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July 1, 2021

Ms. Tanowa Troupe, Secretary
Public Utilities Commission of Ohio
180 East Broad Street, 11th Floor
Columbus, Ohio 43215

Re: Case No. 21-0503-EL-FOR

Dear Ms. Troupe:

Duke Energy Ohio, Inc. (Duke Energy Ohio) is filing, concurrently with this letter, its '2021 Long-Term Electric Forecast Report Submitted by Duke Energy Ohio, Inc.' (Long-Term Report) as required by O.A.C. 4901:5-1-03. Due to the current COVID-19 pandemic, Duke Energy Ohio is seeking a temporary extension to O.A.C. 4901:5-1-03(B),(F), which requires bound copies of the Long-Term Report to be distributed to the Commission and to the Office of the Ohio Consumers' Counsel (OCC) upon filing. Duke Energy Ohio is electronically serving OCC upon filing but asks for an extension to deliver the bound, hard copies of the Long-Term Report due to the COVID-19 emergency parameters in place, including employees working remotely and social distancing.

Duke Energy Ohio will deliver bound copies of the Long-Term Report in compliance with O.A.C. 4901:5-1-03(B),(F), at such time as is possible.

Respectfully submitted,

/s/ Jeanne W. Kingery
Rocco O. D'Ascenzo (0077651)
Deputy General Counsel
Jeanne W. Kingery (0012172)
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Cc: Bruce Weston, Ohio Consumers' Counsel



2021

LONG-TERM ELECTRIC FORECAST

REPORT

SUBMITTED BY

DUKE ENERGY OHIO, INC.

CASE NO. 21-503-EL-FOR

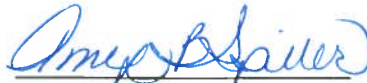
JULY 1, 2021

Rocco D'Ascenzo
Deputy General Counsel
Jeanne W. Kingery
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 2021 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 2021 ELECTRIC LONG-TERM FORECAST REPORT AND RESOURCE PLAN was served by electronic delivery, this 1st day of July, 2021 upon the following:

Office of the Ohio Consumers' Counsel

65 East State Street, 7th Floor

Columbus, OH 43215

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

/s/ Jeanne W. Kingery

Rocco D'Ascenzo (0077651)

Deputy General Counsel

Jeanne W. Kingery (0012172)

Associate General Counsel

Duke Energy Business Services LLC

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**Libraries Receiving a Letter of Notification Regarding Duke Energy Ohio, Inc.'s
2021 Long-Term Forecast Report and Resource Plan**

County	Library	Address
Brown	Mary P. Shelton Library	200 West Grant Avenue Georgetown, OH 45121 marysheltonlibrary@gmail.com
Butler	Lane Public Library	300 North Third Street Hamilton, OH 45011 c.bowling@lanepl.org
Butler	Middletown Public Library	125 South Broad Street Middletown, OH 45044 aabernathy@midpointelibrary.org
Clermont	Clermont County Public Library	180 South Third Street Batavia, OH 45103 cwick@clermontlibrary.org
Clinton	Wilmington Public Library	268 North South Street Wilmington, OH 45177 info@wilmington.lib.oh.us
Hamilton	Public Library of Cincinnati & Hamilton County	800 Vine Street Cincinnati, OH 45202 paula.brehm- heeger@cincinnatiplibrary.org
Highland	Highland County District Library	10 Willetsville Pike Hillsboro, OH 45133 director@highlandco.org
Montgomery	Dayton & Montgomery County Public Library	215 East Third Street Dayton, OH 45402 finance@daytonmetrolibrary.org
Preble	Preble County District Library	450 South Barron Street Eaton, OH 45320
Warren	Lebanon Public Library	101 South Broadway Street Lebanon, OH 45036 juliemcclellan@lebanonlibrary.org

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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 TRANSMISSION COMPANIES	(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	2016	16,545,979	3,184,661	19,730,640	19,227,267	1,349,731	20,576,998	40,307,638	13,293,957	219,634	13,513,591	26,794,047	22,570,857	4,223,190
-4	2017	21,136,419	3,708,908	24,845,327	5,624,083	10,408,958	16,033,041	40,878,368	13,398,685	1,253,227	14,651,912	25,654,763	21,371,487	4,283,277
-3	2018	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
-2	2019	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	20,902,705	4,168,329
-1	2020	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	24,501,241	20,453,323	4,041,917
0	2021											24,824,086	20,675,575	4,148,511
1	2022											24,958,329	20,748,144	4,210,185
2	2023											25,206,450	20,917,279	4,289,171
3	2024											25,327,408	21,024,397	4,303,011
4	2025											25,527,948	21,153,354	4,374,594
5	2026											25,646,012	21,272,333	4,373,679
6	2027											25,807,580	21,419,621	4,387,959
7	2028											25,995,620	21,589,737	4,405,883
8	2029											26,207,104	21,783,557	4,423,547
9	2030											26,512,732	22,025,831	4,486,901
10	2031											26,724,623	22,221,899	4,502,724

(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	<u>Summer</u>	<u>Winter (d)</u>	<u>Summer</u>	<u>Winter (d)</u>
-5	2016	4,171	3,421	4,171	3,421
-4	2017	3,957	3,713	3,957	3,713
-3	2018	4,091	3,793	4,091	3,793
-2	2019	3,932	3,169	3,976	3,169
-1	2020	3,899	3,541	3,899	3,541
0	2021	3,989	3,563	4,048	3,563
1	2022	3,996	3,581	4,055	3,581
2	2023	3,996	3,538	4,060	3,538
3	2024	3,984	3,586	4,051	3,586
4	2025	3,973	3,559	4,040	3,559
5	2026	3,970	3,550	4,037	3,550
6	2027	3,976	3,529	4,043	3,529
7	2028	3,980	3,545	4,048	3,545
8	2029	3,976	3,573	4,044	3,573
9	2030	3,981	3,561	4,049	3,561
10	2031	3,980	3,535	4,047	3,535

(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. (note: 2020 winter peak is preliminary value)

(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	2016	4,167	3,975	4,167	3,975
-4	2017	4,053	3,702	4,053	3,702
-3	2018	4,049	3,401	4,049	3,401
-2	2019	3,932	3,169	3,957	3,713
-1	2020	3,899	3,541	3,899	3,541
0	2021	3,986	3,594	4,045	3,594
1	2022	4,008	3,643	4,068	3,643
2	2023	4,020	3,681	4,085	3,681
3	2024	4,024	3,683	4,091	3,683
4	2025	4,032	3,764	4,100	3,764
5	2026	4,052	3,766	4,120	3,766
6	2027	4,064	3,761	4,132	3,761
7	2028	4,078	3,748	4,145	3,748
8	2029	4,087	3,776	4,154	3,776
9	2030	4,101	3,844	4,169	3,844
10	2031	4,107	3,858	4,174	3,858

(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. Winter Peak for 2020 is a preliminary value

(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)

<u>2021 (d)</u>	<u>Ohio Portion (a)</u>	<u>Total Company (b)</u>	<u>Total System (c)</u>
January	1,834,141	1,834,141	1,834,141
February	1,650,454	1,650,454	1,650,454
March	1,622,841	1,622,841	1,622,841
April	1,518,256	1,518,256	1,518,256
May	1,565,354	1,565,354	1,565,354
June	1,805,932	1,805,932	1,805,932
July	2,018,969	2,018,969	2,018,969
August	1,981,631	1,981,631	1,981,631
September	1,748,929	1,748,929	1,748,929
October	1,560,381	1,560,381	1,560,381
November	1,560,657	1,560,657	1,560,657
December	1,808,029	1,808,029	1,808,029
<u>2022 (d)</u>			
January	1,823,272	1,823,272	1,823,272
February	1,639,934	1,639,934	1,639,934
March	1,599,355	1,599,355	1,599,355
April	1,445,223	1,445,223	1,445,223
May	1,556,040	1,556,040	1,556,040
June	1,812,784	1,812,784	1,812,784
July	2,144,037	2,144,037	2,144,037
August	2,001,104	2,001,104	2,001,104
September	1,868,000	1,868,000	1,868,000
October	1,547,217	1,547,217	1,547,217
November	1,568,539	1,568,539	1,568,539
December	1,742,639	1,742,639	1,742,639

- (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 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)

<u>2021 (d)</u>	Ohio Portion ^a	Total Service Area ^b	System ^c
January	3,594	3,594	3,594
February	3,151	3,151	3,151
March	2,729	2,729	2,729
April	2,444	2,444	2,444
May	3,166	3,166	3,166
June	3,718	3,718	3,718
July	4,045	4,045	4,045
August	4,000	4,000	4,000
September	3,671	3,671	3,671
October	2,693	2,693	2,693
November	3,040	3,040	3,040
December	3,324	3,324	3,324
<u>2022 (d)</u>			
January	3,643	3,643	3,643
February	3,160	3,160	3,160
March	2,736	2,736	2,736
April	2,458	2,458	2,458
May	3,179	3,179	3,179
June	3,737	3,737	3,737
July	4,068	4,068	4,068
August	4,021	4,021	4,021
September	3,689	3,689	3,689
October	2,705	2,705	2,705
November	3,048	3,048	3,048
December	3,329	3,329	3,329

- (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 2020.

