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July 7, 2022

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

Re: Case No. 22-0503-EL-FOR

Dear Ms. Troupe:

Duke Energy Ohio, Inc. (Duke Energy Ohio) is filing, concurrently with this letter, its '2022 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 continuing remote work by certain personnel stemming from the COVID-19 pandemic and also the desire to file the report as quickly as possible, 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 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 copy of the Long-Term Report to OCC.

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

Pursuant to email direction from the Office of the Federal Energy Advocate on July 6, 2022, the Company will not be delivering any hard copies to the Commission.

Respectfully submitted,

/s/Larisa M. Vaysman

Rocco O. D'Ascenzo (0077651)

Deputy General Counsel

Larisa M. Vaysman (0090290)

Senior Counsel

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cc: Bruce Weston, Ohio Consumers' Counsel



2022

LONG-TERM ELECTRIC FORECAST

REPORT

SUBMITTED BY

DUKE ENERGY OHIO, INC.

CASE NO. 22-0503-EL-FOR

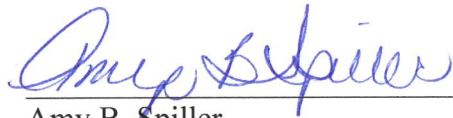
JULY 7, 2022

Rocco O. D'Ascenzo
Deputy General Counsel
Larisa M. Vaysman
Senior 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 2022 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 2022 ELECTRIC LONG-TERM FORECAST REPORT AND RESOURCE PLAN was served by electronic delivery, this 7th day of July, 2022 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/Larisa M. Vaysman

Rocco D'Ascenzo (0077651)

Deputy General Counsel

Larisa M. Vaysman (0090290)

Senior Counsel

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**Libraries Receiving a Letter of Notification Regarding Duke Energy Ohio, Inc.'s
2022 Long-Term Forecast Report and Resource Plan**

County	Library	Address
Brown	Mary P. Shelton Library	200 W Grant Avenue Georgetown, OH 45121 marysheltonlibrary@gmail.com
Butler	Hamilton Lane Library	300 N 3rd Street Hamilton, OH 45011 e.piatt@lanepl.org
Butler	MidPointe Library Middletown	125 S Broad Street Middletown, OH 45044 aabernathy@midpointelibrary.org
Clermont	Clermont County Public Library	180 S 3rd Street Batavia, OH 45103 cwick@clermontlibrary.org
Clinton	Wilmington Public Library	268 N South Street Wilmington, OH 45177 info@wilmington.lib.oh.us
Hamilton	Cincinnati & Hamilton County Public Library	800 Vine Street Cincinnati, OH 45202 paula.brehm-heeger@cincinnati-library.org
Highland	Highland County District Library	10 Willettsville Pike Hillsboro, OH 45133 director@highlandco.org
Montgomery	Dayton Metro Library	215 E 3rd Street Dayton, OH 45402 finance@daytonmetrolibrary.org
Preble	Preble County District Library	450 S Barron Street Eaton, OH 45320 pcdl@preblelibrary.org
Warren	Lebanon Public Library	101 S 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	2017	16,174,898	4,281,241	20,456,139	18,801,234	849,146	19,650,380	40,106,519	12,936,330	499,124	13,435,454	26,671,065	22,276,095	4,394,970
-4	2018	17,113,116	2,915,442	20,028,558	21,305,106	880,347	22,185,453	42,214,011	13,662,843	538,159	14,201,002	28,013,009	23,421,137	4,591,872
-3	2019	15,436,683	3,314,081	18,750,764	20,743,972	625,786	21,369,758	40,120,522	12,167,726	781,684	12,949,410	27,171,113	22,680,773	4,490,340
-2	2020	16,652,343	2,335,340	18,987,683	18,231,523	886,373	19,117,896	38,105,579	10,164,544	185,088	10,349,632	27,755,947	23,630,200	4,125,747
-1	2021	15,532,884	2,611,854	18,144,738	18,717,426	1,379,262	20,096,688	38,241,426	9,963,870	102,666	10,066,536	28,174,890	23,963,471	4,211,419
0	2022											24,928,411	20,760,967	4,167,444
1	2023											25,063,041	20,816,657	4,246,383
2	2024											25,201,049	20,920,170	4,280,879
3	2025											25,416,592	21,084,531	4,332,061
4	2026											25,541,245	21,209,826	4,331,419
5	2027											25,718,758	21,379,719	4,339,039
6	2028											25,909,787	21,562,818	4,346,969
7	2029											26,123,989	21,765,203	4,358,786
8	2030											26,439,342	22,026,593	4,412,749
9	2031											26,635,620	22,214,309	4,421,311
10	2032											26,850,218	22,407,630	4,442,588

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

PUCO Form FE-T2 : Electric Transmission Owner's System Seasonal Peak Load Demand Forecast
(Megawatts)(a)
Duke Energy Ohio BEFORE DSM (e)

		Native Load (b)		Internal Load (c)	
	Year	Summer	Winter (d)	Summer	Winter (d)
-5	2017	3,957	3,713	3,957	3,713
-4	2018	4,091	3,793	4,091	3,793
-3	2019	3,932	3,169	3,976	3,169
-2	2020	3,899	3,305	3,899	3,305
-1	2021	4,198	3,420	4,198	3,420
0	2022	4,049	3,639	4,049	3,639
1	2023	4,051	3,640	4,051	3,640
2	2024	4,060	3,720	4,060	3,720
3	2025	4,066	3,727	4,066	3,727
4	2026	4,086	3,727	4,086	3,727
5	2027	4,097	3,712	4,097	3,712
6	2028	4,105	3,739	4,105	3,739
7	2029	4,111	3,830	4,111	3,830
8	2030	4,121	3,850	4,121	3,850
9	2031	4,120	3,810	4,120	3,810
10	2032	4,166	3,804	4,166	3,804

(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: 2021 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	2017	3,957	3,713	3,957	3,713
-4	2018	4,091	3,793	4,091	3,793
-3	2019	3,932	3,169	3,976	3,169
-2	2020	3,899	3,305	3,899	3,305
-1	2021	4,198	3,420	4,198	3,420
0	2022	4,049	3,305	4,049	3,305
1	2023	4,051	3,587	4,051	3,587
2	2024	4,060	3,639	4,060	3,639
3	2025	4,066	3,640	4,066	3,640
4	2026	4,086	3,720	4,086	3,720
5	2027	4,097	3,727	4,097	3,727
6	2028	4,105	3,727	4,105	3,727
7	2029	4,111	3,712	4,111	3,712
8	2030	4,121	3,739	4,121	3,739
9	2031	4,120	3,830	4,120	3,830
10	2032	4,166	3,850	4,166	3,850

(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 2021 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>2022 (d)</u>	<u>Ohio Portion (a)</u>	<u>Total Company (b)</u>	<u>Total System (c)</u>
January	1,848,230	1,848,230	1,848,230
February	1,703,739	1,703,739	1,703,739
March	1,610,618	1,610,618	1,610,618
April	1,490,123	1,490,123	1,490,123
May	1,548,269	1,548,269	1,548,269
June	1,819,341	1,819,341	1,819,341
July	2,038,745	2,038,745	2,038,745
August	1,999,943	1,999,943	1,999,943
September	1,769,772	1,769,772	1,769,772
October	1,550,288	1,550,288	1,550,288
November	1,583,454	1,583,454	1,583,454
December	1,798,444	1,798,444	1,798,444
<u>2023 (d)</u>			
January	1,829,452	1,829,452	1,829,452
February	1,690,890	1,690,890	1,690,890
March	1,617,344	1,617,344	1,617,344
April	1,465,488	1,465,488	1,465,488
May	1,568,204	1,568,204	1,568,204
June	1,830,962	1,830,962	1,830,962
July	2,104,373	2,104,373	2,104,373
August	2,003,298	2,003,298	2,003,298
September	1,846,840	1,846,840	1,846,840
October	1,567,350	1,567,350	1,567,350
November	1,575,549	1,575,549	1,575,549
December	1,716,907	1,716,907	1,716,907

(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>2022 (d)</u>	Ohio Portion ^a	Total Service Area ^b	System ^c
January	3,587	3,587	3,587
February	3,249	3,249	3,249
March	2,714	2,714	2,714
April	2,478	2,478	2,478
May	3,322	3,322	3,322
June	3,874	3,874	3,874
July	4,049	4,049	4,049
August	3,999	3,999	3,999
September	3,780	3,780	3,780
October	2,555	2,555	2,555
November	3,001	3,001	3,001
December	3,181	3,181	3,181
<u>2023 (d)</u>			
January	3,639	3,639	3,639
February	3,273	3,273	3,273
March	2,729	2,729	2,729
April	2,485	2,485	2,485
May	3,325	3,325	3,325
June	3,876	3,876	3,876
July	4,051	4,051	4,051
August	4,001	4,001	4,001
September	3,783	3,783	3,783
October	2,563	2,563	2,563
November	3,018	3,018	3,018
December	3,199	3,199	3,199

- (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 2021.

