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Rocco.D'Ascenzo@duke-energy.com Rocco D'Ascenzo Deputy General Counsel

VIA OVERNIGHT DELIVERY

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APR 01 2019

PUBLIC SERVICE COMMISSION

March 29, 2019

Ms. Gwen R. Pinson Executive Director Kentucky Public Service Commission 211 Sower Blvd Frankfort, KY 40602-0615

RE: Administrative Case No. 387 - Annual Load/Demand Forecast Report

Dear Ms. Pinson:

Enclosed please find the 2018 redacted responses to the Commission data requests filed annually, as ordered in Administrative Case No. 387, paragraph 2, dated October 7, 2005. These updated responses are being filed separately from the Annual Reporting of Duke Energy Kentucky upon request.

We have included the unredacted and highlighted responses in a separate envelope to be filed under seal. Also enclosed is a Petition for Confidential Treatment for your consideration in the above referenced matter.

Please date-stamp the two copies of this letter and return to me in the enclosed returnaddressed envelope. Should you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Rocco D'Ascenzo

Deputy General Counsel

Enclosures

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COMMONWEALTH OF KENTUCKY

APR 01 2019

BEFORE THE PUBLIC SERVICE COMMISSION

PUBLIC SERVICE COMMISSION

A Review of The Adequacy of)	
Kentucky's Generation Capacity and)	Administrative
Transmission System)	Case No. 387

DUKE ENERGY KENTUCKY, INC.'S PETITION FOR THE CONFIDENTIAL TREATMENT OF INFORMATION FILED FOR CALENDAR YEAR 2018

- 1. Duke Energy Kentucky, Inc. (Duke Energy Kentucky or Company), pursuant to 807 KAR 5:001, Section 13, respectfully requests the Commission to classify and protect certain information provided by Duke Energy Kentucky in its response to Data Request No. 11, as requested by Commission Staff (Staff). The information that Staff seeks, and for which Duke Energy Kentucky now seeks confidential treatment (Confidential Information), includes planned outage and retirement schedules by plant. In support of this Motion, Duke Energy Kentucky further states:
- 2. The Kentucky Open Records Act exempts from disclosure certain commercial information. KRS 61.878(1)(c). To qualify for this exemption and, therefore, maintain the confidentiality of the information, a party must establish that disclosure of the commercial information would permit an unfair advantage to competitors of that party. Public disclosure of the information identified herein would, in fact, prompt such a result for the reasons set forth below.
- 3. The list of projected outages, as contained in response to Data Request No. 11, will grant vendors a distinct advantage in that they would be able to anticipate Duke Energy

Kentucky's maintenance schedules. Duke Energy Kentucky submits that the following information, if openly disclosed, could present antitrust issues by giving its competitors access to competitively sensitive, confidential information, which in turn could cause energy prices to consumers to be above competitive rates, and would permit competitors of Duke Energy Kentucky to gain an unfair competitive advantage in the marketplace:

- a. Scheduled outages or retirements of generating capacity during the current year and the following four years.
- 4. The information for which Duke Energy Kentucky is seeking confidential treatment is not known outside of Duke Energy Corporation.
- 5. Duke Energy Kentucky does not object to limited disclosure of the confidential information described herein, pursuant to an acceptable protective agreement, to the Attorney General or other intervenors with a legitimate interest in reviewing the same for the purpose of participating in this case.
- 6. This information was, and remains, integral to Duke Energy Kentucky's effective execution of business decisions and such information is generally regarded as confidential or proprietary. Indeed, as the Kentucky Supreme Court has found, "information concerning the inner workings of a corporation is 'generally accepted as confidential or proprietary." Hoy v. Kentucky Industrial Revitalization Authority, 904 S.W.2d 766, 768 (Ky. 1995).
- 7. In accordance with the provisions of 807 KAR 5:001, Section 13(3), the Company is filing one copy of the Confidential Information separately under seal, and one copy without the confidential information included.
- 8. Duke Energy Kentucky respectfully requests that the Confidential Information be withheld from public disclosure for a period of ten years. This will assure that the Confidential

Information – if disclosed after that time – will no longer be commercially sensitive so as to likely impair the interests of the Company or its customers if publicly disclosed.

9. To the extent the Confidential information becomes generally available to the public, whether through filings required by other agencies or otherwise, Duke Energy Kentucky will notify the Commission and have its confidential status removed, pursuant to 807 KAR 5:001 Section 13(10)(a).

WHEREFORE, Duke Energy Kentucky, Inc., respectfully requests that the Commission classify and protect as confidential the specific information described herein.

Respectfully submitted,

DUKE ENERGY KENTUCKY, INC.

Rocco D'Ascenzo (92796)

Deputy General Counsel

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Cincinnati, Ohio 45202

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E-mail: <u>rocco.d'ascenzo@duke-energy.com</u> Counsel for Duke Energy Kentucky, Inc.

