 69B	Rockies Express	478	478	478	478	138	138	0.67	50	Steel Pole	1	
	Section 2	Rockies Express	Carlisle	287	287	287	287	138	138	10.58	50	Wood Pole	1	Carlisle, Union
5483	Foster-Port Union													
	Section 1	Port Union	Montgomery	226	275	302	336	138	138	9.19	100	Steel Tower	2	Dimmick, Montgomery
	Section 2	Foster	Tower No. 133	298	298	374	374	138	138	5.9	50	Wood Pole	1	Simpson, Socialville, Twenty Mile
5487	Foster-Remington	Foster	Remington											
	Section 1			253	308	339	378	138	138	13.4	100	Steel Tower	2	Montgomery
	Section 2			170	206	227	252	138	138	4.45	100	Wood Pole	1	Enyart
5489	Foster-Cedarville	Foster	Cedarville	253	308	339	378	138	138	12.23	100	Wood Pole	1	Obannonville
5484	Foster-Warren	Foster	Warren	253	308	339	378	138	138	8.7	100	Wood pole	1	Maineville, Columbia
5667	Todhunter-Shaker Run	Todhunter	Structure 645A	83	101	111	123	69	138	5.14	100	Wood H-Frame	1	
5680	Todhunter-Warren	Todhunter	Warren	301	301	378	378	138	138	9.55	90	Steel H-Frame	1	Nickel
5682	Todhunter-AK Steel	Todhunter	AK Steel	300	300	300	300	138	138	2.34	100	Steel Tower	2	
5686	Todhunter-AK Steel	Todhunter	AK Steel											
	Section 1			300	300	300	300	138	138	2.34	100	Steel Tower	2	
	Section 2			170	206	227	252	138	138	0.33	100	Steel Tower	1	Dicks Creek
5689	Todhunter-Rockies Express	Structure 69B	Rockies Express	478	478	478	478	138	138	0.63	50	Steel Pole	1	
5781	Fairfield-City of Hamilton	Fairfield	City of Hamilton	253	308	339	378	138	138	6.05	100	Wood Pole	1	
5783	Fairfield-Morgan	Fairfield	Morgan	166	201	221	245	138	138	16.5	100	Steel Tower	2	
5884	Brown-Eastwood	Brown	Eastwood	253	308	339	378	138	138	13	100	Wood H-Frame	1	
5886	Brown-Stuart	Brown	Stuart	234	285	213	349	138	138	21.16	100	Wood H-Frame	1	
5985	Wilder-West End	Ohio/Ky. St. Line	West End	253	287	339	351	138	138	0.2	100	Steel Tower	2	
5988	Wilder-Beckjord	Ohio/Ky. St. Line	Beckjord	226	275	302	336	138	138	0.37	100	Steel Tower	2	
6365	Tobasco-Markley	Pole No. 601	Markley	83	101	111	122	69	138	1.7	100	Wood Pole	1	
6864	Miami Fort GT-Ebenezer	Miami Fort GT	Tower No. 30	83	101	111	123	69	138	6.39	100	Steel Tower	2	
6885	Ebenezer-Miami Fort	Ebenezer	Miami Fort											
	Section 1			228	280	313	350	138	138	10.26	100	Steel Tower	2	
	Section 2			226	275	302	336	138	138	4.92	100	Wood Pole	1	
6984	Summerside-Beckjord	Summerside	Beckjord	310	310	310	310	138	138	10.44	100	Steel Tower	2	Clermont
7284	Glenview-Miami Fort	Glenview	Miami Fort											
	Section 1			230	248	308	342	138	138	0.6	100	Wood H-Frame	1	
	Section 2			230	280	308	342	138	138	15.07	100	Steel Tower	2	Kleeman
	Section 3			185	224	246	273	138	138	0.12	100	Wood H-Frame	1	Midway

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WHOLLY OWNED TRANSMISSION LINES DESIGNED FOR 138 KV OPERATION

CIRCUIT NO. DEO-A	LINE NAME	ORIGIN	TERMINUS	SUMMER MVA		WINTER MVA		VOLTAGE		LENGTH (MILES)	WIDTH (FEET)	SUPPORTING STRUCTURES	NUMBER OF CIRCUITS	SUBSTATIONS ON THE LINE
				NORMAL RATING	EMERG. RATING	NORMAL RATING	EMERG. RATING	OPER. LEVEL	DESIGN LEVEL					
7481	Red Bank-Terminal													
	Section 1	Tower 117	Cornell	344	423	463	518	138	138	9.1	100	Wood Pole	1	Deer Park
	Section 2	Pole 1493	Cooper	226	274	302	336	138	138	1.19	50	Wood Pole	1	Cooper
7484	Red Bank-Ashland	Red Bank	Ashland											
	Section 1			240	300	240	300	138	138	0.96	100	Steel Tower	2	
	Section 2			240	300	240	300	138	138	0.12	100	Wood Pole	1	
	Section 3			240	300	240	300	138	138	4.24	100	Underground	1	
7489	Red Bank-Tobasco	Red Bank	Tobasco											
	Section 1			282	344	378	421	138	138	9.64	100	Steel Tower	2	
	Section 2			282	344	378	421	138	138	0.07	100	Wood Pole	1	
8281	Rochelle-Whittier	Rochelle	Whittier	289	289	289	289	138	138	1.2	50	Underground	1	
8368	Yankee-Manchester	Tower No. 17	Tower No. 20	113	137	151	168	69	138	0.55	100	Steel Tower	1	
8283	Rochelle-Charles	Rochelle	Charles	269	282	307	318	138	138	2.38	100	Underground	1	
8286	Rochelle-Terminal	Rochelle	Terminal											
	Section 1			234	287	307	318	138	138	3.56	100	Steel Tower	2	
	Section 2			234	287	307	318	138	138	1.25	100	Wood Pole	1	
	Section 3			234	282	307	318	138	138	1.32	100	Underground	1	
8481	Eastwood-Ford	Eastwood	Ford											
	Section 1			253	308	339	378	138	138	4.97	100	Wood Pole	1	
	Section 2			253	308	339	378	138	138	1.5	100	Wood Pole	1	
8887	Hillcrest-Eastwood	Hillcrest	Eastwood	306	306	382	382	138	138	9.63	50	Wood pole	1	SCP Eastwood
9482	Remington-Beckjord	Remington	Beckjord	310	310	310	310	138	138	19.08	100	Steel Tower	2	Feldman, Wards Corner
9782	Willey-Fairfield	Willey	Fairfield	198	198	249	249	138	138	8.1	100	Steel Tower	2	
9784	Willey-Miami Fort	Willey	Miami Fort	170	206	227	252	138	138	14.95	100	Steel Tower	2	
9787	Willey-Terminal	Willey	Terminal											
	Section 1			226	275	302	336	138	138	5.68	100	Wood H-Frame	1	Mapleknoll
	Section 2			226	275	302	336	138	138	11.71	100	Wood Pole	1	Mt. Healthy, Finneytown
	Section 3			226	275	302	336	138	138	0.5	100	Steel Tower	2	
13803	Hutchings-College Corner													
	Section 1	Structure 1101	Trenton	170	206	227	252	138	138	4.91	100	Wood H-Frame	1	
	Section 2	Trenton	Tower 129	170	206	227	252	138	138	24.06	100	Steel Tower	2	

