

RECEIVED

MAY 0 8 2015

PUBLIC SERVICE COMMISSION

VIA HAND DELIVERY

May 8, 2015

Mr. Jeff Derouen Executive Director Kentucky Public Service Commission 211 Sower Boulevard, P.O. Box 615 Frankfort, Kentucky 40602-0615

Re:

Case No. 2015-00089

In the Matter of the Application of Duke Energy Kentucky, Inc., for a Declaratory Order that the Construction of a New Landfill Constitutes an Ordinary Extension in the Usual Course of Business or, in the Alternative, for a Certificate of Public Convenience And Necessity.

Dear Mr. Derouen:

Enclosed please find an original and twelve copies of the following for filing in the above referenced matter:

- 1. Responses to Attorney General's Second Request for Information;
- 2. Petition for Confidential Treatment;
- 3. Responses to Commission Staff's Second Request for Information; and,
- 4. Petition for Confidential Treatment.

The Petitions for Confidential Treatment are being filed with white envelopes, containing the confidential material to be filed under seal.

Please date-stamp the two copies of the letter and the filing and return to me in the enclosed envelope.

Sincerely,

Rocco D'Ascenzo

Associate General Counsel

rocco.d'ascenzo@duke-energy.com

cc: Hon. Jennifer Hans (w/enclosures)

RECEIVED

MAY 0 8 2015

PUBLIC SERVICE COMMISSION

STATE OF OHIO
) SS:
COUNTY OF HAMILTON
)

The undersigned, Tom Wiest, Engineer II, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.

Tom Wiest, Affiant

Subscribed and sworn to before me by Tom Wiest on this $\frac{5^{-1}}{5}$ day of May 2015.

NOTARY PUBLIC

My Commission Expires:



ROCCO O. D'ASCENZO ATTORNEY AT LAW Notary Public, State of Ohio My Commission Has No Expiration Section 147.03 R.C.

STATE OF OHIO)	
)	SS:
COUNTY OF HAMILTON)	

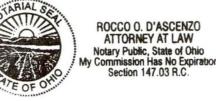
The undersigned, Nick Sellet, Supt Technical, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.

Nick Sellet, Affiant

Subscribed and sworn to before me by Nick Sellet on this 5 day of May, 2015.

YOTARY PUBLIC

My Commission Expires:



STATE OF OHIO)	
)	SS:
COUNTY OF HAMILTON)	

The undersigned, Tammy Jett, Principal Environmental Specialist, being duly sworn, deposes and says that she has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of her knowledge, information and belief.

Tammy Jett, Affiant

Subscribed and sworn to before me by Tammy Jett on this _____ day of May, 2015.

My Commission Expires: 1/5/2019

ADELE M. FRISCH Notary Public, State of Ohio My Commission Expires 01-05-2019

STATE OF OHIO)	
)	SS
COUNTY OF HAMILTON)	

The undersigned, William Don Wathen Jr, Director of Rates & Regulatory Strategy OH/KY, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.

William Don Wathen Jr, Affiant

Subscribed and sworn to before me by William Don Wathen Jr, on this 5th day of May, 2015.

NOTARY PUBLIC

My Commission Expires: 7/8/17

E. MINNA ROLFES Notary Public, State of Ohio My Commission Expires July 8, 2017

TABLE OF CONTENTS

DATA REQUEST	<u>WITNESS</u> <u>TA</u>	B NO.
STAFF-DR-02-001	Thomas E. Wiest/ Nicholas R. Sellet	1
STAFF-DR-02-002	Thomas E. Wiest/ Nicholas R. Sellet	2
STAFF-DR-02-003	Tammy Jett	3
STAFF-DR-02-004	Tammy Jett	4
STAFF-DR-02-005	William Don Wathen, Jr	. 5

Staff Second Set Data Requests

Date Received: May 1, 2015

STAFF-DR-02-001 PUBLIC

REQUEST:

Refer to Duke Kentucky's response to Commission Staff's Initial Request for

Information ("Staff's First Request"), Item 6.

a. With respect to the response to Item 6.a., explain how Duke Kentucky arrived at

the estimated costs for each phase of the proposed West Landfill project.

b. With respect to the response to Item 6.c., explain why the land cost is not included

in the budgeted cost of \$159 million for the landfill project, and provide the

impact of including the land cost in the analysis of relative benefits and costs of

the project.

