



139 East Fourth Street
ML- 1301
Cincinnati, Ohio, 45202

o: 513-287-4320
f: 513-287-4386

July 1, 2021

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

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

Dear Ms. Troupe:

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

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

Respectfully submitted,

/s/ Jeanne W. Kingery
Rocco O. D'Ascenzo (0077651)
Deputy General Counsel
Jeanne W. Kingery (0012172)
Associate General Counsel
Duke Energy Ohio, Inc.
139 E. Fourth Street
Cincinnati, Ohio 45202
(513) 287-4320
Rocco.d'ascenzo@duke-energy.com
Jeanne.kingery@duke-energy.com

Cc: Bruce Weston, Ohio Consumers' Counsel



2021

**LONG-TERM ELECTRIC FORECAST
REPORT**

**SUBMITTED BY
DUKE ENERGY OHIO, INC.**

CASE NO. 21-503-EL-FOR

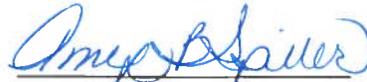
JULY 1, 2021

**Rocco D'Ascenzo
Deputy General Counsel
Jeanne W, Kingery
Associate General Counsel
Duke Energy Ohio, Inc.
139 East Fourth Street
Cincinnati, Ohio 45202**

STATEMENT
OF
AMY B. SPILLER
PRESIDENT, DUKE ENERGY OHIO, INC.

I, Amy B. Spiller, President of Duke Energy Ohio, Inc., hereby certify that DUKE ENERGY OHIO, INC.'S 2021 ELECTRIC LONG-TERM FORECAST REPORT AND RESOURCE PLAN as submitted to the Public Utilities Commission of Ohio is true and correct to the best of my knowledge and belief.

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


Amy B. Spiller
President
Duke Energy Ohio, Inc.

CERTIFICATE OF SERVICE

I hereby certify that a true and accurate copy of DUKE ENERGY OHIO, INC.'S 2021 ELECTRIC LONG-TERM FORECAST REPORT AND RESOURCE PLAN was served by electronic delivery, this 1st day of July, 2021 upon the following:

Office of the Ohio Consumers' Counsel

65 East State Street, 7th Floor

Columbus, OH 43215

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

/s/ Jeanne W. Kingery

Rocco D'Ascenzo (0077651)

Deputy General Counsel

Jeanne W. Kingery (0012172)

Associate General Counsel

Duke Energy Business Services LLC

139 East Fourth Street

Cincinnati, Ohio 45202

(513) 287-4320 (Telephone)

(513) 287-4385 (Fax)

Rocco.d'ascenzo@duke-energy.com

Jeanne.kingery@duke-energy.com

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

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

TABLE OF CONTENTS

| Form | Title | Page |
|-------------|---|-------------|
| FE-T1 | Transmission Energy Delivery Forecast | 2 |
| FE-T2 | System Seasonal Peak Load Demand Forecast | 3 |
| FE-T3 | Total Monthly Energy Forecast | 5 |
| FE-T4 | Monthly Internal Peak Load | 6 |
| FE-T5 | Monthly Energy Transactions | 7 |
| FE-T6 | Conditions at Monthly Peak | 31 |
| FE-T7 | Characteristics of Existing Transmission Lines | 37 |
| FE-T8 | Summary of Existing Substations | 41 |
| FE-T9 | Specifications of Planned Transmission Lines | 46 |
| FE-T10 | Summary of Proposed Substations | 92 |
| FE-D1 | EDU Service Area Energy Delivery Forecast | 97 |
| FE-D3 | EDU system Seasonal Peak Load Demand Forecast | 99 |
| FE-D5 | EDU's Total Monthly Energy Forecast | 101 |
| FE-D6 | EDU's Monthly Internal Peak Load Forecast | 103 |
| FE-R1 | Monthly Forecast of Electric Utility's Ohio Service Area Peak Load & Resources | 105 |
| FE-R2 | Monthly Forecast of Electric Utility's System Peak Load & Resources | 106 |
| FE-R3 | Summary of Existing Electric Generating Facilities for System | 107 |
| FE-R4 | Actual Generating Capability Dedicated to Meet Ohio Peak Load | 108 |
| FE-R5 | Projected Generating Capability Changes to Meet Future Ohio Peak Load | 109 |
| FE-R6 | Electric Utility's Actual & Forecast Ohio Peak Load & Resources Dedicated to Meet Electric Utility's Ohio Peak Load | 110 |
| FE-R7 | Actual & Forecast System Peak Load & Resources Dedicated to Meet System Peak Load | 111 |
| FE-R8 | Electric Utility's Actual & Forecast Ohio Peak Load & Resources Dedicated to Meet System Peak Load | 112 |
| FE-R9 | Actual & Forecast System Peak Load & Resources Dedicated to Meet System Peak Load | 113 |
| FE-R10 | Specifications of Planned Electric Generation Facilities | 114 |

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

| YEAR | (1) ENERGY RECEIPTS FROM GENERATION SOURCES CONNECTED TO THE OWNER'S SYSTEM INSIDE OHIO | (2) ENERGY RECEIPTS FROM GENERATION SOURCES CONNECTED TO THE SYSTEM OUTSIDE OHIO | (3) TOTAL ENERGY RECEIPTS FROM GENERATION SOURCES 1 + 2 | (4) ENERGY RECEIPTS AT INTERCONNECTIONS WITH OTHER TRANSMISSION COMPANIES | (5) ENERGY RECEIPTS AT INTERCONNECTIONS WITH OTHER TRANSMISSION COMPANIES OUTSIDE OHIO | (6) TOTAL ENERGY RECEIPTS AT INTERCONNECTIONS 4 + 5 | (7) TOTAL ENERGY RECEIPTS 3 + 6 | (8) ENERGY DELIVERIES AT INTERCONNECTIONS WITH OTHER TRANSMISSION COMPANIES INSIDE OHIO | (9) ENERGY DELIVERIES AT INTERCONNECTIONS WITH OTHER TRANSMISSION COMPANIES OUTSIDE OHIO | (10) TOTAL ENERGY DELIVERIES AT INTERCONNECTIONS 8 + 9 | (11) TOTAL ENERGY DELIVERIES FOR LOAD CONNECTED TO THE SYSTEM 7 - 10 | (12) ENERGY DELIVERIES FOR LOADS CONNECTED TO THE SYSTEM INSIDE OHIO | (13) ENERGY DELIVERIES FOR LOADS CONNECTED TO THE SYSTEM OUTSIDE OHIO 11 - 12 | |
|------|--|---|---|--|---|---|---------------------------------------|--|---|--|--|---|---|-----------|
| -5 | 2016 | 16,545,979 | 3,184,661 | 19,730,640 | 19,227,267 | 1,349,731 | 20,576,998 | 40,307,638 | 13,293,957 | 219,634 | 13,513,591 | 26,794,047 | 22,570,857 | 4,223,190 |
| -4 | 2017 | 21,136,419 | 3,708,908 | 24,845,327 | 5,624,083 | 10,408,958 | 16,033,041 | 40,878,368 | 13,398,685 | 1,253,227 | 14,651,912 | 25,654,763 | 21,371,487 | 4,283,277 |
| -3 | 2018 | 16,526,108 | 2,912,565 | 19,438,673 | 19,634,282 | 1,159,012 | 20,793,294 | 40,231,967 | 12,941,696 | 269,313 | 13,211,009 | 27,020,958 | 22,531,338 | 4,489,620 |
| -2 | 2019 | 12,970,578 | 4,456,234 | 17,426,812 | 21,215,216 | 1,048,075 | 22,263,291 | 39,690,103 | 12,107,842 | 372,451 | 12,480,293 | 27,209,810 | 20,902,705 | 4,168,329 |
| -1 | 2020 | 12,970,578 | 4,456,234 | 17,426,812 | 21,215,216 | 1,048,075 | 22,263,291 | 39,690,103 | 12,107,842 | 372,451 | 12,480,293 | 24,501,241 | 20,459,323 | 4,041,917 |
| 0 | 2021 | | | | | | | | | | | 24,824,086 | 20,675,575 | 4,148,511 |
| 1 | 2022 | | | | | | | | | | | 24,958,329 | 20,748,144 | 4,210,185 |
| 2 | 2023 | | | | | | | | | | | 25,206,450 | 20,917,279 | 4,289,171 |
| 3 | 2024 | | | | | | | | | | | 25,327,408 | 21,024,397 | 4,303,011 |
| 4 | 2025 | | | | | | | | | | | 25,527,948 | 21,153,354 | 4,374,594 |
| 5 | 2026 | | | | | | | | | | | 25,646,012 | 21,272,333 | 4,373,679 |
| 6 | 2027 | | | | | | | | | | | 25,807,580 | 21,419,621 | 4,387,959 |
| 7 | 2028 | | | | | | | | | | | 25,995,620 | 21,589,737 | 4,405,883 |
| 8 | 2029 | | | | | | | | | | | 26,207,104 | 21,783,557 | 4,423,547 |
| 9 | 2030 | | | | | | | | | | | 26,512,732 | 22,025,831 | 4,486,901 |
| 10 | 2031 | | | | | | | | | | | 26,724,623 | 22,221,899 | 4,502,724 |

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

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

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

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

(b) Excludes interruptible load.

(c) Includes interruptible load.

(d) Winter load reference is to peak loads which follow the summer peak load. (note: 2020 winter peak is preliminary value)

(e) Includes historical DSM impacts.

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

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

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

(b) Excludes interruptible load.

(c) Includes interruptible load.

(d) Winter load reference is to peak loads which follow the summer peak load. Winter Peak for 2020 is a preliminary value

(e) Includes historical DSM impacts.

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

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

Duke Energy Ohio After DSM (e)

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

- (a) Electric transmission owner shall provide or cause to be provided data for the Ohio portion of its service area in this column.
- (b) Electric transmission owner operating across Ohio boundaries shall provide or cause to be provided data for the total service area in this column.
- (c) Electric transmission owner operating as a part of an integrated operating system shall provide for the total system in this column.
- (d) All data shown is a forecast. There is no actual data shown on this table.
- (e) Includes DSM impacts.

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

Internal

Duke Energy Ohio After DSM (e)

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

- (a) Electric transmission owner shall provide or cause to be provided data for the Ohio portion of its service area in this column.
- (b) Electric transmission owner operating across Ohio boundaries shall provide or cause to be provided data for the total service area in this column.
- (c) Electric transmission owner operating as a part of an integrated operating system shall provide data for the total system in this column.
- (d) All data shown is a forecast. There is no actual data shown on this table.
- (e) Includes DSM impacts.

Forms FE-T5 and FE-T6 - As of January 1, 2012 PJM took over functional control of the transmission system. Duke Energy Ohio no longer sells transmission or tracks the firmness thereof. Also, the allocation of Available Flowgate Capacity (AFC) became the sole responsibility of PJM. For these reasons, Duke Energy Ohio cannot guarantee the accuracy of the information on these forms. All the data presented on Forms FE-T5 and FE-T6 is for calendar year 2020.