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

PART A: SOURCES OF ENERGY

Reporting Month Jan-21

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	1,287,425	0	1,287,425
Energy Receipts from other sources	2,001,464	0	2,001,464
Total Energy Receipts	3,288,889	0	3,288,889

PART B: DELIVERY OF ENERGY

Reporting Month Jan-21

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	2,168,872	0	2,168,872
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	37,941	0	37,941
Municipal-Owned Electric Systems	100,783	0	100,783
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,027,573	0	1,027,573
Total Energy Delivery	3,335,169	0	3,335,169

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

Reporting Month

Jan-21

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	1,806,251	0	1,806,251
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)	934,756	0	934,756
Total Energy Delivery	2,741,007	0	2,741,007

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Jan-21

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	(46,280)	0	(46,280)

(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-21

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	1,258,107	0	1,258,107
Energy Receipts from other sources	1,907,321	0	1,907,321
Total Energy Receipts	3,165,428	0	3,165,428

PART B: DELIVERY OF ENERGY

Reporting Month

Feb-21

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	2,076,406	0	2,076,406
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	36,833	0	36,833
Municipal-Owned Electric Systems	95,779	0	95,779
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,003,752	0	1,003,752
Total Energy Delivery	3,212,770	0	3,212,770

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

Reporting Month

Feb-21

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	1,727,518	0	1,727,518
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)	917,242	0	917,242
Total Energy Delivery	2,644,760	0	2,644,760

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Feb-21

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	(47,342)	0	(47,342)

(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-21

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	1,585,855	0	1,585,855
Energy Receipts from other sources	1,364,130	0	1,364,130
Total Energy Receipts	2,949,986	0	2,949,986

PART B: DELIVERY OF ENERGY

Reporting Month

Mar-21

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	1,875,041	0	1,875,041
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	30,773	0	30,773
Municipal-Owned Electric Systems	87,485	0	87,485
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,011,955	0	1,011,955
Total Energy Delivery	3,005,254	0	3,005,254

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

Reporting Month

Mar-21

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	1,565,469	0	1,565,469
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)	924,946	0	924,946
Total Energy Delivery	2,490,415	0	2,490,415

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Mar-21

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	(55,268)	0	(55,268)

(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-21

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	1,230,081	0	1,230,081
Energy Receipts from other sources	1,333,783	0	1,333,783
Total Energy Receipts	2,563,864	0	2,563,864

PART B: DELIVERY OF ENERGY

Reporting Month

Apr-21

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	1,715,406	0	1,715,406
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	27,095	0	27,095
Municipal-Owned Electric Systems	82,105	0	82,105
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	798,151	0	798,151
Total Energy Delivery	2,622,757	0	2,622,757

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

Reporting Month

Apr-21

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	1,428,339	0	1,428,339
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)	715,988	0	715,988
Total Energy Delivery	2,144,327	0	2,144,327

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Apr-21

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	(58,893)	0	(58,893)

(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-21

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	824,911	0	824,911
Energy Receipts from other sources	1,777,615	0	1,777,615
Total Energy Receipts	2,602,526	0	2,602,526

PART B: DELIVERY OF ENERGY

Reporting Month

May-21

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	1,647,551	0	1,647,551
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	27,951	0	27,951
Municipal-Owned Electric Systems	89,185	0	89,185
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	697,983	0	697,983
Total Energy Delivery	2,462,670	0	2,462,670

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

Reporting Month

May-21

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	1,370,762	0	1,370,762
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)	614,915	0	614,915
Total Energy Delivery	1,985,677	0	1,985,677

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

May-21

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	139,856	0	139,856

(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-21

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	1,740,107	0	1,740,107
Energy Receipts from other sources	1,793,719	0	1,793,719
Total Energy Receipts	3,533,826	0	3,533,826

PART B: DELIVERY OF ENERGY

Reporting Month

Jun-21

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	1,966,567	0	1,966,567
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	32,189	0	32,189
Municipal-Owned Electric Systems	107,938	0	107,938
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,310,952	0	1,310,952
Total Energy Delivery	3,417,647	0	3,417,647

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

Reporting Month

Jun-21

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	1,636,437	0	1,636,437
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)	1,209,336	0	1,209,336
Total Energy Delivery	1,209,336	0	1,209,336

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Jun-21

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	116,179	0	116,179

(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-21

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	1,566,456	0	1,566,456
Energy Receipts from other sources	2,012,794	0	2,012,794
Total Energy Receipts	3,579,251	0	3,579,251

PART B: DELIVERY OF ENERGY

Reporting Month

Jul-21

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	2,261,096	0	2,261,096
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	35,349	0	35,349
Municipal-Owned Electric Systems	116,554	0	116,554
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,154,803	0	1,154,803
Total Energy Delivery	3,567,802	0	3,567,802

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

Reporting Month

Jul-21

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	1,884,919	0	1,884,919
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)	1,041,326	0	1,041,326
Total Energy Delivery	2,926,245	0	2,926,245

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Jul-21

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	11,449	0	11,449

(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-21

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	2,013,544	0	2,013,544
Energy Receipts from other sources	1,922,606	0	1,922,606
Total Energy Receipts	3,936,150	0	3,936,150

PART B: DELIVERY OF ENERGY

Reporting Month

Aug-21

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	2,256,269	0	2,256,269
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	36,933	0	36,933
Municipal-Owned Electric Systems	121,393	0	121,393
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,424,347	0	1,424,347
Total Energy Delivery	3,838,942	0	3,838,942

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

Reporting Month

Aug-21

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	1,879,065	0	1,879,065
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)	1,305,777	0	1,305,777
Total Energy Delivery	3,184,842	0	3,184,842

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Aug-21

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	97,208	0	97,208

(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-21

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	1,577,628	0	1,577,628
Energy Receipts from other sources	1,571,685	0	1,571,685
Total Energy Receipts	3,149,313	0	3,149,313

PART B: DELIVERY OF ENERGY

Reporting Month

Sep-21

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	2,240,974	0	2,240,974
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	29,563	0	29,563
Municipal-Owned Electric Systems	98,249	0	98,249
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,077,532	0	1,077,532
Total Energy Delivery	3,446,317	0	3,446,317

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

Reporting Month

Sep-21

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	1,863,096	0	1,863,096
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)	985,292	0	985,292
Total Energy Delivery	2,848,388	0	2,848,388

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Sep-21

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	(297,004)	0	(297,004)

(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-21

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	1,763,267	0	1,763,267
Energy Receipts from other sources	1,171,441	0	1,171,441
Total Energy Receipts	2,934,708	0	2,934,708

PART B: DELIVERY OF ENERGY

Reporting Month

Oct-21

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	1,830,186	0	1,830,186
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	27,884	0	27,884
Municipal-Owned Electric Systems	89,779	0	89,779
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,070,796	0	1,070,796
Total Energy Delivery	3,018,645	0	3,018,645

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

Reporting Month

Oct-21

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	1,523,092	0	1,523,092
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)	981,668	0	981,668
Total Energy Delivery	2,504,760	0	2,504,760

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Oct-21

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	(83,936)	0	(83,936)

(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-21

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	1,643,281	0	1,643,281
Energy Receipts from other sources	1,524,931	0	1,524,931
Total Energy Receipts	3,168,212	0	3,168,212

PART B: DELIVERY OF ENERGY

Reporting Month

Nov-21

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	1,712,288	0	1,712,288
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	31,336	0	31,336
Municipal-Owned Electric Systems	89,402	0	89,402
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,281,592	0	1,281,592
Total Energy Delivery	3,114,618	0	3,114,618