RESPONSE:

CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachments Only)

a. The cost of Cell 1 is based on bidder estimates, engineering studies, and

engineering estimates. A detailed cost breakdown is included in Confidential

Staff-DR-02-001 Attachment A, which has been filed with the Commission under

the petition for confidential treatment. The cost for the major items (the road,

sediment pond, the cell construction, borrow area) are based on engineering

studies or the actual low bid. Other items (pumping station electrical and

mechanical) are based on Duke Energy Kentucky's estimates, which are based on

past projects. See Confidential Staff-DR-02-001 Attachments B and C, which have been filed with the Commission under a petition for confidential treatment, for low bidder pricing sheet and road engineering estimate.

Cells 2-5 costs are based on the Cell 1 construction costs because they will be similar in size and scope but include provisions for meeting the CCR requirements.

Cells 6 and 7 are estimates that are less expensive than Cells 1-5 because they share liner systems with cells below them.

Cell 8 would be similar in scope to Cells 1-5 but requires additional ditch extensions and road construction.

Cell 1 and the common equipment are considered to be one project. Cells 2,3,4 would be considered separate projects and the estimates for Cells 2-8 are and closure are budgetary estimates that were made based on the budgeted cost of Cell 1 and the cost of other projects completed by Duke Energy Kentucky with the information that is available today. Duke Energy Kentucky typically does not complete a detailed estimate until 1 to 3 years before the project of a construction begins.

b. The cost of land is considered separate and immaterial in relation to the construction of the landfill. The West landfill is only approximately 200 acres of the close to 1000 acres of land acquired through the various land purchase transactions. Duke Energy Kentucky acquired a 31% interest share of this land as part of acquisition of the 31% interest in the East Bend Station from the Dayton Power & Light Company. There was no separate value negotiated and associated

with DP&L's 31% interest in the land included in the transaction, as it was part of

the total negotiated transaction purchase price, that included among other things,

the generating asset, land and future capacity revenues.

The remaining 69% interest in the land that was acquired from Duke

Energy Ohio and its subsidiary Tri-State Improvement was necessary and

beneficial in that it resulted in Duke Energy Kentucky acquiring 100% ownership

and control over all the available land surrounding its East Bend campus. This

land in turn can be used for whatever purpose Duke Energy Kentucky deems

necessary. The approximate \$2.5 million acquisition price for the land from Duke

Energy Ohio and Tri-State was for the remaining interests in all of the land

available at the East Bend site. The purchase price was for the 69% interest was

based upon the book value, as opposed to its much higher market value. The costs

to acquire the land were reasonable and provide Duke Energy Kentucky and its

customers with a significant benefit unique property adjacent to Duke Energy

Kentucky's generating station for future use at a price below market. The West

Landfill itself is only approximately 200 acres of the close to 1000 acres of land

acquired through the land purchase transactions. Even if the land acquisition was

considered part of the West landfill project costs, only those acres used for the

landfill project should be included. The Company estimates that this proportional

cost of the land acquisition has a minimal impact to the overall economics of the

project.