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

PART A: SOURCES OF ENERGY

Reporting Month

Jan-20

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	1,605,846	0	1,605,846
Energy Receipts from other sources	1,820,952	0	1,820,952
Total Energy Receipts	3,426,798	0	3,426,798

PART B: DELIVERY OF ENERGY

Reporting Month

Jan-20

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	2,057,504	0	2,057,504
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	37,792	0	37,792
Municipal-Owned Electric Systems	99,168	0	99,168
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,187,032	0	1,187,032
Total Energy Delivery	1,323,993	0	3,381,497

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

Reporting Month

Jan-20

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	1,713,653	0	1,713,653
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)	1,094,164	0	1,094,164
Total Energy Delivery	1,094,164	0	2,807,817

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Jan-20

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	2,102,805	0	45,301

(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-20

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	1,596,157	0	1,596,157
Energy Receipts from other sources	1,661,172	0	1,661,172
Total Energy Receipts	3,257,329	0	3,257,329

PART B: DELIVERY OF ENERGY

Reporting Month

Feb-20

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	1,940,959	0	1,940,959
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	36,453	0	36,453
Municipal-Owned Electric Systems	93,797	0	93,797
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,049,602	0	1,049,602
Total Energy Delivery	1,179,852	0	3,120,811

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

Reporting Month

Feb-20

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	1,613,619	0	1,613,619
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)	961,492	0	961,492
Total Energy Delivery	961,492	0	2,575,111

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Feb-20

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	2,077,477	0	136,518

(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-20

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	1,391,145	0	1,391,145
Energy Receipts from other sources	1,633,722	0	1,633,722
Total Energy Receipts	3,024,867	0	3,024,867

PART B: DELIVERY OF ENERGY

Reporting Month

Mar-20

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	1,880,400	0	1,880,400
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	31,873	0	31,873
Municipal-Owned Electric Systems	87,345	0	87,345
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,098,061	0	1,098,061
Total Energy Delivery	1,217,279	0	3,097,679

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

Reporting Month

Mar-20

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	1,566,813	0	1,566,813
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)	1,012,079	0	1,012,079
Total Energy Delivery	1,012,079	0	2,578,892

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Mar-20

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	1,807,588	0	(72,812)

(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-20

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	776,035	0	776,035
Energy Receipts from other sources	1,748,424	0	1,748,424
Total Energy Receipts	2,524,459	0	2,524,459

PART B: DELIVERY OF ENERGY

Reporting Month

Apr-20

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	1,616,730	0	1,616,730
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	26,282	0	26,282
Municipal-Owned Electric Systems	75,744	0	75,744
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	866,996	0	866,996
Total Energy Delivery	969,021	0	2,585,751

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

Reporting Month

Apr-20

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	1,345,991	0	1,345,991
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)	787,413	0	787,413
Total Energy Delivery	787,413	0	2,133,404

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Apr-20

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	1,555,437	0	(61,293)

(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-20

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	1,160,549	0	1,160,549
Energy Receipts from other sources	1,576,764	0	1,576,764
Total Energy Receipts	2,737,313	0	2,737,313

PART B: DELIVERY OF ENERGY

Reporting Month

May-20

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	1,565,482	0	1,565,482
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	27,602	0	27,602
Municipal-Owned Electric Systems	84,711	0	84,711
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	940,087	0	940,087
Total Energy Delivery	1,052,400	0	2,617,882

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

Reporting Month

May-20

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	1,309,999	0	1,309,999
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)	853,353	0	853,353
Total Energy Delivery	853,353	0	2,163,352

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

May-20

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	1,684,913	0	119,431

(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-20

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	1,722,677	0	1,722,677
Energy Receipts from other sources	1,645,450	0	1,645,450
Total Energy Receipts	3,368,126	0	3,368,126

PART B: DELIVERY OF ENERGY

Reporting Month

Jun-20

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	1,886,951	0	1,886,951
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	32,042	0	32,042
Municipal-Owned Electric Systems	105,550	0	105,550
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,171,678	0	1,171,678
Total Energy Delivery	1,309,270	0	3,196,221

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

Reporting Month

Jun-20

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	1,573,382	0	1,573,382
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)	1,066,959	0	1,066,959
Total Energy Delivery	1,066,959	0	2,640,341

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Jun-20

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	2,058,857	0	171,905

(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-20

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	2,060,120	0	2,060,120
Energy Receipts from other sources	1,968,101	0	1,968,101
Total Energy Receipts	4,028,220	0	4,028,220

PART B: DELIVERY OF ENERGY

Reporting Month

Jul-20

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	2,235,040	0	2,235,040
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	38,129	0	38,129
Municipal-Owned Electric Systems	126,339	0	126,339
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,382,718	0	1,382,718
Total Energy Delivery	1,547,185	0	3,782,225

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

Reporting Month

Jul-20

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	1,852,660	0	1,852,660
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)	1,261,147	0	1,261,147
Total Energy Delivery	1,261,147	0	3,113,807

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Jul-20

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	2,481,035	0	245,995

(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-20

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	2,082,813	0	2,082,813
Energy Receipts from other sources	1,679,462	0	1,679,462
Total Energy Receipts	3,762,275	0	3,762,275

PART B: DELIVERY OF ENERGY

Reporting Month

Aug-20

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	2,233,834	0	2,233,834
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	34,406	0	34,406
Municipal-Owned Electric Systems	114,420	0	114,420
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,359,731	0	1,359,731
Total Energy Delivery	1,508,557	0	3,742,391

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

Reporting Month

Aug-20

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	1,860,443	0	1,860,443
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)	1,245,746	0	1,245,746
Total Energy Delivery	1,245,746	0	3,106,189

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Aug-20

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	2,253,718	0	19,884

(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-20

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	1,541,214	0	1,541,214
Energy Receipts from other sources	1,486,089	0	1,486,089
Total Energy Receipts	3,027,304	0	3,027,304

PART B: DELIVERY OF ENERGY

Reporting Month

Sep-20

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	2,141,487	0	2,141,487
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	28,752	0	28,752
Municipal-Owned Electric Systems	96,323	0	96,323
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	997,654	0	997,654
Total Energy Delivery	1,122,729	0	3,264,216

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

Reporting Month

Sep-20

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	1,783,710	0	1,783,710
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)	898,847	0	898,847
Total Energy Delivery	898,847	0	2,682,557

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Sep-20

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	1,904,575	0	(236,913)

(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-20

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	1,518,742	0	1,518,742
Energy Receipts from other sources	1,256,489	0	1,256,489
Total Energy Receipts	2,775,231	0	2,775,231

PART B: DELIVERY OF ENERGY

Reporting Month

Oct-20

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	1,720,819	0	1,720,819
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	27,259	0	27,259
Municipal-Owned Electric Systems	85,007	0	85,007
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	951,182	0	951,182
Total Energy Delivery	1,063,448	0	2,784,268

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

Reporting Month

Oct-20

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	1,437,389	0	1,437,389
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)	861,486	0	861,486
Total Energy Delivery	861,486	0	2,298,875

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Oct-20

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	1,711,782	0	(9,037)

(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-20

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	1,720,496	0	1,720,496
Energy Receipts from other sources	1,139,995	0	1,139,995
Total Energy Receipts	2,860,491	0	2,860,491

PART B: DELIVERY OF ENERGY

Reporting Month

Nov-20

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	1,725,340	0	1,725,340
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	29,195	0	29,195
Municipal-Owned Electric Systems	84,736	0	84,736
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,042,722	0	1,042,722
Total Energy Delivery	1,156,654	0	2,881,994

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

Reporting Month

Nov-20

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	1,445,081	0	1,445,081
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)	954,982	0	954,982
Total Energy Delivery	954,982	0	2,400,063

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Nov-20

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	1,703,837	0	(21,503)

(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-20

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	1,811,891	0	1,811,891
Energy Receipts from other sources	1,501,277	0	1,501,277
Total Energy Receipts	3,313,168	0	3,313,168

PART B: DELIVERY OF ENERGY

Reporting Month

Dec-20

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	2,013,145	0	2,013,145
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	37,267	0	37,267
Municipal-Owned Electric Systems	98,339	0	98,339
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,105,402	0	1,105,402
Total Energy Delivery	1,241,008	0	3,254,153

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

Reporting Month

Dec-20

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	1,673,463	0	1,673,463
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)	1,013,516	0	1,013,516
Total Energy Delivery	1,013,516	0	2,686,979

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Dec-20

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	2,072,159	0	59,014

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

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month JANUARY

Megawatts	3362	Day of Week	Wednesday	Day of Month	22	Hour of Peak	8:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				23	0	23	
Requests (MW)				4,010	0	4,010	
Number of requests accepted				1	0	1	
Requests accepted (MW)				160	0	160	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,850	0	3,850	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month FEBRUARY

Megawatts	3,351	Day of Week	Friday	Day of Month	14	Hour of Peak	9:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				23	0	23	
Requests (MW)				4,010	0	4,010	
Number of requests accepted				1	0	1	
Requests accepted (MW)				160	0	160	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,850	0	3,850	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month MARCH

Megawatts	2,841	Day of Week	Friday	Day of Month	6	Hour of Peak	12:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				23		23	
Requests (MW)				4,010		4,010	
Number of requests accepted				1		1	
Requests accepted (MW)				160		160	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,850		3,850	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month APRIL

