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Before the PSC

Pertaining to Case 2019-00154

As I understand it Thermal overloads, aging infrastructure concerns wire the main reasons KPCO wanted to do the Hazard to Wooten project. According to Case 2019-00443 - AEP picks a project they want to do, AEP then submits it to PJM for approval. Then Ky power submits the case to PSC for approval.

During the <sup>case</sup> no. 2018-00209 - Enterprise Industrial park, The PSC order that Kypco could build the transmission line to the ind. park if Elerblu got the funds to build the factory to build batteries. Elerblu file bankruptcy and took a lot of peoples money they had invested. Guess what! Ky. power has come up with thermal and voltage violations in Case no. 2019-00443 page 71 so they might get to do the Enterprise Ind. park project. I think PJM would do anything KPCO ask for.

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Getting back to case 2019-00154 I believe why Kypco is almost doubling wire size on the transmission line doubling the size of the 161/138 KV transformer from 135MVA to 350MVA as see on page 69 of case 2019-00443 is to move more bulk electricity on this transmission line to TVA and Lgde. This will please PJM.

as we all know the system all ready in place is sufficient. We have not had any problems when all the mining and coal tipplers were operating. Since the population in East Ky is decreasing, mines still closing, people leaving to find work and yes most of the baby boomers will be dead in the next 20 yrs. The demand will never be like it was when all the coal mines were operating.

I ask PSC to deny Kypco case #2019-00154 because the Hazard substation is working just fine and I do not know of any outage because of the substation. I ask the PSC to deny this case because Kypco

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should only fix the violations on the transmission line.

The big question can Kypco customers afford all this debt. Kypco has come up with a lot of projects and will propose a lot of projects in the future. What are we going to do. These are some of the debt I know of:

Mitchell	\$550,000,000	550,000,000
		207,727,914
Big Sandy Rider		\$424,727,914
Rockport	50,000,000 + interest	
Rockport (E-g)		11,877,342
Case# 2019-00072	65 million WVEDA Bond	
	210,000,000 (general purposes)	
Solar farm in 2023	don't know	
Hazard-Wooten	16.9 million Trans. Lin	
	28 million Hazard & Wooten sub stations	
Cannonsburg		
East park 138KVA	22.4 million	
Boyd County Improvements		
Cadwick station Improvements		
John Creek & Stone		
Enterprise Ind. Park,		

I ask the PSC as a Ky power customer to get Kypco under control. I ask the PSC to stop letting Kypco over load

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it customers with debt so the can make huge profits. I ask PSC to put Kypco on pay as you go for projects, that means when Kypco customers get one project paid for then let Kypco start another project. By pay as you go Ky power could get all it projects done in a manageable and timely manner while making Kypco customers power bills more affordable

Case # 2014-00396 Take the big sandy Rider which started off at \$207,727,914 after 25 yrs totaled \$424,623,715. Payments<sup>ments</sup> were 16,960,949 yr on this loan with interest the first year was 13,574,166. Pay as you go would save Kypco customers a lot of money on projects. Interest saved would pay for projects. There got to be a better way of doing business.

Refer to "Exhibit 1" I think the construction, commissioning, Engineering estimates are excessive. First the substation is all ready built and in place. All they have to do is change out transformers, switches, Breakers as for a engineering - sub-substation is already in place - very little engineering and

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office work to do. as far as Commission in it shouldn't cost \$3,367,822 to to testing this new equipment and components to make sure they work properly and blend in and is compatible to PJM Transmission. It would not take that much time to do this. Engineering cost at wooten is also excessive because very little engineering is do here. I don't know is the components prices on these list are accurate science they are estimates. Ky power should get prices from vendors or suppliers to verify these estimates. Again Kypco is taking advantage of its customers and ripping them off.

Kentucky Power Company  
KPSC Case No. 2019-00154  
Commission Staff's 1st Set of Data Requests  
Dated September 16, 2019

**DATA REQUEST**

**KPSC 1\_9** Refer to the Wohnhas Testimony, page 8, lines 17-20, regarding the estimated cost of the proposed project. Provide an itemization for the cost of each component of the proposed project.

**RESPONSE**

See KPCO\_R\_KPSC\_1\_9\_Attachment1 for the estimated cost of the Hazard Station portion of the project.

See KPCO\_R\_KPSC\_1\_9\_Attachment2 for the estimated cost of the Wooton Station portion of the project.

Construction, engineering, and commissioning costs cannot be assigned to individual project components.

