

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC APPLICATION OF KENTUCKY)	
POWER COMPANY FOR (1) A GENERAL)	
ADJUSTMENT OF ITS RATES FOR ELECTRIC)	
SERVICE; (2) APPROVAL OF TARIFFS AND)	
RIDERS; (3) APPROVAL OF ACCOUNTING)	CASE NO.
PRACTICES TO ESTABLISH REGULATORY)	2020-00174
ASSETS AND LIABILITIES; (4) APPROVAL OF A)	
CERTIFICATE OF PUBLIC CONVENIENCE AND)	
NECESSITY; AND (5) ALL OTHER REQUIRED)	
APPROVALS AND RELIEF)	

NOTICE OF FILING

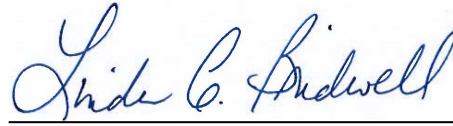
Notice is given to all parties that the following materials have been filed into the record of this proceeding:

- The digital video recording of the evidentiary hearing conducted on November 23, 2020 in this proceeding;
- Certification of the accuracy and correctness of the digital video recording;
- A written log listing, inter alia, the date and time of where each witness' testimony begins and ends on the digital video recording of the evidentiary hearing conducted on November 23, 2020.

A copy of this Notice, the certification of the digital video record, and hearing log have been served upon all persons listed at the end of this Notice. Parties desiring to view the digital video recording of the hearing may do so at <https://youtu.be/PgRVtV8UCnE>.

Parties wishing an annotated digital video recording may submit a written request by electronic mail to pscfilings@ky.gov. A minimal fee will be assessed for a copy of this recording.

Done at Frankfort, Kentucky, this 8th day of March 2021.

A handwritten signature in blue ink that reads "Linda C. Bridwell". The signature is written in a cursive style with a large initial 'L' and a distinct 'C'.

Linda C. Bridwell
Executive Director
Public Service Commission of Kentucky

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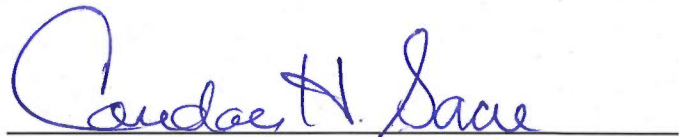
CASE NO.
2020-00174

CERTIFICATION

I, Candace H. Sacre, hereby certify that:

1. The attached DVD contains a digital recording of the Formal Hearing conducted in the above-styled proceeding on November 23, 2020. The Formal Hearing Log is included with the recording on November 23, 2020;
2. I am responsible for the preparation of the digital recording;
3. The digital recording accurately and correctly depicts the Formal Hearing of November 23, 2020; and
4. The Formal Hearing Log attached to this Certificate accurately and correctly states the events that occurred at the Formal Hearing of November 23, 2020, and the time at which each occurred.

Signed this 27th day of January, 2021.



Candace H. Sacre
Administrative Specialist III



Stephanie Schweighardt
Notary Public State at Large ID#: 614400
Commission Expires: January 14, 2023



Date:	Type:	Location:	Department:
11/23/2020	Public Hearing\Public Comments	Hearing Room 1	Public Hearing

Witness: Alex E. Vaughan
 Judge: Kent Chandler; Talina Mathews; Michael Schmitt
 Clerk: Candace Sacre

Event Time	Log Event
9:06:53 AM	Session Started
9:07:15 AM	Chairman Schmitt Note: Sacre, Candace
	Back on the record. Recessed Friday, Mr. Spenard, in midst of cross Vaughan?
9:07:23 AM	Camera Lock Deactivated
9:07:32 AM	Atty Spenard KYSEIA Note: Sacre, Candace
	Yes.
9:07:34 AM	Chairman Schmitt Note: Sacre, Candace
	Still have questions Vaughan?
9:07:39 AM	Atty Spenard KYSEIA Note: Sacre, Candace
	Yes.
9:07:42 AM	Chairman Schmitt Note: Sacre, Candace
	Ms. Blend, Vaughan ready take stand?
9:07:50 AM	Atty Blend Kentucky Power Note: Sacre, Candace
	Here, ready to resume.
9:07:53 AM	Chairman Schmitt Note: Sacre, Candace
	Remain under oath, continue cross examinatoin.
9:08:02 AM	Chairman Schmitt Note: Sacre, Candace
	Mr. Spenard, continue.
9:08:07 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace
	Cross Examination (cont'd). Difference average usage and peak usage residential?
9:08:48 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace
	Aggregating class, difference average usage class and peak usage class?
9:09:09 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace
	Aggregating customers class, difference between average usage class and peak usage class?
9:10:03 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace
	Peak associated with generation production?
9:10:45 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace
	Definition, peak period generation production corresponds highest generation production on system?
9:11:39 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace
	Why not?
9:12:15 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace
	Peak usage associated capacity in excess average usage associated capacity, increased cost of service customer class?
9:12:49 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace
	Observation above average that is peak?
9:13:42 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace
	Impact of peak, reflect increase in cost to serve customer class?