Megawatts	2,528	Day of Week	Wednesday	Day of Month	16	Hour of Peak	7:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				23		23	
Requests (MW)				4,010		4,010	
Number of requests accepted				1		1	
Requests accepted (MW)				160		160	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,850		3,850	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month MAY

Megawatts	3,501	Day of Week	Tuesday	Day of Month	26	Hour of Peak	17:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				23	0	23	
Requests (MW)				4,010	0	4,010	
Number of requests accepted				1	0	1	
Requests accepted (MW)				160	0	160	
Requests not accepted (MW) and reason for not accepting delivery				3,850	0	3,850	Reason for non-delivery Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month JUNE

Megawatts	3,900	Day of Week	Wednesday	Day of Month	10	Hour of Peak	15:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				23		23	
Requests (MW)				4,010		4,010	
Number of requests accepted				1		1	
Requests accepted (MW)				160		160	
Requests not accepted (MW) and reason for not accepting delivery				3,850	0	3,850	Reason for non-delivery Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month JULY

Megawatts	4,160	Day of Week	Tuesday	Day of Month	21	Hour of Peak	17:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				23	0	23	
Requests (MW)				4,010	0	4,010	
Number of requests accepted				1	0	1	
Requests accepted (MW)				160	0	160	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,850	0	3,850	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month AUGUST

Megawatts	4,149	Day of Week	Tuesday	Day of Month	25	Hour of Peak	16:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				23	0	23	
Requests (MW)				4,010	0	4,010	
Number of requests accepted				1	0	1	
Requests accepted (MW)				160	0	160	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,850	0	3,850	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month SEPTEMBER

Megawatts	3,949	Day of Week	Tuesday	Day of Month	8	Hour of Peak	16:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				23	0	23	
Requests (MW)				4,010	0	4,010	
Number of requests accepted				1	0	1	
Requests accepted (MW)				160	0	160	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,850	0	3,850	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month OCTOBER

Megawatts	2,621	Day of Week	Friday	Day of Month	23	Hour of Peak	16:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				23	0	23	
Requests (MW)				4,010	0	4,010	
Number of requests accepted				1	0	1	
Requests accepted (MW)				160	0	160	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,850	0	3,850	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month NOVEMBER

Megawatts	3,025	Day of Week	Monday	Day of Month	30	Hour of Peak	19:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				23	0	23	
Requests (MW)				4,010	0	4,010	
Number of requests accepted				1	0	1	
Requests accepted (MW)				160	0	160	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,850	0	3,850	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month DECEMBER

Megawatts	3,122	Day of Week	Friday	Day of Month	25	Hour of Peak	21:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				23	0	23	
Requests (MW)				4,010	0	4,010	
Number of requests accepted				1	0	1	
Requests accepted (MW)				160	0	160	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,850	0	3,850	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-South Fairmount	Mitchell	South Fairmount	267	267	300	300	138	138	3.88	100	Steel Tower	2	Cumminsville
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	
1581	South Fairmount-West End	South Fairmount	West End	268	268	337	337	138	138	4.39	100	Steel Tower	2	Metro Sewer Dist., Queensgate
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	Allen-Terminal	Pole No.R17-673	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	
1985	Dicks Creek-AK Steel	Dicks Creek	AK Steel	273	287	299	299	138	138	1.61	100	Steel Pole & Steel Tower	2	
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	

DUKE ENERGY OHIO
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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	Wards Corner
	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	Structure 69B	Rockies Express	478	478	478	478	138	138	0.67	50	Steel Pole	1	
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
5484	Foster-Warren	Foster	Warren	253	308	339	378	138	138	8.7	100	Wood pole	1	Maineville, Columbia
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
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-Dicks Creek	Todhunter	Dicks Creek	302	302	337	337	138	138	1.00	100	Steel Pole & Steel Tower	2	
5686	Todhunter-AK Steel	Todhunter	AK Steel	273	287	299	299	138	138	2.34	100	Steel Tower	2	
5689	Todhunter-Garver	Pole 75-02	Garver	603	603	757	757	138	138	0.17	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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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					
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	266	266	333	333	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	
7581	Garver-Rockies Express													
	Section 1	Garver	Pole 75-01	603	603	757	757	138	138	0.2	100	Steel Pole	1	
	Section 2	Structure 69B	Rockies Express	478	478	478	478	138	138	0.63	50	Steel Pole	1	
7582	Garver-Carlisle													
	Section 1	Garver	Carlisle	298	298	374	374	138	138	9.9	50	Wood & Steel Pole	1	Union
	Section 2	Pole 221	Rockies Express	301	301	378	378	138	138	1.46	50	Wood Pole	1	Rockies Express
7583	Garver-AK Steel Sta. 606	Garver	AK Steel Sta. 606	291	291	359	359	138	138	1.17	100	Steel Pole	1	
8281	Rochelle-Whittier	Rochelle	Whittier	289	289	289	289	138	138	1.2	50	Underground	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	
8368	Yankee-Manchester	Tower No. 17	Tower No. 20	113	137	151	168	69	138	0.55	100	Steel Tower	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	
8881	Hillcrest-Innergex	Hillcrest	Innergex Solar switch no. 89-T	286	286	286	286	138	138	0.02	100	Steel 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
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	

DUKE ENERGY OHIO
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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-Garver	Todhunter	Pole 75-02	478	478	478	478	138	345	1.75	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
7581	Garver-Rockies Express	Pole 75-01	Structure 69B	478	478	478	478	138	345	0.93	150	Steel Tower	2	

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
AK Steel	T	138	Todhunter-AK Steel	5686	Existing
			Garver-AK Steel	7583	Existing
			Dicks Creek-AK Steel	1985	Existing
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-Tobasco	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	Garver-Carlisle	7582	Existing
Cedarville	D	138	Foster-Cedarville	5489	Existing
			Cedarville-Ford-Batavia	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	West End -South Fairmount	1581	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
			Trenton-Collinsville	3281	Proposed
			Collinsville-College Corner	9085	Proposed
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
Cummins ville	D	138	Mitchell-South Fairmount	1286	Existing
Deer Park	D	138	Red Bank-Terminal	7481	Existing
Dicks Creek	T	138	Todhunter-Dicks Creek	5682	Existing
			Dicks Creek-AK Steel	1985	Existing
Dimmick	D	138	Foster-Port Union	5483	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
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	Cedarville-Ford-Batavia	2986	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 & 138	Foster-Garver	4515	Existing
			Todhunter-Garver	34582	Existing
			Garver-Rockies Express	7581	Existing
			Garver-Todhunter	5689	Existing
			Garver-Carlisle	7582	Existing
			Garver-AK Steel	7583	Existing
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-Innergex	8881	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)

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
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-Central	1288	Existing
			Mitchell-South Fairmount	1286	Existing
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
			Port Union-Fairfield	3885	Existing
			West End -South Fairmount	1581	Existing
Provident	D	138	Red Bank-Terminal	7481	Existing
Queensgate	D	138	Lateral-Red Bank	4187	Existing
Red Bank	T	345 & 138	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-Beckjord	9482	Existing
			Foster-Remington	5484	Existing
			Ridgeway-Whittier	8281	Existing
			Rochelle-Charles	8283	Existing
Rochelle	D	138	Rochelle-Terminal	8286	Existing
			Shaker Run-Rockies Express	5381	Existing
			Garver-Rockies Express	7581	Existing
			Garver-Carlisle	7582	Existing
Seward	D	138	Port Union-Hamilton	3889	Existing
Shaker Run	D	138	Foster-Shaker Run	5485	Existing
			Shaker Run-Rockies Express	5381	Existing
			Foster-Port Union	5483	Existing
Simpson	D	138	Foster-Port Union	5483	Existing
Socialville	D	138	Montgomery-Socialville	TBD	Proposed
			West End- South Fairmount	1581	Existing
			Mitchell- South Fairmount	1286	Existing
SCP Eastwood	T	138	Hillcrest-Eastwood	8887	Existing
Stuart	T	345 & 138	Stuart-Brown	5886	Existing
Summerside	D	138	Beckjord-Oakley-Summerside	886	Existing
			Port Union-Summerside	3881	Existing
			Summerside-Beckjord	6984	Existing
			Elmwood-Terminal	689	Existing
Terminal	T & D	345 & 138	Mitchell-Terminal	1284	Existing
			Terminal-Allen	1762	Existing
			Terminal-Glenview	1782	Existing
			Terminal-Ebenezer	1783	Existing
			Evendale-Terminal	4685	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
			Red Bank-Terminal	7481	Existing
			Rochelle-Terminal	8286	Existing
			Willey-Terminal	9787	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
			Trenton-Todhunter	3284	Existing
Todhunter	T & D	345 & 138	Port Union-Todhunter	3887	Existing
			Port Union-Todhunter	3888	Existing
			Todhunter-Monroe	5667	Existing
			Warren-Todhunter	5680	Existing
			Todhunter-Dicks Creek	5682	Existing
			Todhunter-AK Steel	5686	Existing
			Todhunter-Garver	5689	Existing
			Woodsdale-Todhunter	4561	Existing
			Woodsdale-Todhunter	4562	Existing
			Garver-Todhunter	34582	Existing
			Trenton-College Corner	3281	Existing
			Trenton-Todhunter	3284	Existing
			Trenton-Hutchings	13803	Existing
			Trenton-College Corner	13803	Existing
Trenton	D	138	Trenton-Air Products	3263	Existing
			Foster-Port Union	5483	Existing
			Garver-Carlisle	7582	Existing
			Summerside-Port Union	3881	Existing
			Foster-Warren	5484	Existing
Twenty Mile Union	D	138	Warren-Todhunter	5680	Existing
			Warren-Clinton County	2381	Existing
			West End -South Fairmount	1581	Existing
			Charles-West End	1385	Existing
			Charles-West End	1389	Existing
			Crescent-West End	1587	Existing
			Wilder-West End	5985	Existing
Whittier	D	138	South Fairmount-West End	1581	Existing
			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
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1. Line Name: Foster-Warren
Line Number: DEO-A5484
2. Point of Origin: Tap Feeder 5484 (Foster side)
Terminus: Columbia Substation (proposed)
3. Right-of-Way, Length: approximately 1,820 feet
Average Width: 50 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 11/6/2018
6. Construction to 12/2018
Commence:
Commercial Operation: 3/2022
7. Capital Investment: \$1,300,000
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.
PJM Project No.: s0451