PERSON RESPONSIBLE: Thomas E. Wiest/Nicholas R. Sellet

Duke Energy East Bend West Landfill - Common Items for all Cells			
Description	Est. Cost	Source	Notes
Tree clearing and grubbing		Bid	Sediment pond, borrow area, road, common areas
Haul Road		Engineering Study	Common to all cells (from CCR discharge at plant to new landfill)
Maintenance and access road construction		Bid	Common to all cells (around landfill areas, pipeline areas, etc.)
Wet well (Civil)		Bid	Common to all cells
Pipeline (Civil)		Bid	Common to all cells
Transmission line and controls		Engineering Estimate	Common to all cells
Sediment pond construction		Bid (Includes PTI pond cut*unit price from bid+ protective)	Common to all cells
Borrow area construction		Bid, not including the clearing	Common to all cells
Fencing		Estimated	Fence around entire landfill site, required by permit
Groundwater Monitoring		Engineering Estimate (Duke Engineering)	Modification required by CCR
Truck Wash		Engineering Estimate (Duke Engineering)	Required for air permit compliance
Fuel		Bid Estimate	Proportion of total fuel submitted in bid use based on spend
PTI		Actual spend	Engineering and permitting costs from 2007-present
Overheads			
Total			
1.1-1-1			
Duke Energy East Bend West Landfill Cell 1 Costs	Est. Cost	Source	Notes
Duke Energy East Bend West Landfill Cell 1 Costs Duke Labor + Labor Loadings	Est. Cost	Source Promet	Notes
Duke Energy East Bend West Landfill Cell 1 Costs Duke Labor + Labor Loadings Construction of Cell 1	Est. Cost		Notes
Duke Energy East Bend West Landfill Cell 1 Costs Duke Labor + Labor Loadings Construction of Cell 1 Fuel		Promet	Notes
Duke Energy East Bend West Landfill Cell 1 Costs Duke Labor + Labor Loadings Construction of Cell 1 Fuel Engineering, QA/QC, PTO submittal		Promet Bid	Notes
Duke Energy East Bend West Landfill Cell 1 Costs Duke Labor + Labor Loadings Construction of Cell 1 Fuel Engineering, QA/QC, PTO submittal Overheads		Promet Bid Bid Estimate	Notes
Duke Energy East Bend West Landfill Cell 1 Costs Duke Labor + Labor Loadings Construction of Cell 1 Fuel Engineering, QA/QC, PTO submittal Overheads Total		Promet Bid Bid Estimate	Notes
Duke Energy East Bend West Landfill Cell 1 Costs Duke Labor + Labor Loadings Construction of Cell 1 Fuel Engineering, QA/QC, PTO submittal Overheads		Promet Bid Bid Estimate	Notes Includes common Items for all cells
Duke Energy East Bend West Landfill Cell 1 Costs Duke Labor + Labor Loadings Construction of Cell 1 Fuel Engineering, QA/QC, PTO submittal Overheads Total Grand Total Cell 1 Duke Energy East Bend West Landfill Cell 2 Costs		Promet Bid Bid Estimate	
Duke Energy East Bend West Landfill Cell 1 Costs Duke Labor + Labor Loadings Construction of Cell 1 Fuel Engineering, QA/QC, PTO submittal Overheads Total Grand Total Cell 1 Duke Energy East Bend West Landfill Cell 2 Costs Duke Labor + Labor Loadings		Promet Bid Bid Estimate Bid, archeological services, and permitting	Includes common Items for all cells
Duke Energy East Bend West Landfill Cell 1 Costs Duke Labor + Labor Loadings Construction of Cell 1 Fuel Engineering, QA/QC, PTO submittal Overheads Total Grand Total Cell 1 Duke Energy East Bend West Landfill Cell 2 Costs		Promet Bid Bid Estimate Bid, archeological services, and permitting Source	Includes common Items for all cells
Duke Energy East Bend West Landfill Cell 1 Costs Duke Labor + Labor Loadings Construction of Cell 1 Fuel Engineering, QA/QC, PTO submittal Overheads Total Grand Total Cell 1 Duke Energy East Bend West Landfill Cell 2 Costs Duke Labor + Labor Loadings		Promet Bid Bid Estimate Bid, archeological services, and permitting Source Used cell 1 estimate and scaled acreage	Includes common Items for all cells
Duke Energy East Bend West Landfill Cell 1 Costs Duke Labor + Labor Loadings Construction of Cell 1 Fuel Engineering, QA/QC, PTO submittal Overheads Total Grand Total Cell 1 Duke Energy East Bend West Landfill Cell 2 Costs Duke Labor + Labor Loadings Construction of Cell 2 Engineering, QA/QC, PTO submittal CCR Compliance Liner		Promet Bid Bid Estimate Bid, archeological services, and permitting Source Used cell 1 estimate and scaled acreage Used cell 1 estimate and scaled acreage	Includes common Items for all cells
Duke Energy East Bend West Landfill Cell 1 Costs Duke Labor + Labor Loadings Construction of Cell 1 Fuel Engineering, QA/QC, PTO submittal Overheads Total Grand Total Cell 1 Duke Energy East Bend West Landfill Cell 2 Costs Duke Labor + Labor Loadings Construction of Cell 2 Engineering, QA/QC, PTO submittal CCR Compliance Liner Fuel		Promet Bid Bid Estimate Bid, archeological services, and permitting Source Used cell 1 estimate and scaled acreage Used cell 1 estimate and scaled acreage Estimated	Includes common Items for all cells
Duke Energy East Bend West Landfill Cell 1 Costs Duke Labor + Labor Loadings Construction of Cell 1 Fuel Engineering, QA/QC, PTO submittal Overheads Total Grand Total Cell 1 Duke Energy East Bend West Landfill Cell 2 Costs Duke Labor + Labor Loadings Construction of Cell 2 Engineering, QA/QC, PTO submittal CCR Compliance Liner		Promet Bid Bid Estimate Bid, archeological services, and permitting Source Used cell 1 estimate and scaled acreage Used cell 1 estimate and scaled acreage Estimated Used cell 1 estimate and scaled acreage	Includes common Items for all cells