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing filing was served on the following via overnight mail, this 24th day of March 2019.

Rocco D'Ascenzo

Rebecca W. Goodman The Office of the Attorney General Utility Intervention and Rate Division 700 Capital Avenue, Suite 20 Frankfort, Kentucky 40601

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PUBLIC SERVICE COMMISSION

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STAFF-DR-01-003

REQUEST:

Actual and weather-normalized monthly coincident peak demands for the just completed calendar year. Demands should be disaggregated into (a) native load demand (firm and non-firm) and (b) off-system demand (firm and non-firm).

RESPONSE:

	Duke Energy Kentucky Electric Energy Demands - MW					
	1	2	3 = 1 + 2	4	5	6 = 3 + 5
		X		Weather		
	Native	Demand	Internal	Normal Internal	Off-System	
	Peak	Response ¹	Peak	Peak	Non-Firm	Total
Jan-18	797		797	725		725
Feb-18	657		657	721		721
Mar-18	653		653	650		650
Apr-18	628		628	593		593
May-18	761		761	673		673
Jun-18	847	10	857	823		823
Jul-18	837		837	830		830
Aug-18	816	10	826	804		804
Sep-18	830		830	780		780
Oct-18	765		765	626		626
Nov-18	656		656	630		630
Dec-18	655		655	724		724

Note: DR data not available to load forecasting group as of this date

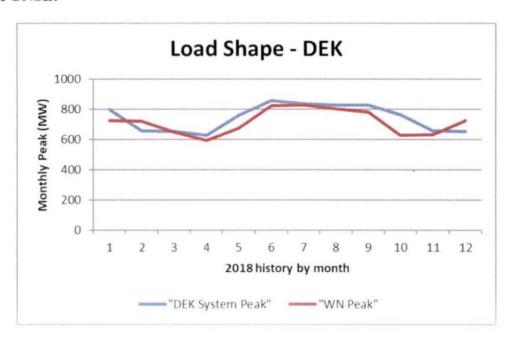
PERSON RESPONSIBLE: Benjamin Passty

STAFF-DR-01-004

REQUEST:

Load shape curves that show actual peak demands and weather-normalized peak demands (native load demand and total demand) on a monthly basis for the just completed calendar year.

RESPONSE:



PERSON RESPONSIBLE:

Benjamin Passty

STAFF-DR-01-006

REQUEST:

Based on the most recent demand forecast, the base case demand and energy forecasts and high case demand and energy forecasts and high case demand and energy forecasts for the current year and the following four years. The information should be disaggregated into (a) native load (firm and non-firm demand) and (b) off-system load (both firm and non-firm demand).

RESPONSE:

Duke Energy Kentucky – Native Load Forecast			
Demand	Demand – MW		- GWH
Base	High	Base	High
846	931	4,001	4,367
849	935	4,025	4,402
858	944	4,115	4,508
886	976	4,289	4,698
893	983	4,323	4,735
	Demand Base 846 849 858 886	Demand – MW Base High 846 931 849 935 858 944 886 976	Demand – MW Energy Base High Base 846 931 4,001 849 935 4,025 858 944 4,115 886 976 4,289

Duke Energy Kentucky – Non-Firm Electric Forecast				
	Demand – MW		Energy	- MWH
	Base	High	Base	High
2018	n/a	n/a	n/a	n/a
2019	n/a	n/a	n/a	n/a
2020	n/a	n/a	n/a	n/a
2021	n/a	n/a	n/a	n/a
2022	n/a	n/a	n/a	n/a

PERSON RESPONSIBLE:

Benjamin Passty

Duke Energy Kentucky Administrative Case No. 387

March 31, 2019

STAFF-DR-01-007

REQUEST:

The target reserve margin currently used for planning purposes, stated as a percentage of

demand. If changed from what was in use in 2001, include a detailed explanation for the

change.

RESPONSE:

As was used in 2018 IRP, Duke Energy Kentucky will use a planning reserve margin of

13.7%. Duke Energy Kentucky plans for a prudent long-term target reserve margin

(typically in the 13%-17% range). But as a participant in PJM, Duke Energy Kentucky

must also satisfy a separate PJM prescribed reserve margin requirement as part of its

near-term RTO wide capacity planning. These two requirements while similar in name

and concept are not precisely the same metric nor are they calculated the same way.

PERSON RESPONSIBLE:

Scott Park

STAFF-DR-01-008

REQUEST:

Projected reserve margins stated in megawatts and as a percentage of demand for the current year and the following 4 years. Identify projected deficits and current plans for addressing these. For each year identify the level of firm capacity purchases projected to meet native load demand.

RESPONSE:

For purposes of being clear, projected reserve margins will be calculated as follows:

Reserve Margin (MW) = Generating Capacity – Peak Demand – Demand Response

Reserve Margin (%) = (Generating Capacity / (Peak Demand – Demand Response)) - 1

Year	Projected Reserves (MW)	Projected Reserve Margin (%)
2019	233	28%
2020	230	27%
2021	229	27%
2022	227	27%
2023	225	26%

This data reflects the Fall 2018 Load Forecast and addition of 7 MW of solar to the DEK generating fleet. The current fleet consists of the 600 MW East Bend 2 and 476 MW Woodsdale generating stations plus 7 MW solar.