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: | 9/2023 |
| 6. | Construction to
Commence:
Commercial Operation: | 3/2024

12/2025 |
| 7. | Capital Investment: | \$4,850,000 |
| 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.
PJM Project No.: conceptual |

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-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: | 2,714 feet in Ohio, total length of line is 3.8 miles
150 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 345 kV design and operate voltage |
| 5. | Application for Certificate: | 1/2021 |
| 6. | Construction to
Commence:
Commercial Operation: | 3/2021

5/2021 |
| 7. | Capital Investment: | \$21,700,000 (entire project, majority outside State of Ohio) |
| 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.
PJM Project No.: b2831.2 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
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: | 1/2021 |
| 6. | Construction to
Commence:
Commercial Operation: | 2/2021

12/2021 |
| 7. | Capital Investment: | \$7,750,000 |
| 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.
PJM Project No.: s1236 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1. Line Name: Willey-Miami Fort
Line Number: DEO-A9784
2. Point of Origin: Structure 123H-X2-39
Terminus: N/A
3. Right-of-Way, Length: N/A
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 1/2021
6. Construction to 2/2021
Commence:
Commercial Operation: 12/2021
7. Capital Investment: N/A (all costs included on DEO-A5783 project)
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Required for 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.
PJM Project No.: s1236

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)
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: | 9/2027 |
| 6. | Construction to
Commence:
Commercial Operation: | 1/2028

6/2028 |
| 7. | Capital Investment: | \$100,000 |
| 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.
PJM Project No.: s1992 |

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)
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: | 9/2027 |
| 6. | Construction to
Commence:
Commercial Operation: | 1/2028

6/2028 |
| 7. | Capital Investment: | \$100,000 |
| 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.
PJM Project No.: s1992 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Foster-Remington
DEO-A5487 |
| 2. | Point of Origin:
Terminus: | Tap Feeder 5487 (Foster 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: | 9/2027 |
| 6. | Construction to
Commence:
Commercial Operation: | 1/2028

6/2028 |
| 7. | Capital Investment: | \$240,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Reconfigure DEO-A5487 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.
PJM Project No.: s1992 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Foster-Remington
DEO-A5487 |
| 2. | Point of Origin:
Terminus: | Tap Feeder 5487 (Remington 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: | 9/2027 |
| 6. | Construction to
Commence:
Commercial Operation: | 1/2028

6/2028 |
| 7. | Capital Investment: | \$240,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Reconfigure DEO-A5487 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.
PJM Project No.: s1992 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Foster-Port Union
DEO-A5483 |
| 2. | Point of Origin:
Terminus: | Feeder 5483
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: | 9/2027 |
| 6. | Construction to
Commence:
Commercial Operation: | 1/2028

6/2028 |
| 7. | Capital Investment: | \$200,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Reconfigure DEO-A5487 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.
PJM Project No.: s1992 |

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-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: | 9/2027 |
| 6. | Construction to
Commence:
Commercial Operation: | 1/2028

6/2028 |
| 7. | Capital Investment: | \$1,400,000 |
| 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.
PJM Project No.: s1992 |

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: | \$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: | 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.
PJM Project No.: conceptual |

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: | 3/2024 |
| 6. | Construction to Commence:
Commercial Operation: | 9/2024
12/2024 |
| 7. | Capital Investment: | \$725,000 |
| 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
PJM Project No.: conceptual |

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: | 3/2024 |
| 6. | Construction to
Commence:
Commercial Operation: | 9/2024

12/2024 |
| 7. | Capital Investment: | \$725,000 |
| 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
PJM Project No.: conceptual |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1. Line Name: College Corner-Trenton
Line Number: DEO-A3281
2. Point of Origin: Structure 26BT-X2-66
Terminus: Collinsville Substation (Trenton side)
3. Right-of-Way, Length: approximately 500 feet
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2021
6. Construction to 3/2022
Commence:
Commercial Operation: 12/2023
7. Capital Investment: \$175,000
8. Substations: none
9. Supporting Structures: steel pole
10. Participation with other DEO – 100%
Utilities:
11. Purpose of the planned Re-route DEO-A3281 to accommodate substation
transmission line: expansion.
12. Consequences of Line Inability to expand substation to enhance system
Construction deferment or reliability.
Termination:
13. Miscellaneous: Area to be served is primarily Butler County.
PJM Project No.: conceptual

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: | 9/2021 |
| 6. | Construction to
Commence:
Commercial Operation: | 3/2022

12/2023 |
| 7. | Capital Investment: | \$750,000 |
| 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.
PJM Project No.: conceptual |

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: | 9/2021 |
| 6. | Construction to
Commence:
Commercial Operation: | 3/2022

12/2023 |
| 7. | Capital Investment: | \$175,000 |
| 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.
PJM Project No.: conceptual |

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: | 5/2021 |
| 6. | Construction to
Commence:
Commercial Operation: | 2/2022

6/2022 |
| 7. | Capital Investment: | \$100,000 |
| 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 3 rd party-owned
generation facilities from Duke Energy Ohio
transmission system. |
| 13. | Miscellaneous: | Area to be served is primarily Hamilton County.
PJM Project No.: s0909 |

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: | 1/2021 |
| 6. | Construction to
Commence:
Commercial Operation: | 3/2021

12/2021 |
| 7. | Capital Investment: | \$5,500,000 |
| 8. | Substations: | Pierce Substation |
| 9. | Supporting Structures: | steel pole |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Relocate 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.
PJM Project No.: b2977 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Beckjord-Wilder
DEO-A1881 |
| 2. | Point of Origin:
Terminus: | Structure 2C-X2-1
Beckjord Substation |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | To be determined
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for
Certificate: | 6/2022 |
| 6. | Construction to
Commence:
Commercial Operation: | 12/2022

6/2023 |
| 7. | Capital Investment: | \$150,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Reroute/relocate/raise circuit as required to route
new 69 kV circuit out of Beckjord Substation. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Inability to route new 69 kV circuit out of Beckjord
Substation to provide additional 69 kV system
capacity and enhanced reliability, |
| 13. | Miscellaneous: | Area to be served is primarily Clermont County.
PJM Project No.: s2181 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Beckjord-Pierce
DEO-A1887 |
| 2. | Point of Origin:
Terminus: | Structure 2C-X5-1
Beckjord Substation |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | To be determined
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for
Certificate: | 6/2022 |
| 6. | Construction to
Commence:
Commercial Operation: | 12/2022

6/2023 |
| 7. | Capital Investment: | \$100,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Reroute/relocate/raise circuit as required to route
new 69 kV circuit out of Beckjord Substation. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Inability to route new 69 kV circuit out of Beckjord
Substation to provide additional 69 kV system
capacity and enhanced reliability, |
| 13. | Miscellaneous: | Area to be served is primarily Clermont County.
PJM Project No.: s2181 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Beckjord-Pierce
DEO-A1889 |
| 2. | Point of Origin:
Terminus: | Structure 2C-X5-1
Beckjord Substation |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | To be determined
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for
Certificate: | 6/2022 |
| 6. | Construction to
Commence:
Commercial Operation: | 12/2022

6/2023 |
| 7. | Capital Investment: | \$130,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Reroute/relocate/raise circuit as required to route
new 69 kV circuit out of Beckjord Substation. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Inability to route new 69 kV circuit out of Beckjord
Substation to provide additional 69 kV system
capacity and enhanced reliability, |
| 13. | Miscellaneous: | Area to be served is primarily Clermont County.
PJM Project No.: s2181 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Beckjord-Wilder
DEO-A5988 |
| 2. | Point of Origin:
Terminus: | Structure 2C-X2-1
Beckjord Substation |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | To be determined
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for
Certificate: | 6/2022 |
| 6. | Construction to
Commence:
Commercial Operation: | 12/2022

6/2023 |
| 7. | Capital Investment: | \$15,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Reroute/relocate/raise circuit as required to route
new 69 kV circuit out of Beckjord Substation. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Inability to route new 69 kV circuit out of Beckjord
Substation to provide additional 69 kV system
capacity and enhanced reliability, |
| 13. | Miscellaneous: | Area to be served is primarily Clermont County.
PJM Project No.: s2181 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|--|
| 1. | Line Name:
Line Number: | Beckjord-Summerside
DEO-A6984 |
| 2. | Point of Origin:
Terminus: | Structure 2C-X3-3
N/A |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | To be determined
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 6/2022 |
| 6. | Construction to
Commence:
Commercial Operation: | 12/2022