9:15:19 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Lower peak usage within class?

9:16:30 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace One period or long term?

9:18:15 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Cost of service change year to year and case to case?

9:18:31 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Test year, Kentucky Power time of use meters customers Net Metering Service I tariff?

9:19:02 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Test period, Kentucky Power support with demand study/load study customers taking service under the NMS I tariff?

9:20:09 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Kentucky Power study distributed generation delivery to NMS tariff customers when distributed generation delivery moving into Kentucky Power system compared to when system hitting peak?

9:22:33 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace NMS II tariff incentivize customers lower cost of service?

9:23:42 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Effective rate pay under proposed NMS II tariff?

9:25:12 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Proposed rollout AMI, how NMS II tariff affected?

9:26:01 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace AMI approved, provide KPC additional data customers receiving service under NMS II tariff?

9:26:31 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Pages 40-41, direct, economic development rider, EDR?

9:26:49 AM Atty Spenard KYSEIA
Note: Sacre, Candace Exhibit Application, Section 3, Volume1, Vaughan AEV-9, display. (Click on link for further comments.)

9:27:59 AM Camera Lock Video Conference Activated

9:28:13 AM Camera Lock Deactivated

9:28:46 AM Camera Lock Video Conference Activated

9:28:53 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Line 18, pg 40, reading. (Click on link for further comments.)

9:29:01 AM Camera Lock Deactivated

9:29:37 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Exhibit AEV-9, information relevant to discussion in direct?

9:30:37 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Contributing more fixed costs?

9:31:00 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Exhibit, marginal cost energy, \$417,131?

9:31:24 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Marginal cost distribution \$29,405?

9:32:00 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Incremental revenue listed \$978,909?

9:32:19 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Net revenue \$243,476 represent contribution to fixed cost of service?

9:33:17 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Portion associated fixed cost, amount greater than, equal to, lower company fixed cost of service otherwise pay in absence of EDR?

9:33:48 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Contribution fixed costs greater than, equal to, or lower cystiner otherwise pay absence of EDR?

9:35:33 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Exact opposite, EDR results subsidy?

9:36:42 AM Chairman Schmitt
Note: Sacre, Candace Stop a second, feedback. (Click on link for further comments.)

9:38:35 AM Chairman Schmitt
Note: Sacre, Candace Next question.

9:38:40 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Residential fixed charges, part of bill lots of elements?

9:39:13 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Focus on calculation associated fixed customer charge and variable energy charge?

9:39:34 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Bill residential customer fixed charge amount combined with variable associated energy used?

9:40:22 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Residential class Kentucky Power seeking increase both fixed and variable portion of bill?

9:40:59 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Rebuttal addresses fixed charges, pgs16 and 17?

9:41:25 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Rebuttal, reduction normalized residential usage same basic service charge increasing West Virginia and Kentucky?

9:43:07 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace AEP operations in Virginia?

9:43:19 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Post-hearing data request, Kentucky Power provide illustration for Virginia Power same format/time period AEV-R1 and AEV-R2?

9:44:31 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Post-hearing data request, appreciate explanation.

9:44:33 AM POST-HEARING DATA REQUEST
Note: Sacre, Candace ATTY SPENARD KYSEIA - WITNESS VAUGHAN
Note: Sacre, Candace ILLUSTRATION AEV-R1 AND AEV-R2 VIRGINIA POWER

9:44:51 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Energy efficiency reductions, change attributable progressively increasing appliance energy efficiency standards?

9:45:54 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Building codes impact energy efficiency reductions?

9:46:09 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Recall discussion caulking rebuttal?

9:46:26 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Caulking significant long-term investment energy efficiency?

9:47:17 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace More efficient HVAC unit one longer-term steps?

9:48:02 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace AEP study price elasticit demand among customers?

9:48:36 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Electric heating customers, rebuttal, pgs 19-20?

9:48:59 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace When Kentucky Power winter peaks?