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FORM FE-T7: CHARACTERISTICS OF EXISTING TRANSMISSION LINES

WHOLLY OWNED TRANSMISSION LINES DESIGNED FOR 345 KV OPERATION

CIRCUIT NO. DEO-B	LINE NAME	ORIGIN	TERMINUS	SUMMER MVA		WINTER MVA		VOLTAGE		LENGTH (MILES)	WIDTH (FEET)	SUPPORTING STRUCTURES	NUMBER OF CIRCUITS	SUBSTATIONS ON THE LINE
				NORMAL RATING	EMERG. RATING	NORMAL RATING	EMERG. RATING	OPER. LEVEL	DESIGN LEVEL					
02	Pierce-Foster	Pierce	Foster											
	Section 1			1195	1315	1195	1315	345	345	23.38	150	Steel Tower	2	
	Section 2			1195	1315	1195	1315	345	345	0.57	150	Steel Tower	1	
04	Miami Fort-Tanners Creek	Miami Fort	Ohio/Ky. St. Line	1195	1315	1195	1315	345	345	0.32	150	Steel Tower	2	
08	Port Union-Foster	Port Union	Foster											
	Section 1			1195	1315	1195	1315	345	345	11.66	150	Steel Tower	2	
	Section 2			1195	1315	1195	1315	345	345	0.24	150	Steel Tower	1	
11	Stuart-Hillcrest	Stuart	Hillcrest	1255	1374	1255	1374	345	345	32.61	150	Steel Tower	1	
13	Terminal-Port Union	Terminal	Port Union											
	Section 1			1195	1315	1195	1315	345	345	0.46	150	Steel Tower	1	
	Section 2			1195	1315	1195	1315	345	345	9.65	150	Steel Tower	2	
14	Miami Fort-Terminal													
	Section 1	Terminal	Ohio/Ky. St. Line	1195	1315	1195	1315	345	345	14.3	150	Steel Tower	2	
	Section 2	Miami Fort	Ohio/Ky. St. Line	1195	1315	1195	1315	345	345	0.32	150	Steel Tower	2	
15	Foster-Garver	Foster	Garver	1195	1315	1195	1315	345	345	15.79	150	Steel Tower	2	
16	East Bend-Terminal	Ohio/Ky. St. Line	Terminal	1195	1315	1195	1315	345	345	14.84	150	Steel Tower	2	
24	Foster-Sugarcreek	Foster	Tower 1021A	1257	1554	1745	1947	345	345	3.2	150	Steel Tower	2	
41	Spurlock-Meldahl Dam	Tower #36	Meldahl Dam	1195	1315	1195	1315	345	345	21.78	150	Steel Tower	1	
44	Zimmer-Port Union	Zimmer	Port Union											
	Section 1			1195	1315	1195	1315	345	345	35.88	150	Steel Tower	2	
	Section 2			1195	1315	1195	1315	345	345	10.03	150	Steel Tower	1	
45	Zimmer-Red Bank													
	Section 1	Zimmer	Ohio/Ky. St. Line	1264	1538	1264	1538	345	345	0.43	150	Steel Tower	1	
	Section 2	Red Bank	Tower No. 24	1195	1315	1195	1315	345	345	10.58	150	Steel Tower	2	
	Section 3	Tower No. 23	Ohio/Ky. St. Line	1195	1315	1195	1315	345	345	0.8	150	Steel Tower	1	
46	Red Bank-Terminal	Red Bank	Terminal											
	Section 1			1195	1315	1195	1315	345	345	5.75	150	Steel Pole	2	
	Section 2			1195	1315	1195	1315	345	345	0.9	150	Steel Tower	2	
61	Woodsdale-Todhunter	Woodsdale	Todhunter	1195	1315	1195	1315	345	345	4.68	150	Steel Tower	2	
62	Woodsdale-Todhunter	Woodsdale	Todhunter	1195	1315	1195	1315	345	345	4.68	150	Steel Tower	2	
69	Hillcrest-Foster	Hillcrest	Foster	1551	1551	1793	1793	345	345	26.36	150	Steel Tower	1	
76	Zimmer-Meldahl Dam	Zimmer	Meldahl Dam											
	Section 1			1195	1315	1195	1315	345	345	6.57	150	Steel Tower	1	
	Section 2			1195	1315	1195	1315	345	345	0.78	150	Steel Tower	2	
82	Garver-Todhunter	Garver	Todhunter	1195	1315	1195	1315	345	345	1.79	150	Steel Tower	2	
91	Miami Fort-West Milton	Miami Fort	Tower No. 173											
	Section 1			1195	1315	1195	1315	345	345	33.25	150	Steel Tower	2	
	Section 2			1195	1315	1195	1315	345	345	1.37	150	Steel Tower	1	
92	Miami Fort-Woodsdale	Miami Fort	Woodsdale											
	Section 1			1195	1315	1195	1315	345	345	33.25	150	Steel Tower	2	
	Section 2			1195	1315	1195	1315	345	345	4.82	150	Steel Tower	1	
98	Foster-Bath	Foster	Tower 1021	1195	1315	1195	1315	345	345	3.2	150	Steel Tower	2	
1883	Beckjord-Red Bank	Beckjord	Red Bank											
	Section 1			282	344	378	421	138	345	0.89	150	Steel Tower	1	
	Section 2			282	344	378	421	138	345	13.82	150	Steel Tower	2	Newtown
4683	Evendale-Port Union	Evendale	Port Union											
	Section 1			344	423	463	518	138	345	0.52	150	Steel Tower	1	
	Section 2			344	423	463	518	138	345	5.48	150	Steel Tower	2	Kemper
4685	Evendale-Terminal	Evendale	Terminal											
	Section 1			382	382	382	382	138	345	0.21	150	Steel Tower	1	
	Section 2			382	382	382	382	138	345	4.02	150	Steel Tower	2	
5381	Shaker Run-Rockies Express	Structure 69A	Rockies Express	478	478	478	478	138	345	2.62	150	Steel Tower	2	
5485	Foster-Shaker Run	Foster	Shaker Run	259	314	345	385	138	345	10.29	150	Steel Tower	2	Park, Bethany
5689	Todhunter-Rockies Express	Todhunter	Structure 69B	478	478	478	478	138	345	6.44	150	Steel Tower	2	
7481	Red Bank-Terminal	Red Bank	Terminal	344	423	463	518	138	345	5.72	150	Steel Twr. & Pole	2	Golf Manor

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FORM FE-T8: SUMMARY OF EXISTING SUBSTATIONS

SUBSTATION NAME	TYPE*	VOLTAGE(S) (KV)	LINE NAME	LINE NUMBER	EXISTING OR PROPOSED
AK Steel	T	138	Todhunter-AK Steel	5682	Existing
			Todhunter-AK Steel	5686	Existing
			Dicks Creek-AK Steel	1985	Proposed
			Garver-AK Steel	7583	Proposed
Ashland	T&D	138	Ashland-Whittier	1180	Existing
			Central-Ashland	3985	Existing
			Red Bank-Ashland	7484	Existing
Beckett	D	138	Port Union-Todhunter	3888	Existing
Beckjord	T	345 & 138	Oakley-Beckjord	886	Existing
			Beckjord-Silver Grove	1880	Existing
			Beckjord-Red Bank	1883	Existing
			Beckjord-Tabasco	1885	Existing
			Beckjord-Pierce	1887	Existing
			Beckjord-Pierce	1889	Existing
			Remington-Beckjord	9482	Existing
			Beckjord-Wilder	1881	Existing
			Wilder-Beckjord	5988	Existing
			Summerside-Beckjord	6984	Existing
Bethany	D	138	Foster-Shaker Run	5485	Existing
BREC Huston	T	138	Trenton-College Corner	3281	Existing
Brighton	D	69	Mitchell-Brighton	1263	Existing
Brown	D	138	Brown-Stuart	5886	Existing
			Brown-Eastwood	5884	Existing
Carlisle	D	138	Shaker Run-Rockies Express	5381	Existing
Cedarville	D	138	Foster-Cedarville	5489	Existing
			Cedarville-Ford	2986	Existing
Central	D	138	Mitchell-Central	1288	Existing
			Central-Oakley	3981	Existing
			Central-Ashland	3985	Existing
Charles	D	138	Charles-West End	1385	Existing
			Charles-West End	1389	Existing
			Rochelle-Charles	8283	Existing
Cinti. M.S.D.	T	138	Mitchell-West End	1286	Existing
City of Hamilton	T	138	Port Union-City of Ham.	3889	Existing
			Fairfield-City of Hamilton	5781	Existing
Clermont	D	138	Summerside-Beckjord	6984	Existing
Clinton County	D	138	Warren-Clinton Co.	2381	Existing
Collinsville	D	138	Trenton-College Corner	3281	Existing
Columbia	D	138	Foster-Warren	5484	Existing
Cooper	D	138	Red Bank-Terminal	7481	Existing
Cornell	D	138	Red Bank-Terminal	7481	Existing
			Port Union-Summerside	3881	Existing
Cumminsville	D	138	Mitchell-West End	1286	Existing
Deer Park	D	138	Red Bank-Terminal	7481	Existing
Dicks Creek	T	138	Todhunter-AK Steel	5686	Existing
			Todhunter-Dicks Creek	5682	Proposed
			Dicks Creek-AK Steel	1985	Proposed
Dimmick	D	138	Foster-Port Union	5483	Existing

* DISTRIBUTION(D) TRANSMISSION (T)

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FORM FE-T8: SUMMARY OF EXISTING SUBSTATIONS

SUBSTATION NAME	TYPE*	VOLTAGE(S) (KV)	LINE NAME	LINE NUMBER	EXISTING OR PROPOSED
Eastwood	D	138	Brown-Eastwood	5884	Existing
			Eastwood-Ford	8481	Existing
			Hillcrest-Eastwood	8887	Existing
Ebenezer	D	138	Terminal-Ebenezer	1783	Existing
			Ebenezer-Miami Fort	6885	Existing
Elmwood	D	138	Elmwood-Lateral	684	Existing
			Elmwood-Terminal	689	Existing
Enyart	D	138	Foster-Remington	5487	Existing
Evendale	D	138	Evendale-Port Union	4683	Existing
			Evendale-Terminal	4685	Existing
Fairfield	D	138	Fairfield-Morgan	5783	Existing
			Port Union-Fairfield	3885	Existing
			Fairfield-City of Hamilton	5781	Existing
			Port Union-Fairfield	3886	Existing
			Willey-Fairfield	9782	Existing
Feldman	D	138	Remington-Beckjord	9482	Existing
Finneytown	D	138	Willey-Terminal	9787	Existing
Ford-Batavia	D	138	Foster-Ford-Batavia	5489	Existing
			Brown-Ford-Batavia	5884	Existing
Foster	T	345 & 138	Foster-Port Union	5483	Existing
			Foster-Warren	5484	Existing
			Foster-Shaker Run	5485	Existing
			Foster-Remington	5487	Existing
			Foster-Cedarville	5489	Existing
			Pierce-Foster	4502	Existing
			Hillcrest-Foster	34569	Existing
			Port Union-Foster	4508	Existing
			Foster-Sugarcreek	4524	Existing
			Foster-Garver	4515	Existing
Garver	T	345	Foster-Garver	4515	Existing
			Todhunter-Garver	34582	Existing
			Garver-Rockies Express	7581	Proposed
			Garver-Todhunter	5689	Proposed
			Garver-Carlisle	7582	Proposed
			Garver-AK Steel	7583	Proposed
Glenview	D	138	Terminal-Glenview	1782	Existing
			Miami Fort-Glenview	7284	Existing
Golf Manor	D	138	Red Bank-Terminal	7481	Existing
Hall	D	138	Port Union-Fairfield	3885	Existing
Henkel Corp.	D	138	Mitchell-Terminal	1284	Existing
Hillcrest	T & D	345 & 138	Stuart-Hillcrest	4511	Existing
			Foster-Hillcrest	34569	Existing
			Hillcrest-Eastwood	8887	Existing
Kemper	D	138	Evendale-Port Union	4683	Existing
Kleeman	D	138	Glenview-Miami Fort	7284	Existing
Lateral	D	138	Elmwood-Lateral	684	Existing
			Lateral-Red Bank	4187	Existing

* DISTRIBUTION(D) TRANSMISSION (T)

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FORM FE-T8: SUMMARY OF EXISTING SUBSTATIONS