PERSON RESPONSIBLE:

Scott Park

PUBLIC STAFF-DR-01-011

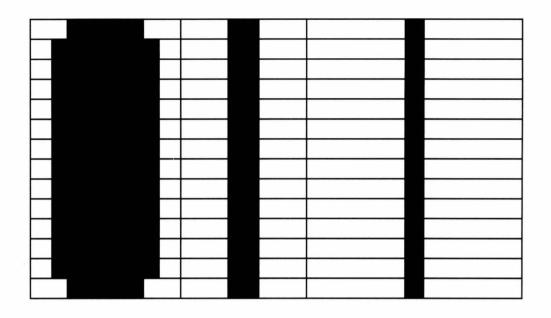
REQUEST:

A list that identifies scheduled outages or retirements of generating capacity during the current year and the following four years.

RESPONSE:

CONFIDENTIAL PROPRIETARY TRADE SECRET

Unit Name	Year	Duration (Weeks)



PERSON RESPONSIBLE:

John Swez

Duke Energy Kentucky Administrative Case No. 387

March 31, 2019

STAFF-DR-01-012

REQUEST:

Identify all planned base load or peaking capacity additions to meet native load

requirements over the next 10 years. Show the expected in-service date, size and site for

all planned additions. Include additions planned by the utility, as well as those by

affiliates, if constructed in Kentucky or intended to meet load in Kentucky.

RESPONSE:

There are currently no planned base load capacity additions forecasted for the next 10

years. Duke Energy Kentucky continually evaluates its needs for additional base or

peaking capacity based upon annual load projections. Duke Energy Kentucky filed its

most recent integrated resource plan with the Kentucky Public Service Commission in

Case No. 2018-00195 that identifies anticipated capacity needs at the time that filing.

PERSON RESPONSIBLE:

Scott Park

STAFF-DR-01-013

REQUEST:

The following transmission energy data for the just completed calendar year and the forecast for the current year and the following four years:

- a. Total energy received from all interconnections and generation sources connected to the transmission system.
- b. Total energy delivered to all interconnections on the transmission system.
- c. Peak load capacity of the transmission system.
- d. Peak demand for summer and winter seasons on the transmission system.

RESPONSE:

a.

Year	Month	Total Energy Received	
2018	January	427,212	
	February	332,007	
	March	373,651	
	April	338,058	
	May	388,506	
	June	409,903	
	July	432,321	
	August	431,370	
	September	378,357	
	October	368,715	
	November	349,243	
	December	362,531	
2017 Total		4,591,874	

- b. There were 230,132 MWh delivered to the transmission system from DEK.
- c. Neither Duke Energy Kentucky nor the electric utility industry has defined a term "peak load capacity of the transmission system." There is no single

number that defines the capacity of a transmission system due to the interconnected nature of the electric grid. Duke Energy Kentucky does perform assessments of its transmission system to ensure all firm loads can be served in a reliable manner. This ensures that the transmission system has the capacity required to reliably serve the load.

d. SUMMER PEAK

Date	Hour	MW's
June 19, 2018	17	847

WINTER PEAK

Date	Hour	MW's
January 5, 2018	8	797

PERSON RESPONSIBLE:

Tim Abbott - a, b, dEd Kirschner – c

STAFF-DR-01-014

REQUEST:

Identify all planned transmission capacity additions for the next 10 years. Include the expected in-service date, size and site for all planned additions and identify the transmission need each addition is intended to address.

RESPONSE:

The following transmission capacity additions are planned with tentative in-service dates indicated:

Woodspoint substation – install a 138 kV switching station to interconnect with the Duke Energy Ohio 138 kV transmission system – 12/31/2020

Aero Substation – install 138 kV switching facilities to terminate two 138 kV lines and serve four 138-12.47 kV distribution supply transformers – 12/31/2020

Oakbrook Substation – Expand the existing Oakbrook Substation, install a 138-69 kV, 150 MVA transformer – 12/31/2020

Woodspoint to Aero 138 kV line – erect a single circuit 138 kV line from Woodspoint Substation to Aero Substation, approximately 1.5 miles in length – 12/31/2020

Aero to Oakbrook 138 kV line – erect a single circuit 138 kV line from Woodspoint Substation to Aero Substation, approximately 1.1 miles in length – 12/31/2020

The purpose of the above planned projects is to provide service to the Duke Energy

Kentucky distribution system to serve load growth in the vicinity of the

Cincinnati/Northern Kentucky International Airport, primarily the Amazon Air Hub

facility to be installed at the airport.

PERSON RESPONSIBLE:

Ed Kirschner