Duke Energy East Bend West Landfill Cell 3 Costs	Est. Cost	Source	Notes
Duke Labor + Labor Loadings		Used cell 1 estimate and scaled acreage	
Construction of Cell 3		Used cell 1 estimate and scaled acreage	
Engineering, QA/QC, PTO submittal		Estimated	
CCR Compliance Liner		Used cell 1 estimate and scaled acreage	
Fuel		Used cell 1 estimate and scaled acreage	
Overheads		7%	
Total Cell 3			
Duke Energy East Bend West Landfill Cell 4 Costs	Est. Cost	Source	Notes
Duke Labor + Labor Loadings		Used cell 1 estimate and scaled acreage	
Construction of Cell 4	\$	Used cell 1 estimate and scaled acreage	
Engineering, QA/QC, PTO submittal		Estimated	
CCR Compliance Liner	\$	Used cell 1 estimate and scaled acreage	
Haul Road Extension		Estimated	
Fuel		Used cell 1 estimate and scaled acreage	
Overheads		7%	
Total Cell 4			
Duke Energy East Bend West Landfill Cell 5 Costs	Est. Cost	Source	Notes
Duke Labor + Labor Loadings		Used cell 1 estimate and scaled acreage	
Construction of Cell 5		Used cell 1 estimate and scaled acreage	
Engineering, QA/QC, PTO submittal		Estimated	
CCR Compliance Liner		Used cell 1 estimate and scaled acreage	
Haul Road Extension		Estimated	
Fuel		Used cell 1 estimate and scaled acreage	
Overheads		7%	
Total Cell 5			
Duke Energy East Bend West Landfill Cell 6 Costs	Est. Cost	Source	Notes
Duke Labor + Labor Loadings		Used cell 1 estimate and scaled acreage	
Construction of Cell 6	\$	Used cell 1 estimate and scaled acreage	
Engineering, QA/QC, PTO submittal		Estimated	
Engineering, QA/QC, PTO submittal Fuel		Estimated Used cell 1 estimate and scaled acreage	
Fuel Overheads			
Fuel		Used cell 1 estimate and scaled acreage	

Est. Cost	Source	Notes
	Estimated	
	Estimated	Strip temporary cover, install drainage
	Estimated	
	Estimated	
	Estimated	
Est. Cost	Source	Notes
	Estimated	
	Estimated	Strip temporary cover, install drainage
	Estimated	
Est. Cost	Source	Notes
	Base on 2010 Belews Creek Landfill Cap	
	Estimated	
	Estimated	
	Est. Cost	Estimated

Grand Total All Cells	
Grand Total	

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COSTS

DUKE ENERGY-WEST LANDFILL HAUL ROAD

HAUL VEHICLE: CAT 740 BOONE COUNTY

STA. 10+00 TO STA. 75+00

LENGTH: 6,525 FT (1.231 MI)

OPTION 1 - FLEXIBLE PAVEMENT



ESTIMATED BY:

ITEM	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
1	CRUSHED STONE BASE (MAINLINE)	11,200	TON		
2	CRUSHED STONE BASE (SHOULDER)	2,600	TON		
3	ASPHALT BASE (MAINLINE)	28,500	TON		
4	ASPHALT BASE (SHOULDER)	6,800	TON		
5	ASPHALT SURFACE (MAINLINE)	4,800	TON		
6	ASPHALT SURFACE (SHOULDER)	1000	TON	The state of the s	
7	CULV PIPE-15 IN	160	LIN FT		
8	CULV PIPE-42 IN	80	LIN FT	Agamas a consistencia di mandan di proprio este el describito de este este el describito	
9	RCBC - 20'X4'	120	LIN FT		
10	PIPE CULV HEADWALL-15 IN	4	EACH	Application (CV-0) No. Control	
11	PIPE CULV HEADWALL-42 IN	2	EACH		
12	EMBANKMENT-IN-PLACE	38,000	CU YD		
13	DITCH EXCAVATION	10,000	CU YD		
14	STAKING	1	LP SUM		
15	SEEDING & PROTECTION	14,500	SQ YD		