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

Reporting Month

Nov-21

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	1,430,438	0	1,430,438
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)	1,197,198	0	1,197,198
Total Energy Delivery	2,627,636	0	2,627,636

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Nov-21

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	53,594	0	53,594

(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-21

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	1,359,392	0	1,359,392
Energy Receipts from other sources	1,715,198	0	1,715,198
Total Energy Receipts	3,074,590	0	3,074,590

PART B: DELIVERY OF ENERGY

Reporting Month

Dec-21

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	1,983,337	0	1,983,337
Other Investor-Owned Electric Utilities			
Cooperative-Owned Electric System	33,098	0	33,098
Municipal-Owned Electric Systems	93,402	0	93,402
Federal and State Electric Agencies			
Other end user service			
For Non Distribution service (transmission to transmission service)	1,089,245	0	1,089,245
Total Energy Delivery	3,199,082	0	3,199,082

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

Reporting Month

Dec-21

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	1,649,930	0	1,649,930
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)	998,538	0	998,538
Total Energy Delivery	2,648,468	0	2,648,468

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Dec-21

	Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)	(124,492)	0	(124,492)

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

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month JANUARY

Megawatts	3,200	Day of Week	Thursday	Day of Month	28	Hour of Peak	9:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				22	4	26	
Requests (MW)				3,970	750	4,720	
Number of requests accepted				1	4	5	
Requests accepted (MW)				160	600	760	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,810	150	3,960	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month FEBRUARY

Megawatts	3,544	Day of Week	Wednesday	Day of Month	17	Hour of Peak	8:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				22	2	24	
Requests (MW)				3,970	600	4,570	
Number of requests accepted				1	2	3	
Requests accepted (MW)				160	600	760	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,810	0	3,810	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month MARCH

Megawatts	2,944	Day of Week	Friday	Day of Month	5	Hour of Peak	8:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				22	5	27	
Requests (MW)				3,970	875	4,845	
Number of requests accepted				1	5	6	
Requests accepted (MW)				160	875	1035	
Requests not accepted (MW) and reason for not accepting delivery				3,810	0	3,810	Reason for non-delivery Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month APRIL

Megawatts	2,836	Day of Week	Wednesday	Day of Month	28	Hour of Peak	16:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				22	6	28	
Requests (MW)				3,970	1,125	5,095	
Number of requests accepted				1	5	6	
Requests accepted (MW)				160	1,000	1,160	
Requests not accepted (MW) and reason for not accepting delivery				3,810	125	3,935	Reason for non-delivery Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month MAY

Megawatts	3,693	Day of Week	Monday	Day of Month	24	Hour of Peak	17:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				22	7	29	
Requests (MW)				3,970	1,045	5,015	
Number of requests accepted				1	7	8	
Requests accepted (MW)				160	1,045	1205	
Requests not accepted (MW) and reason for not accepting delivery				3,810	0	3,810	Reason for non-delivery
							Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month JUNE

Megawatts	4,369	Day of Week	Tuesday	Day of Month	29	Hour of Peak	16:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				19	7	26	
Requests (MW)				3,170	925	4,095	
Number of requests accepted				1	3	4	
Requests accepted (MW)				160	700	860	
Requests not accepted (MW) and reason for not accepting delivery				3,010	225	3,235	Reason for non-delivery
							Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month JULY

Megawatts	4,163	Day of Week	Tuesday	Day of Month	6	Hour of Peak	17:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				19	2	21	
Requests (MW)				3,170	600	3,770	
Number of requests accepted				1	2	3	
Requests accepted (MW)				160	600	760	
Requests not accepted (MW) and reason for not accepting delivery				3,010	0	3,010	Reason for non-delivery Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month AUGUST

Megawatts	4,463	Day of Week	Thursday	Day of Month	12	Hour of Peak	15:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				19	3	22	
Requests (MW)				3,170	700	3,870	
Number of requests accepted				1	3	4	
Requests accepted (MW)				160	700	860	
Requests not accepted (MW) and reason for not accepting delivery				3,010	0	3,010	Reason for non-delivery Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

 Reporting Month **SEPTEMBER**

Megawatts	3,910	Day of Week	Tuesday	Day of Month	14	Hour of Peak	16:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				19	6	25	
Requests (MW)				3,170	1,150	4,320	
Number of requests accepted				1	4	5	
Requests accepted (MW)				160	850	1,010	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,010	300	3,310	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

 Reporting Month **OCTOBER**

Megawatts	3,220	Day of Week	Thursday	Day of Month	14	Hour of Peak	16:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				19	2	21	
Requests (MW)				3,170	600	3,770	
Number of requests accepted				1	2	3	
Requests accepted (MW)				160	600	760	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,010	0	3,010	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month NOVEMBER

Megawatts	3,016	Day of Week	Tuesday	Day of Month	23	Hour of Peak	8:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				19	16	35	
Requests (MW)				3,170	2,400	5,570	
Number of requests accepted				1	13	14	
Requests accepted (MW)				160	1,600	1,760	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,010	800	3,810	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

Reporting Month DECEMBER

Megawatts	3,115	Day of Week	Tuesday	Day of Month	7	Hour of Peak	19:00
				Firm Transmission Service	Non-Firm Transmission Service	Total	
CURTAILMENT PRIORITY CLASSES							
Number of Requests				19	2	21	
Requests (MW)				3,170	600	3,770	
Number of requests accepted				1	2	3	
Requests accepted (MW)				160	600	760	
							Reason for non-delivery
Requests not accepted (MW) and reason for not accepting delivery				3,010	0	3,010	Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted

4901:5-5-05 Energy and Demand Forecasts for Electric Utilities

DUKE ENERGY OHIO
4901:5-5-04(C) (1) (a)
FORM FE-77: CHARACTERISTICS OF EXISTING TRANSMISSION LINES

WHOLLY OWNED TRANSMISSION LINES DESIGNED FOR 138 KV OPERATION

CIRCUIT NO. DEC-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 & Steel Pole	1	
883	Oakley-Red Bank	Oakley	Red Bank	282	343	377	421	138	138	1.09	100	Steel Tower	2	
886	Oakley-Backjard	Oakley	Backjard											
	Section 1	Oakley	Backjard	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 & 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 & 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	Hankel 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	300	300	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	9.03	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	Backjard-Silver Grove	Backjard	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	Backjard-Wilder	Backjard	Ohio/Ky. St. Line	166	201	221	245	138	138	0.32	100	Steel Tower	2	
1885	Backjard-Tobasco	Backjard	Tobasco	282	343	377	421	138	138	5.84	100	Steel Tower	2	
1887	Backjard-Pierce	Backjard	Pierce	478	478	478	478	138	138	0.38	50	Wood Pole & Steel Tower	1	
1889	Backjard-Pierce	Backjard	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	198	198	249	249	138	138	16.18	100	Wood & Steel 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-INEDS	Miami Fort GT	Tower No. 30	113	137	151	168	69	138	6.39	100	Steel Tower	2	

4901:5-5-05 Energy and Demand Forecasts for Electric Utilities

DUKE ENERGY OHIO
4901:5-5-04(C)(1) (a)
FORM FE-77: 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					
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	
3263	Trenton-Air Products	Tower No. 1	Tower No. 17	83	101	111	123	69	138	2.77	100	Steel Tower	1	
3281	Trenton-Collage Corner	Trenton	Ohio/Ind. St. Line	153	184	203	225	138	138	24.11	100	Steel Tower	2	Collinsville, BREC Huston
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	Backett
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	15.71	100	Steel Tower & Steel Pole	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-Backford	Ohio/Ky. St. Line	Backford	226	275	302	336	138	138	0.37	100	Steel Tower	2	
6365	Tobacco-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-Backford	Summerside	Backford	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

4901:5-5-05 Energy and Demand Forecasts for Electric Utilities

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					
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	
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 698	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	
8368	Yankee-Manchester	Tower No. 17	Tower No. 20	113	137	151	168	69	138	0.35	100	Steel Tower	1	
	Eastwood-Ford	Eastwood	Ford											
	Section 1			253	308	339	378	138	138	4.97	100	Wood Pole	1	
8881	Hillcrest-Innergex	Hillcrest	Innergex Solar switch no. 83-T	286	286	286	286	138	138	0.02	100	Steel pole	1	
	Section 2			253	308	339	378	138	138	1.5	100	Wood Pole	1	
	Section 3			234	282	307	318	138	138	1.32	100	Underground	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 & Steel H-Frame	1	Mapleknoll
	Section 2			226	275	302	336	138	138	11.71	100	Wood & Steel Pole	1	Mt. Healthy, Finneytown
13803	Hutchings-Collage Corner													
	Section 1	Structure 1101	Trenton	170	206	227	252	138	138	4.91	100	Wood H-Frame	1	
	Section 2	Trenton	Tower 129	170	206	227	252	138	138	24.06	100	Steel Tower	2	

