

KyPSC Case No. 2020-00249
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Duke Energy Kentucky
Case No. 2020-00249
Staff Second Set Data Requests
Date Received: October 9, 2020

STAFF-DR-02-001

REQUEST:

Refer to Duke Kentucky's response to Staff's First Request for Information (Staff's Request) Item 6, Attachment, page 1 of 1. Explain whether the Woodsdale units for which natural gas was purchased ran the day the gas was purchased. If different, explain when the units did run.

RESPONSE:

The Company may have to purchase a quantity of natural gas after the Day-Ahead market results are received to ensure the Woodsdale units remain available in the Real-Time market. However, PJM may decide to not run the units in the Real-Time market in some circumstances. In this event, the gas is consumed at a later point in time when the units are actually operated, but generally less gas is then purchased than burned on this later date since the Company would have a long position on the pipe.

During the review period, gas was purchased for the Woodsdale units and they did not run on 11/11, 11/17, 12/9, and 12/19. Note that TETCO had an Operational Flow Order (OFO) on these days, thus supply was purchased to ensure the units were available during the early morning hours prior to the end of the gas day. Conversely, the Woodsdale plant ran on the following days without supply nominated, using imbalance gas: 2/17, 3/23-3/26, 4/7, and 4/25. There is no cost to carry or use an imbalance on the TETCO pipeline for Duke Energy Kentucky.

PERSON RESPONSIBLE: John Swez

Duke Energy Kentucky
Case No. 2020-00249
Staff Second Set Data Requests
Date Received: October 9, 2020

STAFF-DR-02-002

REQUEST:

Refer to Duke Kentucky's response to Staff's Request, Item 9. Explain whether any of the on-site reviews and inspections of mining operations, scales, and sampling systems have uncovered or corrected any issues with fuel suppliers or transportation providers.

RESPONSE:

During this FAC period, Duke Energy Kentucky inspected the chemical treatment and off-site blending of river barges carrying coal to mitigate extremely dusty conditions and to prevent product loss. Duke Energy Kentucky provided oversight during the unloading, blending, chemical treatment, and reloading of the product. All barges were safely delivered and utilized at East Bend station in an environmentally responsible manner.

Duke Energy Kentucky's on-going inspections are intended to be proactive to prevent situations including, but not limited to the following:

- Proper calibration and functionality of mechanical sampling systems at the mines to assist with coal contract quality control;
- Inspections and calibrations of sampling equipment at the various laboratories performing the coal quality analysis;
- Inspections and monitoring of coal stockpiles at the mine and terminal loadout facilities to assist with proper sizing of product, as well as, free of extraneous materials such as rock, metal, debris, etc.;

- Inspections of certified weighing systems and barge draft surveys;
- Inspections for uniform and evenly loaded barges; and,
- Monitoring of weights and quality analysis by mine and by region.

PERSON RESPONSIBLE: Brett Phipps

Duke Energy Kentucky
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STAFF-DR-02-003

REQUEST:

Refer to Duke Kentucky's response to Staff's Request, Item 16. Explain how a unit can have a negative Net MWh.

RESPONSE:

A generating unit consumes energy in the process of and essential to generating electric energy, called auxiliary energy. Gross Generation, the total amount of energy produced from a unit's generator must be either a positive number or zero, since this represents the energy at the unit's generator before any energy is consumed. However, Net Generation, the amount of energy the unit actually sends to the grid after some energy is consumed in the form of auxiliary energy necessary to run the station, can be either a positive number, a negative number, or zero. Although the majority of auxiliary energy is consumed when the generating unit is on-line, due to the fact that some auxiliary energy is still consumed by systems when the unit is off-line and not generating, such as station lighting or balance of plant systems necessary to ensure the units availability, it is possible to have negative Net Generation. Negative net generation for a month typically happens when the unit either does not run for an entire month or runs for a very short period of time during a month, as was the case in the months with negative Net Generation amounts in response to STAFF-DR-01-016.

PERSON RESPONSIBLE: John Swez

**Duke Energy Kentucky
Case No. 2020-00249
Staff Second Set Data Requests
Date Received: October 9, 2020**

STAFF-DR-02-004

REQUEST:

Explain whether the Black Lung Disability Trust Fund Excise Tax has affected any existing fuel contracts for Duke Kentucky for the period under review through 2020.

RESPONSE:

Black Lung Disability Trust Fund Excise Tax has not affected any existing fuel contracts for Duke Energy Kentucky for the period under review through 2020.

PERSON RESPONSIBLE: Brett Phipps