6/2023 |
| 7. | Capital Investment: | \$100,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel tower |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Modify circuit DEO-A6984 to remove loop through
Clermont Substation due to retirement of
substation. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Inability to retire Clermont Substation. |
| 13. | Miscellaneous: | Area to be served is primarily Clermont County.
PJM Project No.: s2181 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Garver-Carlisle
DEO-A7582 |
| 2. | Point of Origin:
Terminus: | Structure W76-37
Carlisle Substation |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 350 feet
Road right-of-way
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for
Certificate: | 12/2024 |
| 6. | Construction to
Commence:
Commercial Operation: | 6/2025

12/2025 |
| 7. | Capital Investment: | \$850,000 |
| 8. | Substations: | None |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Changes occurring at Carlisle Substation which
require change in take-off structure. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Inability to upgrade substation. |
| 13. | Miscellaneous: | Area to be served is northwestern Warren County.
PJM Project No.: conceptual |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | West End-South Fairmount
DEO-A1581 |
| 2. | Point of Origin:
Terminus: | Structure M8-X1-18 (or vicinity)
Camp Washington (new) |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 2,000 feet
150 feet
2 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 6/2024 |
| 6. | Construction to
Commence:
Commercial Operation: | 12/2024

12/2025 |
| 7. | Capital Investment: | \$7,500,000 |
| 8. | Substations: | Camp Washington |
| 9. | Supporting Structures: | steel 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 central Hamilton
County.
PJM Project No.: conceptual |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Wilder-Brighton
DEO-A2166 |
| 2. | Point of Origin:
Terminus: | Structure M8-X1-18 (or vicinity)
N/A |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | N/A
150 feet
2 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 6/2024 |
| 6. | Construction to
Commence:
Commercial Operation: | 12/2024

12/2025 |
| 7. | Capital Investment: | \$1,700,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel 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 central Hamilton
County.
PJM Project No.: conceptual |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|--|
| 1. | Line Name: | Mitchell-Brighton |
| | Line Number: | DEO-A1263 |
| 2. | Point of Origin: | Structure M8-X1-18 (or vicinity) |
| | Terminus: | N/A |
| 3. | Right-of-Way, Length: | N/A |
| | Average Width: | 150 feet |
| | Number of Circuits: | 2 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 6/2024 |
| 6. | Construction to | 12/2024 |
| | Commence: | |
| | Commercial Operation: | 12/2025 |
| 7. | Capital Investment: | \$6,300,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel 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 central Hamilton County.
PJM Project No.: conceptual |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1. Line Name: Warren-Clinton county
Line Number: DEO-A2381
2. Point of Origin: Structure WRO-9584
Terminus: Structure CTO-248
3. Right-of-Way, Length: approximately 2.1 miles
Average Width: 90 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 12/2020
6. Construction to 8/2021
Commence:
Commercial Operation: 12/2021
7. Capital Investment: \$5,250,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other DEO – 100%
Utilities:
11. Purpose of the planned Replace deteriorated structures.
transmission line:
12. Consequences of Line Failure of existing structures.
Construction deferment or
Termination:
13. Miscellaneous: Area to be served is primarily northern Butler
County.
PJM Project No.: not required

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Mitchell-Brighton
DEO-A1263 |
| 2. | Point of Origin:
Terminus: | Structure M11-X1-31
N/A |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | N/A
100 feet
2 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design, 69 kV operate voltage |
| 5. | Application for Certificate: | 2/11/2020 |
| 6. | Construction to
Commence:
Commercial Operation: | 9/2020

To be determined |
| 7. | Capital Investment: | \$6,000,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel 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 central Hamilton
County.
PJM Project No.: not required |

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 O12-538
Structure O12-539 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 1,250 feet
30 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 1/23/2020 |
| 6. | Construction to
Commence:
Commercial Operation: | 9/2020

12/2021 |
| 7. | Capital Investment: | \$3,600,000 |
| 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.
PJM Project No.: not required |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Beckjord-Remington
DEO-A9482 |
| 2. | Point of Origin:
Terminus: | Structure 10C-X4-210
Remington Substation |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 100 feet
On Duke energy property
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for
Certificate: | 9/2023 |
| 6. | Construction to
Commence:
Commercial Operation: | 3/2024

12/2024 |
| 7. | Capital Investment: | \$400,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Relocation of DEO-A9482 to accommodate
substation expansion. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Inability to expand and modify substation for
increased operational flexibility and reliability. |
| 13. | Miscellaneous: | Area to be served is primarily eastern Hamilton
County and west Clermont County.
PJM Project No.: s1744 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Foster-Remington
DEO-A5487 |
| 2. | Point of Origin:
Terminus: | Structure 10C-X4-210
Remington Substation |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 100 feet
On Duke Energy property
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for
Certificate: | 9/2023 |
| 6. | Construction to
Commence:
Commercial Operation: | 3/2024

12/2024 |
| 7. | Capital Investment: | \$160,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Relocation of DEO-A5487 to accommodate
substation expansion. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Inability to expand and modify substation for
increased operational flexibility and reliability. |
| 13. | Miscellaneous: | Area to be served is primarily eastern Hamilton
County and west Clermont County.
PJM Project No.: s1744 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|--|---|
| 1. | Line Name:
Line Number: | Eastwood-Ford-Batavia
DEO-A8481 |
| 2. | Point of Origin:
Terminus: | Half Acre Substation (Eastwood side)
Approximately pole 53C-794 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | Approximately 600 feet
100 feet
1 |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 9/2021 |
| 6. | Construction to Commence:
Commercial Operation: | 1/2022
11/2022 |
| 7. | Capital Investment: | \$700,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other Utilities: | DEO – 100% |
| 11. | Purpose of the planned transmission line: | To provide transmission supply to the new Half Acre Substation, which will provide 34.5 kV distribution system capacity and enhanced reliability. |
| 12. | Consequences of Line Construction deferment or Termination: | Inability to supply 34.5 kV distribution load and enhance reliability. |
| 13. | Miscellaneous: | Area to be served is primarily Clermont County
PJM Project No.: s2425 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Eastwood-Ford-Batavia
DEO-A8481 |
| 2. | Point of Origin:
Terminus: | Half Acre Substation (Ford-Batavia side)
Approximately pole 53C-790 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | Approximately 600 feet
On Duke Energy property
1 |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 9/2021 |
| 6. | Construction to Commence:
Commercial Operation: | 1/2022
6/2023 |
| 7. | Capital Investment: | \$700,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | To provide transmission supply to the new Half Acre
Substation, which will provide 34.5 kV distribution system
capacity and enhanced reliability. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Inability to supply 34.5 kV distribution load and enhance
reliability. |
| 13. | Miscellaneous: | Area to be served is primarily Clermont County
PJM Project No.: s2425 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name: | Pierce 345 kV Bus |
| | Line Number: | N/A (substation bus connection, no circuit no. assigned) |
| 2. | Point of Origin: | Pierce Substation |
| | Terminus: | Pierce Substation |
| 3. | Right-of-Way, Length: | approximately 500 feet |
| | Average Width: | On Duke Energy-owned property |
| | Number of Circuits: | 1 transmission line above 125 kV |
| 4. | Voltage: | 345 kV design and operate voltage |
| 5. | Application for Certificate: | 9/2020 |
| 6. | Construction to Commence: | 11/2020 |
| | Commercial Operation: | 6/2021 |
| 7. | Capital Investment: | \$950,000 |
| 8. | Substations: | None |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other Utilities: | DEO – 100% |
| 11. | Purpose of the planned transmission line: | Establish new 345 kV bus connection in Pierce Substation. |
| 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.
PJM Project No.: b2977 |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|--|
| 1. | Line Name: | Willey-Terminal |
| | Line Number: | DEO-A9787 |
| 2. | Point of Origin: | Pole No. 107H-1695 |
| | Terminus: | Pole No. 107H-1782 |
| 3. | Right-of-Way, Length: | approximately 1200 feet |
| | Average Width: | 50 feet |
| | Number of Circuits: | 1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 11/2020 |
| 6. | Construction to Commence: | 9/2021 |
| | Commercial Operation: | 12/2021 |
| 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: | Replace deteriorated structures. |
| 12. | Consequences of Line Construction deferment or Termination: | Failure of existing structures. |
| 13. | Miscellaneous: | Area to be served is primarily north-central Hamilton County.
PJM Project No.: not required |

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-Fairfield
DEO-A5781 |
| 2. | Point of Origin:
Terminus: | Pole No. BT118-542
Pole No. BT118-31 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 600 feet
50 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 5/2021 |
| 6. | Construction to Commence:
Commercial Operation: | 9/2021
10/2021 |
| 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: | Separation of 69 kV and 138 kV circuits presently on
common structures to enable failed 69 kV switch to be
replaced. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Inability to sectionalize 69 kV system during outage or
other non-standard operating conditions. |
| 13. | Miscellaneous: | Area to be served is primarily south-central Butler
County.
PJM Project No.: not required |