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

PART A: SOURCES OF ENERGY

Reporting Month Jan-20

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

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|------------------|
| Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system | 1,605,846 | 0 | 1,605,846 |
| Energy Receipts from other sources | 1,820,952 | 0 | 1,820,952 |
| Total Energy Receipts | 3,426,798 | 0 | 3,426,798 |

PART B: DELIVERY OF ENERGY

Reporting Month Jan-20

1. Energy deliveries to all points connected to the Electric Transmission Owner's system (MWH)

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

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

Reporting Month

Jan-20

2. Energy deliveries to all points connected to the Electric Transmission Owner's system located in Ohio (MWH)

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|-----------|
| For Distribution service: | | | |
| Affiliated Electric Utility Companies | 1,713,653 | 0 | 1,713,653 |
| Other Investor-Owned Electric Utilities | | | |
| Cooperatively-Owned Electric System | | | 0 |
| Municipally-Owned Electric Systems | | | 0 |
| Federal and State Electric Agencies | | | |
| Other end user service | | | |
| For Non Distribution service (transmission to transmission service) | 1,094,164 | 0 | 1,094,164 |
| Total Energy Delivery | 1,094,164 | 0 | 2,807,817 |

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Jan-20

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

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

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

PART A: SOURCES OF ENERGY

Reporting Month

Feb-20

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

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|------------------|
| Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system | 1,596,157 | 0 | 1,596,157 |
| Energy Receipts from other sources | 1,661,172 | 0 | 1,661,172 |
| Total Energy Receipts | 3,257,329 | 0 | 3,257,329 |

PART B: DELIVERY OF ENERGY

Reporting Month

Feb-20

1. Energy deliveries to all points connected to the Electric Transmission Owner's system (MWH)

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

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

Reporting Month

Feb-20

2. Energy deliveries to all points connected to the Electric Transmission Owner's system located in Ohio (MWH)

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|-----------|
| For Distribution service: | | | |
| Affiliated Electric Utility Companies | 1,613,619 | 0 | 1,613,619 |
| Other Investor-Owned Electric Utilities | | | |
| Cooperatively-Owned Electric System | | | 0 |
| Municipally-Owned Electric Systems | | | 0 |
| Federal and State Electric Agencies | | | |
| Other end user service | | | |
| For Non Distribution service (transmission to transmission service) | 961,492 | 0 | 961,492 |
| Total Energy Delivery | 961,492 | 0 | 2,575,111 |

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Feb-20

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

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

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

PART A: SOURCES OF ENERGY

Reporting Month

Mar-20

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

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|------------------|
| Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system | 1,391,145 | 0 | 1,391,145 |
| Energy Receipts from other sources | 1,633,722 | 0 | 1,633,722 |
| Total Energy Receipts | 3,024,867 | 0 | 3,024,867 |

PART B: DELIVERY OF ENERGY

Reporting Month

Mar-20

1. Energy deliveries to all points connected to the Electric Transmission Owner's system (MWH)

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

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

Reporting Month

Mar-20

2. Energy deliveries to all points connected to the Electric Transmission Owner's system located in Ohio (MWH)

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|-----------|
| For Distribution service: | | | |
| Affiliated Electric Utility Companies | 1,566,813 | 0 | 1,566,813 |
| Other Investor-Owned Electric Utilities | | | |
| Cooperatively-Owned Electric System | | | 0 |
| Municipally-Owned Electric Systems | | | 0 |
| Federal and State Electric Agencies | | | |
| Other end user service | | | |
| For Non Distribution service (transmission to transmission service) | 1,012,079 | 0 | 1,012,079 |
| Total Energy Delivery | 1,012,079 | 0 | 2,578,892 |

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Mar-20

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

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

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

PART A: SOURCES OF ENERGY

Reporting Month

Apr-20

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

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|------------------|
| Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system | 776,035 | 0 | 776,035 |
| Energy Receipts from other sources | 1,748,424 | 0 | 1,748,424 |
| Total Energy Receipts | 2,524,459 | 0 | 2,524,459 |

PART B: DELIVERY OF ENERGY

Reporting Month

Apr-20

1. Energy deliveries to all points connected to the Electric Transmission Owner's system (MWH)

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

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

Reporting Month

Apr-20

2. Energy deliveries to all points connected to the Electric Transmission Owner's system located in Ohio (MWH)

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|-----------|
| For Distribution service: | | | |
| Affiliated Electric Utility Companies | 1,345,991 | 0 | 1,345,991 |
| Other Investor-Owned Electric Utilities | | | |
| Cooperatively-Owned Electric System | | | 0 |
| Municipally-Owned Electric Systems | | | 0 |
| Federal and State Electric Agencies | | | |
| Other end user service | | | |
| For Non Distribution service (transmission to transmission service) | 787,413 | 0 | 787,413 |
| Total Energy Delivery | 787,413 | 0 | 2,133,404 |

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Apr-20

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

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

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

PART A: SOURCES OF ENERGY

Reporting Month

May-20

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

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|------------------|
| Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system | 1,160,549 | 0 | 1,160,549 |
| Energy Receipts from other sources | 1,576,764 | 0 | 1,576,764 |
| Total Energy Receipts | 2,737,313 | 0 | 2,737,313 |

PART B: DELIVERY OF ENERGY

Reporting Month

May-20

1. Energy deliveries to all points connected to the Electric Transmission Owner's system (MWH)

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

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

Reporting Month

May-20

2. Energy deliveries to all points connected to the Electric Transmission Owner's system located in Ohio (MWH)

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|-----------|
| For Distribution service: | | | |
| Affiliated Electric Utility Companies | 1,309,999 | 0 | 1,309,999 |
| Other Investor-Owned Electric Utilities | | | |
| Cooperatively-Owned Electric System | | | 0 |
| Municipally-Owned Electric Systems | | | 0 |
| Federal and State Electric Agencies | | | |
| Other end user service | | | |
| For Non Distribution service (transmission to transmission service) | 853,353 | 0 | 853,353 |
| Total Energy Delivery | 853,353 | 0 | 2,163,352 |

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

May-20

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

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

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

PART A: SOURCES OF ENERGY

Reporting Month Jun-20

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

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|------------------|
| Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system | 1,722,677 | 0 | 1,722,677 |
| Energy Receipts from other sources | 1,645,450 | 0 | 1,645,450 |
| Total Energy Receipts | 3,368,126 | 0 | 3,368,126 |

PART B: DELIVERY OF ENERGY

Reporting Month Jun-20

1. Energy deliveries to all points connected to the Electric Transmission Owner's system (MWH)

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

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

Reporting Month

Jun-20

2. Energy deliveries to all points connected to the Electric Transmission Owner's system located in Ohio (MWH)

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|-----------|
| For Distribution service: | | | |
| Affiliated Electric Utility Companies | 1,573,382 | 0 | 1,573,382 |
| Other Investor-Owned Electric Utilities | | | |
| Cooperatively-Owned Electric System | | | 0 |
| Municipally-Owned Electric Systems | | | 0 |
| Federal and State Electric Agencies | | | |
| Other end user service | | | |
| For Non Distribution service (transmission to transmission service) | 1,066,959 | 0 | 1,066,959 |
| Total Energy Delivery | 1,066,959 | 0 | 2,640,341 |

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Jun-20

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

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

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

PART A: SOURCES OF ENERGY

Reporting Month Jul-20

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

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|------------------|
| Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system | 2,060,120 | 0 | 2,060,120 |
| Energy Receipts from other sources | 1,968,101 | 0 | 1,968,101 |
| Total Energy Receipts | 4,028,220 | 0 | 4,028,220 |

PART B: DELIVERY OF ENERGY

Reporting Month Jul-20

1. Energy deliveries to all points connected to the Electric Transmission Owner's system (MWH)

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

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

Reporting Month

Jul-20

2. Energy deliveries to all points connected to the Electric Transmission Owner's system located in Ohio (MWH)

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|-----------|
| For Distribution service: | | | |
| Affiliated Electric Utility Companies | 1,852,660 | 0 | 1,852,660 |
| Other Investor-Owned Electric Utilities | | | |
| Cooperatively-Owned Electric System | | | 0 |
| Municipally-Owned Electric Systems | | | 0 |
| Federal and State Electric Agencies | | | |
| Other end user service | | | |
| For Non Distribution service (transmission to transmission service) | 1,261,147 | 0 | 1,261,147 |
| Total Energy Delivery | 1,261,147 | 0 | 3,113,807 |

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Jul-20

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

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

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

PART A: SOURCES OF ENERGY

Reporting Month Aug-20

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

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|------------------|
| Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system | 2,082,813 | 0 | 2,082,813 |
| Energy Receipts from other sources | 1,679,462 | 0 | 1,679,462 |
| Total Energy Receipts | 3,762,275 | 0 | 3,762,275 |

PART B: DELIVERY OF ENERGY

Reporting Month Aug-20

1. Energy deliveries to all points connected to the Electric Transmission Owner's system (MWH)

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

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

Reporting Month

Aug-20

2. Energy deliveries to all points connected to the Electric Transmission Owner's system located in Ohio (MWH)

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|-----------|
| For Distribution service: | | | |
| Affiliated Electric Utility Companies | 1,860,443 | 0 | 1,860,443 |
| Other Investor-Owned Electric Utilities | | | |
| Cooperatively-Owned Electric System | | | 0 |
| Municipally-Owned Electric Systems | | | 0 |
| Federal and State Electric Agencies | | | |
| Other end user service | | | |
| For Non Distribution service (transmission to transmission service) | 1,245,746 | 0 | 1,245,746 |
| Total Energy Delivery | 1,245,746 | 0 | 3,106,189 |

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Aug-20

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

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

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

PART A: SOURCES OF ENERGY

Reporting Month Sep-20

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

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|------------------|
| Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system | 1,541,214 | 0 | 1,541,214 |
| Energy Receipts from other sources | 1,486,089 | 0 | 1,486,089 |
| Total Energy Receipts | 3,027,304 | 0 | 3,027,304 |

PART B: DELIVERY OF ENERGY

Reporting Month Sep-20

1. Energy deliveries to all points connected to the Electric Transmission Owner's system (MWH)

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

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

Reporting Month

Sep-20

2. Energy deliveries to all points connected to the Electric Transmission Owner's system located in Ohio (MWH)

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|------------------|
| For Distribution service: | | | |
| Affiliated Electric Utility Companies | 1,783,710 | 0 | 1,783,710 |
| Other Investor-Owned Electric Utilities | | | |
| Cooperatively-Owned Electric System | | | 0 |
| Municipally-Owned Electric Systems | | | 0 |
| Federal and State Electric Agencies | | | |
| Other end user service | | | |
| For Non Distribution service (transmission to transmission service) | 898,847 | 0 | 898,847 |
| Total Energy Delivery | 898,847 | 0 | 2,682,557 |

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Sep-20

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

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

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

PART A: SOURCES OF ENERGY

Reporting Month Oct-20

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

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|------------------|
| Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system | 1,518,742 | 0 | 1,518,742 |
| Energy Receipts from other sources | 1,256,489 | 0 | 1,256,489 |
| Total Energy Receipts | 2,775,231 | 0 | 2,775,231 |

PART B: DELIVERY OF ENERGY

Reporting Month Oct-20

1. Energy deliveries to all points connected to the Electric Transmission Owner's system (MWH)

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

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

Reporting Month

Oct-20

2. Energy deliveries to all points connected to the Electric Transmission Owner's system located in Ohio (MWH)

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|-----------|
| For Distribution service: | | | |
| Affiliated Electric Utility Companies | 1,437,389 | 0 | 1,437,389 |
| Other Investor-Owned Electric Utilities | | | |
| Cooperatively-Owned Electric System | | | 0 |
| Municipally-Owned Electric Systems | | | 0 |
| Federal and State Electric Agencies | | | |
| Other end user service | | | |
| For Non Distribution service (transmission to transmission service) | 861,486 | 0 | 861,486 |
| Total Energy Delivery | 861,486 | 0 | 2,298,875 |

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Oct-20

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

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

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

PART A: SOURCES OF ENERGY

Reporting Month Nov-20

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

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|------------------|
| Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system | 1,720,496 | 0 | 1,720,496 |
| Energy Receipts from other sources | 1,139,995 | 0 | 1,139,995 |
| Total Energy Receipts | 2,860,491 | 0 | 2,860,491 |

PART B: DELIVERY OF ENERGY

Reporting Month Nov-20

1. Energy deliveries to all points connected to the Electric Transmission Owner's system (MWH)

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

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

Reporting Month

Nov-20

2. Energy deliveries to all points connected to the Electric Transmission Owner's system located in Ohio (MWH)

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|-----------|
| For Distribution service: | | | |
| Affiliated Electric Utility Companies | 1,445,081 | 0 | 1,445,081 |
| Other Investor-Owned Electric Utilities | | | |
| Cooperatively-Owned Electric System | | | 0 |
| Municipally-Owned Electric Systems | | | 0 |
| Federal and State Electric Agencies | | | |
| Other end user service | | | |
| For Non Distribution service (transmission to transmission service) | 954,982 | 0 | 954,982 |
| Total Energy Delivery | 954,982 | 0 | 2,400,063 |

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Nov-20

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

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

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

PART A: SOURCES OF ENERGY

Reporting Month Dec-20

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

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|------------------|
| Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system | 1,811,891 | 0 | 1,811,891 |
| Energy Receipts from other sources | 1,501,277 | 0 | 1,501,277 |
| Total Energy Receipts | 3,313,168 | 0 | 3,313,168 |

PART B: DELIVERY OF ENERGY

Reporting Month Dec-20

1. Energy deliveries to all points connected to the Electric Transmission Owner's system (MWH)

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

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

Reporting Month

Dec-20

2. Energy deliveries to all points connected to the Electric Transmission Owner's system located in Ohio (MWH)

| | Firm Transmission Service | Non-Firm Transmission Service | Total |
|---|---------------------------|-------------------------------|-----------|
| For Distribution service: | | | |
| Affiliated Electric Utility Companies | 1,673,463 | 0 | 1,673,463 |
| Other Investor-Owned Electric Utilities | | | |
| Cooperatively-Owned Electric System | | | |
| Municipally-Owned Electric Systems | | | |
| Federal and State Electric Agencies | | | |
| Other end user service | | | |
| For Non Distribution service (transmission to transmission service) | 1,013,516 | 0 | 1,013,516 |
| Total Energy Delivery | 1,013,516 | 0 | 2,686,979 |

PART C: LOSSES AND UNACCOUNTED FOR (MWH)