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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	2403	2403	2604	2604	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 Band-Terminal	Ohio/Ky. St. Line	Terminal	1195	1315	1195	1315	345	345	14.84	150	Steel Tower	2	
24	Foster-Sugar Creek	Foster	Tower 1021A	1257	1554	1745	1947	345	345	3.2	150	Steel Tower	2	
41	Spurlock-Maldahl Dam	Tower #36	Maldahl 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	
46	Red Bank-Terminal	Tower No. 23	Ohio/Ky. St. Line	1195	1315	1195	1315	345	345	0.8	150	Steel Tower	1	
	Section 1	Red Bank	Terminal											
	Section 2			1195	1315	1195	1315	345	345	5.75	150	Steel Pole	2	
61	Woodsdale-Todhunter	Woodsdale	Todhunter	1195	1315	1195	1315	345	345	0.9	150	Steel Tower	2	
	Section 1			1195	1315	1195	1315	345	345	4.68	150	Steel Tower	2	
	Section 2			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-Maldahl Dam	Zimmer	Maldahl 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	3.79	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	
	Section 1													
	Section 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	

4901:5-5-05 Energy and Demand Forecasts for Electric Utilities

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 1C (customer owned except metering & relays)	T	138	Todhunter-AK Steel 1C	5686	Existing
			Dicks Creek-AK Steel 1C	1985	Existing
AK Steel 606 (customer owned except metering & relays)	T	138	Garver-AK Steel 606	7583	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	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
			Wilder-Brighton	2166	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	T&D	138	Mitchell-Central	1288	Existing
			Central-Oakley	3981	Existing
			Central-Ashland	3985	Existing
Charles	T&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

* 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
Dicks Creek	T	138	Todhunter-Dicks Creek	5682	Existing
			Dicks Creek-AK Steel	1985	Existing
Dimmick	D	138	Foster-Port Union	5483	Existing
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	T&D	138	Evendale-Port Union	4683	Existing
			Evendale-Terminal	4685	Existing
Fairfield	T&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	T&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.	T	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

* DISTRIBUTION(D) TRANSMISSION (T)

4901:5-5-05 Energy and Demand Forecasts for Electric Utilities

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
Lateral	D	138	Elmwood-Lateral	684	Existing
			Lateral-Red Bank	4187	Existing
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	T&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
Pierce	T	345 & 138	Pierce-Foster	4502	Existing
			Pierce-Beckjord	4563	Existing
			Pierce-Beckjord	1887	Existing
			Pierce-Beckjord	1889	Existing

* DISTRIBUTION(D) TRANSMISSION (T)

4901:5-5-05 Energy and Demand Forecasts for Electric Utilities

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

SUBSTATION NAME	TYPE*	VOLTAGE(S) (KV)	LINE NAME	LINE NUMBER	EXISTING OR PROPOSED
Port Union	T&D	345 & 138	Port Union-Summerside	3881	Existing
			Foster-Port Union	5483	Existing
			Port Union-Fairfield	3885	Existing
			Port Union-Fairfield	3886	Existing
			Port Union-Todhunter	3887	Existing
			Port Union-Todhunter	3888	Existing
			Port Union-City of Hamilton	3889	Existing
			Evendale-Port Union	4683	Existing
			Zimmer-Port Union	4544	Existing
			Port Union-Foster	4508	Existing
			Terminal-Port Union	4513	Existing
Provident	D	138	Port Union-Fairfield	3885	Existing
Queensgate	D	138	West End -South Fairmount	1581	Existing
Red Bank	T	345 & 138	Red Bank-Terminal	7481	Existing
			Lateral-Red Bank	4187	Existing
			Beckjord-Red Bank	1883	Existing
			Red Bank-Ashland	7484	Existing
			Oakley-Red Bank	885	Existing
			Red Bank-Tobasco	7489	Existing
			Red Bank-Terminal	4546	Existing
			Zimmer-Red Bank	4545	Existing
Remington	D	138	Remington-Beckjord	9482	Existing
			Foster-Remington	5484	Existing
Rochelle	T&D	138	Ridgeway-Whittier	8281	Existing
			Rochelle-Charles	8283	Existing
			Rochelle-Terminal	8286	Existing
Rockies Express	T	138	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
Simpson	D	138	Foster-Port Union	5483	Existing
Socialville	D	138	Foster-Port Union	5483	Existing
			Montgomery-Socialville	TBD	Proposed
South Fairmount	D	138	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	T&D	138	Beckjord-Oakley-Summerside	886	Existing
			Port Union-Summerside	3881	Existing
			Summerside-Beckjord	6984	Existing
Terminal	T&D	345 & 138	Elmwood-Terminal	689	Existing
			Mitchell-Terminal	1284	Existing
			Terminal-Allen	1762	Existing
			Terminal-Glenview	1782	Existing
			Terminal-Ebenezer	1783	Existing
			Evendale-Terminal	4685	Existing

* DISTRIBUTION(D) TRANSMISSION (T)

4901:5-5-05 Energy and Demand Forecasts for Electric Utilities

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
Todhunter	T&D	345 & 138	Trenton-Todhunter	3284	Existing
			Port Union-Todhunter	3887	Existing
			Port Union-Todhunter	3888	Existing
			Todhunter-Monroe	5667	Existing
			Warren-Todhunter	5680	Existing
			Todhunter-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-Air Products	3263	Existing
Twenty Mile	D	138	Foster-Port Union	5483	Existing
Union	D	138	Garver-Carlisle	7582	Existing
Wards Corner	D	138	Summerside-Port Union	3881	Existing
Warren	T&D	138	Foster-Warren	5484	Existing
			Warren-Todhunter	5680	Existing
			Warren-Clinton County	2381	Existing
West End	T&D	138	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	Ashland-Whittier	1180	Existing
			Rochelle-Whittier	8281	Existing
Willey	T&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:
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.: supplemental project no. pending |

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: | 9/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 1/2023
12/2023 |
| 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.: supplemental project no. pending |

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: | 1/2024 |
| 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.: supplemental project no. pending |

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: | 1/2024 |
| 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.: supplemental project no. pending |

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

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | College Corner-Trenton
DEO-A3281 |
| 2. | Point of Origin:
Terminus: | Structure 26BT-X2-66
Collinsville Substation (Trenton side) |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 500 feet
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 5/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 1/2023
12/2024 |
| 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.: s2569 |

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: | 5/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 1/2023
12/2024 |
| 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.: s2569 |

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: | 5/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 1/2023
12/2024 |
| 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.: s2569 |

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: | 9/2022
12/2022 |
| 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-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: | 9/2022
12/2022 |
| 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-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: | 10/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 1/2023
6/2023 |
| 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:
Line Number: | Mitchell-Brighton
DEO-A1263 |
| 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: | \$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:
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: | 6/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 3/202
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: | 6/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 3/202
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-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-796 |
| 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: | 6/2021 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2021
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: | 6/2021 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2021
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: | Foster-Todhunter
DEO-B4515 |
| 2. | Point of Origin:
Terminus: | Tower No. 6W-X33-55
Tower No. 6W-X33-54 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 1200 feet
150 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 345 kV design and operate voltage |
| 5. | Application for Certificate: | 4/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 6/2022
10/2022 |
| 7. | Capital Investment: | \$ 1,000,000 |
| 8. | Substations: | None |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | 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. 6W-X33-55
Tower No. 6W-X33-54 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 1200 feet
150 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 345 kV design, 138 kV operate voltage |
| 5. | Application for Certificate: | 4/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 6/2022
10/2022 |
| 7. | Capital Investment: | \$ 1,000,000 |
| 8. | Substations: | None |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | 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: | 4/2021
5/2021 |
| 7. | Capital Investment: | \$250,000 |
| 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-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: | 7/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2023
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.: s2512 |