SUBSTATION NAME	TYPE*	VOLTAGE(S) (KV)	LINE NAME	LINE NUMBER	EXISTING OR PROPOSED
Maineville	D	138	Foster-Warren	5484	Existing
Mapleknoll	D	138	Willey-Terminal	9787	Existing
Meldahl Dam	T	345	Zimmer-Meldahl Dam	34576	Existing
			Spurlock- Meldahl Dam	4541	Existing
Miami Fort	T	345 & 138	Miami Fort-Greendale	1681	Existing
			Miami Fort-Clifty Creek	1682	Existing
			Miami Fort-Hebron	1683	Existing
			Miami Fort-MFGT	1688	Existing
			Miami Fort-Morgan	1689	Existing
			Ebenezer-Miami Fort	6885	Existing
			Glenview-Miami Fort	7284	Existing
			Willey-Miami Fort	9784	Existing
			Miami Fort-Miami	4591	Existing
			Miami Fort-Woodsdale	4592	Existing
			Miami Fort-Tanners Creek	4504	Existing
			Miami Fort-Terminal	4514	Existing
Miami Fort GT	T	138	Miami Fort-MFGT	1688	Existing
			MFGT-Hebron	2862	Existing
			MFGT-INEOS	2865	Existing
			MFGT-Ebenezer	6864	Existing
Midway	D	138	Terminal-Ebenezer	1783	Existing
			Miami Fort-Glenview	7284	Existing
Millikin	D	138	Port Union-Todhunter	3887	Existing
Mitchell	D	138	Mitchell-Brighton	1263	Existing
			Mitchell-Terminal	1284	Existing
			Mitchell-West End	1286	Existing
			Mitchell-Central	1288	Existing
			Mitchell-South Fairmount	1286	Proposed
Montgomery	D	138	Foster-Remington	5487	Existing
			Foster-Port Union	5483	Existing
			Montgomery-Port Union	3881	Proposed
			Montgomery-Socialville	TBD	Proposed
			Montgomery-Summerside	TBD	Proposed
Morgan	D	138	Miami Fort-Morgan	1689	Existing
			Fairfield-Morgan	5783	Existing
Mt. Healthy	D	138	Willey-Terminal	9787	Existing
Mulhauser	D	138	Port Union-Fairfield	3886	Existing
Newtown	D	138	Beckjord-Red Bank	1883	Existing
Nickel	D	138	Warren-Todhunter	5680	Existing
Oakley	D	138	Oakley-Red Bank	885	Existing
			Oakley-Beckjord	886	Existing
			Central-Oakley	3981	Existing
OBannonville	D	138	Foster-Cedarville	5489	Existing
Park	D	138	Foster-Shaker Run	5485	Existing

* DISTRIBUTION(D) TRANSMISSION (T)

DUKE ENERGY OHIO
4901:5-5-04(C)(1)(b)
FORM FE-T8: SUMMARY OF EXISTING SUBSTATIONS

SUBSTATION NAME	TYPE*	VOLTAGE(S) (KV)	LINE NAME	LINE NUMBER	EXISTING OR PROPOSED
Port Union	T & D	345 & 138	Port Union-Summerside	3881	Existing
			Foster-Port Union	5483	Existing
			Port Union-Fairfield	3885	Existing
			Port Union-Fairfield	3886	Existing
			Port Union-Todhunter	3887	Existing
			Port Union-Todhunter	3888	Existing
			Port Union-City of Hamilton	3889	Existing
			Evendale-Port Union	4683	Existing
			Zimmer-Port Union	4544	Existing
			Port Union-Foster	4508	Existing
			Terminal-Port Union	4513	Existing
Provident	D	138	Port Union-Fairfield	3885	Existing
Queensgate	D	138	Mitchell-West End	1286	Existing
Red Bank	T	345 & 138	Red Bank-Terminal	7481	Existing
			Lateral-Red Bank	4187	Existing
			Beckjord-Red Bank	1883	Existing
			Red Bank-Ashland	7484	Existing
			Oakley-Red Bank	885	Existing
			Red Bank-Tobasco	7489	Existing
			Red Bank-Terminal	4546	Existing
			Zimmer-Red Bank	4545	Existing
Remington	D	138	Remington-Beckjord	9482	Existing
			Foster-Remington	5484	Existing
Rochelle	D	138	Ridgeway-Whittier	8281	Existing
			Rochelle-Charles	8283	Existing
			Rochelle-Terminal	8286	Existing
Rockies Express	T	138	Shaker Run-Rockies Express	5381	Existing
			Todhunter-Rockies Express	5689	Existing
			Garver-Rockies Express	7581	Proposed
Seward	D	138	Port Union-Hamilton	3889	Existing
Shaker Run	D	138	Foster-Shaker Run	5485	Existing
			Shaker Run-Rockies Express	5381	Existing
Simpson	D	138	Foster-Port Union	5483	Existing
Socialville	D	138	Foster-Port Union	5483	Existing
			Montgomery-Socialville	TBD	Proposed
SCP Eastwood	T	138	Hillcrest-Eastwood	8887	Existing
Summerside	D	138	Beckjord-Oakley-Summerside	886	Existing
			Port Union-Summerside	3881	Existing
			Summerside-Beckjord	6984	Existing
Terminal	T & D	345 & 138	Elmwood-Terminal	689	Existing
			Mitchell-Terminal	1284	Existing
			Terminal-Allen	1762	Existing
			Terminal-Glenview	1782	Existing
			Terminal-Ebenezer	1783	Existing
			Evendale-Terminal	4685	Existing
			Red Bank-Terminal	7481	Existing
			Rochelle-Terminal	8286	Existing
			Willey-Terminal	9787	Existing

* DISTRIBUTION(D) TRANSMISSION (T)

DUKE ENERGY OHIO
4901:5-5-04(C)(1)(b)
FORM FE-T8: SUMMARY OF EXISTING SUBSTATIONS

SUBSTATION NAME	TYPE*	VOLTAGE(S) (KV)	LINE NAME	LINE NUMBER	EXISTING OR PROPOSED
Terminal (continued)	T & D	345 & 138	Terminal-Port Union	4513	Existing
			Miami Fort-Terminal	4514	Existing
			East Bend-Terminal	4516	Existing
			Red Bank-Terminal	4546	Existing
Tobasco	D	138	Beckjord-Tobasco	1885	Existing
			Red Bank-Tobasco	7489	Existing
Todhunter	T & D	345 &138	Trenton-Todhunter	3284	Existing
			Port Union-Todhunter	3887	Existing
			Port Union-Todhunter	3888	Existing
			Todhunter-Monroe	5667	Existing
			Warren-Todhunter	5680	Existing
			Todhunter-AK Steel	5682	Existing
			Todhunter-Dicks Creek	5682	Proposed
			Todhunter-AK Steel	5686	Existing
			Todhunter-Rockies Express	5689	Existing
			Todhunter-Garver	5689	Proposed
			Woodsdale-Todhunter	4561	Existing
			Woodsdale-Todhunter	4562	Existing
			Garver-Todhunter	34582	Existing
Trenton	D	138	Trenton-College Corner	3281	Existing
			Trenton-Todhunter	3284	Existing
			Trenton-Hutchings	13803	Existing
			Trenton-College Corner	13803	Existing
			Trenton-Air Products	3263	Existing
Twenty Mile	D	138	Foster-Port Union	5483	Existing
Union	D	138	Shaker Run-Rockies Express	5381	Existing
			Garver-Carlisle	7582	Proposed
Wards Corner	D	138	Remington-Beckjord	9482	Existing
			Summerside-Port Union	3881	Proposed
Warren	T & D	138	Foster-Warren	5484	Existing
			Warren-Todhunter	5680	Existing
			Warren-Clinton County	2381	Existing
West End	D	138	Mitchell-West End	1286	Existing
			Charles-West End	1385	Existing
			Charles-West End	1389	Existing
			Crescent-West End	1587	Existing
			Wilder-West End	5985	Existing
			South Fairmount-West End	1581	Proposed
Whittier	D	138	Ashland-Whittier	1180	Existing
			Rochelle-Whittier	8281	Existing
Willey	D	138	Willey-Fairfield	9782	Existing
			Willey-Miami Fort	9784	Existing
			Willey-Terminal	9787	Existing
Woodsdale	T	345	Woodsdale-Todhunter	4561	Existing
			Woodsdale-Todhunter	4562	Existing
			Miami Fort-Woodsdale	4592	Existing
Zimmer	T	345	Zimmer-Meldahl Dam	34576	Existing
			Zimmer-Port Union	4544	Existing
			Zimmer-Red Bank	4545	Existing

* DISTRIBUTION(D) TRANSMISSION (T)

DUKE ENERGY OHIO
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FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Foster-Warren DEO-A5484
2.	Point of Origin: Terminus:	Tap Feeder 5484 (Foster side) Columbia Substation (proposed)
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 1,820 feet 50 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	11/6/2018
6.	Construction to Commence: Commercial Operation:	12/2018 12/2019
7.	Capital Investment:	$1,000,000
8.	Substations:	Columbia Substation, 138 kV
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Supply new substation to provide 12.47 kV reliability, distribution system capacity.
12.	Consequences of Line Construction deferment or Termination:	Inability to supply 12.47 kV distribution load.
13.	Miscellaneous:	Area to be served is primarily west-central Warren County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Miami Fort-Clifty Creek DEO-A1682
2.	Point of Origin: Terminus:	Miami Fort Substation Ohio/Kentucky State Line
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 1,800 feet 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	6/2020
6.	Construction to Commence: Commercial Operation:	3/2021 6/2021
7.	Capital Investment:	$5,000,000
8.	Substations:	None
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Permanent re-route of existing line to replace deteriorated structures adjacent to coal ash pond.
12.	Consequences of Line Construction deferment or Termination:	Deteriorated structures will remain in service.
13.	Miscellaneous:	Area to be served is primarily south-west Hamilton County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Rockies Express-Garver DEO-A5689
2.	Point of Origin: Terminus:	Tap Feeder 5689 (Rockies Express side) Garver Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 400 feet 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	1/31/2019
6.	Construction to Commence: Commercial Operation:	3/2019 12/2019
7.	Capital Investment:	$500,000
8.	Substations:	Garver Substation, 345 kV, future 138 kV
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Loop existing Feeder DEO-A5689 through Garver Substation to reinforce the 345 kV and 138 kV transmission systems.
12.	Consequences of Line Construction deferment or Termination:	Overloads of various 345 kV and/or 138 kV system components for various contingencies.
13.	Miscellaneous:	Substation located in east-central Butler County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Todhunter-Garver DEO-A5689
2.	Point of Origin: Terminus:	Tap Feeder 5689 (Todhunter side) Todhunter Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 400 feet 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	1/31/2019
6.	Construction to Commence: Commercial Operation:	3/2019 12/2019
7.	Capital Investment:	$500,000
8.	Substations:	Garver Substation, 345 kV, future 138 kV
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Loop existing Feeder DEO-A5689 through Garver Substation to reinforce the 345 kV and 138 kV transmission systems.
12.	Consequences of Line Construction deferment or Termination:	Overloads of various 345 kV and/or 138 kV system components for various contingencies.
13.	Miscellaneous:	Substation located in east-central Butler County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Carlisle-Garver DEO-A5689
2.	Point of Origin: Terminus:	Feeder 5689 (at Pole 201) Garver Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 400 feet 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	1/31/2019
6.	Construction to Commence: Commercial Operation:	3/2019 12/2019
7.	Capital Investment:	$250,000
8.	Substations:	Garver Substation, 345 kV, future 138 kV
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Extend Carlisle tap portion of existing Feeder DEO-A5689 to Garver Substation to reinforce the 345 kV and 138 kV transmission systems.
12.	Consequences of Line Construction deferment or Termination:	Overloads of various 345 kV and/or 138 kV system components for various contingencies
13.	Miscellaneous:	Substation located in east-central Butler County.