REPORTING MONTH

Dec-20

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

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

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month JANUARY

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

Reporting Month FEBRUARY

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

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month MARCH

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

Reporting Month APRIL

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

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month **MAY**

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

Reporting Month **JUNE**

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

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month JULY

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

Reporting Month AUGUST

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

FORM FE-16: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month SEPTEMBER

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

Reporting Month OCTOBER

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

FORM FE-T6: CONDITIONS AT TIME OF MONTHLY PEAK

Reporting Month NOVEMBER

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

Reporting Month DECEMBER

| Megawatts | 3,122 | Day of Week | Friday | Day of Month | 25 | Hour of Peak | 21:00 |
|--|-------|-------------|--------|---------------------------------|-------------------------------------|--------------|--|
| | | | | Firm Transmission Service | Non-Firm Transmission Service | Total | |
| CURTAILMENT PRIORITY CLASSES | | | | | | | |
| Number of Requests | | | | 23 | 0 | 23 | |
| Requests (MW) | | | | 4,010 | 0 | 4,010 | |
| Number of requests accepted | | | | 1 | 0 | 1 | |
| Requests accepted (MW) | | | | 160 | 0 | 160 | |
| Requests not accepted (MW) and reason for not accepting delivery | | | | 3,850 | 0 | 3,850 | Reason for non-delivery Withdrawn/ Invalid/ Refused/ Declined/ Annulled/ Retracted |

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

WHOLLY OWNED TRANSMISSION LINES DESIGNED FOR 138 KV OPERATION

| CIRCUIT NO. DEO-A | LINE NAME | ORIGIN | TERMINUS | SUMMER MVA | | WINTER MVA | | VOLTAGE | | LENGTH (MILES) | WIDTH (FEET) | SUPPORTING STRUCTURES | NUMBER OF CIRCUITS | SUBSTATIONS ON THE LINE |
|-------------------|--------------------------|-------------------|--------------------|---------------|---------------|---------------|---------------|-------------|--------------|----------------|--------------|-----------------------------|--------------------|----------------------------------|
| | | | | NORMAL RATING | EMERG. RATING | NORMAL RATING | EMERG. RATING | OPER. LEVEL | DESIGN LEVEL | | | | | |
| 684 | Elmwood-Lateral | Elmwood | Lateral | | | | | | | | | | | |
| | Section 1 | | | 226 | 275 | 302 | 336 | 138 | 138 | 1.34 | 100 | Wood Pole | 1 | |
| | Section 2 | | | 226 | 275 | 302 | 336 | 138 | 138 | 2.37 | 100 | Steel Tower | 2 | |
| 689 | Elmwood-Terminal | Elmwood | Terminal | 261 | 318 | 349 | 389 | 138 | 138 | 1.40 | 100 | Wood Pole | 1 | |
| 885 | Oakley-Red Bank | Oakley | Red Bank | 282 | 343 | 377 | 421 | 138 | 138 | 1.09 | 100 | Steel Tower | 2 | |
| 886 | Oakley-Beckjord | Oakley | Beckjord | | | | | | | | | | | |
| | Section 1 | Oakley | Beckjord | 282 | 343 | 377 | 421 | 138 | 138 | 16.45 | 100 | Steel Tower | 2 | |
| | Section 2 | Tower No. 150 | Summerside | 301 | 301 | 378 | 378 | 138 | 138 | 1.98 | 50 | Steel Pole & Wood Pole | 1 | |
| 1180 | Ashland-Whittier | Ashland | Whittier | | | | | | | | | | | |
| | Section 1 | | | 230 | 280 | 308 | 343 | 138 | 138 | 0.18 | 100 | Steel Pole | 1 | |
| | Section 2 | | | 230 | 280 | 308 | 343 | 138 | 138 | 0.31 | 100 | Steel Tower | 2 | |
| | Section 3 | | | 230 | 280 | 308 | 343 | 138 | 138 | 0.48 | 50 | Steel Pole & Wood Pole | 1 | |
| 1263 | Mitchell-Brighton | Mitchell | Brighton | 92 | 111 | 123 | 136 | 69 | 138 | 4.2 | 100 | Steel Tower | 2 | |
| 1269 | Central-Ashland | Tower No. 38 | Tower No. 54 | 98 | 98 | 122 | 122 | 69 | 138 | 2.98 | 100 | Steel Tower | 2 | |
| 1284 | Mitchell-Terminal | Mitchell | Terminal | 234 | 284 | 312 | 343 | 138 | 138 | 3.61 | 100 | Steel Tower | 2 | Henkel Corp. |
| 1286 | Mitchell-South Fairmount | Mitchell | South Fairmount | 267 | 267 | 300 | 300 | 138 | 138 | 3.88 | 100 | Steel Tower | 2 | Cumminsville |
| 1288 | Mitchell-Central | Mitchell | Central | 230 | 280 | 308 | 343 | 138 | 138 | 2.3 | 100 | Steel Tower | 2 | |
| 1385 | Charles-West End | Charles | West End | 234 | 245 | 267 | 277 | 138 | 138 | 1.11 | 100 | Underground | 1 | |
| 1389 | Charles-West End | Charles | West End | 234 | 245 | 267 | 277 | 138 | 138 | 1.12 | 100 | Underground | 1 | |
| 1581 | South Fairmount-West End | South Fairmount | West End | 268 | 268 | 337 | 337 | 138 | 138 | 4.39 | 100 | Steel Tower | 2 | Metro Sewer Dist., Queensgate |
| 1587 | West End-Crescent | West End | Ohio/Ky. St. Line | 226 | 275 | 302 | 336 | 138 | 138 | 0.3 | 100 | Steel Tower | 1 | |
| 1681 | Miami Fort-Greendale | Miami Fort | Ohio/Ind. St. Line | 500 | 500 | 679 | 679 | 138 | 138 | 0.86 | 100 | Steel Tower & Wood Pole | 1 | |
| 1682 | Miami Fort-Clifty Creek | Miami Fort | Ohio/Ky. St. Line | 136 | 136 | 181 | 181 | 138 | 138 | 0.3 | 100 | Wood H-Frame | 1 | |
| 1683 | Miami Fort-Hebron | Ohio/Ky. St. Line | Miami Fort | 204 | 248 | 273 | 303 | 138 | 138 | 0.13 | 100 | Steel Tower | 2 | |
| 1688 | Miami Fort-MFGT | Miami Fort | Miami Fort GT | 226 | 275 | 302 | 336 | 138 | 138 | 0.34 | 100 | Wood Pole | 1 | |
| 1689 | Miami Fort-Morgan | Miami Fort | Morgan | 226 | 275 | 302 | 336 | 138 | 138 | 8.16 | 100 | Steel Tower | 2 | |
| 1762 | Allen-Terminal | Pole No.R17-673 | Terminal | | | | | | | | | | | |
| | Section 1 | | | 77 | 92 | 102 | 113 | 69 | 138 | 0.45 | 100 | Steel Tower | 1 | |
| | Section 2 | | | 77 | 92 | 102 | 113 | 69 | 138 | 1.2 | 100 | Wood Pole | 1 | |
| 1782 | Terminal-Glenview | Terminal | Glenview | | | | | | | | | | | |
| | Section 1 | | | 230 | 280 | 308 | 343 | 138 | 138 | 5.03 | 100 | Steel Tower | 2 | |
| | Section 2 | | | 230 | 280 | 308 | 343 | 138 | 138 | 0.6 | 100 | Wood H-Frame | 1 | |
| 1783 | Terminal-Ebenezer | Terminal | Ebenezer | | | | | | | | | | | |
| | Section 1 | | | 234 | 284 | 312 | 349 | 138 | 138 | 9.98 | 100 | Steel Tower | 2 | |
| | Section 2 | | | 234 | 284 | 312 | 349 | 138 | 138 | 3.64 | 100 | Wood Pole | 1 | |
| | Section 3 | | | 234 | 284 | 312 | 349 | 138 | 138 | 0.13 | 100 | Wood H-Frame | 1 | Midway |
| 1880 | Beckjord-Silver Grove | Beckjord | Ohio/Ky. St. Line | | | | | | | | | | | |
| | Section 1 | | | 253 | 308 | 339 | 377 | 138 | 138 | 1 | 100 | Wood Pole | 1 | |
| | Section 2 | | | 253 | 308 | 339 | 377 | 138 | 138 | 0.25 | 100 | Steel Tower | 2 | |
| 1881 | Beckjord-Wilder | Beckjord | Ohio/Ky. St. Line | 166 | 201 | 221 | 245 | 138 | 138 | 0.32 | 100 | Steel Tower | 2 | |
| 1885 | Beckjord-Tobasco | Beckjord | Tobasco | 282 | 343 | 377 | 421 | 138 | 138 | 5.84 | 100 | Steel Tower | 2 | |
| 1887 | Beckjord-Pierce | Beckjord | Pierce | 478 | 478 | 478 | 478 | 138 | 138 | 0.38 | 50 | Wood Pole & Steel Tower | 1 | |
| 1889 | Beckjord-Pierce | Beckjord | Pierce | 478 | 478 | 478 | 478 | 138 | 138 | 0.22 | 100 | Steel Tower | 1 | |
| 1985 | Dicks Creek-AK Steel | Dicks Creek | AK Steel | 273 | 287 | 299 | 299 | 138 | 138 | 1.61 | 100 | Steel Pole & Steel Tower | 2 | |
| 2166 | Brighton-Wilder | Brighton | Ohio/Ky. St. Line | 83 | 101 | 111 | 123 | 69 | 138 | 3.65 | 100 | Steel Tower | 2 | |
| 2381 | Warren-Clinton County | Warren | Clinton County | 170 | 206 | 227 | 252 | 138 | 138 | 16.32 | 100 | Wood H-Frame | 1 | |
| 2862 | Miami Fort GT-Hebron | Miami Fort GT | Ohio/Ky. St. Line | 83 | 101 | 111 | 123 | 69 | 138 | 0.14 | 100 | Steel Tower | 2 | |
| 2865 | Miami Fort GT-INEOS | Miami Fort GT | Tower No. 30 | 113 | 137 | 151 | 168 | 69 | 138 | 6.39 | 100 | Steel Tower | 2 | |
| 2986 | Cedarville-Ford | Cedarville | Ford | | | | | | | | | | | |
| | Section 1 | | | 253 | 308 | 339 | 378 | 138 | 138 | 5.02 | 100 | Wood Pole | 1 | |
| | Section 2 | | | 253 | 308 | 339 | 378 | 138 | 138 | 4.86 | 100 | Wood Pole | 1 | |