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-Fairfield
DEO-A5781 |
| 2. | Point of Origin:
Terminus: | Pole No. BT119-73
Pole No. BT119-446 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 500 feet
50 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 5/2021 |
| 6. | Construction to Commence:
Commercial Operation: | 9/2021
10/2021 |
| 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: | Replace deteriorated structures. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Failure of existing structures. |
| 13. | Miscellaneous: | Area to be served is primarily south-central Butler
County.
PJM Project No.: not required |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|--|
| 1. | Line Name:
Line Number: | Foster-Todhunter
DEO-B4515 |
| 2. | Point of Origin:
Terminus: | Tower No.
Tower No. |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 500 feet
150 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 345 kV design and operate voltage |
| 5. | Application for Certificate: | To be determined |
| 6. | Construction to Commence:
Commercial Operation: | To be determined
To be determined |
| 7. | Capital Investment: | \$ To be determined |
| 8. | Substations: | None |
| 9. | Supporting Structures: | steel 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 west-central Warren
County.
PJM Project No.: not required |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|--|
| 1. | Line Name:
Line Number: | Foster-Todhunter
DEO-B5485 |
| 2. | Point of Origin:
Terminus: | Tower No.
Tower No. |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 500 feet
150 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 345 kV design, 138 kV operate voltage |
| 5. | Application for Certificate: | To be determined |
| 6. | Construction to Commence:
Commercial Operation: | To be determined
To be determined |
| 7. | Capital Investment: | \$ To be determined |
| 8. | Substations: | None |
| 9. | Supporting Structures: | steel 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 west-central Warren
County.
PJM Project No.: not required |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Foster-Todhunter
DEO-B5484 |
| 2. | Point of Origin:
Terminus: | Pole No. 14W-1346
Pole No. 14W-1359 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 2500 feet
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | To be determined |
| 6. | Construction to Commence:
Commercial Operation: | To be determined
To be determined |
| 7. | Capital Investment: | \$ To be determined |
| 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 south-west Warren County.
PJM Project No.: not required |

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-Glenview
DEO-A7284 |
| 2. | Point of Origin:
Terminus: | North Bend Substation (Miami Fort side)
Approximately tower B10-X1-21 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | Approximately 1450 feet
100 feet
1 |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 12/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 09/2023
12/2023 |
| 7. | Capital Investment: | \$700,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | To provide transmission supply to the new North Bend
Substation, which will provide 12.5 kV distribution system
capacity and enhanced reliability. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Inability to supply 12.5 kV distribution load and enhance
reliability. |
| 13. | Miscellaneous: | Area to be served is primarily south-west Hamilton County
PJM Project No.: supplemental project pending |

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-Glenview
DEO-A7284 |
| 2. | Point of Origin:
Terminus: | North Bend Substation (Glenview side)
New structure west of tower B10-X2-123 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | Approximately 1250 feet
100 feet
1 |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 12/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 09/2023
12/2023 |
| 7. | Capital Investment: | \$700,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | To provide transmission supply to the new North Bend
Substation, which will provide 12.5 kV distribution system
capacity and enhanced reliability. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Inability to supply 12.5 kV distribution load and enhance
reliability. |
| 13. | Miscellaneous: | Area to be served is primarily south-west Hamilton County
PJM Project No.: supplemental project pending |

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-Ebenezer
DEO-A6864 |
| 2. | Point of Origin:
Terminus: | Approximately tower B10-X1-21
New structure west of tower B10-X2-123 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | Approximately 2000 feet
100 feet
1 |
| 4. | Voltage: | 138 kV design, 69 kV operate voltage |
| 5. | Application for Certificate: | 12/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 09/2023
12/2023 |
| 7. | Capital Investment: | \$700,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Modifications to A6864 circuit to enable A7284 circuit to
provide transmission supply to the new North Bend
Substation, which will provide 12.5 kV distribution system
capacity and enhanced reliability. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Inability to supply 12.5 kV distribution load and enhance
reliability. |
| 13. | Miscellaneous: | Area to be served is primarily south-west Hamilton County
PJM Project No.: supplemental project pending |

DUKE ENERGY OHIO
4901:5-5-04(D)(1)
FORM FE-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

1. Line Name: Terminal-Allen
Line Number: DEO-A1762
2. Point of Origin: Structure Q16-X30-147
Terminus: Structure Q16-209
3. Right-of-Way, Length: approximately 2000 feet
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design, 69 kV operate voltage
5. Application for Certificate: 9/2021
6. Construction to 9/2022
Commence:
Commercial Operation: 6/2023
7. Capital Investment: \$3,300,000
8. Substations: None
9. Supporting Structures: steel poles
10. Participation with other DEO – 100%
Utilities:
11. Purpose of the planned Relocate line to accommodate governmental road
transmission line: improvement project.
12. Consequences of Line Failure to comply with road improvement project.
Construction deferment or
Termination:
13. Miscellaneous: Area to be served is primarily central Hamilton
County.
PJM Project No.: not required

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: 2023

Line Association(s): DEO-A8481

Minimum Substation Site Acreage: Approximately 5 acres

PJM Project No.: conceptual

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 or DEO-A5680

Minimum Substation Site Acreage: Approximately 5 acres

PJM Project No.: conceptual

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

Substation Name: Decker

Voltage(s): 138 kV, 12.47 kV

Type of Substation: Distribution (D)

Timing: 2025

Line Association(s): DEO-A7582

Minimum Substation Site Acreage: Approximately 5 acres

PJM Project No.: conceptual

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

Substation Name: Hankins

Voltage(s): 138 kV, 12.47 kV

Type of Substation: Distribution (D)

Timing: 2025

Line Association(s): DEO-A3887 or DEO-A3888

Minimum Substation Site Acreage: Approximately 5 acres

PJM Project No.: conceptual

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

Substation Name: North Bend

Voltage(s): 138 kV, 12.47 kV

Type of Substation: Distribution (D)

Timing: 2022

Line Association(s): DEO-A7284

Minimum Substation Site Acreage: Approximately 5 acres

PJM Project No.: conceptual

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	2016	7,262,164	6,533,182	5,121,919	-	1,374,249		20,291,514	1,147,779	21,439,293
-4	2017	7,224,769	6,463,691	5,005,163	-	1,298,968		19,992,591	1,020,221	21,012,812
-3	2018	7,241,327	6,493,124	4,979,117	-	1,340,451		20,054,019	1,260,841	21,314,860
-2	2019	7,215,923	6,396,886	4,864,581	-	1,314,387		19,791,777	1,370,328	21,162,105
-1	2020	7,535,156	6,038,465	4,598,303	-	1,200,407		19,372,331	1,122,006	20,494,337
0	2021	7,508,462	6,205,374	4,625,207	-	1,236,485	(218,683)	19,794,210	1,100,048	20,894,258
1	2022	7,428,703	6,271,496	4,700,435	-	1,242,777	(215,470)	19,858,881	1,104,733	20,963,614
2	2023	7,506,536	6,317,767	4,716,853	-	1,262,457	(210,801)	20,014,414	1,113,667	21,128,081
3	2024	7,570,332	6,340,867	4,723,242	-	1,270,651	(204,551)	20,109,642	1,119,305	21,228,947
4	2025	7,642,324	6,385,854	4,724,481	-	1,274,604	(193,812)	20,221,074	1,126,091	21,347,166
5	2026	7,732,718	6,404,856	4,717,776	-	1,284,631	(178,954)	20,318,934	1,132,353	21,451,287
6	2027	7,822,212	6,431,923	4,723,371	-	1,302,011	(163,185)	20,442,702	1,140,104	21,582,806
7	2028	7,905,512	6,469,995	4,739,010	-	1,326,163	(145,708)	20,586,388	1,149,057	21,735,445
8	2029	7,993,256	6,518,919	4,756,032	-	1,356,093	(133,579)	20,757,879	1,159,257	21,917,135
9	2030	8,119,497	6,576,805	4,772,102	-	1,385,420	(133,269)	20,987,093	1,172,007	22,159,100
10	2031	8,200,075	6,625,358	4,801,195	-	1,412,947	(142,658)	21,182,233	1,182,325	22,364,558

(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	2016	7,262,164	6,533,182	5,121,919	-	1,374,249	20,291,514	1,147,779	21,439,293
-4	2017	7,224,769	6,463,691	5,005,163	-	1,298,968	19,992,591	1,020,221	21,012,812
-3	2018	7,241,327	6,493,124	4,979,117	-	1,340,451	20,054,019	1,260,841	21,314,860
-2	2019	7,215,923	6,396,886	4,864,581	-	1,314,387	19,791,777	1,370,328	21,162,105
-1	2020	7,535,156	6,038,465	4,598,303	-	1,200,407	19,372,331	1,122,006	20,494,337
0	2021	7,508,462	6,205,374	4,625,207	-	1,236,485	19,575,527	1,100,048	20,675,575
1	2022	7,428,703	6,271,496	4,700,435	-	1,242,777	19,643,411	1,104,733	20,748,144
2	2023	7,506,536	6,317,767	4,716,853	-	1,262,457	19,803,613	1,113,667	20,917,279
3	2024	7,570,332	6,340,867	4,723,242	-	1,270,651	19,905,092	1,119,305	21,024,397
4	2025	7,642,324	6,385,854	4,724,481	-	1,274,604	20,027,262	1,126,091	21,153,354
5	2026	7,732,718	6,404,856	4,717,776	-	1,284,631	20,139,980	1,132,353	21,272,333
6	2027	7,822,212	6,431,923	4,723,371	-	1,302,011	20,279,517	1,140,104	21,419,621
7	2028	7,905,512	6,469,995	4,739,010	-	1,326,163	20,440,680	1,149,057	21,589,737
8	2029	7,993,256	6,518,919	4,756,032	-	1,356,093	20,624,300	1,159,257	21,783,557
9	2030	8,119,497	6,576,805	4,772,102	-	1,385,420	20,853,824	1,172,007	22,025,831
10	2031	8,200,075	6,625,358	4,801,195	-	1,412,947	21,039,574	1,182,325	22,221,899