Witness: Ranie K. Wohnhas

Hazard Breakdown					
Exhibit 2 Online ID	Description	Estimate			
		Material	Construction	Commissioning	Engineering
1	Replacement of the 161kV circuit breaker pointing towards Wooton Station	\$ 116,143			
1	Replacement of devices for line protection and circuit breaker control associated with the 161kV Wooton Line position	\$ 129,934			
2	Installation of a 138kV breaker with relay control on the low side of the 161kV/138kV transformer	\$ 9,125			
2	Replacement of devices for transmission transformer protection associated with Transformer#3	\$ 77,548			
3	Installation of a new three phase 161kV / 138kV spare transformer	\$ 1,614,310			
7	Replacement of the motor operated air break switch and installation of a circuit switcher on the high side of Transformer#2	\$ 306,481			
7	Replacement of devices for transmission transformer protection associated with Transformer#2	\$ 43,056			
6	Replacement of devices for transmission transformer protection associated with Transformer#1	\$ 344,496			
19	Installation of coupling capacitor voltage transformers on 69kV Bus#1	\$ 123,894			
19	Replacement of coupling capacitor voltage transformers on 138kV Bus#2	\$ 37,753			
19	Replacement of devices for 138kV Bus#2 protection	\$ 111,168			
5	Replacement of 138kV capacitor bank and switcher BB	\$ 395,602			
5	Replacement of devices for capacitor bank and switcher BB protection and control	\$ 42,405			
8	Replacement of 69kV capacitor bank and switcher CC	\$ 228,426			
8	Replacement of devices for capacitor bank and switcher CC protection and control	\$ 36,405			
19	Installation of coupling capacitor voltage transformers on 69kV Bus#2	\$ 52,690			
13	Replacement of the motor operated air break switch and installation of a circuit switcher on the high side of Transformer#4	\$ 214,276			
13	Installation of a 34.5kV breaker with relay control on the low side of 138kV / 34.5kV Transformer#4	\$ 107,026			
13	Replacement of devices for transmission transformer protection associated with Transformer#4	\$ 61,424			
6	Replacement of existing 138kV/69kV Transformer#1	\$ 1,200,000			
6	Installation of a 69kV breaker with relay control on the low side of 138/69kV Transformer#1	\$ 153,417			
19	Installation of devices for 69kV Bus#1 protection	\$ 261,850			
7	Replacement of existing 138kV/69kV Transformer#2	\$ 1,200,000			
7	Installation of a 69kV breaker with relay control on the low side of 138/69kV Transformer#2	\$ 153,417			
19	Installation of devices for 69kV Bus#2 protection	\$ 180,000			
4	Replacement of devices for line protection and circuit breaker control associated with the 69kV Bonnyman#2 Line position	\$ 172,000			
9	Replacement of the 69kV circuit breaker pointing towards Daisy Station	\$ 105,115			

Hazard Breakdown					
Exhibit 2 Online ID	Description	Estimate			
		Material	Construction	Commissioning	Engineering
9	Replacement of devices for line protection and circuit breaker control associated with the 69kV Daisy line position	\$ 172,000			
10	Replacement of the 69kV circuit breaker pointing towards Leslie Station	\$ 105,115			
10	Replacement of devices for line protection and circuit breaker control associated with the 69kV Leslie Line position	\$ 98,000			
11	Replacement of the 69kV circuit breaker pointing towards Bonnyman Station via the number one circuit	\$ 105,115			
11	Replacement of devices for line pointing and circuit breaker control associated with the 69kV Bonnyman#1 line position	\$ 185,000			
12	Installation of a 69kV circuit breaker connecting 69kV Bus#1 and Bus#2	\$ 105,115			
14	Replacement of devices for line protection and circuit breaker control associated with the 34.5kV Blackgold line position	\$ 73,000			
15	Replacement of the 34.5kV circuit breaker towards Kenmont Station	\$ 120,000			
15	Replacement of devices for line protection and circuit breaker control associated with the 34.5kV Kenmont Line Position	\$ 95,000			
16	Replacement of devices for distribution transformer protection associated with Transformer#5	\$ 63,000			
17	Replacement of the 12kV circuit breaker serving Hazard	\$ 92,852			
17	Replacement of devices for feeder protection and circuit breaker control associated with the 12kV Hazard feeder position	\$ 32,000			
18	Replacement of the 12kV circuit breaker spare	\$ 72,000			
18	Replacement of devices for feeder protection and circuit breaker control associated with the 12kV spare feeder position	\$ 32,000			
20	Installation of a 138 kV breaker pointing towards Beckham station	\$ 120,000			
20	Replacement of devices for feeder protection and circuit breaker control associated with the 138 kV Beckham line position	\$ 129,934			
7	Replacement of the motor operated air break switch and installation of a circuit switcher on the high side of Transformer#1	\$ 306,481			
	Totals	\$ 9,384,573	\$ 6,724,685	\$ 3,367,822	\$ 5,592,910
					\$ 25,069,990



Wooton Station					
Exhibit Order	Description	Estimate			
		Material	Construction	Commissioning	Engineering
A	Installation of station class surge arresters attached to the upper beam of the existing 161kV box bay structure on the 161kV Hazard Line position	\$ 8,008			
B	Installation of two coupling capacitor voltage transformers on Phase 2 and Phase 3 of the 161kV bus;	\$ 80,000			
C	Installation of telecommunication fiber equipment	\$ 11,000			
	<b>Total</b>	\$ 99,008	\$ 43,500	\$ 20,500	\$ 158,124
					\$ 321,132