SUBTOTAL

CONTINGENCIES (20%)

LP SUM



Proposal Form No. 1B - Bid Form, Two-Year Construction Schedule

West Landfill Cell No. 1 East Bend Station

Rev: 2 01/15/14

Bidder:

NO.	SPEC REF	DESCRIPTION	ENGINEER'S QUANTITY ESTIMATE	BIDDERS QUANTITY	UNITS	UNIT PRICE	BID PRICE
2.1	2	Mobilization	1		LS		
3.1	3	Clearing and Grubbing	25.1		AC		
3.1a	3	Future Clearing	8.3		AC		
3.2	3	Topsoil Stripping & Stockpiling	122		AC		
3.3	3	Excavation, Material to Stockpile	549,882		CY		
3.4	3	Excavation, Material Re-used	316,553		CY		
3.5	3	Structural Fill	267,230		CY		
3.6	3	Compacted Cohesive Soil	6,500		CY		
3.7	3	Sediment Pond Cover Soil	42,823		CY		
3.8	3	Ditch Cover (Topsoil Replaced)	17,814		CY		
4.1	4	Geocomposite Liner, Geosynthetic Clay Liner	2,478,718		SF		
4.2	4	Geocomposite Liner, Textured Geomembrane Liner	2,478,718		SF		
4.3	4	Geocomposite Liner, Nonwoven Geotextile	2,478,718		SF		
4.4	4	Turf Reinforcement Mat, Pemanent	410,961		SF		
4.5	4	Turf Reinforcement Mat, Temporary	267,769		SF		
5.1	5	Pipe, Leachate Laterals, HDPE ADS N-12, 8-in perforated	11,092		LF		
5.2		Pipe, Leachate Collectors, HDPE ADS N-12, 12-in perforated	3,213		LF		
5.3		Pipe, Leachate Outlet, HDPE ADS N-12, 12-inch non-perforated	23		LF		
6.1 6.2A		Drainage Layer, Aggregate	123,234		CY		
6.2B		Drainage Layer, Protective Cover, Pond Ash Drainage Layer, Protective Cover, West Landfill	123,234		CY		
7.1		Road, Type 2a	123,234		CY		
7.1		Road, Type 2a	6,950		LF		
7.3		Road, Type 4c	985 735		LF		
7.4		Road, Type 5	3,210	-	LF LF	_=	
8.1	8	Sediment Pond Inlet Channel	262		CY		
8.2		Concrete Run-Off Channel Outlet Apron and Splash Board	3		EA		
8.3		Box Culvert 1 and Headwalls, 12' x 4' x 218'	1	-	EA		
8.4		Box Culvert 2 and Headwalls, 4' x 2' x 91	1		EA		
8.5		Box Culvert 3 and Headwalls, 10' x 3 x 100'	1		EA		
8.6		Box Culvert 4 and Headwalls. 8' x 4' x 70'	1		EA		
8.7	_	Pipe Culvert 1 and Headwalls, concrete pipe, 24" dia x 91'	1		EA		
8.8		Service Road Pipe Culverts, Concrete Pipe, 12" diameter	4		EA		
8.9	8	Temporary Pipe Culverts, 24" Concrete Pipes	760		LF		
9.1	9	Wet Well and Cap	1		LS		
10.1		Pipeline to Ash Pond, 8-in HDPE Pipe, DR 17	4.010		LF		
10.2		Pipeline to Ash Pond, Cleanouts	4		EA		
10.3	10	Pipeline to Ash Pond, Air Release	3		EA		
10.4	10	Pipeline to Ash Pond, Blowout	1		EA		
11.1	11	Wet Well Inlet Pipe and Headwall, Ductile Iron, 24-in	85		LF		
12.1		Vegetative Cover	13		AC		
13.1	13	Sediment Pond Bench and Bottom Protection, No. 2 Stone	4,400		CY		
14.1	14	Sheet Pile Wall	1,687		SF		
15.1	15	Erosion and Sedimentation Control	1		LS		
16.1	16	Fence, Archaeological Area Protection	1,945		LF		

YEARLY COST			
2015	2016		
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TOTAL BID PRICE \$

Bid Price shall be Engineer's Estimated Quatity mulitplied by Unit Rate Bidders Quantity for informational and evaluation purposes

Staff Second Set Data Requests

Date Received: May 1, 2015

STAFF-DR-02-002

REQUEST:

Refer to Duke Kentucky's response to Staff's Initial Request, Item 12. Provide a detailed

description of the competitive bid process and the analysis that Duke Kentucky will

employ to screen the proposals received in response to those competitive bids.