DUKE ENERGY OHIO
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FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Garver-AK Steel Station 606 DEO-A7583
2.	Point of Origin: Terminus:	Garver Substation AK Steel Station 606
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 1.15 miles 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	1/31/2019
6.	Construction to Commence: Commercial Operation:	3/2019 12/2019
7.	Capital Investment:	$1,700,000
8.	Substations:	Garver Substation, 345 kV, future 138 kV
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Provide 3rd 138 kV source to customer to enhance reliability, facilitate operation and maintenance on existing customer feeds, reduce risk of catastrophic outages.
12.	Consequences of Line Construction deferment or Termination:	Extreme risk to customer during routine work and planned system upgrades.
13.	Miscellaneous:	Substation located in east-central Butler County.

DUKE ENERGY OHIO
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FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Miami Fort-Tanners Creek DEO-B4504
2.	Point of Origin: Terminus:	Miami Fort Substation Ohio/Kentucky State Line
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 1,800 feet 150 feet 1 transmission line above 125 kV
4.	Voltage:	345 kV design and operate voltage
5.	Application for Certificate:	9/2020
6.	Construction to Commence: Commercial Operation:	1/2021 6/2021
7.	Capital Investment:	$1,000,000
8.	Substations:	None
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Increase capacity of the existing Miami Fort to Tanners Creek 345 kV Feeder DEO-B4504.
12.	Consequences of Line Construction deferment or Termination:	Overload of existing conductor during various outage conditions.
13.	Miscellaneous:	Area served is primarily southeast Ohio.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Port Union-Summerside DEO-A3881
2.	Point of Origin: Terminus:	Tap Feeder 3881 (Port Union side) Wards Corner Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 200 feet on Duke-owned property 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	3/8/2019
6.	Construction to Commence: Commercial Operation:	7/2019 12/2019
7.	Capital Investment:	$250,000
8.	Substations:	Wards Corner Substation, 138 kV
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Transfer supply to Wards Corner Substation from line DEO-A9482 to line DEO-A3881.
12.	Consequences of Line Construction deferment or Termination:	Overload of line DEO-A9482 for various outage contingencies.
13.	Miscellaneous:	Area to be served is primarily north-east Hamilton County and north-west Clermont County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Port Union-Summerside DEO-A3881
2.	Point of Origin: Terminus:	Tap Feeder 3881 (Summerside side) Wards Corner Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 600 feet on Duke-owned property 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	3/8/2019
6.	Construction to Commence: Commercial Operation:	7/2019 12/2019
7.	Capital Investment:	$800,000
8.	Substations:	Wards Corner Substation, 138 kV
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Transfer supply to Wards Corner Substation from line DEO-A9482 to line DEO-A3881.
12.	Consequences of Line Construction deferment or Termination:	Overload of line DEO-A9482 for various outage contingencies.
13.	Miscellaneous:	Area to be served is primarily north-east Hamilton County and north-west Clermont County.

DUKE ENERGY OHIO
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FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Fairfield-Morgan DEO-A5783
2.	Point of Origin: Terminus:	Tap Feeder 5783 Morgan Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 1.0 mile 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	9/2019
6.	Construction to Commence: Commercial Operation:	1/2020 12/2020
7.	Capital Investment:	$2,500,000
8.	Substations:	none
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Re-route line DEO-A5783 out of Morgan Substation to eliminate common structures with line DEO-A1689.
12.	Consequences of Line Construction deferment or Termination:	Possible loss of both circuits to Morgan Substation for tower contingencies.
13.	Miscellaneous:	Area to be served is primarily western Hamilton County.

DUKE ENERGY OHIO
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FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Pierce-Beckjord DEO-A1887
2.	Point of Origin: Terminus:	Tap Feeder 1887 Beckjord Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 300 feet 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	5/31/2019
6.	Construction to Commence: Commercial Operation:	9/2019 12/2019
7.	Capital Investment:	$300,000
8.	Substations:	none
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Re-route line DEO-A1887 to new termination point in Beckjord Substation to eliminate common structure with line DEO-A1889 and enhance operational flexibility and reliability.
12.	Consequences of Line Construction deferment or Termination:	Possible loss of both DEO-A1887 and DEO-A1889 circuits from Pierce to Beckjord Substation, inability to reconfigure Beckjord 138 kV bus system for operational contingencies.
13.	Miscellaneous:	Area to be served is primarily western southeast Clermont County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Todhunter-AK Steel DEO-A5686
2.	Point of Origin: Terminus:	Dicks Creek Substation Tower no. 54A
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 0.33 mile 150 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	10/2019
6.	Construction to Commence: Commercial Operation:	3/2020 12/2020
7.	Capital Investment:	$500,000
8.	Substations:	Dicks Creek Substation
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Increase capacity of the existing Tower 54A to Dicks Creek portion of DEO-A5686.
12.	Consequences of Line Construction deferment or Termination:	Overload of existing conductor during various outage conditions.
13.	Miscellaneous:	Area to be served is primarily western Butler County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Todhunter-AK Steel DEO-A1985 (proposed)
2.	Point of Origin: Terminus:	Dicks Creek Substation Tower no. 54A
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 0.33 mile 150 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	10/2019
6.	Construction to Commence: Commercial Operation:	3/2020 12/2020
7.	Capital Investment:	$500,000
8.	Substations:	Dicks Creek
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Allow loop feed of Dicks Creek Substation from DEO-A5682 and DEO-A1985 (proposed, existing section of DEO-A5682 north of Dicks Creek will become DEO-A1985).
12.	Consequences of Line Construction deferment or Termination:	Dicks Creek Generating Station will continue to be supplied via a radial tap.
13.	Miscellaneous:	Area to be served is primarily western Butler County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Port Union-Summerside DEO-A3881
2.	Point of Origin: Terminus:	Tap Feeder 5783 (Port Union side) Montgomery Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 200 feet 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	9/2021
6.	Construction to Commence: Commercial Operation:	3/2022 12/2022
7.	Capital Investment:	$500,000
8.	Substations:	none
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Loop DEO-A3881 through Montgomery Substation to eliminate overload and/or low voltage conditions for various contingencies
12.	Consequences of Line Construction deferment or Termination:	overload and/or low voltage conditions continue to result for various contingencies.
13.	Miscellaneous:	Area to be served is primarily southwestern Warren County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Port Union-Summerside DEO-A3881
2.	Point of Origin: Terminus:	Tap Feeder 5783 (Summerside side) Montgomery Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 200 feet 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	9/2021
6.	Construction to Commence: Commercial Operation:	3/2022 12/2022
7.	Capital Investment:	$500,000
8.	Substations:	none
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Loop DEO-A3881 through Montgomery Substation to eliminate overload and/or low voltage conditions for various contingencies.
12.	Consequences of Line Construction deferment or Termination:	overload and/or low voltage conditions continue to result for various contingencies.
13.	Miscellaneous:	Area to be served is primarily southwestern Warren County.