(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)
-6	2015	4,049	0	4,049	3,401	4,049	0	4,049	3,401
-5	2016	4,171	0	4,171	3,421	4,171	0	4,171	3,421
-4	2017	3,957	0	3,957	3,713	3,957	0	3,957	3,713
-3	2018	4,091	0	4,091	3,793	4,091	0	4,091	3,793
-2	2019	3,932	0	3,932	3,169	3,976	44	3,932	3,169
-1	2020	3,899	0	3,899	3,541	3,899	0	3,899	3,541
0	2021	3,989	0	3,989	3,563	4,048	59	3,989	3,563
1	2022	3,996	0	3,996	3,581	4,055	59	3,996	3,581
2	2023	3,996	0	3,996	3,538	4,060	65	3,996	3,538
3	2024	3,984	0	3,984	3,586	4,051	67	3,984	3,586
4	2025	3,973	0	3,973	3,559	4,040	67	3,973	3,559
5	2026	3,970	0	3,970	3,550	4,037	67	3,970	3,550
6	2027	3,976	0	3,976	3,529	4,043	67	3,976	3,529
7	2028	3,980	0	3,980	3,545	4,048	67	3,980	3,545
8	2029	3,976	0	3,976	3,573	4,044	67	3,976	3,573
9	2030	3,981	0	3,981	3,561	4,049	67	3,981	3,561
10	2031	3,980	0	3,980	3,535	4,047	67	3,980	3,535

(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; Winter 2020 peak is a preliminary estimate

(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)
-6	2015	4,049	0	4,049	3,401	4,049	0	4,049	3,401
-5	2016	4,171	0	4,171	3,421	4,171	0	4,171	3,421
-4	2017	3,957	0	3,957	3,713	3,957	0	3,957	3,713
-3	2018	4,091	0	4,091	3,793	4,091	0	4,091	3,793
-2	2019	3,932	0	3,932	3,169	3,976	44	3,932	3,169
-1	2020	3,899	0	3,899	3,541	3,899	0	3,899	3,541
0	2021	3,986	0	3,986	3,594	4,045	59	3,986	3,594
1	2022	4,008	0	4,008	3,643	4,068	59	4,008	3,643
2	2023	4,020	0	4,020	3,681	4,085	65	4,020	3,681
3	2024	4,024	0	4,024	3,683	4,091	67	4,024	3,683
4	2025	4,032	0	4,032	3,764	4,100	67	4,032	3,764
5	2026	4,052	0	4,052	3,766	4,120	67	4,052	3,766
6	2027	4,064	0	4,064	3,761	4,132	67	4,064	3,761
7	2028	4,078	0	4,078	3,748	4,145	67	4,078	3,748
8	2029	4,087	0	4,087	3,776	4,154	67	4,087	3,776
9	2030	4,101	0	4,101	3,844	4,169	67	4,101	3,844
10	2031	4,107	0	4,107	3,858	4,174	67	4,107	3,858

(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; Winter 2020 peak is a preliminary estimate

(c) Includes DSM impacts.

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

<u>2021 (d)</u>				<u>Ohio Service Area</u>	<u>System</u>
January				1,859,596	1,859,596
February				1,672,487	1,672,487
March				1,643,000	1,643,000
April				1,534,146	1,534,146
May				1,581,900	1,581,900
June				1,825,105	1,825,105
July				2,040,430	2,040,430
August				2,000,849	2,000,849
September				1,763,911	1,763,911
October				1,572,375	1,572,375
November				1,574,087	1,574,087
December				1,826,372	1,826,372
<u>2022 (d)</u>					
January				1,848,391	1,848,391
February				1,661,671	1,661,671
March				1,619,253	1,619,253
April				1,460,900	1,460,900
May				1,572,389	1,572,389
June				1,831,684	1,831,684
July				2,165,153	2,165,153
August				2,020,050	2,020,050
September				1,882,747	1,882,747
October				1,559,016	1,559,016
November				1,581,737	1,581,737
December				1,760,623	1,760,623

- (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)

<u>2021 (d)</u>				Ohio Service Area	System
January				1,834,141	1,834,141
February				1,650,454	1,650,454
March				1,622,841	1,622,841
April				1,518,256	1,518,256
May				1,565,354	1,565,354
June				1,805,932	1,805,932
July				2,018,969	2,018,969
August				1,981,631	1,981,631
September				1,748,929	1,748,929
October				1,560,381	1,560,381
November				1,560,657	1,560,657
December				1,808,029	1,808,029
<u>2022 (d)</u>					
January				1,823,272	1,823,272
February				1,639,934	1,639,934
March				1,599,355	1,599,355
April				1,445,223	1,445,223
May				1,556,040	1,556,040
June				1,812,784	1,812,784
July				2,144,037	2,144,037
August				2,001,104	2,001,104
September				1,868,000	1,868,000
October				1,547,217	1,547,217
November				1,568,539	1,568,539
December				1,742,639	1,742,639

(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	
<u>2021 (d)</u>	<u>Ohio Service Area</u>	<u>Demand Response</u>	<u>Net Summer</u>	<u>System</u>	<u>Ohio Service Area</u>	<u>System</u>
January	3,543	22	3,543	3,543	3,564	3,564
February	3,134	22	3,134	3,134	3,155	3,155
March	2,743	22	2,743	2,743	2,764	2,764
April	2,470	22	2,470	2,470	2,492	2,492
May	3,160	22	3,160	3,160	3,181	3,181
June	3,419	59	3,419	3,419	3,478	3,478
July	3,989	59	3,989	3,989	4,048	4,048
August	3,932	59	3,932	3,932	3,991	3,991
September	3,622	59	3,622	3,622	3,681	3,681
October	2,565	22	2,565	2,565	2,587	2,587
November	2,971	22	2,971	2,971	2,993	2,993
December	3,225	22	3,225	3,225	3,247	3,247
<u>2022 (d)</u>						
January	3,542	22	3,542	3,542	3,563	3,563
February	3,045	22	3,045	3,045	3,067	3,067
March	2,748	22	2,748	2,748	2,770	2,770
April	2,478	22	2,478	2,478	2,499	2,499
May	3,164	22	3,164	3,164	3,186	3,186
June	3,484	59	3,484	3,484	3,544	3,544
July	3,996	59	3,996	3,996	4,055	4,055
August	3,940	59	3,940	3,940	3,999	3,999
September	3,627	59	3,627	3,627	3,686	3,686
October	2,563	22	2,563	2,563	2,585	2,585
November	2,982	22	2,982	2,982	3,004	3,004
December	3,218	22	3,218	3,218	3,240	3,240

- (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	
<u>2021 (d)</u>	<u>Ohio Service Area</u>	<u>Demand Response</u>	<u>Net Summer</u>	<u>System</u>	<u>Ohio Service Area</u>	<u>System</u>
January	3,573	22	3,573	3,573	3,594	3,594
February	3,129	22	3,129	3,129	3,151	3,151
March	2,708	22	2,708	2,708	2,729	2,729
April	2,422	22	2,422	2,422	2,444	2,444
May	3,145	22	3,145	3,145	3,166	3,166
June	3,659	59	3,659	3,659	3,718	3,718
July	3,986	59	3,986	3,986	4,045	4,045
August	3,941	59	3,941	3,941	4,000	4,000
September	3,612	59	3,612	3,612	3,671	3,671
October	2,671	22	2,671	2,671	2,693	2,693
November	3,019	22	3,019	3,019	3,040	3,040
December	3,302	22	3,302	3,302	3,324	3,324
<u>2022 (d)</u>						
January	3,621	22	3,621	3,621	3,643	3,643
February	3,139	22	3,139	3,139	3,160	3,160
March	2,714	22	2,714	2,714	2,736	2,736
April	2,436	22	2,436	2,436	2,458	2,458
May	3,157	22	3,157	3,157	3,179	3,179
June	3,677	59	3,677	3,677	3,737	3,737
July	4,008	59	4,008	4,008	4,068	4,068
August	3,962	59	3,962	3,962	4,021	4,021
September	3,630	59	3,630	3,630	3,689	3,689
October	2,683	22	2,683	2,683	2,705	2,705
November	3,026	22	3,026	3,026	3,048	3,048
December	3,307	22	3,307	3,307	3,329	3,329

(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)