DUKE ENERGY OHIO
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 | | | | | |
| 3263 | Trenton-Air Products | Tower No.1 | Tower No. 17 | 83 | 101 | 111 | 123 | 69 | 138 | 2.77 | 100 | Steel Tower | 1 | |
| 3281 | Trenton-College Corner | Trenton | Ohio/Ind. St. Line | 153 | 184 | 203 | 225 | 138 | 138 | 24.11 | 100 | Steel Tower | 2 | Collinsville, BREC Huston |
| 3283 | N/A | Structure 696 | Structure 645A | 170 | 206 | 227 | 252 | 138 | 138 | 3.94 | 90 | Wood H-Frame | | |
| 3284 | Trenton-Todhunter | Trenton | Todhunter | 302 | 302 | 337 | 337 | 138 | 138 | 4.9 | 100 | Wood H-Frame | 1 | |
| 3881 | Port Union-Summerside | | | | | | | | | | | | | |
| | Section 1 | Port Union | Summerside | 198 | 198 | 249 | 249 | 138 | 138 | 22.74 | 100 | Steel Tower | 2 | Wards Corner |
| | Section 2 | Tower No. 141 | Cornell | 266 | 266 | 333 | 333 | 138 | 138 | 2.87 | 50 | Wood Pole | 1 | Cornell |
| 3885 | Port Union-Fairfield | Port Union | Fairfield | 310 | 310 | 310 | 310 | 138 | 138 | 6.59 | 100 | Steel Tower | 2 | Hall, Provident |
| 3886 | Port Union-Fairfield | Port Union | Fairfield | 198 | 198 | 249 | 249 | 138 | 138 | 6.75 | 100 | Steel Tower | 2 | Mulhauser |
| 3887 | Port Union-Todhunter | Port Union | Todhunter | 304 | 304 | 390 | 390 | 138 | 138 | 9.69 | 100 | Steel Tower | 2 | Millikin |
| 3888 | Port Union-Todhunter | Port Union | Todhunter | 304 | 304 | 390 | 390 | 138 | 138 | 9.69 | 100 | Steel Tower | 2 | Beckett |
| 3889 | Port Union-City of Hamilton | Port Union | City of Hamilton | 253 | 308 | 339 | 377 | 138 | 138 | 4.65 | 100 | Wood Pole | 1 | Seward |
| 3981 | Central-Oakley | Central | Oakley | 230 | 280 | 308 | 343 | 138 | 138 | 2.9 | 100 | Steel Tower | 2 | |
| 3985 | Central-Ashland | Central | Ashland | 230 | 280 | 308 | 343 | 138 | 138 | 3.43 | 100 | Steel Tower | 2 | |
| 4187 | Lateral-Red Bank | Lateral | Red Bank | 230 | 280 | 308 | 343 | 138 | 138 | 2.9 | 100 | Steel Tower | 2 | |
| 4861 | Ivorydale-Terminal | Tower No. 1 | Tower No. 5 | 83 | 101 | 111 | 123 | 69 | 138 | 0.9 | 100 | Steel Tower | 2 | |
| 5381 | Shaker Run-Rockies Express | Structure 69B | Rockies Express | 478 | 478 | 478 | 478 | 138 | 138 | 0.67 | 50 | Steel Pole | 1 | |
| 5483 | Foster-Port Union | | | | | | | | | | | | | |
| | Section 1 | Port Union | Montgomery | 226 | 275 | 302 | 336 | 138 | 138 | 9.19 | 100 | Steel Tower | 2 | Dimmick, Montgomery |
| | Section 2 | Foster | Tower No. 133 | 298 | 298 | 374 | 374 | 138 | 138 | 5.9 | 50 | Wood Pole | 1 | Simpson, Socialville, Twenty Mile |
| 5484 | Foster-Warren | Foster | Warren | 253 | 308 | 339 | 378 | 138 | 138 | 8.7 | 100 | Wood pole | 1 | Maineville, Columbia |
| 5487 | Foster-Remington | Foster | Remington | | | | | | | | | | | |
| | Section 1 | | | 253 | 308 | 339 | 378 | 138 | 138 | 13.4 | 100 | Steel Tower | 2 | Montgomery |
| | Section 2 | | | 170 | 206 | 227 | 252 | 138 | 138 | 4.45 | 100 | Wood Pole | 1 | Enyart |
| 5489 | Foster-Cedarville | Foster | Cedarville | 253 | 308 | 339 | 378 | 138 | 138 | 12.23 | 100 | Wood Pole | 1 | Obannonville |
| 5667 | Todhunter-Shaker Run | Todhunter | Structure 645A | 83 | 101 | 111 | 123 | 69 | 138 | 5.14 | 100 | Wood H-Frame | 1 | |
| 5680 | Todhunter-Warren | Todhunter | Warren | 301 | 301 | 378 | 378 | 138 | 138 | 9.55 | 90 | Steel H-Frame | 1 | Nickel |
| 5682 | Todhunter-Dicks Creek | Todhunter | Dicks Creek | 302 | 302 | 337 | 337 | 138 | 138 | 1.00 | 100 | Steel Pole & Steel Tower | 2 | |
| 5686 | Todhunter-AK Steel | Todhunter | AK Steel | 273 | 287 | 299 | 299 | 138 | 138 | 2.34 | 100 | Steel Tower | 2 | |
| 5689 | Todhunter-Garver | Pole 75-02 | Garver | 603 | 603 | 757 | 757 | 138 | 138 | 0.17 | 50 | Steel Pole | 1 | |
| 5781 | Fairfield-City of Hamilton | Fairfield | City of Hamilton | 253 | 308 | 339 | 378 | 138 | 138 | 6.05 | 100 | Wood Pole | 1 | |
| 5783 | Fairfield-Morgan | Fairfield | Morgan | 166 | 201 | 221 | 245 | 138 | 138 | 16.5 | 100 | Steel Tower | 2 | |
| 5884 | Brown-Eastwood | Brown | Eastwood | 253 | 308 | 339 | 378 | 138 | 138 | 13 | 100 | Wood H-Frame | 1 | |
| 5886 | Brown-Stuart | Brown | Stuart | 234 | 285 | 213 | 349 | 138 | 138 | 21.16 | 100 | Wood H-Frame | 1 | |
| 5985 | Wilder-West End | Ohio/Ky. St. Line | West End | 253 | 287 | 339 | 351 | 138 | 138 | 0.2 | 100 | Steel Tower | 2 | |
| 5988 | Wilder-Beckjord | Ohio/Ky. St. Line | Beckjord | 226 | 275 | 302 | 336 | 138 | 138 | 0.37 | 100 | Steel Tower | 2 | |
| 6365 | Tobasco-Markley | Pole No. 601 | Markley | 83 | 101 | 111 | 122 | 69 | 138 | 1.7 | 100 | Wood Pole | 1 | |
| 6864 | Miami Fort GT-Ebenezer | Miami Fort GT | Tower No. 30 | 83 | 101 | 111 | 123 | 69 | 138 | 6.39 | 100 | Steel Tower | 2 | |
| 6885 | Ebenezer-Miami Fort | Ebenezer | Miami Fort | | | | | | | | | | | |
| | Section 1 | | | 228 | 280 | 313 | 350 | 138 | 138 | 10.26 | 100 | Steel Tower | 2 | |
| | Section 2 | | | 226 | 275 | 302 | 336 | 138 | 138 | 4.92 | 100 | Wood Pole | 1 | |
| 6984 | Summerside-Beckjord | Summerside | Beckjord | 310 | 310 | 310 | 310 | 138 | 138 | 10.44 | 100 | Steel Tower | 2 | Clermont |
| 7284 | Glenview-Miami Fort | Glenview | Miami Fort | | | | | | | | | | | |
| | Section 1 | | | 230 | 248 | 308 | 342 | 138 | 138 | 0.6 | 100 | Wood H-Frame | 1 | |
| | Section 2 | | | 230 | 280 | 308 | 342 | 138 | 138 | 15.07 | 100 | Steel Tower | 2 | Kleeman |
| | Section 3 | | | 185 | 224 | 246 | 273 | 138 | 138 | 0.12 | 100 | Wood H-Frame | 1 | Midway |

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 | |
| | Section 3 | | | 240 | 300 | 240 | 300 | 138 | 138 | 4.24 | 100 | Underground | 1 | |
| 7489 | Red Bank-Tobasco | Red Bank | Tobasco | | | | | | | | | | | |
| | Section 1 | | | 282 | 344 | 378 | 421 | 138 | 138 | 9.64 | 100 | Steel Tower | 2 | |
| | Section 2 | | | 282 | 344 | 378 | 421 | 138 | 138 | 0.07 | 100 | Wood Pole | 1 | |
| 7581 | Garver-Rockies Express | | | | | | | | | | | | | |
| | Section 1 | Garver | Pole 75-01 | 603 | 603 | 757 | 757 | 138 | 138 | 0.2 | 100 | Steel Pole | 1 | |
| | Section 2 | Structure 69B | Rockies Express | 478 | 478 | 478 | 478 | 138 | 138 | 0.63 | 50 | Steel Pole | 1 | |
| 7582 | Garver-Carlisle | | | | | | | | | | | | | |
| | Section 1 | Garver | Carlisle | 298 | 298 | 374 | 374 | 138 | 138 | 9.9 | 50 | Wood & Steel Pole | 1 | Union |
| | Section 2 | Pole 221 | Rockies Express | 301 | 301 | 378 | 378 | 138 | 138 | 1.46 | 50 | Wood Pole | 1 | Rockies Express |
| 7583 | Garver-AK Steel Sta. 606 | Garver | AK Steel Sta. 606 | 291 | 291 | 359 | 359 | 138 | 138 | 1.17 | 100 | Steel Pole | 1 | |
| 8281 | Rochelle-Whittier | Rochelle | Whittier | 289 | 289 | 289 | 289 | 138 | 138 | 1.2 | 50 | Underground | 1 | |
| 8283 | Rochelle-Charles | Rochelle | Charles | 269 | 282 | 307 | 318 | 138 | 138 | 2.38 | 100 | Underground | 1 | |
| 8286 | Rochelle-Terminal | Rochelle | Terminal | | | | | | | | | | | |
| | Section 1 | | | 234 | 287 | 307 | 318 | 138 | 138 | 3.56 | 100 | Steel Tower | 2 | |
| | Section 2 | | | 234 | 287 | 307 | 318 | 138 | 138 | 1.25 | 100 | Wood Pole | 1 | |
| | Section 3 | | | 234 | 282 | 307 | 318 | 138 | 138 | 1.32 | 100 | Underground | 1 | |
| 8368 | Yankee-Manchester | Tower No. 17 | Tower No. 20 | 113 | 137 | 151 | 168 | 69 | 138 | 0.55 | 100 | Steel Tower | 1 | |
| 8481 | Eastwood-Ford | Eastwood | Ford | | | | | | | | | | | |
| | Section 1 | | | 253 | 308 | 339 | 378 | 138 | 138 | 4.97 | 100 | Wood Pole | 1 | |
| | Section 2 | | | 253 | 308 | 339 | 378 | 138 | 138 | 1.5 | 100 | Wood Pole | 1 | |
| 8881 | Hillcrest-Innergex | Hillcrest | Innergex Solar switch no. 89-T | 286 | 286 | 286 | 286 | 138 | 138 | 0.02 | 100 | Steel pole | 1 | |
| 8887 | Hillcrest-Eastwood | Hillcrest | Eastwood | 306 | 306 | 382 | 382 | 138 | 138 | 9.63 | 50 | Wood pole | 1 | SCP Eastwood |
| 9482 | Remington-Beckjord | Remington | Beckjord | 310 | 310 | 310 | 310 | 138 | 138 | 19.08 | 100 | Steel Tower | 2 | Feldman |
| 9782 | Willey-Fairfield | Willey | Fairfield | 198 | 198 | 249 | 249 | 138 | 138 | 8.1 | 100 | Steel Tower | 2 | |
| 9784 | Willey-Miami Fort | Willey | Miami Fort | 170 | 206 | 227 | 252 | 138 | 138 | 14.95 | 100 | Steel Tower | 2 | |
| 9787 | Willey-Terminal | Willey | Terminal | | | | | | | | | | | |
| | Section 1 | | | 226 | 275 | 302 | 336 | 138 | 138 | 5.68 | 100 | Wood H-Frame | 1 | Mapleknoll |
| | Section 2 | | | 226 | 275 | 302 | 336 | 138 | 138 | 11.71 | 100 | Wood Pole | 1 | Mt. Healthy, Finneytown |
| | Section 3 | | | 226 | 275 | 302 | 336 | 138 | 138 | 0.5 | 100 | Steel Tower | 2 | |
| 13803 | Hutchings-College Corner | | | | | | | | | | | | | |
| | Section 1 | Structure 1101 | Trenton | 170 | 206 | 227 | 252 | 138 | 138 | 4.91 | 100 | Wood H-Frame | 1 | |
| | Section 2 | Trenton | Tower 129 | 170 | 206 | 227 | 252 | 138 | 138 | 24.06 | 100 | Steel Tower | 2 | |