DUKE ENERGY OHIO
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FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Port Union-Foster DEO-A5483
2.	Point of Origin: Terminus:	Tap Feeder 5483 (at or near Pole 524) Socialville Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 1,400 feet 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	5/2020
6.	Construction to Commence: Commercial Operation:	3/2022 12/2022
7.	Capital Investment:	$2,000,000
8.	Substations:	none
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Loop DEO-A5483 through Socialville Substation to eliminate overload and/or low voltage conditions for various contingencies.
12.	Consequences of Line Construction deferment or Termination:	Overload and/or low voltage conditions continue to result for various contingencies.
13.	Miscellaneous:	Area to be served is primarily southwestern Warren County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Port Union-Fairfield DEO-A3886
2.	Point of Origin: Terminus:	Port Union Substation Mulhauser Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 2.76 miles 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	3/2020
6.	Construction to Commence: Commercial Operation:	9/2020 6/2021
7.	Capital Investment:	$5,000,000
8.	Substations:	none
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Increase capacity of the existing Port Union to Mulhauser portion of DEO-A3886.
12.	Consequences of Line Construction deferment or Termination:	Overload of existing conductor for various outage contingencies.
13.	Miscellaneous:	Area to be served is primarily north-central Hamilton County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Ebenezer-Terminal DEO-A6885
2.	Point of Origin: Terminus:	Tower C10-X2-129 N/A
3.	Right-of-Way, Length: Average Width: Number of Circuits:	N/A 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	8/2019
6.	Construction to Commence: Commercial Operation:	9/2019 12/2019
7.	Capital Investment:	$200,000
8.	Substations:	none
9.	Supporting Structures:	steel pole
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Replace damaged tower with a steel monopole.
12.	Consequences of Line Construction deferment or Termination:	Failure of existing tower.
13.	Miscellaneous:	Area to be served is primarily southwest Hamilton County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Miami Fort GT-INEOS DEO-A2865
2.	Point of Origin: Terminus:	Tower C10-X2-129 N/A
3.	Right-of-Way, Length: Average Width: Number of Circuits:	N/A 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	8/2019
6.	Construction to Commence: Commercial Operation:	9/2019 12/2019
7.	Capital Investment:	$200,000
8.	Substations:	none
9.	Supporting Structures:	steel pole
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Replace damaged tower with a steel monopole.
12.	Consequences of Line Construction deferment or Termination:	Failure of existing tower.
13.	Miscellaneous:	Area to be served is primarily southwest Hamilton County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Rochelle-Terminal DEO-A8286
2.	Point of Origin: Terminus:	Structure HL1 (O12-539) Structure HL5 (O12-538)
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 1,200 feet 50 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	9/2019
6.	Construction to Commence: Commercial Operation:	3/2021 12/2020
7.	Capital Investment:	$1,000,000
8.	Substations:	none
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Replace deteriorated structures.
12.	Consequences of Line Construction deferment or Termination:	Failure of existing structures.
13.	Miscellaneous:	Area to be served is primarily central Hamilton County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Elmwood-Lateral DEO-A684
2.	Point of Origin: Terminus:	Structure HL138 (P13-111) Structure HL103 (P15-559)
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 1 mile Majority is road ROW 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	9/2019
6.	Construction to Commence: Commercial Operation:	3/2020 12/2020
7.	Capital Investment:	$1,500,000
8.	Substations:	none
9.	Supporting Structures:	steel towers or poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Relocate line to accommodate governmental road improvement project..
12.	Consequences of Line Construction deferment or Termination:	Failure to comply with road improvement project.
13.	Miscellaneous:	Area to be served is primarily north-central Hamilton County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Summerside-Beckjord DEO-A6984
2.	Point of Origin: Terminus:	Structure HL181 Summerside Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 200 feet on Duke-owned property 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	9/2021
6.	Construction to Commence: Commercial Operation:	1/2022 12/2022
7.	Capital Investment:	$300,000
8.	Substations:	none
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Relocation circuit to new bay location in substation to allow substation expansion for new distribution supply equipment.
12.	Consequences of Line Construction deferment or Termination:	Inability to perform required substation work, to provide 34.5 kV distribution system capacity and enhanced reliability,
13.	Miscellaneous:	Area to be served is primarily Clermont County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	East Bend-Terminal DEO-B4516
2.	Point of Origin: Terminus:	Terminal Substation Structure P16-X1-320
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 330 feet 150 feet 1 transmission line above 125 kV
4.	Voltage:	345 kV design and operate voltage
5.	Application for Certificate:	4/3/2019
6.	Construction to Commence: Commercial Operation:	9/2019 12/2020
7.	Capital Investment:	$1,200,000
8.	Substations:	none
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Replaced existing tower due to eroding stream bank.
12.	Consequences of Line Construction deferment or Termination:	Potential failure of existing tower.
13.	Miscellaneous:	Area to be served is Hamilton County and surrounding areas.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Miami Fort-Terminal DEO-B4514
2.	Point of Origin: Terminus:	Terminal Substation Structure P16-X1-320
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 330 feet 150 feet 1 transmission line above 125 kV
4.	Voltage:	345 kV design and operate voltage
5.	Application for Certificate:	4/3/2019
6.	Construction to Commence: Commercial Operation:	9/2019 12/2020
7.	Capital Investment:	$1,200,000
8.	Substations:	none
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Replaced existing tower due to eroding stream bank.
12.	Consequences of Line Construction deferment or Termination:	Potential failure of existing tower.
13.	Miscellaneous:	Area to be served is Hamilton County and surrounding areas.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Elmwood-Terminal DEO-A689
2.	Point of Origin: Terminus:	Terminal Substation Structure P16-539
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 300 feet 150 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	4/3/2019
6.	Construction to Commence: Commercial Operation:	9/2019 12/2020
7.	Capital Investment:	$500,000
8.	Substations:	none
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Replaced existing pole due to eroding stream bank.
12.	Consequences of Line Construction deferment or Termination:	Potential failure of existing pole.
13.	Miscellaneous:	Area to be served is primarily Hamilton County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Summerside-Beckjord DEO-A6984
2.	Point of Origin: Terminus:	Aicholtz Substation (Beckjord side) Structure 6C-X1-39
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 250 feet On Duke-owned property 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	6/2020
6.	Construction to Commence: Commercial Operation:	1/2021 6/2021
7.	Capital Investment:	$500,000
8.	Substations:	none
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	To provide 12.47 kV distribution system capacity and enhanced reliability,
12.	Consequences of Line Construction deferment or Termination:	Inability to supply 12.47 kV distribution load and enhance reliability.
13.	Miscellaneous:	Area to be served is primarily Clermont County

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Summerside-Beckjord DEO-A6984
2.	Point of Origin: Terminus:	Aicholtz Substation (Summerside side) Structure 6C-X1-39
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 250 feet On Duke-owned property 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	6/2020
6.	Construction to Commence: Commercial Operation:	1/2021 6/2021
7.	Capital Investment:	$500,000
8.	Substations:	none
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	To provide 12.47 kV distribution system capacity and enhanced reliability,
12.	Consequences of Line Construction deferment or Termination:	Inability to supply 12.47 kV distribution load and enhance reliability.
13.	Miscellaneous:	Area to be served is primarily Clermont County

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Foster-Warren DEO-A5484
2.	Point of Origin: Terminus:	Structure WRO-9489 Maineville Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 100 feet On Duke-owned property 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	1/2020
6.	Construction to Commence: Commercial Operation:	6/2020 12/2020
7.	Capital Investment:	$300,000
8.	Substations:	none
9.	Supporting Structures:	steel towers or poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Accommodate substation expansion to provide 12.47 kV distribution system capacity and enhanced reliability
12.	Consequences of Line Construction deferment or Termination:	Inability to supply 12.47 kV distribution load and enhance reliability.
13.	Miscellaneous:	Area to be served is primarily Warren County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	College Corner-Trenton DEO-A3281
2.	Point of Origin: Terminus:	Structure 26BT-X2-66 Collinsville Substation (Trenton side)
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 500 feet 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	6/2021
6.	Construction to Commence: Commercial Operation:	3/2022 12/2022
7.	Capital Investment:	$300,000
8.	Substations:	none
9.	Supporting Structures:	steel pole
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Re-route DEO-A3281 to accommodate substation expansion.
12.	Consequences of Line Construction deferment or Termination:	Inability to expand substation to enhance system reliability.
13.	Miscellaneous:	Area to be served is primarily Butler County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	College Corner-Trenton DEO-A13803
2.	Point of Origin: Terminus:	Structure 26BT-X2-66B N/A
3.	Right-of-Way, Length: Average Width: Number of Circuits:	N/A On Duke-owned property 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	6/2021
6.	Construction to Commence: Commercial Operation:	3/2022 12/2022
7.	Capital Investment:	$200,000
8.	Substations:	none
9.	Supporting Structures:	steel pole
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Raise DEO-A13803 to allow for looping DEO-A3281 through Collinsville.
12.	Consequences of Line Construction deferment or Termination:	Inability to expand substation to enhance system reliability.
13.	Miscellaneous:	Area to be served is primarily Butler County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	College Corner-Trenton DEO-A3281
2.	Point of Origin: Terminus:	Structure 26BT-X2-67 Collinsville Substation (College Corner side)
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 600 feet 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	6/2021
6.	Construction to Commence: Commercial Operation:	3/2022 12/2022
7.	Capital Investment:	$300,000
8.	Substations:	none
9.	Supporting Structures:	steel pole
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Re-route DEO-A3281 to accommodate substation expansion.
12.	Consequences of Line Construction deferment or Termination:	Inability to expand substation to enhance system reliability.
13.	Miscellaneous:	Area to be served is primarily Butler County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Miami Fort-Miami Fort GT DEO-A1688
2.	Point of Origin: Terminus:	Structure 125H-358 Miami Fort GT
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 150 feet 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	3/2020
6.	Construction to Commence: Commercial Operation:	10/2020 12/2020
7.	Capital Investment:	$200,000
8.	Substations:	none
9.	Supporting Structures:	steel pole
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Separation of assets with generation.
12.	Consequences of Line Construction deferment or Termination:	Inability to operationally separate 3rd party-owned generation facilities from Duke Energy Ohio transmission system.
13.	Miscellaneous:	Area to be served is primarily Hamilton County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	City of Hamilton-Port Union DEO-A3889
2.	Point of Origin: Terminus:	City of Hamilton Structure BT125-161
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 200 feet 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	10/2019
6.	Construction to Commence: Commercial Operation:	3/2020 6/2020
7.	Capital Investment:	$300,000
8.	Substations:	none
9.	Supporting Structures:	steel poles
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Re-location of DEO-A3889 to accommodate substation expansion.
12.	Consequences of Line Construction deferment or Termination:	Inability to operationally separate services to City of Hamilton.
13.	Miscellaneous:	Area to be served is primarily Butler County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Pierce-Beckjord DEO-A1887
2.	Point of Origin: Terminus:	Structure 1688 Pierce Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 200 feet 100 feet 1 transmission line above 125 kV
4.	Voltage:	138 kV design and operate voltage
5.	Application for Certificate:	3/2020
6.	Construction to Commence: Commercial Operation:	10/2020 12/2020
7.	Capital Investment:	$200,000
8.	Substations:	none
9.	Supporting Structures:	steel pole
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Re-route circuit at Pierce to accommodate reconfiguration of supply to Duke-owned 345-138 kV transformers.
12.	Consequences of Line Construction deferment or Termination:	overload of various facilities for various outage contingencies.
13.	Miscellaneous:	Area to be served is primarily Clermont County.