	2021											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases ^d	5072	5072	5072	5072	5072	5191	5191	5191	5191	5191	5191	5191
Sales												
Renewable												
Available Capability	5072	5072	5072	5072	5072	5191	5191	5191	5191	5191	5191	5191
Native Load	3,573	3,129	2,708	2,422	3,145	3,659	3,986	3,941	3,612	2,671	3,019	3,302
Energy Reduction Programs ^c	22	22	22	22	22	59	59	59	59	22	22	22
Available Reserve	1,478	1,921	2,343	2,628	1,906	1,473	1,146	1,191	1,520	2,498	2,151	1,867
Internal Load ^a	3,594	3,151	2,729	2,444	3,166	3,718	4,045	4,000	3,671	2,693	3,040	3,324
Reserve	1,478	1,921	2,343	2,628	1,906	1,473	1,146	1,191	1,520	2,498	2,151	1,867
	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases ^d	5191	5191	5191	5191	5191	5305	5305	5305	5305	5305	5305	5305
Sales												
Renewable												
Available Capability	5191	5191	5191	5191	5191	5305	5305	5305	5305	5305	5305	5305
Native Load	3,621	3,139	2,714	2,436	3,157	3,677	4,008	3,962	3,630	2,683	3,026	3,307
Energy Reduction Programs ^c	22	22	22	22	22	59	59	59	59	22	22	22
Available Reserve	1,548	2,031	2,455	2,733	2,012	1,568	1,237	1,284	1,616	2,600	2,257	1,976
Internal Load ^a	3,643	3,160	2,736	2,458	3,179	3,737	4,068	4,021	3,689	2,705	3,048	3,329
Reserve ^e	1,548	2,031	2,455	2,733	2,012	1,568	1,237	1,284	1,616	2,600	2,257	1,976

a. Internal Load equals Native Load plus Interruptible Load.

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

c. Includes both energy efficiency and demand response

d. All capacity and energy obligations 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)

	2021											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases ^c	5072	5072	5072	5072	5072	5191	5191	5191	5191	5191	5191	5191
Sales												
Available Capability	5072	5072	5072	5072	5072	5191	5191	5191	5191	5191	5191	5191
Native Load	3,573	3,129	2,708	2,422	3,145	3,659	3,986	3,941	3,612	2,671	3,019	3,302
Available Reserve	1,499	1,943	2,364	2,650	1,927	1,532	1,205	1,250	1,579	2,520	2,172	1,889
Internal Load ^a	3,594	3,151	2,729	2,444	3,166	3,718	4,045	4,000	3,671	2,693	3,040	3,324
Reserve	1,478	1,921	2,343	2,628	1,906	1,473	1,146	1,191	1,520	2,498	2,151	1,867

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases ^c	5191	5191	5191	5191	5191	5305	5305	5305	5305	5305	5305	5305
Sales												
Available Capability	5191	5191	5191	5191	5191	5305	5305	5305	5305	5305	5305	5305
Native Load	3,621	3,139	2,714	2,436	3,157	3,677	4,008	3,962	3,630	2,683	3,026	3,307
Available Reserve	1,570	2,052	2,477	2,755	2,034	1,628	1,297	1,343	1,675	2,622	2,279	1,998
Internal Load ^a	3,643	3,160	2,736	2,458	3,179	3,737	4,068	4,021	3,689	2,705	3,048	3,329
Reserve ^d	1,548	2,031	2,455	2,733	2,012	1,568	1,237	1,284	1,616	2,600	2,257	1,976

a. Internal Load equals Native Load plus Interruptible Load.

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

c. All capacity and energy obligations 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 12/31/2020)

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
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NOT APPLICABLE

PUCO Form FE-R4:
Actual Generating Capability Dedicated to Meet Ohio Peak Load (as of 12/31/2020)

		Unit Designation	Seasonal
Year/Season	Unit Name	Description	Total

NOT APPLICABLE

**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) 2016	(-4) 2017	(-3) 2018	(-2) 2019	(-1) 2020	(0) 2021	(1) 2022	(2) 2023
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^d	5080	5020	4970	5020	5072	5191	5305	4670
Sales								
Renewable								
Available Capability ^a	5080	5020	4970	5020	5072	5191	5305	4670
Native Load	4,171	3,957	4,091	3,932	3,899	3,989	3,996	3,996
Energy Reduction Programs ^c	0	0	0	44	0	59	59	65
Available Reserve	909	1063	879	1044	1173	1143	1250	609
Internal Load ^b	4,171	3,957	4,091	3,976	3,899	4,048	4,055	4,060
Reserve ^e	909	1063	879	1044	1173	1143	1250	609
	(3) 2024	(4) 2025	(5) 2026	(6) 2027	(7) 2028	(8) 2029	(9) 2030	(10) 2031
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^d	4659	4647	4643	4650	4655	4650	4656	4654
Sales								
Renewable								
Available Capability ^a	4659	4647	4643	4650	4655	4650	4656	4654
Native Load	3,984	3,973	3,970	3,976	3,980	3,976	3,981	3,980
Energy Reduction Programs ^c	67	67	67	67	67	67	67	67
Available Reserve	608	606	606	606	607	607	607	607
Internal Load ^b	4,051	4,040	4,037	4,043	4,048	4,044	4,049	4,047
Reserve ^e	608	606	606	606	607	607	607	607

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 obligations 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) 2016	(-4) 2017	(-3) 2018	(-2) 2019	(-1) 2020	(0) 2021	(1) 2022	(2) 2023
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^c	5080	5020	4970	5020	5072	5191	5305	4670
Sales								
Available Capability ^a	5080	5020	4970	5020	5072	5191	5305	4670
Native Load	4,171	3,957	4,091	3,932	3,899	3,989	3,996	3,996
Available Reserve	909	1,063	879	1,088	1,173	1,202	1,309	674
Internal Load ^b	4,171	3,957	4,091	3,976	3,899	4,048	4,055	4,060
Reserve ^d	909	1,063	879	1,044	1,173	1,143	1,250	609

	(3) 2024	(4) 2025	(5) 2026	(6) 2027	(7) 2028	(8) 2029	(9) 2030	(10) 2031
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^c	4659	4647	4643	4650	4655	4650	4656	4654
Sales								
Available Capability ^a	4659	4647	4643	4650	4655	4650	4656	4654
Native Load	3,984	3,973	3,970	3,976	3,980	3,976	3,981	3,980
Available Reserve	675	674	673	674	675	674	675	674
Internal Load ^b	4,051	4,040	4,037	4,043	4,048	4,044	4,049	4,047
Reserve ^d	608	606	606	606	607	607	607	607

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 obligations 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) 2016	(-4) 2017	(-3) 2018	(-2) 2019	(-1) 2020	(0) 2021	(1) 2022	(2) 2023
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^d	5080	5020	4970	5020	5072	5191	5305	4670
Sales								
Renewable								
Available Capability ^a	5080	5020	4970	5020	5072	5191	5305	4670
Native Load	3,421	3,713	3,793	3,169	3,541	3,563	3,581	3,538
Energy Reduction Programs ^c	0	0	0	0	0	0	0	0
Available Reserve	1,659	1,307	1,177	1,851	1,531	1,628	1,724	1,132
Internal Load ^b	3,421	3,713	3,793	3,169	3,541	3,563	3,581	3,538
Reserve ^e	1,659	1,307	1,177	1,851	1,531	1,628	1,724	1,132
	(3) 2024	(4) 2025	(5) 2026	(6) 2027	(7) 2028	(8) 2029	(9) 2030	(10) 2031
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^d	4659	4647	4643	4650	4655	4650	4656	4654
Sales								
Renewable								
Available Capability ^a	4659	4647	4643	4650	4655	4650	4656	4654
Native Load	3,586	3,559	3,550	3,529	3,545	3,573	3,561	3,535
Energy Reduction Programs ^c	0	0	0	0	0	0	0	0
Available Reserve	1072	1088	1093	1121	1110	1077	1095	1119
Internal Load ^b	3,586	3,559	3,550	3,529	3,545	3,573	3,561	3,535
Reserve ^e	1072	1088	1093	1121	1110	1077	1095	1119

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 obligations 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) 2016	(-4) 2017	(-3) 2018	(-2) 2019	(-1) 2020	(0) 2021	(1) 2022	(2) 2023
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^c	5080	5020	4970	5020	5072	5191	5305	4670
Sales								
Available Capability ^a	5080	5020	4970	5020	5072	5191	5305	4670
Native Load	3421	3713	3793	3169	3541	3563	3581	3538
Available Reserve	1659	1307	1177	1851	1531	1628	1724	1132
Internal Load ^b	3421	3713	3793	3169	3541	3563	3581	3538
Reserve ^d	1659	1307	1177	1851	1531	1628	1724	1132

	(3) 2024	(4) 2025	(5) 2026	(6) 2027	(7) 2028	(8) 2029	(9) 2030	(10) 2031
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^c	4659	4647	4643	4650	4655	4650	4656	4654
Sales								
Available Capability ^a	4659	4647	4643	4650	4655	4650	4656	4654
Native Load	3586	3559	3550	3529	3545	3573	3561	3535
Available Reserve	1072	1088	1093	1121	1110	1077	1095	1119
Internal Load ^b	3586	3559	3550	3529	3545	3573	3561	3535
Reserve ^d	1072	1088	1093	1121	1110	1077	1095	1119

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 obligations 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	NOT APPLICABLE
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	

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Summary: Report 2021 Long-Term Electric Forecast Report Submitted by Duke Energy Ohio, Inc. electronically filed by Mrs. Tammy M Meyer on behalf of Duke Energy Ohio Inc. and Kingery, Jeanne W. and D'Ascenzo, Rocco