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

WHOLLY OWNED TRANSMISSION LINES DESIGNED FOR 345 KV OPERATION

| CIRCUIT NO. DEO-B | LINE NAME | ORIGIN | TERMINUS | SUMMER MVA | | WINTER MVA | | VOLTAGE | | LENGTH (MILES) | WIDTH (FEET) | SUPPORTING STRUCTURES | NUMBER OF CIRCUITS | SUBSTATIONS ON THE LINE |
|-------------------|----------------------------|-------------------|-------------------|---------------|---------------|---------------|---------------|-------------|--------------|----------------|--------------|-----------------------|--------------------|-------------------------|
| | | | | NORMAL RATING | EMERG. RATING | NORMAL RATING | EMERG. RATING | OPER. LEVEL | DESIGN LEVEL | | | | | |
| 02 | Pierce-Foster | Pierce | Foster | | | | | | | | | | | |
| | Section 1 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 23.38 | 150 | Steel Tower | 2 | |
| | Section 2 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 0.57 | 150 | Steel Tower | 1 | |
| 04 | Miami Fort-Tanners Creek | Miami Fort | Ohio/Ky. St. Line | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 0.32 | 150 | Steel Tower | 2 | |
| 08 | Port Union-Foster | Port Union | Foster | | | | | | | | | | | |
| | Section 1 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 11.66 | 150 | Steel Tower | 2 | |
| | Section 2 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 0.24 | 150 | Steel Tower | 1 | |
| 11 | Stuart-Hillcrest | Stuart | Hillcrest | 1255 | 1374 | 1255 | 1374 | 345 | 345 | 32.61 | 150 | Steel Tower | 1 | |
| 13 | Terminal-Port Union | Terminal | Port Union | | | | | | | | | | | |
| | Section 1 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 0.46 | 150 | Steel Tower | 1 | |
| | Section 2 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 9.65 | 150 | Steel Tower | 2 | |
| 14 | Miami Fort-Terminal | | | | | | | | | | | | | |
| | Section 1 | Terminal | Ohio/Ky. St. Line | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 14.3 | 150 | Steel Tower | 2 | |
| | Section 2 | Miami Fort | Ohio/Ky. St. Line | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 0.32 | 150 | Steel Tower | 2 | |
| 15 | Foster-Garver | Foster | Garver | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 15.79 | 150 | Steel Tower | 2 | |
| 16 | East Bend-Terminal | Ohio/Ky. St. Line | Terminal | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 14.84 | 150 | Steel Tower | 2 | |
| 24 | Foster-Sugarcreek | Foster | Tower 1021A | 1257 | 1554 | 1745 | 1947 | 345 | 345 | 3.2 | 150 | Steel Tower | 2 | |
| 41 | Spurlock-Meldahl Dam | Tower #36 | Meldahl Dam | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 21.78 | 150 | Steel Tower | 1 | |
| 44 | Zimmer-Port Union | Zimmer | Port Union | | | | | | | | | | | |
| | Section 1 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 35.88 | 150 | Steel Tower | 2 | |
| | Section 2 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 10.03 | 150 | Steel Tower | 1 | |
| 45 | Zimmer-Red Bank | | | | | | | | | | | | | |
| | Section 1 | Zimmer | Ohio/Ky. St. Line | 1264 | 1538 | 1264 | 1538 | 345 | 345 | 0.43 | 150 | Steel Tower | 1 | |
| | Section 2 | Red Bank | Tower No. 24 | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 10.58 | 150 | Steel Tower | 2 | |
| 46 | Red Bank-Terminal | Red Bank | Terminal | | | | | | | | | | | |
| | Section 1 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 5.75 | 150 | Steel Pole | 2 | |
| | Section 2 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 0.9 | 150 | Steel Tower | 2 | |
| 61 | Woodsdale-Todhunter | Woodsdale | Todhunter | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 4.68 | 150 | Steel Tower | 2 | |
| 62 | Woodsdale-Todhunter | Woodsdale | Todhunter | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 4.68 | 150 | Steel Tower | 2 | |
| 69 | Hillcrest-Foster | Hillcrest | Foster | 1551 | 1551 | 1793 | 1793 | 345 | 345 | 26.36 | 150 | Steel Tower | 1 | |
| 76 | Zimmer-Meldahl Dam | Zimmer | Meldahl Dam | | | | | | | | | | | |
| | Section 1 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 6.57 | 150 | Steel Tower | 1 | |
| | Section 2 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 0.78 | 150 | Steel Tower | 2 | |
| 82 | Garver-Todhunter | Garver | Todhunter | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 1.79 | 150 | Steel Tower | 2 | |
| 91 | Miami Fort-West Milton | Miami Fort | Tower No. 173 | | | | | | | | | | | |
| | Section 1 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 33.25 | 150 | Steel Tower | 2 | |
| | Section 2 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 1.37 | 150 | Steel Tower | 1 | |
| 92 | Miami Fort-Woodsdale | Miami Fort | Woodsdale | | | | | | | | | | | |
| | Section 1 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 33.25 | 150 | Steel Tower | 2 | |
| | Section 2 | | | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 4.82 | 150 | Steel Tower | 1 | |
| 98 | Foster-Bath | Foster | Tower 1021 | 1195 | 1315 | 1195 | 1315 | 345 | 345 | 3.2 | 150 | Steel Tower | 2 | |
| 1883 | Beckjord-Red Bank | Beckjord | Red Bank | | | | | | | | | | | |
| | Section 1 | | | 282 | 344 | 378 | 421 | 138 | 345 | 0.89 | 150 | Steel Tower | 1 | |
| | Section 2 | | | 282 | 344 | 378 | 421 | 138 | 345 | 13.82 | 150 | Steel Tower | 2 | Newtown |
| 4683 | Evendale-Port Union | Evendale | Port Union | | | | | | | | | | | |
| | Section 1 | | | 344 | 423 | 463 | 518 | 138 | 345 | 0.52 | 150 | Steel Tower | 1 | |
| | Section 2 | | | 344 | 423 | 463 | 518 | 138 | 345 | 5.48 | 150 | Steel Tower | 2 | Kemper |
| 4685 | Evendale-Terminal | Evendale | Terminal | | | | | | | | | | | |
| | Section 1 | | | 382 | 382 | 382 | 382 | 138 | 345 | 0.21 | 150 | Steel Tower | 1 | |
| | Section 2 | | | 382 | 382 | 382 | 382 | 138 | 345 | 4.02 | 150 | Steel Tower | 2 | |
| 5381 | Shaker Run-Rockies Express | Structure 69A | Rockies Express | 478 | 478 | 478 | 478 | 138 | 345 | 2.62 | 150 | Steel Tower | 2 | |
| 5485 | Foster-Shaker Run | Foster | Shaker Run | 259 | 314 | 345 | 385 | 138 | 345 | 10.29 | 150 | Steel Tower | 2 | Park, Bethany |
| 5689 | Todhunter-Garver | Todhunter | Pole 75-02 | 478 | 478 | 478 | 478 | 138 | 345 | 1.75 | 150 | Steel Tower | 2 | |
| 7481 | Red Bank-Terminal | Red Bank | Terminal | 344 | 423 | 463 | 518 | 138 | 345 | 5.72 | 150 | Steel Twr. & Pole | 2 | Golf Manor |
| 7581 | Garver-Rockies Express | Pole 75-01 | Structure 69B | 478 | 478 | 478 | 478 | 138 | 345 | 0.93 | 150 | Steel Tower | 2 | |

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

| SUBSTATION NAME | TYPE* | VOLTAGE(S) (KV) | LINE NAME | LINE NUMBER | EXISTING OR PROPOSED | | | |
|------------------|-------|-----------------|-----------------------------|-------------|----------------------|------------------------|------|----------|
| AK Steel | T | 138 | Todhunter-AK Steel | 5686 | Existing | | | |
| | | | Garver-AK Steel | 7583 | Existing | | | |
| | | | Dicks Creek-AK Steel | 1985 | Existing | | | |
| Ashland | T&D | 138 | Ashland-Whittier | 1180 | Existing | | | |
| | | | Central-Ashland | 3985 | Existing | | | |
| | | | Red Bank-Ashland | 7484 | Existing | | | |
| | | | Port Union-Todhunter | 3888 | Existing | | | |
| Beckett | D | 138 | | | | | | |
| Beckjord | T | 345 & 138 | Oakley-Beckjord | 886 | Existing | | | |
| | | | Beckjord-Silver Grove | 1880 | Existing | | | |
| | | | Beckjord-Red Bank | 1883 | Existing | | | |
| | | | Beckjord-Tobasco | 1885 | Existing | | | |
| | | | Beckjord-Pierce | 1887 | Existing | | | |
| | | | Beckjord-Pierce | 1889 | Existing | | | |
| | | | Remington-Beckjord | 9482 | Existing | | | |
| | | | Beckjord-Wilder | 1881 | Existing | | | |
| | | | Wilder-Beckjord | 5988 | Existing | | | |
| | | | Summerside-Beckjord | 6984 | Existing | | | |
| | | | Bethany | D | 138 | Foster-Shaker Run | 5485 | Existing |
| | | | BREC Huston | T | 138 | Trenton-College Corner | 3281 | Existing |
| Brighton | D | 69 | Mitchell-Brighton | 1263 | Existing | | | |
| Brown | D | 138 | Brown-Stuart | 5886 | Existing | | | |
| | | | Brown-Eastwood | 5884 | Existing | | | |
| Carlisle | D | 138 | Garver-Carlisle | 7582 | Existing | | | |
| Cedarville | D | 138 | Foster-Cedarville | 5489 | Existing | | | |
| | | | Cedarville-Ford-Batavia | 2986 | Existing | | | |
| | | | Mitchell-Central | 1288 | Existing | | | |
| Central | D | 138 | Central-Oakley | 3981 | Existing | | | |
| | | | Central-Ashland | 3985 | Existing | | | |
| | | | Charles-West End | 1385 | Existing | | | |
| Charles | D | 138 | Charles-West End | 1389 | Existing | | | |
| | | | Rochelle-Charles | 8283 | Existing | | | |
| | | | West End -South Fairmount | 1581 | Existing | | | |
| Cinti. M.S.D. | T | 138 | | | | | | |
| City of Hamilton | T | 138 | Port Union-City of Ham. | 3889 | Existing | | | |
| | | | Fairfield-City of Hamilton | 5781 | Existing | | | |
| | | | Summerside-Beckjord | 6984 | Existing | | | |
| Clermont | D | 138 | | | | | | |
| 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 | | | |
| Cumminsville | D | 138 | Mitchell-South Fairmount | 1286 | Existing | | | |
| Deer Park | D | 138 | Red Bank-Terminal | 7481 | Existing | | | |
| Dicks Creek | T | 138 | Todhunter-Dicks Creek | 5682 | Existing | | | |
| | | | Dicks Creek-AK Steel | 1985 | Existing | | | |
| Dimmick | D | 138 | Foster-Port Union | 5483 | Existing | | | |

* DISTRIBUTION(D) TRANSMISSION (T)

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

| SUBSTATION NAME | TYPE* | VOLTAGE(S) (KV) | LINE NAME | LINE NUMBER | EXISTING OR PROPOSED | | | |
|------------------|-------|--------------------|----------------------------|-------------|----------------------|------------------------|-------|----------|
| Eastwood | D | 138 | Brown-Eastwood | 5884 | Existing | | | |
| | | | Eastwood-Ford | 8481 | Existing | | | |
| | | | Hillcrest-Eastwood | 8887 | Existing | | | |
| Ebenezer | D | 138 | Terminal-Ebenezer | 1783 | Existing | | | |
| | | | Ebenezer-Miami Fort | 6885 | Existing | | | |
| Elmwood | D | 138 | Elmwood-Lateral | 684 | Existing | | | |
| | | | Elmwood-Terminal | 689 | Existing | | | |
| Enyart | D | 138 | Foster-Remington | 5487 | Existing | | | |
| Evendale | D | 138 | Evendale-Port Union | 4683 | Existing | | | |
| | | | Evendale-Terminal | 4685 | Existing | | | |
| Fairfield | D | 138 | Fairfield-Morgan | 5783 | Existing | | | |
| | | | Port Union-Fairfield | 3885 | Existing | | | |
| | | | Fairfield-City of Hamilton | 5781 | Existing | | | |
| | | | Port Union-Fairfield | 3886 | Existing | | | |
| | | | Willey-Fairfield | 9782 | Existing | | | |
| Feldman | D | 138 | Remington-Beckjord | 9482 | Existing | | | |
| Finneytown | D | 138 | Willey-Terminal | 9787 | Existing | | | |
| Ford-Batavia | D | 138 | Cedarville-Ford-Batavia | 2986 | Existing | | | |
| | | | Brown-Ford-Batavia | 5884 | Existing | | | |
| Foster | T | 345 & 138 | Foster-Port Union | 5483 | Existing | | | |
| | | | Foster-Warren | 5484 | Existing | | | |
| | | | Foster-Shaker Run | 5485 | Existing | | | |
| | | | Foster-Remington | 5487 | Existing | | | |
| | | | Foster-Cedarville | 5489 | Existing | | | |
| | | | Pierce-Foster | 4502 | Existing | | | |
| | | | Hillcrest-Foster | 34569 | Existing | | | |
| | | | Port Union-Foster | 4508 | Existing | | | |
| | | | Foster-Sugarcreek | 4524 | Existing | | | |
| | | | Foster-Garver | 4515 | Existing | | | |
| | | | Garver | T | 345 & 138 | Foster-Garver | 4515 | Existing |
| | | | | | | Todhunter-Garver | 34582 | Existing |
| | | | | | | Garver-Rockies Express | 7581 | Existing |
| Garver-Todhunter | 5689 | Existing | | | | | | |
| Garver-Carlisle | 7582 | Existing | | | | | | |
| Glenview | D | 138 | Garver-AK Steel | 7583 | Existing | | | |
| | | | Terminal-Glenview | 1782 | Existing | | | |
| | | | Miami Fort-Glenview | 7284 | Existing | | | |
| Golf Manor | D | 138 | Red Bank-Terminal | 7481 | Existing | | | |
| Hall | D | 138 | Port Union-Fairfield | 3885 | Existing | | | |
| Henkel Corp. | D | 138 | Mitchell-Terminal | 1284 | Existing | | | |
| Hillcrest | T & D | 345 & 138 | Stuart-Hillcrest | 4511 | Existing | | | |
| | | | Foster-Hillcrest | 34569 | Existing | | | |
| | | | Hillcrest-Innergex | 8881 | Existing | | | |
| | | | Hillcrest-Eastwood | 8887 | Existing | | | |
| | | | Evendale-Port Union | 4683 | Existing | | | |
| Kemper | D | 138 | Evendale-Port Union | 4683 | Existing | | | |
| Kleeman | D | 138 | Glenview-Miami Fort | 7284 | Existing | | | |
| Lateral | D | 138 | Elmwood-Lateral | 684 | Existing | | | |
| | | | Lateral-Red Bank | 4187 | Existing | | | |

* DISTRIBUTION(D) TRANSMISSION (T)

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

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

* DISTRIBUTION(D) TRANSMISSION (T)