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

1. Line Name: Miami Fort-Glenview
Line Number: DEO-A7284
2. Point of Origin: North Bend Substation (Glenview side)
Terminus: New structure west of tower B10-X2-123
3. Right-of-Way, Length: Approximately 1250 feet
Average Width: 100 feet
Number of Circuits: 1
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 7/2022
6. Construction to Commence: 10/2023
Commercial Operation: 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.: s2512

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: | 7/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2023
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.: s2512 |

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

- | | | |
|-----|--|---|
| 1. | Line Name:
Line Number: | Terminal-Allen
DEO-A1762 |
| 2. | Point of Origin:
Terminus: | Structure Q16-X30-147
Structure Q16-209 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 2000 feet
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design, 69 kV operate voltage |
| 5. | Application for Certificate: | 7/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 1/2023
6/2023 |
| 7. | Capital Investment: | \$3,300,000 |
| 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.: not required
(DEO Ham-10-10 project) |

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

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Red Bank-Ashland
DEO-A7484 |
| 2. | Point of Origin:
Terminus: | Manhole 4-33-5
Manhole 4-37-7 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 1700 feet
In road/public right-of-way
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 8/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2022
3/2023 |
| 7. | Capital Investment: | \$3,400,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | underground |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Relocation of three underground cables that make up a portion of the existing DEO-A7484 circuit to restore full capacity. |
| 12. | Consequences of Line
Construction deferment or
Termination: | The existing circuit is made up of 6 cables, configured as two cables per phase in parallel. One set of cables was damaged beyond repair. The 1940's vintage duct system was found to be deteriorated and would not allow new cables to be installed along the same route. The circuit is currently limited to approximately 50% capacity for emergency use only, which is not tenable for long term operation, the full capacity must be restored. |
| 13. | Miscellaneous: | Area to be served is 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: | Red Bank-Beckjord
DEO-A1883 |
| 2. | Point of Origin:
Terminus: | Structure TBD (new structure)
Newtown 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: | 6/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2023
12/2023 |
| 7. | Capital Investment: | \$912,000 |
| 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
12.5 kV distribution system capacity and enhanced
reliability. |
| 13. | Miscellaneous: | Area to be served is primarily southeast Hamilton
County.
PJM Project No.: s2513 |

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-City of Hamilton
DEO-3889 |
| 2. | Point of Origin:
Terminus: | Structure TBD (new structure)
Seward 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: | 1/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 3/2022
12/2022 |
| 7. | Capital Investment: | \$1,000,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | 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
12.5 kV distribution system capacity and enhanced
reliability. |
| 13. | Miscellaneous: | Area to be served is primarily southeast Butler
County.
PJM Project No.: s2666 |

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

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | East Bend-Terminal
DEO-B4516 |
| 2. | Point of Origin:
Terminus: | Terminal Substation
Structure P16-X1-320 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 330 feet
150 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 345 kV design and operate voltage |
| 5. | Application for Certificate: | 5/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2022
6/2023 |
| 7. | Capital Investment: | \$1,200,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Replaced existing tower due to eroding stream bank. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Potential failure of existing tower. |
| 13. | Miscellaneous: | Area to be served is Hamilton County and surrounding
areas.
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-Terminal
DEO-B4514 |
| 2. | Point of Origin:
Terminus: | Terminal Substation
Structure P16-X1-320 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 330 feet
150 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 345 kV design and operate voltage |
| 5. | Application for Certificate: | 5/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2022
6/2023 |
| 7. | Capital Investment: | \$1,200,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Replaced existing tower due to eroding stream bank. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Potential failure of existing tower. |
| 13. | Miscellaneous: | Area to be served is Hamilton County and surrounding
areas.
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: | Elmwood-Terminal
DEO-A689 |
| 2. | Point of Origin:
Terminus: | Terminal Substation
Structure P16-539 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 300 feet
150 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 5/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2022
6/2023 |
| 7. | Capital Investment: | \$500,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Replaced existing pole due to eroding stream bank. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Potential failure of existing pole. |
| 13. | Miscellaneous: | Area to be served is primarily Hamilton County.
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-Hebron
DEO-A1683 |
| 2. | Point of Origin:
Terminus: | Miami Fort Substation
Ohio/Kentucky State Line |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 900 feet
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 6/2023 |
| 6. | Construction to Commence:
Commercial Operation: | 9/2023
12/2024 |
| 7. | Capital Investment: | \$5,000,000 |
| 8. | Substations: | None |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Increase capacity of the existing Miami Fort to Hebron
138 kV Feeder DEO-A1683. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Overload of existing conductor during various outage
conditions. |
| 13. | Miscellaneous: | Area to be served is primarily south-west Hamilton
County.
PJM Project No.: b3334 |

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-Hebron
DEO-A2862 |
| 2. | Point of Origin:
Terminus: | Miami Fort Substation
Ohio/Kentucky State Line |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 900 feet
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design, 69 kV operate voltage |
| 5. | Application for Certificate: | 6/2023 |
| 6. | Construction to Commence:
Commercial Operation: | 9/2023
12/2024 |
| 7. | Capital Investment: | \$5,000,000 |
| 8. | Substations: | None |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Increase capacity of the existing Miami Fort to Hebron
138 kV Feeder DEO-A1683. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Overload of existing conductor during various outage
conditions. |
| 13. | Miscellaneous: | Area to be served is primarily south-west Hamilton
County.
PJM Project No.: b3334 |

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: | Structure W81-49
Structure W81-100 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | Approximately 1000 feet
50 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 11/2021 |
| 6. | Construction to Commence:
Commercial Operation: | 2/2022
9/2022 |
| 7. | Capital Investment: | \$1,000,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other Utilities: | DEO – 100% |
| 11. | Purpose of the planned transmission line: | 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 southwest 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: | Structure TBD (new structure)
Kleeman 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: | 6/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2023
12/2023 |
| 7. | Capital Investment: | \$912,000 |
| 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 reconfiguration to replace deteriorated
facilities and enhance operational flexibility for
distribution supply equipment. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Inability to perform required substation work, to install
new 12.5 kV distribution system capacity and enhanced
reliability. |
| 13. | Miscellaneous: | Area to be served is primarily southeast 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: | Red Bank-Zimmer
DEO-B4545 |
| 2. | Point of Origin:
Terminus: | Structure U10-X31-94
Structure U10-X30-90 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 4200 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: | Reroute circuit around existing tower U10-X30-92 due
to eroding riverbank. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Failure of existing tower. |
| 13. | Miscellaneous: | Area to be served is Hamilton County and surrounding
areas.
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: | Red Bank-Beckjord
DEO-B1883 |
| 2. | Point of Origin:
Terminus: | Structure U10-X31-94
Structure U10-X30-90 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 4200 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: | Reroute circuit around existing tower U10-X30-92 due
to eroding riverbank. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Failure of existing tower. |
| 13. | Miscellaneous: | Area to be served is Hamilton County and surrounding
areas.
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: | Todhunter- (To be determined)
DEO-A (circuit no. not yet determined) |
| 2. | Point of Origin:
Terminus: | Todhunter Substation
(To be determined) Substation |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 1.8 miles
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 6/2023 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2023
6/2024 |
| 7. | Capital Investment: | \$4,500,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Provide increased capacity to supply new load. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Overload of existing lines during various outage
conditions. |
| 13. | Miscellaneous: | New substation to be constructed in the vicinity of
Oxford State Road and Breiel Blvd. Area to be served is
primarily east-central Butler County.
PJM Project No.: supplemental project no. pending |

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

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Todhunter-AK Steel 1C
DEO-A5686 |
| 2. | Point of Origin:
Terminus: | Vicinity of Structure BT60-X1-58
New substation on Oxford State Rd. |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 800 feet
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 6/2023 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2023
6/2024 |
| 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: | Provide increased capacity to supply new load. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Overload of existing lines during various outage
conditions. |
| 13. | Miscellaneous: | Reroute existing circuit to new substation to be
constructed in the vicinity of Oxford State Road and
Breiel Blvd. Area to be served is primarily east-central
Butler County.
PJM Project No.: supplemental project no. pending |