9:50:02 AM Atty Spenard KYSEIA - witness Vaughan
Note: Sacre, Candace Percentage residential customers use electric heating?

9:50:27 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Kentucky Power no electric heating customers, impact peak loads winter peaks?
9:51:00 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Kentucky Power no electric heating customers, impact peak loads winter peaks?
9:51:21 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Not have electric heating customers, impact peak loads winter peaks, not quantify, whether effect?
9:52:02 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Change in design, lower higher no impact allocation costs residential class?
9:53:52 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Customers shift loads away from peak hours, what takes place, impact cost of service study?
9:55:46 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	NMS II tariff, market value long-term projection of value?
9:56:59 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Cost and revenues projections, NMS II tariff proposal, incorporate/attempt to capture change ratepayers decreased utility investments over time?
9:58:00 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	KPC base investments short-term market cost capacity or long-term costs various options load requirements?
9:59:14 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	KPC invest utility scale solar, earn solely PJM costs or earn fixed investment cost of resource?
10:00:37 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Energy prices fall, Kentucky Power return on investment utility scale solar return also fall?
10:01:17 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Kentucky Power capacity, sufficient throughout current integrated resource plan?
10:01:54 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Not in IRP case, does Kentucky Power IRP plan consider future carbon costs?
10:02:31 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Aware AEP vision future carbon costs?
10:03:44 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Customer-sited solar grows less under NMS II, Kentucky Power costs carbon emissions increase?
10:04:04 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Customer-sited solar grows less under NMS II proposal, Kentucky Power cost carbon emissions increase?
10:05:08 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Expert utility ratemaking, KPSC adopt common approach net metering same other facets of ratemaking?
10:06:08 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Kentucky Power allocate primary distribution cost based upon 12CP?
10:06:22 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Summer contributions peak load lower cost allocation to customer respective class?

10:07:28 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	NMS II contain price signal incentivize battery storage mitigate morning peaks residential class?
10:08:20 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Kentucky Power residential time of use tariffs, Schedule RS-TOD, accept on-peak period 7 AM until 9 PM weekdays?
10:09:07 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Daytime netting period under NMS II 8 AM to 6 PM weekdays?
10:09:22 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Daytime netting period entirely peak period weekdays?
10:09:37 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Daytime netting period NMS II on-peak period under RS-TOD?
10:11:00 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	RS-TOD 2 Nov 1 - Mar 31 on-peak period 7 AM until 10 AM and 6 PM to 10 PM?
10:12:11 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Summer period RS-TOD 2 May 15 to Sept 15 on-peak noon to 6 PM?
10:12:39 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Summer peak period noon to 6 PM time different on-peak December 1 to March 31 7 AM until 11 AM and 6 PM to 10 PM, different periods on-peak usage?
10:13:34 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Peak periods RS-TOD and RS-TOD 2, peak loads different levels system occur though seasonal peak single-hour issue?
10:14:22 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	NMS II tariff, billing month produced 200 kW hours daytime and used 100 kW available for export amount, have 100 kW hours daytime in bank netting periods?
10:16:32 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Netting period, generation available for use and not use available for export?
10:17:19 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	NMS II compensation rate, proposed compensation rate excess exported approximately four cents?
10:18:05 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Two netting periods during day, two 24-hour periods, two different periods?
10:18:54 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Two periods 24-hour cycle, customer ability shift load nondaytime period into daytime period?
10:20:11 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Customer incentive use additional on-peak power result most financial benefit?
10:21:09 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Customer utilize programmable thermostat HVAC?
10:22:07 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	NMS II customers 24-hour cycle two periods, daytime nondaytime?
10:22:23 AM	Atty Spenard KYSEIA - witness Vaughan Note: Sacre, Candace	Usage patterns, distinction between when customers use energy?
10:24:19 AM	Atty Spenard KYSEIA Note: Sacre, Candace	Finished.
10:25:11 AM	Chairman Schmitt Note: Sacre, Candace	Break until ten minutes until 11.
10:25:24 AM	Session Paused	