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

| SUBSTATION NAME | TYPE* | VOLTAGE(S) (KV) | LINE NAME | LINE NUMBER | EXISTING OR PROPOSED | | | |
|-----------------|-------|-----------------|-----------------------------|-------------|----------------------|---------------------------|------|----------|
| Port Union | T & D | 345 & 138 | Port Union-Summerside | 3881 | Existing | | | |
| | | | Foster-Port Union | 5483 | Existing | | | |
| | | | Port Union-Fairfield | 3885 | Existing | | | |
| | | | Port Union-Fairfield | 3886 | Existing | | | |
| | | | Port Union-Todhunter | 3887 | Existing | | | |
| | | | Port Union-Todhunter | 3888 | Existing | | | |
| | | | Port Union-City of Hamilton | 3889 | Existing | | | |
| | | | Evendale-Port Union | 4683 | Existing | | | |
| | | | Zimmer-Port Union | 4544 | Existing | | | |
| | | | Port Union-Foster | 4508 | Existing | | | |
| | | | Terminal-Port Union | 4513 | Existing | | | |
| | | | Provident | D | 138 | Port Union-Fairfield | 3885 | Existing |
| | | | Queensgate | D | 138 | 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 | 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 | 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)

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 | D | 138 | Trenton-College Corner | 3281 | Existing |
| | | | | | | Trenton-Todhunter | 3284 | Existing |
| | | | | | | Trenton-Hutchings | 13803 | Existing |
| Trenton-College Corner | 13803 | Existing | | | | | | |
| Trenton-Air Products | 3263 | Existing | | | | | | |
| Twenty Mile Union | D | 138 | Foster-Port Union | 5483 | Existing | | | |
| | 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 | D | 138 | West End -South Fairmount | 1581 | Existing |
| West End | D | 138 | Charles-West End | 1385 | Existing | | | |
| | | | Charles-West End | 1389 | Existing | | | |
| | | | Crescent-West End | 1587 | Existing | | | |
| | | | Wilder-West End | 5985 | Existing | | | |
| | | | South Fairmount-West End | 1581 | Existing | | | |
| | | | Whittier | D | 138 | Ashland-Whittier | 1180 | Existing |
| | | | Willey | D | 138 | Rochelle-Whittier | 8281 | Existing |
| Willey-Fairfield | 9782 | Existing | | | | | | |
| Woodsdale | T | 345 | Willey-Miami Fort | 9784 | Existing | | | |
| | | | Willey-Terminal | 9787 | Existing | | | |
| | | | Woodsdale-Todhunter | 4561 | Existing | | | |
| | | | Woodsdale-Todhunter | 4562 | Existing | | | |
| Zimmer | T | 345 | Miami Fort-Woodsdale | 4592 | Existing | | | |
| | | | Zimmer-Meldahl Dam | 34576 | Existing | | | |
| | | | Zimmer-Port Union | 4544 | Existing | | | |
| | | | Zimmer-Red Bank | 4545 | Existing | | | |

* DISTRIBUTION(D) TRANSMISSION (T)

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

1. Line Name: Foster-Warren
Line Number: DEO-A5484
2. Point of Origin: Tap Feeder 5484 (Foster side)
Terminus: Columbia Substation (proposed)
3. Right-of-Way, Length: approximately 1,820 feet
Average Width: 50 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 11/6/2018
6. Construction to Commence: 12/2018
Commercial Operation: 3/2022
7. Capital Investment: \$1,300,000
8. Substations: Columbia Substation, 138 kV
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Supply new substation to provide 12.47 kV reliability, distribution system capacity.
12. Consequences of Line Construction deferment or Termination: Inability to supply 12.47 kV distribution load.
13. Miscellaneous: Area to be served is primarily west-central Warren County.
PJM Project No.: s0451

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

1. Line Name: Miami Fort-Clifty Creek
Line Number: DEO-A1682
2. Point of Origin: Miami Fort Substation
Terminus: Ohio/Kentucky State Line
3. Right-of-Way, Length: approximately 1,800 feet
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2023
6. Construction to Commence: 3/2024
Commercial Operation: 12/2025
7. Capital Investment: \$4,850,000
8. Substations: None
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Permanent re-route of existing line to replace deteriorated structures adjacent to coal ash pond.
12. Consequences of Line Construction deferment or Termination: Deteriorated structures will remain in service.
13. Miscellaneous: Area to be served is primarily south-west Hamilton County.
PJM Project No.: conceptual

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

1. Line Name: Miami Fort-Tanners Creek
Line Number: DEO-B4504
2. Point of Origin: Miami Fort Substation
Terminus: Ohio/Kentucky State Line
3. Right-of-Way, Length: 2,714 feet in Ohio, total length of line is 3.8 miles
Average Width: 150 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 345 kV design and operate voltage
5. Application for Certificate: 1/2021
6. Construction to 3/2021
Commence:
Commercial Operation: 5/2021
7. Capital Investment: \$21,700,000 (entire project, majority outside State of Ohio)
8. Substations: None
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Increase capacity of the existing Miami Fort to Tanners Creek 345 kV Feeder DEO-B4504.
12. Consequences of Line Construction deferment or Termination: Overload of existing conductor during various outage conditions.
13. Miscellaneous: Area served is primarily southeast Ohio.
PJM Project No.: b2831.2

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

1. Line Name: Fairfield-Morgan
Line Number: DEO-A5783
2. Point of Origin: Tap Feeder 5783
Terminus: Morgan Substation
3. Right-of-Way, Length: approximately 1.0 mile
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 1/2021
6. Construction to Commence: 2/2021
Commercial Operation: 12/2021
7. Capital Investment: \$7,750,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Re-route line DEO-A5783 out of Morgan Substation to eliminate common structures with line DEO-A1689.
12. Consequences of Line Construction deferment or Termination: Possible loss of both circuits to Morgan Substation for tower contingencies.
13. Miscellaneous: Area to be served is primarily western Hamilton County.
PJM Project No.: s1236

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

1. Line Name: Willey-Miami Fort
Line Number: DEO-A9784
2. Point of Origin: Structure 123H-X2-39
Terminus: N/A
3. Right-of-Way, Length: N/A
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 1/2021
6. Construction to Commence: 2/2021
Commercial Operation: 12/2021
7. Capital Investment: N/A (all costs included on DEO-A5783 project)
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Required for re-route line DEO-A5783 out of Morgan Substation to eliminate common structures with line DEO-A1689.
12. Consequences of Line Construction deferment or Termination: Possible loss of both circuits to Morgan Substation for tower contingencies.
13. Miscellaneous: Area to be served is primarily western Hamilton County.
PJM Project No.: s1236

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

1. Line Name: Port Union-Summerside
Line Number: DEO-A3881
2. Point of Origin: Tap Feeder 3881 (Port Union side)
Terminus: Montgomery Substation
3. Right-of-Way, Length: approximately 200 feet
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2027
6. Construction to 1/2028
Commence:
Commercial Operation: 6/2028
7. Capital Investment: \$100,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other DEO – 100%
Utilities:
11. Purpose of the planned Loop DEO-A3881 through Montgomery Substation
transmission line: to eliminate overload and/or low voltage conditions
for various contingencies
12. Consequences of Line overload and/or low voltage conditions continue to
Construction deferment or result for various contingencies.
Termination:
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: Port Union-Summerside
Line Number: DEO-A3881
2. Point of Origin: Tap Feeder 3881 (Summerside side)
Terminus: Montgomery Substation
3. Right-of-Way, Length: approximately 200 feet
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2027
6. Construction to 1/2028
Commence:
Commercial Operation: 6/2028
7. Capital Investment: \$100,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other DEO – 100%
Utilities:
11. Purpose of the planned Loop DEO-A3881 through Montgomery Substation
transmission line: to eliminate overload and/or low voltage conditions
for various contingencies
12. Consequences of Line overload and/or low voltage conditions continue to
Construction deferment or result for various contingencies.
Termination:
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: Foster-Remington
Line Number: DEO-A5487
2. Point of Origin: Tap Feeder 5487 (Foster side)
Terminus: Montgomery Substation
3. Right-of-Way, Length: approximately 200 feet
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2027
6. Construction to 1/2028
Commence:
Commercial Operation: 6/2028
7. Capital Investment: \$240,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other DEO – 100%
Utilities:
11. Purpose of the planned Reconfigure DEO-A5487 through Montgomery
transmission line: Substation to eliminate overload and/or low voltage
conditions
for various contingencies.
12. Consequences of Line overload and/or low voltage conditions continue to
Construction deferment or result for various contingencies.
Termination:
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: Foster-Remington
Line Number: DEO-A5487
2. Point of Origin: Tap Feeder 5487 (Remington side)
Terminus: Montgomery Substation
3. Right-of-Way, Length: approximately 200 feet
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2027
6. Construction to 1/2028
Commence:
Commercial Operation: 6/2028
7. Capital Investment: \$240,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other DEO – 100%
Utilities:
11. Purpose of the planned Reconfigure DEO-A5487 through Montgomery
transmission line: Substation to eliminate overload and/or low voltage
conditions
for various contingencies.
12. Consequences of Line overload and/or low voltage conditions continue to
Construction deferment or result for various contingencies.
Termination:
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: Foster-Port Union
Line Number: DEO-A5483
2. Point of Origin: Feeder 5483
Terminus: Montgomery Substation
3. Right-of-Way, Length: approximately 200 feet
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2027
6. Construction to Commence: 1/2028
Commercial Operation: 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: Port Union-Foster
Line Number: DEO-A5483
2. Point of Origin: Tap Feeder 5483 (at or near Pole 524)
Terminus: Socialville Substation
3. Right-of-Way, Length: approximately 1,400 feet
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2027
6. Construction to 1/2028
Commence:
Commercial Operation: 6/2028
7. Capital Investment: \$1,400,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other DEO – 100%
Utilities:
11. Purpose of the planned Loop DEO-A5483 through Socialville Substation to
transmission line: eliminate overload and/or low voltage conditions
for various contingencies.
12. Consequences of Line Overload and/or low voltage conditions continue to
Construction deferment or result for various contingencies.
Termination:
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: Summerside-Beckjord
Line Number: DEO-A6984
2. Point of Origin: Structure HL181
Terminus: Summerside Substation
3. Right-of-Way, Length: approximately 200 feet
Average Width: on Duke-owned property
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2021
6. Construction to 1/2022
Commence:
Commercial Operation: 12/2022
7. Capital Investment: \$1,200,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other DEO – 100%
Utilities:
11. Purpose of the planned Relocation circuit to new bay location in substation
transmission line: to allow substation expansion for new distribution
supply equipment.
12. Consequences of Line Inability to perform required substation work, to
Construction deferment or provide 34.5 kV distribution system capacity and
Termination: enhanced reliability.
13. Miscellaneous: Area to be served is primarily Clermont
County.
PJM Project No.: conceptual

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

1. Line Name: Summerside-Beckjord
Line Number: DEO-A6984
2. Point of Origin: Aicholtz Substation (Beckjord side)
Terminus: Structure 6C-X1-39
3. Right-of-Way, Length: approximately 250 feet
Average Width: On Duke-owned property
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 3/2024
6. Construction to Commence: 9/2024
Commercial Operation: 12/2024
7. Capital Investment: \$725,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: To provide 12.47 kV distribution system capacity and enhanced reliability,
12. Consequences of Line Construction deferment or Termination: Inability to supply 12.47 kV distribution load and enhance reliability.
13. Miscellaneous: Area to be served is primarily Clermont County
PJM Project No.: conceptual

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

1. Line Name: Summerside-Beckjord
Line Number: DEO-A6984
2. Point of Origin: Aicholtz Substation (Summerside side)
Terminus: Structure 6C-X1-39
3. Right-of-Way, Length: approximately 250 feet
Average Width: On Duke-owned property
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 3/2024
6. Construction to 9/2024
Commence:
Commercial Operation: 12/2024
7. Capital Investment: \$725,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other DEO – 100%
Utilities:
11. Purpose of the planned To provide 12.47 kV distribution system capacity
transmission line: and enhanced reliability,
12. Consequences of Line Inability to supply 12.47 kV distribution load and
Construction deferment or enhance reliability.
Termination:
13. Miscellaneous: Area to be served is primarily Clermont County
PJM Project No.: conceptual

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

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

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

1. Line Name: College Corner-Trenton
Line Number: DEO-A13803
2. Point of Origin: Structure 26BT-X2-66B
Terminus: N/A
3. Right-of-Way, Length: N/A
Average Width: On Duke-owned property
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2021
6. Construction to Commence: 3/2022
Commercial Operation: 12/2023
7. Capital Investment: \$750,000
8. Substations: none
9. Supporting Structures: steel pole
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Raise DEO-A13803 to allow for looping DEO-A3281 through Collinsville.
12. Consequences of Line Construction deferment or Termination: Inability to expand substation to enhance system reliability.
13. Miscellaneous: Area to be served is primarily Butler County.
PJM Project No.: conceptual