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

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Dicks Creek-AK Steel 1C
DEO-A1985 |
| 2. | Point of Origin:
Terminus: | Vicinity of Structure BT60-X1-58
New substation on Oxford State Rd. |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 800 feet
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 6/2023 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2023
6/2024 |
| 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: | Provide increased capacity to supply new load. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Overload of existing lines during various outage
conditions. |
| 13. | Miscellaneous: | Reroute existing circuit to new substation to be
constructed in the vicinity of Oxford State Road and
Breiel Blvd. Area to be served is primarily east-central
Butler County.
PJM Project No.: supplemental project no. pending |

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

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Todhunter-Dicks Creek
DEO-A5682 |
| 2. | Point of Origin:
Terminus: | Todhunter Substation
Vicinity of structure BT69-X1-52 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 1250 feet
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 6/2023 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2023
6/2024 |
| 7. | Capital Investment: | \$600,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Enable new Todhunter to new substation line to be
routed out of Todhunter Substation. Provide increased
capacity to supply new load. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Overload of existing lines during various outage
conditions. |
| 13. | Miscellaneous: | Reroute existing circuit out of Todhunter Substation.
Area to be served is primarily east-central Butler
County.
PJM Project No.: supplemental project no. pending |

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

- | | | |
|-----|---|---|
| 1. | Line Name:
Line Number: | Todhunter-AK Steel 1C
DEO-A5686 |
| 2. | Point of Origin:
Terminus: | Todhunter Substation
Vicinity of structure BT69-X1-52 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 1250 feet
100 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 6/2023 |
| 6. | Construction to Commence:
Commercial Operation: | 10/2023
6/2024 |
| 7. | Capital Investment: | \$600,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other
Utilities: | DEO – 100% |
| 11. | Purpose of the planned
transmission line: | Enable new Todhunter to new substation line to be
routed out of Todhunter Substation. Provide increased
capacity to supply new load. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Overload of existing lines during various outage
conditions. |
| 13. | Miscellaneous: | Reroute existing circuit out of Todhunter Substation.
Area to be served is primarily east-central Butler
County.
PJM Project No.: supplemental project no. pending |

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

- | | | |
|-----|--|--|
| 1. | Line Name:
Line Number: | Willey-Mapleknoll
DEO-A9787 |
| 2. | Point of Origin:
Terminus: | Pole No. M19-474
Pole No. M19-476 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 150 feet
50 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 8/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 11/2022
12/2022 |
| 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: | Install new pole to accept installation of distribution reliability enhancement equipment. |
| 12. | Consequences of Line Construction deferment or Termination: | Failure to increase distribution system reliability. |
| 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: | Fairfield-City of Hamilton
DEO-A5781 |
| 2. | Point of Origin:
Terminus: | Pole No. BT108-20
Pole No. BT108-21 |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | approximately 250 feet
50 feet
1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 8/2022 |
| 6. | Construction to Commence:
Commercial Operation: | 11/2022
12/2022 |
| 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: | Install new pole to accept installation of distribution
reliability enhancement equipment. |
| 12. | Consequences of Line
Construction deferment or
Termination: | Failure to increase distribution system reliability. |
| 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: | Red Bank-Terminal
DEO-A7481 |
| 2. | Point of Origin:
Terminus: | To Be determined
To Be determined |
| 3. | Right-of-Way, Length:
Average Width:
Number of Circuits: | To Be determined
To Be determined
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 east-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.: s2425

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

Substation Name: Keeve~~r~~

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: 2023

Line Association(s): DEO-A7284

Minimum Substation Site Acreage: Approximately 5 acres

PJM Project No.: s2512

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

Substation Name: Camp Washington

Voltage(s): 138 kV, 12.5 kV

Type of Substation: Distribution (D)

Timing: 2025

Line Association(s): DEO-A1581

Minimum Substation Site Acreage: Approximately 2 acres

PJM Project No.: conceptual

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

Substation Name: Oxford State

Voltage(s): 138 kV

Type of Substation: Transmission (T)

Timing: 2024

Line Association(s): DEO-A1985, DEO-A5686, DEO-A568_

Minimum Substation Site Acreage: Approximately 4 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	2017	7,224,769	6,463,691	5,005,163	-	1,298,968		19,992,591	1,147,876	21,140,467
-4	2018	7,241,327	6,493,124	4,979,117	-	1,340,451		20,054,019	1,020,221	21,074,240
-3	2019	7,215,923	6,396,886	4,864,581	-	1,314,387		19,791,777	1,260,841	21,052,618
-2	2020	7,535,156	6,038,465	4,598,303	-	1,200,407		19,372,331	1,370,328	20,742,658
-1	2021	7,456,189	6,131,826	4,777,179	-	1,211,388		19,576,583	1,122,006	20,698,589
0	2022	7,377,705	6,219,174	4,826,365	-	1,234,853	-	19,658,097	1,102,870	20,760,967
1	2023	7,371,793	6,257,663	4,827,543	-	1,253,710	-	19,710,709	1,105,948	20,816,657
2	2024	7,409,522	6,292,291	4,836,693	-	1,270,267	6,904	19,801,870	1,111,396	20,913,266
3	2025	7,515,242	6,329,727	4,840,021	-	1,279,495	26,340	19,938,145	1,120,046	21,058,191
4	2026	7,585,985	6,364,080	4,845,650	-	1,287,472	64,508	20,018,677	1,126,640	21,145,317
5	2027	7,677,195	6,410,653	4,856,713	-	1,299,578	125,528	20,118,610	1,135,581	21,254,191
6	2028	7,760,386	6,469,482	4,872,122	-	1,315,612	205,668	20,211,934	1,145,217	21,357,151
7	2029	7,842,025	6,540,016	4,890,553	-	1,336,741	292,395	20,316,940	1,155,867	21,472,808
8	2030	7,966,673	6,621,992	4,910,797	-	1,357,508	373,882	20,483,088	1,169,623	21,652,712
9	2031	8,033,741	6,695,463	4,930,895	-	1,374,708	439,809	20,594,998	1,179,502	21,774,500
10	2032	8,108,355	6,773,134	4,948,548	-	1,387,917	482,884	20,735,070	1,189,676	21,924,746

(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	2017	7,224,769	6,463,691	5,005,163	-	1,298,968	19,992,591	1,147,876	21,140,467
-4	2018	7,241,327	6,493,124	4,979,117	-	1,340,451	20,054,019	1,020,221	21,074,240
-3	2019	7,215,923	6,396,886	4,864,581	-	1,314,387	19,791,777	1,260,841	21,052,618
-2	2020	7,535,156	6,038,465	4,598,303	-	1,200,407	19,372,331	1,370,328	20,742,658
-1	2021	7,456,189	6,131,826	4,777,179	-	1,211,388	19,576,583	1,122,006	20,698,589
0	2022	7,377,705	6,219,174	4,826,365	-	1,234,853	19,658,097	1,102,870	20,760,967
1	2023	7,371,793	6,257,663	4,827,543	-	1,253,710	19,710,709	1,105,948	20,816,657
2	2024	7,409,522	6,292,291	4,836,693	-	1,270,267	19,808,774	1,111,396	20,920,170
3	2025	7,515,242	6,329,727	4,840,021	-	1,279,495	19,964,485	1,120,046	21,084,531
4	2026	7,585,985	6,364,080	4,845,650	-	1,287,472	20,083,186	1,126,640	21,209,826
5	2027	7,677,195	6,410,653	4,856,713	-	1,299,578	20,244,138	1,135,581	21,379,719
6	2028	7,760,386	6,469,482	4,872,122	-	1,315,612	20,417,602	1,145,217	21,562,818
7	2029	7,842,025	6,540,016	4,890,553	-	1,336,741	20,609,335	1,155,867	21,765,203
8	2030	7,966,673	6,621,992	4,910,797	-	1,357,508	20,856,970	1,169,623	22,026,593
9	2031	8,033,741	6,695,463	4,930,895	-	1,374,708	21,034,807	1,179,502	22,214,309
10	2032	8,108,355	6,773,134	4,948,548	-	1,387,917	21,217,954	1,189,676	22,407,630