DUKE ENERGY OHIO
4901:5-5-04(D)(1)

FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1.	Line Name: Line Number:	Foster-Pierce DEO-B4502
2.	Point of Origin: Terminus:	Structure 2C-X30-1 Pierce Substation
3.	Right-of-Way, Length: Average Width: Number of Circuits:	approximately 300 feet on Duke-owned property 1 transmission line above 125 kV
4.	Voltage:	345 kV design and operate voltage
5.	Application for Certificate:	9/2020
6.	Construction to Commence: Commercial Operation:	3/2021 12/2021
7.	Capital Investment:	$350,000
8.	Substations:	Pierce Substation
9.	Supporting Structures:	steel pole
10.	Participation with other Utilities:	DEO – 100%
11.	Purpose of the planned transmission line:	Raise and/or re-locate circuit to allow substation expansion to accommodate reconfiguration of supply to Duke-owned 345-138 kV transformers.
12.	Consequences of Line Construction deferment or Termination:	overload of various facilities for various outage contingencies.
13.	Miscellaneous:	Area to be served is primarily Clermont County.

DUKE ENERGY OHIO
4901:5-5-04(D)(2)
FORM FE-T10: SUMMARY OF PROPOSED SUBSTATIONS

Substation Name: South Fairmount Substation

Voltage(s): 138 kV, 12.47 kV

Type of Substation: Distribution (D)

Timing: 2019

Line Association(s): DEO-A1286

Minimum Substation Site Acreage: Approximately 5 acres (site has been acquired)

DUKE ENERGY OHIO
4901:5-5-04(D)(2)
FORM FE-T10: SUMMARY OF PROPOSED SUBSTATIONS

Substation Name: Half Acre

Voltage(s): 138 kV, 34.5 kV

Type of Substation: Distribution (D)

Timing: 2022

Line Association(s): DEO-A8481

Minimum Substation Site Acreage: Approximately 5 acres

DUKE ENERGY OHIO
4901:5-5-04(D)(2)
FORM FE-T10: SUMMARY OF PROPOSED SUBSTATIONS

Substation Name: Keever

Voltage(s): 138 kV, 12.47 kV

Type of Substation: Distribution (D)

Timing: 2025

Line Association(s): DEO-A5485 and/or DEO-A5680

Minimum Substation Site Acreage: Approximately 5 acres

PUCO Form FE-D1 : EDU Service Area Energy Delivery Forecast
(Megawatt Hours/Year) (a)
Duke Energy Ohio (d)

		1	2	3	4	5(a)	5(b)	6	7	8
	Year	Residential	Commercial	Industrial	Transportation (b)	Other (c)	Energy Efficiency and Demand Response (e)	Total End Use Delivery (f)	Line Losses and Company Use	Total Energy
								1+2+3+4+5(a)-5(b)		6+7
-5	2014	7,383,476	6,398,779	5,158,802	-	1,519,064		20,460,120	1,304,756	21,764,876
-4	2015	7,321,047	6,414,961	5,191,619	-	1,471,342		20,398,969	1,144,955	21,543,924
-3	2016	7,262,164	6,533,182	5,121,919	-	1,374,249		20,291,514	1,136,377	21,427,891
-2	2017	7,224,769	6,463,691	5,005,163	-	1,298,968		19,992,591	1,134,095	21,126,686
-1	2018	7,241,327	6,493,124	4,979,117	-	1,340,451		20,054,019	1,260,841	21,314,860
0	2019	7,237,364	6,419,216	5,035,323	-	1,346,549	(727,022)	20,765,475	1,124,654	21,890,128
1	2020	7,257,292	6,403,989	5,012,308	-	1,336,421	(849,758)	20,859,767	1,124,035	21,983,802
2	2021	7,223,177	6,362,376	4,910,731	-	1,298,735	(954,549)	20,749,568	1,112,121	21,861,689
3	2022	7,228,625	6,331,075	4,877,581	-	1,289,640	(1,041,936)	20,768,856	1,108,341	21,877,197
4	2023	7,264,132	6,311,625	4,828,605	-	1,287,110	(1,111,229)	20,802,702	1,106,371	21,909,073
5	2024	7,310,258	6,297,428	4,800,197	-	1,286,722	(1,157,963)	20,852,568	1,106,542	21,959,109
6	2025	7,366,407	6,288,627	4,767,184	-	1,294,128	(1,183,624)	20,899,970	1,107,752	22,007,723
7	2026	7,408,024	6,290,877	4,729,958	-	1,309,068	(1,190,830)	20,928,758	1,108,951	22,037,709
8	2027	7,460,845	6,295,745	4,712,626	-	1,328,502	(1,189,889)	20,987,608	1,112,274	22,099,882
9	2028	7,493,447	6,301,764	4,686,111	-	1,347,226	(1,197,451)	21,026,000	1,113,981	22,139,981
10	2029	7,518,458	6,304,206	4,659,030	-	1,364,040	(1,222,422)	21,068,157	1,114,897	22,183,054

(a) To be filled out by all EDUs. The category breakdown should refer to the Ohio portion of the EDU's total service area.
(b) Transportation includes railroads & railways.
(c) Other includes street & highway lighting, public authorities, interdepartmental sales, and wholesale
(d) Historical class numbers include the impact of DSM programs in place at the time. Forecast numbers have not been reduced for energy efficiency impacts.
(e) Historical numbers represent incremental impacts of energy efficiency programs. Forecast numbers represent cumulative impacts.
(f) Historical numbers include the impact of DSM programs in place at the time. Forecast numbers include losses.

PUCO Form FE-D1 : EDU Service Area Energy Delivery Forecast
(Megawatt Hours/Year) (a)
Duke Energy Ohio After DSM (d)

		1	2	3	4	5	6	7	8
	Year	Residential	Commercial	Industrial	Transportation (b)	Other (c)	Total End Use Delivery	Line Losses and Company Use	Total Energy
							1+2+3+4+5		6+7
-5	2014	7,383,476	6,398,779	5,158,802	-	1,519,064	20,460,120	1,304,756	21,764,876
-4	2015	7,321,047	6,414,961	5,191,619	-	1,471,342	20,398,969	1,144,955	21,543,924
-3	2016	7,262,164	6,533,182	5,121,919	-	1,374,249	20,293,530	1,136,377	21,429,907
-2	2017	7,224,769	6,463,691	5,005,163	-	1,298,968	19,992,591	1,136,377	21,128,968
-1	2018	7,241,327	6,493,124	4,979,117	-	1,340,451	20,054,019	1,260,841	21,314,860
0	2019	7,237,364	6,419,216	5,035,323	-	1,346,549	20,038,453	1,124,654	21,163,106
1	2020	7,257,292	6,403,989	5,012,308	-	1,336,421	20,010,010	1,124,035	21,134,045
2	2021	7,223,177	6,362,376	4,910,731	-	1,298,735	19,795,020	1,112,121	20,907,140
3	2022	7,228,625	6,331,075	4,877,581	-	1,289,640	19,726,920	1,108,341	20,835,261
4	2023	7,264,132	6,311,625	4,828,605	-	1,287,110	19,691,472	1,106,371	20,797,843
5	2024	7,310,258	6,297,428	4,800,197	-	1,286,722	19,694,605	1,106,542	20,801,146
6	2025	7,366,407	6,288,627	4,767,184	-	1,294,128	19,716,346	1,107,752	20,824,098
7	2026	7,408,024	6,290,877	4,729,958	-	1,309,068	19,737,928	1,108,951	20,846,880
8	2027	7,460,845	6,295,745	4,712,626	-	1,328,502	19,797,719	1,112,274	20,909,993
9	2028	7,493,447	6,301,764	4,686,111	-	1,347,226	19,828,548	1,113,981	20,942,530
10	2029	7,518,458	6,304,206	4,659,030	-	1,364,040	19,845,734	1,114,897	20,960,632

(a) To be filled out by all EDUs. The category breakdown should refer to the Ohio portion of the EDU's total service area.
(b) Transportation includes railroads & railways.
(c) Other includes street & highway lighting, public authorities, interdepartmental sales, and wholesale
(d) Historical numbers include the impact of DSM programs in place at the time.

PUCO Form FE-D3 : EDU System Seasonal Peak Load Demand Forecast (c)

(Megawatts)(a)

Duke Energy Ohio Before DSM

		Native				Internal			
	Year	Summer	Demand Response	Net Summer	Winter (b)	Summer	Demand Response	Net Summer	Winter (b)
-5	2014	4,053	0	4,053	3,662	4,053	0	4,053	3,662
-4	2015	4,049	0	4,049	3,702	4,049	0	4,049	3,702
-3	2016	4,427	0	4,427	3,417	4,427	0	4,427	3,417
-2	2017	3,957	0	3,957	3,713	3,957	0	3,957	3,713
-1	2018	4,091	0	4,091	3,619	4,091	0	4,091	3,619
0	2019	3,998	0	3,998	3,583	4,083	85	3,998	3,583
1	2020	3,999	0	3,999	3,576	4,058	59	3,999	3,576
2	2021	3,975	0	3,975	3,568	4,034	59	3,975	3,568
3	2022	3,959	0	3,959	3,559	4,024	65	3,959	3,559
4	2023	3,945	0	3,945	3,518	4,012	67	3,945	3,518
5	2024	3,941	0	3,941	3,544	4,008	67	3,941	3,544
6	2025	3,933	0	3,933	3,534	4,001	67	3,933	3,534
7	2026	3,925	0	3,925	3,530	3,993	67	3,925	3,530
8	2027	3,921	0	3,921	3,491	3,988	67	3,921	3,491
9	2028	3,915	0	3,915	3,500	3,982	67	3,915	3,500
10	2029	3,911	0	3,911	3,500	3,978	67	3,911	3,500

(a) To be filled out by all EDUs. Data should refer to the Ohio portion of the EDU's total service area.

(b) Winter load reference is to peak loads which follow the summer peak load.

(c) Historical company peaks not necessarily coincident with the system peak.

(d) Figures reflect the impact of historical demand side programs.