RESPONSE:

The competitive bid process consists of the following:

1. The engineering drawings, scope documents, Duke Energy Kentucky Terms and

Conditions, construction safety requirements, and schedule (bid schedule and

construction schedule) are compiled into a bid package. The bid package is posted

on a website that Duke Energy Kentucky uses for posting bid events called

PowerAdvocate.

2. Duke Energy Kentucky compiles a list of bidders - the list consists of contractors

that meet Duke Energy Kentucky's safety requirements and are qualified to

complete the work in a cost effective manner.

The safety screening for the bidders consists of Duke Energy Kentucky's

Corporate Health and Safety Department examining the bidders' safety statistics,

including: fatalities, total incident case rate (TICR); and, experience modification

rating (EMR).

Determination of whether a bidder is qualified to complete the work, in a cost effective manner, is accomplished by examining each of the bidder's previously completed projects, references provided by the bidder, and past experience with Duke Energy Kentucky and other electric utilities.

Projects similar in size and scope to the landfill typically have 5-6 bidders in the bid event.

- 3. The bidders are given access to the bid package and a pre-bid meeting is held. The bidders are allowed to make requests for information (RFIs) at any time. Duke Energy Kentucky responds to all RFIs as quickly as possible and provides the answers to all of the bidders for any RFIs that are related to clarification of the scope of work or are technical in nature. Any RFIs related to construction strategy or resource/labor utilization are only answered for the bidder that submits the RFI. The pre-bid meeting is held to allow the bidders to see the site and ask any questions in person, anything that is discussed during the pre-bid is placed in a document and is posted on the PowerAdvocate website for all bidders to view.
- 4. The bidders are required to upload their bids, including their schedules, construction method plans, and pricing. The bidders are also required to include any exceptions to the terms and conditions, scope, and/or technical requirements. Duke Energy Kentucky also allows the contractors to propose alternate construction schedules or methods if they provide financial benefits.
- 5. Duke Energy Kentucky evaluates the bidders based on cost, schedule, and other pertinent information and selects the best evaluated bidder to execute the work.

The proposed landfill bid events would be bid on a cell-by-cell basis. Cell 1 and the common equipment are included in the same bid event. Cells 2-8 would be bid separately.

PERSON RESPONSIBLE: Nicholas R. Sellet/Thomas E. Wiest

Staff Second Set Data Requests

Date Received: May 1, 2015

STAFF-DR-02-003

REQUEST:

Refer to the Direct Testimony of Tammy Jett ("Jett Testimony"), page 14, regarding

anticipated modifications to the proposed West Landfill to be in compliance with the

Coal Combustion Residual ("CCR") rule. Provide an explanation as to the scope of the

detailed engineering evaluations that need to be done to fully assess the impact of the

CCR rule on the West Landfill and the timeline for those evaluations.

RESPONSE:

There are three major areas related to the new CCR rule which require detailed

engineering evaluations: 1) liner and cap design, 2) run-on and run-off controls; and 3)

fugitive dust control. The scope of the detailed engineering evaluations that need to be

done to fully assess the impact of the CCR rule on the West Landfill and the timeline for

those evaluations include the following:

1. An analysis must be completed on the differences in the current liner and cap

design versus the CCR rule required design. As previously stated, Cell 1 can be

constructed according to the current liner design if construction begins on Cell 1

by October 2015. A preliminary engineering analysis has been completed for the

liner design and is being finalized at this time. The cap design analysis is in

progress and should be completed within the next few weeks.

2. Specific run-on and run-off controls must be designed, constructed, operated and

maintained in order to assure compliance with the rule. The run-on control

system must prevent flow onto the active portion of the landfill during the peak

discharge from a 24-hour, 25-year storm. The run-off control system from the

active portion of the landfill must collect and control at least the water volume

resulting from a 24-hour, 25 year storm event. The current landfill design

addresses controlling stormwater, but an engineering assessment must be made to

determine if the current design addresses stormwater in the manner prescribed in

the CCR rule. It is expected that an engineering assessment regarding run-on and

run-off controls will be conducted in the next couple of months.