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

1. Line Name: College Corner-Trenton
Line Number: DEO-A3281
2. Point of Origin: Structure 26BT-X2-67
Terminus: Collinsville Substation (College Corner side)
3. Right-of-Way, Length: approximately 600 feet
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2021
6. Construction to Commence: 3/2022
Commercial Operation: 12/2023
7. Capital Investment: \$175,000
8. Substations: none
9. Supporting Structures: steel pole
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Re-route DEO-A3281 to accommodate substation expansion.
12. Consequences of Line Construction deferment or Termination: Inability to expand substation to enhance system reliability.
13. Miscellaneous: Area to be served is primarily Butler County.
PJM Project No.: conceptual

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

1. Line Name: Miami Fort-Miami Fort GT
Line Number: DEO-A1688
2. Point of Origin: Structure 125H-358
Terminus: Miami Fort GT
3. Right-of-Way, Length: approximately 150 feet
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 5/2021
6. Construction to 2/2022
Commence:
Commercial Operation: 6/2022
7. Capital Investment: \$100,000
8. Substations: none
9. Supporting Structures: steel pole
10. Participation with other DEO – 100%
Utilities:
11. Purpose of the planned Separation of assets with generation.
transmission line:
12. Consequences of Line Inability to operationally separate 3rd party-owned
Construction deferment or generation facilities from Duke Energy Ohio
Termination: transmission system.
13. Miscellaneous: Area to be served is primarily Hamilton County.
PJM Project No.: s0909

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

1. Line Name: Foster-Pierce
Line Number: DEO-B4502
2. Point of Origin: Structure 2C-X30-1
Terminus: Pierce Substation
3. Right-of-Way, Length: approximately 300 feet
Average Width: on Duke-owned property
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 345 kV design and operate voltage
5. Application for Certificate: 1/2021
6. Construction to Commence: 3/2021
Commercial Operation: 12/2021
7. Capital Investment: \$5,500,000
8. Substations: Pierce Substation
9. Supporting Structures: steel pole
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Relocate circuit to allow substation expansion to accommodate reconfiguration of supply to Duke-owned 345-138 kV transformers.
12. Consequences of Line Construction deferment or Termination: overload of various facilities for various outage contingencies.
13. Miscellaneous: Area to be served is primarily Clermont County.
PJM Project No.: b2977

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

1. Line Name: Beckjord-Wilder
Line Number: DEO-A1881
2. Point of Origin: Structure 2C-X2-1
Terminus: Beckjord Substation
3. Right-of-Way, Length: To be determined
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 6/2022
6. Construction to Commence: 12/2022
Commercial Operation: 6/2023
7. Capital Investment: \$150,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Reroute/relocate/raise circuit as required to route new 69 kV circuit out of Beckjord Substation.
12. Consequences of Line Construction deferment or Termination: Inability to route new 69 kV circuit out of Beckjord Substation to provide additional 69 kV system capacity and enhanced reliability,
13. Miscellaneous: Area to be served is primarily Clermont County.
PJM Project No.: s2181

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

1. Line Name: Beckjord-Pierce
Line Number: DEO-A1887
2. Point of Origin: Structure 2C-X5-1
Terminus: Beckjord Substation
3. Right-of-Way, Length: To be determined
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 6/2022
6. Construction to Commence: 12/2022
Commercial Operation: 6/2023
7. Capital Investment: \$100,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Reroute/relocate/raise circuit as required to route new 69 kV circuit out of Beckjord Substation.
12. Consequences of Line Construction deferment or Termination: Inability to route new 69 kV circuit out of Beckjord Substation to provide additional 69 kV system capacity and enhanced reliability,
13. Miscellaneous: Area to be served is primarily Clermont County.
PJM Project No.: s2181

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

1. Line Name: Beckjord-Pierce
Line Number: DEO-A1889
2. Point of Origin: Structure 2C-X5-1
Terminus: Beckjord Substation
3. Right-of-Way, Length: To be determined
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 6/2022
6. Construction to Commence: 12/2022
Commercial Operation: 6/2023
7. Capital Investment: \$130,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Reroute/relocate/raise circuit as required to route new 69 kV circuit out of Beckjord Substation.
12. Consequences of Line Construction deferment or Termination: Inability to route new 69 kV circuit out of Beckjord Substation to provide additional 69 kV system capacity and enhanced reliability,
13. Miscellaneous: Area to be served is primarily Clermont County.
PJM Project No.: s2181

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

- | | | |
|-----|---|---|
| 1. | Line Name: Line Number: | Beckjord-Wilder DEO-A5988 |
| 2. | Point of Origin: Terminus: | Structure 2C-X2-1 Beckjord Substation |
| 3. | Right-of-Way, Length: Average Width: Number of Circuits: | To be determined 100 feet 1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 6/2022 |
| 6. | Construction to Commence: Commercial Operation: | 12/2022 6/2023 |
| 7. | Capital Investment: | \$15,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other Utilities: | DEO – 100% |
| 11. | Purpose of the planned transmission line: | Reroute/relocate/raise circuit as required to route new 69 kV circuit out of Beckjord Substation. |
| 12. | Consequences of Line Construction deferment or Termination: | Inability to route new 69 kV circuit out of Beckjord Substation to provide additional 69 kV system capacity and enhanced reliability, |
| 13. | Miscellaneous: | Area to be served is primarily Clermont County. PJM Project No.: s2181 |

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

- | | | |
|-----|---|--|
| 1. | Line Name: Line Number: | Beckjord-Summerside DEO-A6984 |
| 2. | Point of Origin: Terminus: | Structure 2C-X3-3 N/A |
| 3. | Right-of-Way, Length: Average Width: Number of Circuits: | To be determined 100 feet 1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 6/2022 |
| 6. | Construction to Commence: Commercial Operation: | 12/2022 6/2023 |
| 7. | Capital Investment: | \$100,000 |
| 8. | Substations: | none |
| 9. | Supporting Structures: | steel tower |
| 10. | Participation with other Utilities: | DEO – 100% |
| 11. | Purpose of the planned transmission line: | Modify circuit DEO-A6984 to remove loop through Clermont Substation due to retirement of substation. |
| 12. | Consequences of Line Construction deferment or Termination: | Inability to retire Clermont Substation. |
| 13. | Miscellaneous: | Area to be served is primarily Clermont County. PJM Project No.: s2181 |

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

- | | | |
|-----|---|---|
| 1. | Line Name: Line Number: | Garver-Carlisle DEO-A7582 |
| 2. | Point of Origin: Terminus: | Structure W76-37 Carlisle Substation |
| 3. | Right-of-Way, Length: Average Width: Number of Circuits: | approximately 350 feet Road right-of-way 1 transmission line above 125 kV |
| 4. | Voltage: | 138 kV design and operate voltage |
| 5. | Application for Certificate: | 12/2024 |
| 6. | Construction to Commence: Commercial Operation: | 6/2025 12/2025 |
| 7. | Capital Investment: | \$850,000 |
| 8. | Substations: | None |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other Utilities: | DEO – 100% |
| 11. | Purpose of the planned transmission line: | Changes occurring at Carlisle Substation which require change in take-off structure. |
| 12. | Consequences of Line Construction deferment or Termination: | Inability to upgrade substation. |
| 13. | Miscellaneous: | Area to be served is northwestern Warren County. PJM Project No.: conceptual |

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

1. Line Name: West End-South Fairmount
Line Number: DEO-A1581
2. Point of Origin: Structure M8-X1-18 (or vicinity)
Terminus: Camp Washington (new)
3. Right-of-Way, Length: approximately 2,000 feet
Average Width: 150 feet
Number of Circuits: 2 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 6/2024
6. Construction to 12/2024
Commence:
Commercial Operation: 12/2025
7. Capital Investment: \$7,500,000
8. Substations: Camp Washington
9. Supporting Structures: steel poles
10. Participation with other DEO – 100%
Utilities:
11. Purpose of the planned Relocate line to accommodate governmental road
transmission line: improvement project.
12. Consequences of Line Failure to comply with road improvement project.
Construction deferment or
Termination:
13. Miscellaneous: Area to be served is primarily central Hamilton
County.
PJM Project No.: 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: Warren-Clinton county
Line Number: DEO-A2381
2. Point of Origin: Structure WRO-9584
Terminus: Structure CTO-248
3. Right-of-Way, Length: approximately 2.1 miles
Average Width: 90 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 12/2020
6. Construction to 8/2021
Commence:
Commercial Operation: 12/2021
7. Capital Investment: \$5,250,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other DEO – 100%
Utilities:
11. Purpose of the planned Replace deteriorated structures.
transmission line:
12. Consequences of Line Failure of existing structures.
Construction deferment or
Termination:
13. Miscellaneous: Area to be served is primarily northern Butler
County.
PJM Project No.: not required

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

1. Line Name: Mitchell-Brighton
Line Number: DEO-A1263
2. Point of Origin: Structure M11-X1-31
Terminus: N/A
3. Right-of-Way, Length: N/A
Average Width: 100 feet
Number of Circuits: 2 transmission line above 125 kV
4. Voltage: 138 kV design, 69 kV operate voltage
5. Application for Certificate: 2/11/2020
6. Construction to Commence: 9/2020
Commercial Operation: To be determined
7. Capital Investment: \$6,000,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Relocate line to accommodate governmental road improvement project.
12. Consequences of Line Construction deferment or Termination: Failure to comply with road improvement project.
13. Miscellaneous: Area to be served is primarily central Hamilton County.
PJM Project No.: not required

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

1. Line Name: Rochelle-Terminal
Line Number: DEO-A8286
2. Point of Origin: Structure O12-538
Terminus: Structure O12-539
3. Right-of-Way, Length: approximately 1,250 feet
Average Width: 30 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 1/23/2020
6. Construction to 9/2020
Commence:
Commercial Operation: 12/2021
7. Capital Investment: \$3,600,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other DEO – 100%
Utilities:
11. Purpose of the planned Replace deteriorated structures.
transmission line:
12. Consequences of Line Failure of existing structures.
Construction deferment or
Termination:
13. Miscellaneous: Area to be served is primarily 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: Beckjord-Remington
Line Number: DEO-A9482
2. Point of Origin: Structure 10C-X4-210
Terminus: Remington Substation
3. Right-of-Way, Length: approximately 100 feet
Average Width: On Duke energy property
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2023
6. Construction to Commence: 3/2024
Commercial Operation: 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: Foster-Remington
Line Number: DEO-A5487
2. Point of Origin: Structure 10C-X4-210
Terminus: Remington Substation
3. Right-of-Way, Length: approximately 100 feet
Average Width: On Duke Energy property
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2023
6. Construction to Commence: 3/2024
Commercial Operation: 12/2024
7. Capital Investment: \$160,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Relocation of DEO-A5487 to accommodate substation expansion.
12. Consequences of Line Construction deferment or Termination: Inability to expand and modify substation for increased operational flexibility and reliability.
13. Miscellaneous: Area to be served is primarily eastern Hamilton County and west Clermont County.
PJM Project No.: s1744

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

1. Line Name: Eastwood-Ford-Batavia
Line Number: DEO-A8481
2. Point of Origin: Half Acre Substation (Eastwood side)
Terminus: Approximately pole 53C-794
3. Right-of-Way, Length: Approximately 600 feet
Average Width: 100 feet
Number of Circuits: 1
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2021
6. Construction to Commence: 1/2022
Commercial Operation: 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: Eastwood-Ford-Batavia
Line Number: DEO-A8481
2. Point of Origin: Half Acre Substation (Ford-Batavia side)
Terminus: Approximately pole 53C-790
3. Right-of-Way, Length: Approximately 600 feet
Average Width: On Duke Energy property
Number of Circuits: 1
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 9/2021
6. Construction to Commence: 1/2022
Commercial Operation: 6/2023
7. Capital Investment: \$700,000
8. Substations: none
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: To provide transmission supply to the new Half Acre Substation, which will provide 34.5 kV distribution system capacity and enhanced reliability.
12. Consequences of Line Construction deferment or Termination: Inability to supply 34.5 kV distribution load and enhance reliability.
13. Miscellaneous: Area to be served is primarily Clermont County
PJM Project No.: s2425

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

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

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

1. Line Name: Willey-Terminal
Line Number: DEO-A9787
2. Point of Origin: Pole No. 107H-1695
Terminus: Pole No. 107H-1782
3. Right-of-Way, Length: approximately 1200 feet
Average Width: 50 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 11/2020
6. Construction to Commence: 9/2021
Commercial Operation: 12/2021
7. Capital Investment: \$1,200,000
8. Substations: None
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Replace deteriorated structures.
12. Consequences of Line Construction deferment or Termination: Failure of existing structures.
13. Miscellaneous: Area to be served is primarily north-central Hamilton County.
PJM Project No.: not required

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

1. Line Name: City of Hamilton-Fairfield
Line Number: DEO-A5781
2. Point of Origin: Pole No. BT118-542
Terminus: Pole No. BT118-31
3. Right-of-Way, Length: approximately 600 feet
Average Width: 50 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 5/2021
6. Construction to Commence: 9/2021
Commercial Operation: 10/2021
7. Capital Investment: \$500,000
8. Substations: None
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Separation of 69 kV and 138 kV circuits presently on common structures to enable failed 69 kV switch to be replaced.
12. Consequences of Line Construction deferment or Termination: Inability to sectionalize 69 kV system during outage or other non-standard operating conditions.
13. Miscellaneous: Area to be served is primarily south-central Butler County.
PJM Project No.: not required