PUCO Form FE-D3 : EDU System Seasonal Peak Load Demand Forecast

(Megawatts)(a)

Duke Energy Ohio After DSM

		Native (b)(c)				Internal (b)(c)			
	Year	Summer	Demand Response	Net Summer	Winter (b)	Summer	Demand Response	Net Summer	Winter (b)
-5	2014	4,053	0	4,053	3,662	4,053	0	4,053	3,662
-4	2015	4,049	0	4,049	3,702	4,049	0	4,049	3,702
-3	2016	4,427	0	4,427	3,417	4,427	0	4,427	3,417
-2	2017	3,957	0	3,957	3,713	3,957	0	3,957	3,713
-1	2018	4,091	0	4,091	3,619	4,091	0	4,091	3,619
0	2019	3,971	0	3,971	3,551	4,056	85	3,971	3,551
1	2020	3,955	0	3,955	3,526	4,014	59	3,955	3,526
2	2021	3,917	0	3,917	3,503	3,976	59	3,917	3,503
3	2022	3,887	0	3,887	3,480	3,952	65	3,887	3,480
4	2023	3,861	0	3,861	3,419	3,928	67	3,861	3,419
5	2024	3,845	0	3,845	3,431	3,913	67	3,845	3,431
6	2025	3,825	0	3,825	3,407	3,893	67	3,825	3,407
7	2026	3,805	0	3,805	3,389	3,872	67	3,805	3,389
8	2027	3,788	0	3,788	3,353	3,856	67	3,788	3,353
9	2028	3,770	0	3,770	3,342	3,838	67	3,770	3,342
10	2029	3,754	0	3,754	3,332	3,821	67	3,754	3,332

(a) To be filled out by all EDUs. Data should refer to the Ohio portion of the EDU's total service area.

(b) Winter load reference is to peak loads which follow the summer peak load.

(c) Includes DSM impacts.

4901:5-5-04

PUCO Form FE-D5: EDU's Total Monthly Energy Forecast (MWh)
Duke Energy Ohio Before DSM

2019 (d)				Ohio Service Area	System
January				1,925,088	1,925,088
February				1,806,265	1,806,265
March				1,614,716	1,614,716
April				1,612,287	1,612,287
May				1,669,410	1,669,410
June				1,965,427	1,965,427
July				2,130,151	2,130,151
August				2,053,727	2,053,727
September				1,796,277	1,796,277
October				1,661,261	1,661,261
November				1,728,510	1,728,510
December				1,927,009	1,927,009
2020 (d)					
January				1,943,394	1,943,394
February				1,811,951	1,811,951
March				1,730,325	1,730,325
April				1,594,953	1,594,953
May				1,677,696	1,677,696
June				1,992,458	1,992,458
July				2,175,592	2,175,592
August				2,073,231	2,073,231
September				1,805,645	1,805,645
October				1,583,647	1,583,647
November				1,709,088	1,709,088
December				1,885,823	1,885,823

(a) To be filled out by all EDUs. Data should refer to the Ohio portion of the EDU's total service area in this column.
(b) EDUs operating across Ohio boundaries shall provide data for the total service area in this column.
(c) EDUs operating as a part of an integrated operating system shall provide data for the total system in this column.
(d) All data shown is a forecast. There is no actual data shown on this table.

PUCO Form FE-D5: EDU's Total Monthly Energy Forecast (MWh)
Duke Energy Ohio After DSM (e)

2019 (d)				Ohio Service Area	System
January				1,877,456	1,877,456
February				1,760,334	1,760,334
March				1,564,744	1,564,744
April				1,568,517	1,568,517
May				1,613,860	1,613,860
June				1,903,643	1,903,643
July				2,059,851	2,059,851
August				1,982,305	1,982,305
September				1,728,847	1,728,847
October				1,599,682	1,599,682
November				1,658,376	1,658,376
December				1,845,493	1,845,493
2020 (d)					
January				1,881,491	1,881,491
February				1,753,430	1,753,430
March				1,667,377	1,667,377
April				1,541,646	1,541,646
May				1,610,348	1,610,348
June				1,919,203	1,919,203
July				2,094,008	2,094,008
August				1,991,340	1,991,340
September				1,729,550	1,729,550
October				1,516,958	1,516,958
November				1,631,936	1,631,936
December				1,796,759	1,796,759

(a) To be filled out by all EDUs. Data should refer to the Ohio portion of the EDU's total service area in this column.
(b) EDUs operating across Ohio boundaries shall provide data for the total service area in this column.
(c) EDUs operating as a part of an integrated operating system shall provide data for the total system in this column.
(d) All data shown is a forecast. There is no actual data shown on this table.
(e) Includes DSM impacts.

PUCO Form FE-D6: EDU's Monthly Internal Peak Load Forecast (Megawatts)
Duke Energy Ohio Before DSM

	Native				Internal	
2019 (d)	Ohio Service Area	Demand Response	Net Summer	System	Ohio Service Area	System
January	3,614	5	3,614	3,614	3,619	3,619
February	3,446	5	3,446	3,446	3,451	3,451
March	3,104	5	3,104	3,104	3,109	3,109
April	2,884	5	2,884	2,884	2,889	2,889
May	3,494	46	3,494	3,494	3,540	3,540
June	3,931	85	3,931	3,931	4,016	4,016
July	3,998	85	3,998	3,998	4,083	4,083
August	3,967	85	3,967	3,967	4,052	4,052
September	3,905	85	3,905	3,905	3,990	3,990
October	3,011	22	3,011	3,011	3,033	3,033
November	3,094	22	3,094	3,094	3,115	3,115
December	3,447	22	3,447	3,447	3,468	3,468
2020 (d)						
January	3,562	22	3,562	3,562	3,583	3,583
February	3,434	22	3,434	3,434	3,456	3,456
March	3,100	22	3,100	3,100	3,122	3,122
April	2,858	22	2,858	2,858	2,879	2,879
May	3,508	22	3,508	3,508	3,530	3,530
June	3,946	59	3,946	3,946	4,005	4,005
July	3,999	59	3,999	3,999	4,058	4,058
August	3,964	59	3,964	3,964	4,023	4,023
September	3,899	59	3,899	3,899	3,958	3,958
October	2,975	22	2,975	2,975	2,996	2,996
November	3,064	22	3,064	3,064	3,085	3,085
December	3,413	22	3,413	3,413	3,435	3,435

(a) To be filled out by all EDUs. Data should refer to the Ohio portion of the EDU's total service area in this column.
(b) EDUs operating across Ohio boundaries shall provide data for the total service area in this column.
(c) EDUs operating as a part of an integrated operating system shall provide data for the total system in this column.
(d) All data shown is a forecast. There is no actual data shown on this table.

PUCO Form FE-D6: EDU's Monthly Internal Peak Load Forecast (Megawatts) (e)
Duke Energy Ohio After DSM (e)

	Native				Internal	
2019 (d)	Ohio Service Area	Demand Response	Net Summer	System	Ohio Service Area	System
January	3,599	5	3,599	3,599	3,604	3,604
February	3,430	5	3,430	3,430	3,435	3,435
March	3,090	5	3,090	3,090	3,095	3,095
April	2,878	5	2,878	2,878	2,883	2,883
May	3,477	46	3,477	3,477	3,523	3,523
June	3,907	85	3,907	3,907	3,992	3,992
July	3,971	85	3,971	3,971	4,056	4,056
August	3,940	85	3,940	3,940	4,025	4,025
September	3,883	85	3,883	3,883	3,968	3,968
October	2,998	22	2,998	2,998	3,020	3,020
November	3,066	22	3,066	3,066	3,087	3,087
December	3,414	22	3,414	3,414	3,435	3,435
2020 (d)						
January	3,529	22	3,529	3,529	3,551	3,551
February	3,400	22	3,400	3,400	3,422	3,422
March	3,069	22	3,069	3,069	3,090	3,090
April	2,836	22	2,836	2,836	2,858	2,858
May	3,475	22	3,475	3,475	3,497	3,497
June	3,908	59	3,908	3,908	3,967	3,967
July	3,955	59	3,955	3,955	4,014	4,014
August	3,918	59	3,918	3,918	3,977	3,977
September	3,857	59	3,857	3,857	3,916	3,916
October	2,947	22	2,947	2,947	2,969	2,969
November	3,026	22	3,026	3,026	3,047	3,047
December	3,368	22	3,368	3,368	3,390	3,390

(a) To be filled out by all EDUs. Data should refer to the Ohio portion of the EDU's total service area in this column.
(b) EDUs operating across Ohio boundaries shall provide data for the total service area in this column.
(c) EDUs operating as a part of an integrated operating system shall provide data for the total system in this column.
(d) All data shown is a forecast. There is no actual data shown on this table.
(e) Includes DSM impacts.

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)

2019

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases [d]	4970	4970	4970	4970	4970	5020	5020	5020	5020	5020	5020	5020
Sales												
Renewable												
Available Capability	4970	4970	4970	4970	4970	5020	5020	5020	5020	5020	5020	5020
Native Load	3,599	3,430	3,090	2,878	3,477	3,907	3,971	3,940	3,883	2,998	3,066	3,414
Energy Reduction Programs[c]	5	5	5	5	46	85	85	85	85	22	22	22
Available Reserve	1,366	1,535	1,875	2,087	1,447	1,028	964	995	1,052	2,000	1,933	1,585
Internal Load[a]	3,604	3,435	3,095	2,883	3,523	3,992	4,056	4,025	3,968	3,020	3,087	3,435
Reserve	1,366	1,535	1,875	2,087	1,447	1,028	964	995	1,052	2,000	1,933	1,585

2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases [d]	5020	5020	5020	5020	5020	4666	4666	4666	4666	4666	4666	4666
Sales												
Renewable												
Available Capability	5020	5020	5020	5020	5020	4666	4666	4666	4666	4666	4666	4666
Native Load	3,529	3,400	3,069	2,836	3,475	3,908	3,955	3,918	3,857	2,947	3,026	3,368
Energy Reduction Programs[c]	22	22	22	22	22	59	59	59	59	22	22	22
Available Reserve	1,469	1,598	1,930	2,162	1,523	700	652	689	750	1,697	1,619	1,277
Internal Load[a]	3,551	3,422	3,090	2,858	3,497	3,967	4,014	3,977	3,916	2,969	3,047	3,390
Reserve [e]	1,469	1,598	1,930	2,162	1,523	700	652	689	750	1,697	1,619	1,277

a. Internal Load equals Native Load plus Interruptible Load.
b. Actual data shall be indicated w ith an asterisk (*).
c. Includes both energy efficiency and demand response
d. All capacity and energy obligtions are served through Certified Retail Electric Suppliers (CRES) or through suppliers for the Standard Service Offer (SSO)
e. Reflects assumption of PJM unforced capacity obligation margin of 15% of summer peak