(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	2016	4,171	0	4,171	3,421	4,171	0	4,171	3,421
-5	2017	3,957	0	3,957	3,713	3,957	0	3,957	3,713
-4	2018	4,091	0	4,091	3,793	4,091	0	4,091	3,793
-3	2019	3,932	0	3,932	3,169	3,976	44	3,932	3,169
-2	2020	3,899	0	3,899	3,305	3,899	0	3,899	3,305
-1	2021	4,198	0	4,198	3,420	4,198	0	4,198	3,420
0	2022	4,049	0	4,049	3,639	4,049	0	4,049	3,639
1	2023	4,051	0	4,051	3,640	4,051	0	4,051	3,640
2	2024	4,060	0	4,060	3,720	4,060	0	4,060	3,720
3	2025	4,066	0	4,066	3,727	4,066	0	4,066	3,727
4	2026	4,086	0	4,086	3,727	4,086	0	4,086	3,727
5	2027	4,097	0	4,097	3,712	4,097	0	4,097	3,712
6	2028	4,105	0	4,105	3,739	4,105	0	4,105	3,739
7	2029	4,111	0	4,111	3,830	4,111	0	4,111	3,830
8	2030	4,121	0	4,121	3,850	4,121	0	4,121	3,850
9	2031	4,120	0	4,120	3,810	4,120	0	4,120	3,810
10	2032	4,166	0	4,166	3,804	4,166	0	4,166	3,804

(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 2021 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	<u>Summer</u>	Demand Response	<u>Net Summer</u>	<u>Winter (b)</u>	<u>Summer</u>	Demand Response	<u>Net Summer</u>	<u>Winter (b)</u>
-6	2016	4,171	0	4,171	3,421	4,171	0	4,171	3,421
-5	2017	3,957	0	3,957	3,713	3,957	0	3,957	3,713
-4	2018	4,091	0	4,091	3,793	4,091	0	4,091	3,793
-3	2019	3,932	0	3,932	3,169	3,976	44	3,932	3,169
-2	2020	3,899	0	3,899	3,305	3,899	0	3,899	3,305
-1	2021	4,198	0	4,198	3,420	4,198	0	4,198	3,420
0	2022	4,049	0	4,049	3,305	4,049	0	4,049	3,305
1	2023	4,051	0	4,051	3,587	4,051	0	4,051	3,587
2	2024	4,060	0	4,060	3,639	4,060	0	4,060	3,639
3	2025	4,066	0	4,066	3,640	4,066	0	4,066	3,640
4	2026	4,086	0	4,086	3,720	4,086	0	4,086	3,720
5	2027	4,097	0	4,097	3,727	4,097	0	4,097	3,727
6	2028	4,105	0	4,105	3,727	4,105	0	4,105	3,727
7	2029	4,111	0	4,111	3,712	4,111	0	4,111	3,712
8	2030	4,121	0	4,121	3,739	4,121	0	4,121	3,739
9	2031	4,120	0	4,120	3,830	4,120	0	4,120	3,830
10	2032	4,166	0	4,166	3,850	4,166	0	4,166	3,850

(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 2021 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>2022 (d)</u>				<u>Ohio Service Area</u>	<u>System</u>
January				1,848,230	1,848,230
February				1,703,739	1,703,739
March				1,610,618	1,610,618
April				1,490,123	1,490,123
May				1,548,269	1,548,269
June				1,819,341	1,819,341
July				2,038,745	2,038,745
August				1,999,943	1,999,943
September				1,769,772	1,769,772
October				1,550,288	1,550,288
November				1,583,454	1,583,454
December				1,798,444	1,798,444
<u>2023 (d)</u>					
January				1,829,452	1,829,452
February				1,690,890	1,690,890
March				1,617,344	1,617,344
April				1,465,488	1,465,488
May				1,568,204	1,568,204
June				1,830,962	1,830,962
July				2,104,373	2,104,373
August				2,003,298	2,003,298
September				1,846,840	1,846,840
October				1,567,350	1,567,350
November				1,575,549	1,575,549
December				1,716,907	1,716,907

- (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>2022 (d)</u>				<u>Ohio Service Area</u>	<u>System</u>
January				1,848,230	1,848,230
February				1,703,739	1,703,739
March				1,610,618	1,610,618
April				1,490,123	1,490,123
May				1,548,269	1,548,269
June				1,819,341	1,819,341
July				2,038,745	2,038,745
August				1,999,943	1,999,943
September				1,769,772	1,769,772
October				1,550,288	1,550,288
November				1,583,454	1,583,454
December				1,798,444	1,798,444
<u>2023 (d)</u>					
January				1,829,452	1,829,452
February				1,690,890	1,690,890
March				1,617,344	1,617,344
April				1,465,488	1,465,488
May				1,568,204	1,568,204
June				1,830,962	1,830,962
July				2,104,373	2,104,373
August				2,003,298	2,003,298
September				1,846,840	1,846,840
October				1,567,350	1,567,350
November				1,575,549	1,575,549
December				1,716,907	1,716,907

- (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>2022 (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	3,587	0	3,587	3,587	3,587	3,587
February	3,249	0	3,249	3,249	3,249	3,249
March	2,714	0	2,714	2,714	2,714	2,714
April	2,478	0	2,478	2,478	2,478	2,478
May	3,322	0	3,322	3,322	3,322	3,322
June	3,874	0	3,874	3,874	3,874	3,874
July	4,049	0	4,049	4,049	4,049	4,049
August	3,999	0	3,999	3,999	3,999	3,999
September	3,780	0	3,780	3,780	3,780	3,780
October	2,555	0	2,555	2,555	2,555	2,555
November	3,001	0	3,001	3,001	3,001	3,001
December	3,181	0	3,181	3,181	3,181	3,181
<u>2023 (d)</u>						
January	3,639	0	3,639	3,639	3,639	3,639
February	3,273	0	3,273	3,273	3,273	3,273
March	2,729	0	2,729	2,729	2,729	2,729
April	2,485	0	2,485	2,485	2,485	2,485
May	3,325	0	3,325	3,325	3,325	3,325
June	3,876	0	3,876	3,876	3,876	3,876
July	4,051	0	4,051	4,051	4,051	4,051
August	4,001	0	4,001	4,001	4,001	4,001
September	3,783	0	3,783	3,783	3,783	3,783
October	2,563	0	2,563	2,563	2,563	2,563
November	3,018	0	3,018	3,018	3,018	3,018
December	3,199	0	3,199	3,199	3,199	3,199

(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>2022 (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	3,587	0	3,587	3,587	3,587	3,587
February	3,249	0	3,249	3,249	3,249	3,249
March	2,714	0	2,714	2,714	2,714	2,714
April	2,478	0	2,478	2,478	2,478	2,478
May	3,322	0	3,322	3,322	3,322	3,322
June	3,874	0	3,874	3,874	3,874	3,874
July	4,049	0	4,049	4,049	4,049	4,049
August	3,999	0	3,999	3,999	3,999	3,999
September	3,780	0	3,780	3,780	3,780	3,780
October	2,555	0	2,555	2,555	2,555	2,555
November	3,001	0	3,001	3,001	3,001	3,001
December	3,181	0	3,181	3,181	3,181	3,181
<u>2023 (d)</u>						
January	3,639	0	3,639	3,639	3,639	3,639
February	3,273	0	3,273	3,273	3,273	3,273
March	2,729	0	2,729	2,729	2,729	2,729
April	2,485	0	2,485	2,485	2,485	2,485
May	3,325	0	3,325	3,325	3,325	3,325
June	3,876	0	3,876	3,876	3,876	3,876
July	4,051	0	4,051	4,051	4,051	4,051
August	4,001	0	4,001	4,001	4,001	4,001
September	3,783	0	3,783	3,783	3,783	3,783
October	2,563	0	2,563	2,563	2,563	2,563
November	3,018	0	3,018	3,018	3,018	3,018
December	3,199	0	3,199	3,199	3,199	3,199

(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)