3. Measures must be adopted that will effectively minimize CCR from becoming

airborne at the landfill, including fugitive dust originating from the landfill itself.

roads, and other CCR management and material handling activities.

engineering analysis must be done to confirm that sufficient fugitive dust control

measures are in the design to meet the CCR rule requirements. A fugitive dust

control plan must be prepared specifically to meet the CCR rule by October 2015.

Therefore, the engineering analysis will be completed within the next few months

in order to allow for the preparation of the plan by the October deadline.

It is anticipated that any design changes required to meet the rule will be achievable.

PERSON RESPONSIBLE: Tammy Jett

Staff Second Set Data Requests

Date Received: May 1, 2015

STAFF-DR-02-004 PUBLIC

REQUEST:

Refer to the Jett Testimony, page 15, regarding the potential closure of the East Bend ash

pond. Has Duke Kentucky begun formal evaluations of the impact of the CCR rule?

a. If not, provide a detailed timeline for Duke Kentucky's evaluations of the impact

of the CCR rule.

b. If so, provide a detailed description of those evaluations, including a

determination of the likelihood of closure for the ash pond and when the closure

will potentially occur.

RESPONSE:

CONFIDENTIAL PROPRIETARY TRADE SECRET

This response will be made available to all parties in this matter upon the execution of a

confidentiality agreement.

PERSON RESPONSIBLE: Tammy Jett

Staff Second Set Data Requests

Date Received: May 1, 2015

STAFF-DR-02-005

REQUEST:

Refer to the Direct Testimony of William Don Wathen Jr., page 5, regarding the impact

on customer rates due to constructing the landfill.

a. Provide an estimate of the impact on an average residential customer's bill

assuming the full cost of the project is being recovered.

b. Provide all supporting documentation and schedules supporting the calculation.

RESPONSE:

a. As described on page 5 of the Direct Testimony of Nicholas Sellet, the estimated

construction cost of the facilities is projected to be \$159 million and the annual

O&M costs are projected to be \$3.5 million per year.

For purposes of simplifying the estimate, assume a levelized fixed charge

rate of 10% (includes rate of return per the last rate case, property taxes, and

depreciation over 30 years) and that all costs of the West Landfill are incremental

(i.e. there no corresponding reduction in current capital or O&M costs related to

closure and ceasing of operation of the existing East Landfill). Therefore, the

annual revenue requirement for the first phase would be approximately \$30

million (i.e., the cost of the first phase, Direct Testimony of Nicholas R. Sellet,

page 5) multiplied by the 10% levelized fixed charge rate plus the estimated \$3.5

million in annual O&M. If recovery began the day after operations began, the total estimated annual revenue requirement of the first phase would be approximately \$6.5 million (\$3 million in capital related costs plus \$3.5 million in O&M).

Mr. Sellet also testified, on page 5 of his Direct Testimony, that the annual cost of using a third party landfill, would be approximately \$42 million.

Assuming the costs are allocated on a per MWh basis (a reasonable assumption but one for which the Commission may consider alternatives), the Company's proposal would result in an average cost of approximately 0.163 cents/kWh or about \$1.63 per bill for a typical residential customer using 1,000 kWh/month. That compares to a rate of about 1.05 cents/kWh, or \$10.50 per bill for a typical customer, for the alternative option of using a third party landfill for waste disposal. (The rates are calculated by dividing the revenue requirement by 4 million MWhs, which is Duke Energy Kentucky's approximate total retail sales for 2014.)

In the most extreme case, assuming all of the estimated \$159 million of the total construction was spent all at once, rather than in the multiple stages described by the Company, the overall levelized revenue requirement would be approximately \$19.4 million (\$159 million times 10% levelized fixed charge rate plus \$3.4 million), which translates to approximately 0.485 cents/kWh or about \$4.85 per bill, still substantially below the cost of using a third-party landfill.

b. The cost estimates are provided in the Direct Testimony of Nicholas Sellet. The 10% levelized fixed charge rate is an assumption for illustration purposes. And, the 2014 retail sales are provided in page 301 of the Company's 2014 FERC Form.

PERSON RESPONSIBLE: William Don Wathen Jr.