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

1. Line Name: City of Hamilton-Fairfield
Line Number: DEO-A5781
2. Point of Origin: Pole No. BT119-73
Terminus: Pole No. BT119-446
3. Right-of-Way, Length: approximately 500 feet
Average Width: 50 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 5/2021
6. Construction to Commence: 9/2021
Commercial Operation: 10/2021
7. Capital Investment: \$500,000
8. Substations: None
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Replace deteriorated structures.
12. Consequences of Line Construction deferment or Termination: Failure of existing structures.
13. Miscellaneous: Area to be served is primarily south-central Butler County.
PJM Project No.: not required

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

- | | | |
|-----|---|--|
| 1. | Line Name: Line Number: | Foster-Todhunter DEO-B4515 |
| 2. | Point of Origin: Terminus: | Tower No. Tower No. |
| 3. | Right-of-Way, Length: Average Width: Number of Circuits: | approximately 500 feet 150 feet 1 transmission line above 125 kV |
| 4. | Voltage: | 345 kV design and operate voltage |
| 5. | Application for Certificate: | To be determined |
| 6. | Construction to Commence: Commercial Operation: | To be determined To be determined |
| 7. | Capital Investment: | \$ To be determined |
| 8. | Substations: | None |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other Utilities: | DEO – 100% |
| 11. | Purpose of the planned transmission line: | Relocate line to accommodate governmental road improvement project. |
| 12. | Consequences of Line Construction deferment or Termination: | Failure to comply with road improvement project. |
| 13. | Miscellaneous: | Area to be served is primarily west-central Warren County. PJM Project No.: not required |

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

- | | | |
|-----|---|--|
| 1. | Line Name: Line Number: | Foster-Todhunter DEO-B5485 |
| 2. | Point of Origin: Terminus: | Tower No. Tower No. |
| 3. | Right-of-Way, Length: Average Width: Number of Circuits: | approximately 500 feet 150 feet 1 transmission line above 125 kV |
| 4. | Voltage: | 345 kV design, 138 kV operate voltage |
| 5. | Application for Certificate: | To be determined |
| 6. | Construction to Commence: Commercial Operation: | To be determined To be determined |
| 7. | Capital Investment: | \$ To be determined |
| 8. | Substations: | None |
| 9. | Supporting Structures: | steel poles |
| 10. | Participation with other Utilities: | DEO – 100% |
| 11. | Purpose of the planned transmission line: | Relocate line to accommodate governmental road improvement project. |
| 12. | Consequences of Line Construction deferment or Termination: | Failure to comply with road improvement project. |
| 13. | Miscellaneous: | Area to be served is primarily west-central Warren County. PJM Project No.: not required |

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

1. Line Name: Foster-Todhunter
Line Number: DEO-B5484
2. Point of Origin: Pole No. 14W-1346
Terminus: Pole No. 14W-1359
3. Right-of-Way, Length: approximately 2500 feet
Average Width: 100 feet
Number of Circuits: 1 transmission line above 125 kV
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: To be determined
6. Construction to Commence: To be determined
Commercial Operation: To be determined
7. Capital Investment: \$ To be determined
8. Substations: None
9. Supporting Structures: steel poles
10. Participation with other Utilities: DEO – 100%
11. Purpose of the planned transmission line: Replace deteriorated structures.
12. Consequences of Line Construction deferment or Termination: Failure of existing structures.
13. Miscellaneous: Area to be served is primarily south-west Warren County.
PJM Project No.: not required

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

1. Line Name: Miami Fort-Glenview
Line Number: DEO-A7284
2. Point of Origin: North Bend Substation (Miami Fort side)
Terminus: Approximately tower B10-X1-21
3. Right-of-Way, Length: Approximately 1450 feet
Average Width: 100 feet
Number of Circuits: 1
4. Voltage: 138 kV design and operate voltage
5. Application for Certificate: 12/2022
6. Construction to Commence: 09/2023
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.: supplemental project pending

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: 12/2022
6. Construction to Commence: 09/2023
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.: supplemental project pending

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

1. Line Name: Miami Fort-Ebenezer
Line Number: DEO-A6864
2. Point of Origin: Approximately tower B10-X1-21
Terminus: New structure west of tower B10-X2-123
3. Right-of-Way, Length: Approximately 2000 feet
Average Width: 100 feet
Number of Circuits: 1
4. Voltage: 138 kV design, 69 kV operate voltage
5. Application for Certificate: 12/2022
6. Construction to Commence: 09/2023
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: Modifications to A6864 circuit to enable A7284 circuit to provide transmission supply to the new North Bend Substation, which will provide 12.5 kV distribution system capacity and enhanced reliability.
12. Consequences of Line Construction deferment or Termination: Inability to supply 12.5 kV distribution load and enhance reliability.
13. Miscellaneous: Area to be served is primarily south-west Hamilton County PJM Project No.: supplemental project pending

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

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

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

Substation Name: Half Acre

Voltage(s): 138 kV, 34.5 kV

Type of Substation: Distribution (D)

Timing: 2023

Line Association(s): DEO-A8481

Minimum Substation Site Acreage: Approximately 5 acres

PJM Project No.: conceptual

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

Substation Name: Keever

Voltage(s): 138 kV, 12.47 kV

Type of Substation: Distribution (D)

Timing: 2025

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

Minimum Substation Site Acreage: Approximately 5 acres

PJM Project No.: conceptual

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

Substation Name: Decker

Voltage(s): 138 kV, 12.47 kV

Type of Substation: Distribution (D)

Timing: 2025

Line Association(s): DEO-A7582

Minimum Substation Site Acreage: Approximately 5 acres

PJM Project No.: conceptual

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

Substation Name: Hankins

Voltage(s): 138 kV, 12.47 kV

Type of Substation: Distribution (D)

Timing: 2025

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

Minimum Substation Site Acreage: Approximately 5 acres

PJM Project No.: conceptual

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

Substation Name: North Bend

Voltage(s): 138 kV, 12.47 kV

Type of Substation: Distribution (D)

Timing: 2022

Line Association(s): DEO-A7284

Minimum Substation Site Acreage: Approximately 5 acres

PJM Project No.: conceptual

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

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

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

(b) Transportation includes railroads & railways.

(c) Other includes street & highway lighting, public authorities, interdepartmental sales, and wholesale

(d) Historical class numbers include the impact of DSM programs in place at the time. Forecast numbers have not been reduced for energy efficiency impacts.

(e) Historical numbers represent incremental impacts of energy efficiency programs. Forecast numbers represent cumulative impacts.

(f) Historical numbers include the impact of DSM programs in place at the time. Forecast numbers include losses.

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

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

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

(b) Transportation includes railroads & railways.

(c) Other includes street & highway lighting, public authorities, interdepartmental sales, and wholesale

(d) Historical numbers include the impact of DSM programs in place at the time.

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

Duke Energy Ohio Before DSM

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

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

(b) Winter load reference is to peak loads which follow the summer peak load; Winter 2020 peak is a preliminary estimate

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

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

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

(Megawatts)(a)

Duke Energy Ohio After DSM

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

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

(b) Winter load reference is to peak loads which follow the summer peak load; Winter 2020 peak is a preliminary estimate

(c) Includes DSM impacts.

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

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

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

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

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

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

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

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

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

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

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

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

(b) EDUs operating across Ohio boundaries shall provide data for the total service area in this column.

(c) EDUs operating as a part of an integrated operating system shall provide data for the total system in this column.

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

(e) Includes DSM impacts.

**PUCO Form FE-R1:
Monthly Forecast of Electric Utility's Ohio Service Area Peak Load and Resources
Dedicated to Meet Ohio Service Area Peak Load
(Megawatts)**

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

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

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

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

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

a. Internal Load equals Native Load plus Interruptible Load.

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

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

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

**PUCO Form FE-R3:
Summary of Existing Electric Generation Facilities for the System (as of 12/31/2020)**

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

NOT APPLICABLE

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

| | Unit Designation | | Seasonal |
|-------------|------------------|-------------|----------|
| Year/Season | Unit Name | Description | Total |

NOT APPLICABLE

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

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

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

**PUCO Form FE-R6:
Electric Utility's Actual and Forecast Ohio Peak Load and Resources
Dedicated to Meet Electric Utility's Ohio Peak Load
(Megawatts)
Summer Season**

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

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

b. Internal Load equals Native Load plus Interruptible Load.

c. Includes both energy efficiency and demand response

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

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

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

| | (-5) 2016 | (-4) 2017 | (-3) 2018 | (-2) 2019 | (-1) 2020 | (0) 2021 | (1) 2022 | (2) 2023 |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|
| Net Demonstrated Capability | | | | | | | | |
| Net Seasonal Capability | | | | | | | | |
| Purchases ^c | 5080 | 5020 | 4970 | 5020 | 5072 | 5191 | 5305 | 4670 |
| Sales | | | | | | | | |
| Available Capability ^a | 5080 | 5020 | 4970 | 5020 | 5072 | 5191 | 5305 | 4670 |
| Native Load | 4,171 | 3,957 | 4,091 | 3,932 | 3,899 | 3,989 | 3,996 | 3,996 |
| Available Reserve | 909 | 1,063 | 879 | 1,088 | 1,173 | 1,202 | 1,309 | 674 |
| Internal Load ^b | 4,171 | 3,957 | 4,091 | 3,976 | 3,899 | 4,048 | 4,055 | 4,060 |
| Reserve ^d | 909 | 1,063 | 879 | 1,044 | 1,173 | 1,143 | 1,250 | 609 |
| | (3) 2024 | (4) 2025 | (5) 2026 | (6) 2027 | (7) 2028 | (8) 2029 | (9) 2030 | (10) 2031 |
| Net Demonstrated Capability | | | | | | | | |
| Net Seasonal Capability | | | | | | | | |
| Purchases ^c | 4659 | 4647 | 4643 | 4650 | 4655 | 4650 | 4656 | 4654 |
| Sales | | | | | | | | |
| Available Capability ^a | 4659 | 4647 | 4643 | 4650 | 4655 | 4650 | 4656 | 4654 |
| Native Load | 3,984 | 3,973 | 3,970 | 3,976 | 3,980 | 3,976 | 3,981 | 3,980 |
| Available Reserve | 675 | 674 | 673 | 674 | 675 | 674 | 675 | 674 |
| Internal Load ^b | 4,051 | 4,040 | 4,037 | 4,043 | 4,048 | 4,044 | 4,049 | 4,047 |
| Reserve ^d | 608 | 606 | 606 | 606 | 607 | 607 | 607 | 607 |

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

b. Internal Load equals Native Load plus Interruptible Load.

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

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

**PUCO Form FE-R8:
Electric Utility's Actual and Forecast Ohio Peak Load and Resources
Dedicated to Meet Electric Utility's Ohio Peak Load
(Megawatts)
Winter Season**

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

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

b. Internal Load equals Native Load plus Interruptible Load.

c. Includes both energy efficiency and demand response

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

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

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

| | (-5) 2016 | (-4) 2017 | (-3) 2018 | (-2) 2019 | (-1) 2020 | (0) 2021 | (1) 2022 | (2) 2023 |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|
| Net Demonstrated Capability | | | | | | | | |
| Net Seasonal Capability | | | | | | | | |
| Purchases ^c | 5080 | 5020 | 4970 | 5020 | 5072 | 5191 | 5305 | 4670 |
| Sales | | | | | | | | |
| Available Capability ^a | 5080 | 5020 | 4970 | 5020 | 5072 | 5191 | 5305 | 4670 |
| Native Load | 3421 | 3713 | 3793 | 3169 | 3541 | 3563 | 3581 | 3538 |
| Available Reserve | 1659 | 1307 | 1177 | 1851 | 1531 | 1628 | 1724 | 1132 |
| Internal Load ^b | 3421 | 3713 | 3793 | 3169 | 3541 | 3563 | 3581 | 3538 |
| Reserve ^d | 1659 | 1307 | 1177 | 1851 | 1531 | 1628 | 1724 | 1132 |

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

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

b. Internal Load equals Native Load plus Interruptible Load.

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

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

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

- | | |
|---------------------------------------|-----------------------|
| 1. Facility Name | NOT APPLICABLE |
| 2. Facility Location | |
| 3. Facility Type | |
| 4. Anticipated Capability | |
| 5. Anticipated Capital Cost | |
| 6. Application Timing | |
| 7. Construction Timing | |
| 8. Planned Pollution Control Measures | |
| 9. Fuel | |
| 10. Miscellaneous | |

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

7/1/2021 10:38:03 AM

in

Case No(s). 21-0503-EL-FOR

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