	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	5091	5091	5091	5091	5091	5091	5091
Sales												
Renewable												
Available Capability	5191	5191	5191	5191	5191	5091	5091	5091	5091	5091	5091	5091
Native Load	3,587	3,249	2,714	2,478	3,322	3,874	4,049	3,999	3,780	2,555	3,001	3,181
Energy Reduction Programs ^c	0	0	0	0	0	0	0	0	0	0	0	0
Available Reserve	1,604	1,942	2,477	2,713	1,869	1,217	1,042	1,092	1,311	2,536	2,090	1,910
Internal Load ^a	3,587	3,249	2,714	2,478	3,322	3,874	4,049	3,999	3,780	2,555	3,001	3,181
Reserve	1,604	1,942	2,477	2,713	1,869	1,217	1,042	1,092	1,311	2,536	2,090	1,910
	2023											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases ^d	5091	5091	5091	5091	5091	5054	5054	5054	5054	5054	5054	5054
Sales												
Renewable												
Available Capability	5091	5091	5091	5091	5091	5054	5054	5054	5054	5054	5054	5054
Native Load	3,639	3,273	2,729	2,485	3,325	3,876	4,051	4,001	3,783	2,563	3,018	3,199
Energy Reduction Programs ^c	0	0	0	0	0	0	0	0	0	0	0	0
Available Reserve	1,452	1,818	2,362	2,606	1,766	1,178	1,003	1,053	1,271	2,491	2,036	1,855
Internal Load ^a	3,639	3,273	2,729	2,485	3,325	3,876	4,051	4,001	3,783	2,563	3,018	3,199
Reserve ^e	1,452	1,818	2,362	2,606	1,766	1,178	1,003	1,053	1,271	2,491	2,036	1,855

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)**

	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	5091	5091	5091	5091	5091	5091	5091
Sales												
Available Capability	5191	5191	5191	5191	5191	5091	5091	5091	5091	5091	5091	5091
Native Load	3,587	3,249	2,714	2,478	3,322	3,874	4,049	3,999	3,780	2,555	3,001	3,181
Available Reserve	1,604	1,942	2,477	2,713	1,869	1,217	1,042	1,092	1,311	2,536	2,090	1,910
Internal Load ^a	3,587	3,249	2,714	2,478	3,322	3,874	4,049	3,999	3,780	2,555	3,001	3,181
Reserve	1,604	1,942	2,477	2,713	1,869	1,217	1,042	1,092	1,311	2,536	2,090	1,910

	2023											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases ^c	5091	5091	5091	5091	5091	5054	5054	5054	5054	5054	5054	5054
Sales												
Available Capability	5091	5091	5091	5091	5091	5054	5054	5054	5054	5054	5054	5054
Native Load	3,639	3,273	2,729	2,485	3,325	3,876	4,051	4,001	3,783	2,563	3,018	3,199
Available Reserve	1,452	1,818	2,362	2,606	1,766	1,178	1,003	1,053	1,271	2,491	2,036	1,855
Internal Load ^a	3,639	3,273	2,729	2,485	3,325	3,876	4,051	4,001	3,783	2,563	3,018	3,199
Reserve ^d	1,452	1,818	2,362	2,606	1,766	1,178	1,003	1,053	1,271	2,491	2,036	1,855

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 12/31/2021)

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

NOT APPLICABLE

PUCO Form FE-R4:
Actual Generating Capability Dedicated to Meet Ohio Peak Load (as of 12/31/2021)

		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) 2017	(-4) 2018	(-3) 2019	(-2) 2020	(-1) 2021	(0) 2022	(1) 2023	(2) 2024
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^d	5020	4970	5020	5072	5191	5091	5054	4669
Sales								
Renewable								
Available Capability ^a	5020	4970	5020	5072	5191	5091	5054	4669
Native Load	3,957	4,091	3,932	3,899	4,198	4,049	4,051	4,060
Energy Reduction Programs ^c	0	0	44	0	0	0	0	0
Available Reserve	1063	879	1044	1173	993	1042	1003	609
Internal Load ^b	3,957	4,091	3,976	3,899	4,198	4,049	4,051	4,060
Reserve ^e	1063	879	1044	1173	993	1042	1003	609
	(3) 2025	(4) 2026	(5) 2027	(6) 2028	(7) 2029	(8) 2030	(9) 2031	(10) 2032
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^d	4676	4698	4711	4721	4727	4740	4738	4791
Sales								
Renewable								
Available Capability ^a	4676	4698	4711	4721	4727	4740	4738	4791
Native Load	4,066	4,086	4,097	4,105	4,111	4,121	4,120	4,166
Energy Reduction Programs ^c	0	0	0	0	0	0	0	0
Available Reserve	610	613	615	616	617	618	618	625
Internal Load ^b	4,066	4,086	4,097	4,105	4,111	4,121	4,120	4,166
Reserve ^e	610	613	615	616	617	618	618	625

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) 2017	(-4) 2018	(-3) 2019	(-2) 2020	(-1) 2021	(0) 2022	(1) 2023	(2) 2024
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^c	5020	4970	5020	5072	5191	5091	5054	4669
Sales								
Available Capability ^a	5020	4970	5020	5072	5191	5091	5054	4669
Native Load	3,957	4,091	3,932	3,899	4,198	4,049	4,051	4,060
Available Reserve	1,063	879	1,088	1,173	993	1,042	1,003	609
Internal Load ^b	3,957	4,091	3,976	3,899	4,198	4,049	4,051	4,060
Reserve ^d	1,063	879	1,044	1,173	993	1,042	1,003	609
<hr/>								
	(3) 2025	(4) 2026	(5) 2027	(6) 2028	(7) 2029	(8) 2030	(9) 2031	(10) 2032
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^c	4676	4698	4711	4721	4727	4740	4738	4791
Sales								
Available Capability ^a	4676	4698	4711	4721	4727	4740	4738	4791
Native Load	4,066	4,086	4,097	4,105	4,111	4,121	4,120	4,166
Available Reserve	610	613	615	616	617	618	618	625
Internal Load ^b	4,066	4,086	4,097	4,105	4,111	4,121	4,120	4,166
Reserve ^d	610	613	615	616	617	618	618	625

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) 2017	(-4) 2018	(-3) 2019	(-2) 2020	(-1) 2021	(0) 2022	(1) 2023	(2) 2024
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^d	5020	4970	5020	5072	5191	5091	5054	4669
Sales								
Renewable								
Available Capability ^a	5020	4970	5020	5072	5191	5091	5054	4669
Native Load	3,713	3,793	3,169	3,305	3,420	3,305	3,587	3,639
Energy Reduction Programs ^c	0	0	0	0	0	0	0	0
Available Reserve	1,307	1,177	1,851	1,767	1,771	1,786	1,467	1,030
Internal Load ^b	3,713	3,793	3,169	3,305	3,420	3,305	3,587	3,639
Reserve ^e	1,307	1,177	1,851	1,767	1,771	1,786	1,467	1,030
	(3) 2025	(4) 2026	(5) 2027	(6) 2028	(7) 2029	(8) 2030	(9) 2031	(10) 2032
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^d	4676	4698	4711	4721	4727	4740	4738	4791
Sales								
Renewable								
Available Capability ^a	4676	4698	4711	4721	4727	4740	4738	4791
Native Load	3,640	3,720	3,727	3,727	3,830	3,739	3,830	3,850
Energy Reduction Programs ^c	0	0	0	0	-118	0	0	0
Available Reserve	1036	978	984	994	1015	1001	908	941
Internal Load ^b	3,640	3,720	3,727	3,727	3,712	3,739	3,830	3,850
Reserve ^e	1036	978	984	994	1015	1001	908	941

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) 2017	(-4) 2018	(-3) 2019	(-2) 2020	(-1) 2021	(0) 2022	(1) 2023	(2) 2024
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^c	5020	4970	5020	5072	5191	5091	5054	4669
Sales								
Available Capability ^a	5020	4970	5020	5072	5191	5091	5054	4669
Native Load	3713	3793	3169	3305	3420	3305	3587	3639
Available Reserve	1307	1177	1851	1767	1771	1786	1467	1030
Internal Load ^b	3713	3793	3169	3305	3420	3305	3587	3639
Reserve ^d	1307	1177	1851	1767	1771	1786	1467	1030

	(3) 2025	(4) 2026	(5) 2027	(6) 2028	(7) 2029	(8) 2030	(9) 2031	(10) 2032
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^c	4676	4698	4711	4721	4727	4740	4738	4791
Sales								
Available Capability ^a	4676	4698	4711	4721	4727	4740	4738	4791
Native Load	3640	3720	3727	3727	3830	3739	3830	3850
Available Reserve	1036	978	984	994	897	1001	908	941
Internal Load ^b	3640	3720	3727	3727	3712	3739	3830	3850
Reserve ^d	1036	978	984	994	1015	1001	908	941

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	

**This foregoing document was electronically filed with the Public Utilities
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Summary: Report 2022 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 D'Ascenzo, Rocco and Vaysman, Larisa