PUCO Form FE-R2:
Monthly Forecast of System Peak Load and Resources Dedicated to Meet System Peak Load
(Megawatts)

2019	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases [c]	4970	4970	4970	4970	4970	5020	5020	5020	5020	5020	5020	5020
Sales												
Available Capability	4970	4970	4970	4970	4970	5020	5020	5020	5020	5020	5020	5020
Native Load	3,599	3,430	3,090	2,878	3,477	3,907	3,971	3,940	3,883	2,998	3,066	3,414
Available Reserve	1,371	1,540	1,880	2,092	1,493	1,113	1,049	1,080	1,137	2,022	1,954	1,606
Internal Load[a]	3,604	3,435	3,095	2,883	3,523	3,992	4,056	4,025	3,968	3,020	3,087	3,435
Reserve	1,366	1,535	1,875	2,087	1,447	1,028	964	995	1,052	2,000	1,933	1,585

2020	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases [c]	5020	5020	5020	5020	5020	4666	4666	4666	4666	4666	4666	4666
Sales												
Available Capability	5020	5020	5020	5020	5020	4666	4666	4666	4666	4666	4666	4666
Native Load	3,529	3,400	3,069	2,836	3,475	3,908	3,955	3,918	3,857	2,947	3,026	3,368
Available Reserve	1,491	1,620	1,951	2,184	1,545	759	711	748	809	1,719	1,641	1,298
Internal Load[a]	3,551	3,422	3,090	2,858	3,497	3,967	4,014	3,977	3,916	2,969	3,047	3,390
Reserve [d]	1,469	1,598	1,930	2,162	1,523	700	652	689	750	1,697	1,619	1,277

a. Internal Load equals Native Load plus Interruptible Load.

b. Actual data shall be indicated w ith an asterisk (*).

c. All capacity and energy obligtions are served through Certified Retail Electric Suppliers (CRES) or through suppliers for the Standard Service Offer (SSO)

d. Reflects assumption of PJM unforced capacity obligation margin of 15% of summer peak

PUCO Form FE-R3:

Summary of Existing Electric Generation Facilities for the System (as of 12/31/2018)

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

NOT APPLICABLE

4901:5-5-06

PUCO Form FE-R4:
Actual Generating Capability Dedicated to Meet Ohio Peak Load (as of 12/31/2018)

	Unit Designation		Seasonal
Year/Season	Unit Name	Description	Total

NOT APPLICABLE

4901:5-5-06

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

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

Duke Energy Ohio does not own or operate generation, nor intend to, for the duration of this forecast

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

	(-5) 2014	(-4) 2015	(-3) 2016	(-2) 2017	(-1) 2018	(0) 2019	(1) 2020	(2) 2021
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases [d]	5270	5310	5080	5020	4970	5020	4666	4640
Sales								
Renewable								
Available Capability[a]	5270	5310	5080	5020	4970	5020	4666	4640
Native Load	4,053	4,049	4,427	3,957	4,091	3,998	3,999	3,975
Energy Reduction Programs[c]	0	0	0	0	0	85	59	59
Available Reserve	1217	1261	653	1063	879	937	609	605
Internal Load[b]	4,053	4,049	4,427	3,957	4,091	4,083	4,058	4,034
Reserve [e]	1217	1261	653	1063	879	937	609	605

	(3) 2022	(4) 2023	(5) 2024	(6) 2025	(7) 2026	(8) 2027	(9) 2028	(10) 2029
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases [d]	4627	4614	4610	4601	4592	4586	4579	4575
Sales								
Renewable								
Available Capability[a]	4627	4614	4610	4601	4592	4586	4579	4575
Native Load	3,959	3,945	3,941	3,933	3,925	3,921	3,915	3,911
Energy Reduction Programs[c]	65	67	67	67	67	67	67	67
Available Reserve	604	602	601	600	599	598	597	597
Internal Load[b]	4,024	4,012	4,008	4,001	3,993	3,988	3,982	3,978
Reserve [e]	604	602	601	600	599	598	597	597

a. Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.
b. Internal Load equals Native Load plus Interruptible Load.
c. Includes both energy efficiency and demand response
d. All capacity and energy obligtions are served through Certified Retail Electric Suppliers (CRES) or through suppliers for the Standard Service Offer (SSO)
e. Reflects assumption of PJM unforced capacity obligation margin of 15% of summer peak in future periods

PUCO Form FE-R7:
Actual and Forecast System Peak Load and Resources Dedicated to Meet System Peak Load
(Megawatts)
Summer Season

	(-5) 2014	(-4) 2015	(-3) 2016	(-2) 2017	(-1) 2018	(0) 2019	(1) 2020	(2) 2021
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases [c]	5270	5310	5080	5020	4970	5020	4666	4640
Sales								
Available Capability[a]	5270	5310	5080	5020	4970	5020	4666	4640
Native Load	4,053	4,049	4,427	3,957	4,091	3,998	3,999	3,975
Available Reserve	1,217	1,261	653	1,063	879	1,022	668	665
Internal Load[b]	4,053	4,049	4,427	3,957	4,091	4,083	4,058	4,034
Reserve [d]	1,217	1,261	653	1,063	879	937	609	605

	(3) 2022	(4) 2023	(5) 2024	(6) 2025	(7) 2026	(8) 2027	(9) 2028	(10) 2029
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases [c]	4627	4614	4610	4601	4592	4586	4579	4575
Sales								
Available Capability[a]	4627	4614	4610	4601	4592	4586	4579	4575
Native Load	3,959	3,945	3,941	3,933	3,925	3,921	3,915	3,911
Available Reserve	669	669	669	668	666	666	665	664
Internal Load[b]	4,024	4,012	4,008	4,001	3,993	3,988	3,982	3,978
Reserve [d]	604	602	601	600	599	598	597	597

a. Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.
b. Internal Load equals Native Load plus Interruptible Load.
c. All capacity and energy obligtions are served through Certified Retail Electric Suppliers (CRES) or through suppliers for the Standard Service Offer (SSO)
d. Reflects assumption of PJM unforced capacity obligation margin of 15% of summer peak in future periods

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

	(-5) 2014	(-4) 2015	(-3) 2016	(-2) 2017	(-1) 2018	(0) 2019	(1) 2020	(2) 2021
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases [d]	5270	5310	5080	5020	4970	5020	4666	4640
Sales								
Renewable								
Available Capability[a]	5270	5310	5080	5020	4970	5020	4666	4640
Native Load	3,662	3,702	3,417	3,713	3,619	3,583	3,576	3,568
Energy Reduction Programs[c]	0	0	0	0	0	0	0	0
Available Reserve	1,608	1,608	1,663	1,307	1,351	1,437	1,091	1,072
Internal Load[b]	3,662	3,702	3,417	3,713	3,619	3,583	3,576	3,568
Reserve [e]	1,608	1,608	1,663	1,307	1,351	1,437	1,091	1,072

	(3) 2022	(4) 2023	(5) 2024	(6) 2025	(7) 2026	(8) 2027	(9) 2028	(10) 2029
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases [d]	4627	4614	4610	4601	4592	4586	4579	4575
Sales								
Renewable								
Available Capability[a]	4627	4614	4610	4601	4592	4586	4579	4575
Native Load	3,559	3,518	3,544	3,534	3,530	3,491	3,500	3,500
Energy Reduction Programs[c]	0	0	0	0	0	0	0	0
Available Reserve	1069	1096	1066	1067	1062	1096	1079	1075
Internal Load[b]	3,559	3,518	3,544	3,534	3,530	3,491	3,500	3,500
Reserve [e]	1069	1096	1066	1067	1062	1096	1079	1075

a. Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.
b. Internal Load equals Native Load plus Interruptible Load.
c. Includes both energy efficiency and demand response
d. All capacity and energy obligtions are served through Certified Retail Electric Suppliers (CRES) or through suppliers for the Standard Service Offer (SSO)
e. Reflects assumption of PJM unforced capacity obligation margin of 15% of summer peak in future periods

PUCO Form FE-R9:
Actual and Forecast System Peak Load and Resources Dedicated to Meet System Peak Load
(Megawatts)
Winter Season

	(-5) 2014	(-4) 2015	(-3) 2016	(-2) 2017	(-1) 2018	(0) 2019	(1) 2020	(2) 2021
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases [c]	5270	5310	5080	5020	4970	5020	4666	4640
Sales								
Available Capability[a]	5270	5310	5080	5020	4970	5020	4666	4640
Native Load	3662	3702	3417	3713	3619	3583	3576	3568
Available Reserve	1608	1608	1663	1307	1351	1437	1091	1072
Internal Load[b]	3662	3702	3417	3713	3619	3583	3576	3568
Reserve [d]	1608	1608	1663	1307	1351	1437	1091	1072

	(3) 2022	(4) 2023	(5) 2024	(6) 2025	(7) 2026	(8) 2027	(9) 2028	(10) 2029
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases [c]	4627	4614	4610	4601	4592	4586	4579	4575
Sales								
Available Capability[a]	4627	4614	4610	4601	4592	4586	4579	4575
Native Load	3559	3518	3544	3534	3530	3491	3500	3500
Available Reserve	1069	1096	1066	1067	1062	1096	1079	1075
Internal Load[b]	3559	3518	3544	3534	3530	3491	3500	3500
Reserve [d]	1069	1096	1066	1067	1062	1096	1079	1075

a. Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

b. Internal Load equals Native Load plus Interruptible Load.

c. All capacity and energy obligtions are served through Certified Retail Electric Suppliers (CRES) or through suppliers for the Standard Service Offer (SSO)

d. Reflects assumption of PJM unforced capacity obligation margin of 15% of summer peak in future periods

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

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

NOT APPLICABLE

Summary: Report 2019 Long-Tern Electric Forecast Report - July 1, 2019 electronically filed by Mrs. Debbie L Gates on behalf of Duke Energy Ohio Inc. and D'Ascenzo, Rocco O. Mr. and Watts, Elizabeth H