10:51:03 AM	Session Resumed	
10:51:14 AM	Chairman Schmitt	
	Note: Sacre, Candace	Back on the record. Witness and counsel present?
10:51:36 AM	Chairman Schmitt	
	Note: Sacre, Candace	Mr. Fitzgerald?
10:52:42 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	Cross Examination. Reduction bills, tax reform, reduction ends 2021?
10:54:13 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	Other companies, PSO, Ohio Power, Appalachian, AEP Texas, formal cost benefit analyses when requesting approval for AMI?
10:55:42 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	How many recovering costs base rate?
10:55:54 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	NMS II customer paid excess generation, Kentucky credit rather than payment not redeemable except usage?
10:56:35 AM	Camera Lock Deactivated	
10:56:38 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	Understand credit not able cashed out, credit against future usage, customer ceases credit stays with company?
10:57:16 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	Not cashed out, bill credit against usage?
10:57:34 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	Credit dollar denominated but not cash payment, prevailing law Kentucky require KPC limiting credits peak hours?
10:58:46 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	Seemed indicate prevailing law requires propose avoided cost as compensatory credit?
10:59:17 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	Two reasons avoided cost, law required, misunderstand?
10:59:57 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	Law not require avoided cost rate, decision of company?
11:00:26 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	How cost current generation AMR meters recovered from customers?
11:00:42 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	Meters fully paid?
11:01:04 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	How much customers paying month meters?
11:01:15 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	GMR, customers pay each year until recovery costs and return cost and return on investment recovered?
11:02:30 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	Year one, every year?
11:02:49 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	Compare cost recovery base rates rather than rider?
11:03:30 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	Look at comparative rate impact ratepayers, what have paid year one base rate?
11:04:28 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	KPC consider propose pilot program AMI interest/benefit to customers?
11:04:52 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan	
	Note: Sacre, Candace	Kentucky Power report energy usage separate from meter charge?

11:05:10 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Separate billed energy opposed meter charge?
11:05:27 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Time of day rates, voluntary tariff, TOD 2?
11:05:51 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Experimental residential service time of day tariff?
11:06:00 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Kentucky Power cost of service cost of power same all times all seasons?
11:06:20 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Customer leveled charge, cost producing/acquiring electricity for sale changes?
11:07:05 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Kentucky Power costs generating/acquiring higher during peak demand?
11:07:42 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Residential customers took service experimental time of day tariff test year?
11:08:00 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Roughly hundred, two hundred?
11:08:30 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Very popular program?
11:08:35 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	NMS I customer choose customer generator and opt in TOD rates?
11:09:11 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Be able under NMS II?
11:09:21 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Current voluntary TOD tariff available customers using AMR technology or install new meter use TOD rates?
11:10:08 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	AMR meter capable producing information peak/off-peak times?
11:10:31 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Customer on tariff get information on and off peak?
11:10:49 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Why person choose participate TOD program?
11:11:38 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Company benefit customers TOD program?
11:12:18 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Benefits participating in TOD to system baked into prices?
11:13:09 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Participating customers, discretionary load, paying when shift load paying as much fixed costs if used all energy on peak?
11:14:19 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Rates, break down components on-peak 15.7 cents kWh opposed off-peak 8.25 cents, differential, what floats between two rates?
11:15:36 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Rooftop solar energy systems, RS-TOD on-peak periods?
11:16:00 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Normally generate RS-TOD 2 on-peak periods?
11:16:20 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Compensation rate excess generation net metering, NMS II tariff account higher valued energy peak periods?
11:17:18 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Full crediting?

11:17:31 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace 30 or 40 net metering customers, residential and commercial?

11:18:15 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace 30 more in pipeline?

11:18:34 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace How many RS customers application not operational?

11:18:42 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace How many GS customers?

11:19:05 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Economic development/job creation important to Kentucky Power?

11:19:24 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Total financial impact nonparticipating customers crediting current net metering customers one to one?

11:20:19 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Not material, dispute suggestion impact one-to-one credit nonparticipating seven cents a year?

11:21:43 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Number for what is now negligible/minimal impact, priced out subsidy nonparticipating customers paying?

11:22:12 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Subsidy occurring, know what it is?

11:23:07 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Spread cost among residential class, analyzed cost nonparticipating customer subsidy?

11:23:28 AM Atty Fitzpatrick Joint Intervenors - witness Vaughan
Note: Sacre, Candace Humor me, made calculation?

11:23:35 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Why irrelevant amount required to pay?

11:25:13 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Quantified monthly or annual basis subsidy is nonparticipating customers paying net metering?

11:25:30 AM Atty Blend Kentucky Power
Note: Sacre, Candace Objection, asked and answered.

11:25:44 AM Atty Fitzgerald Joint Intervenors
Note: Sacre, Candace Not answered.

11:26:02 AM Atty Blend Kentucky Power
Note: Sacre, Candace Mr. Vaughan explained.

11:26:09 AM Chairman Schmitt
Note: Sacre, Candace Sustained.

11:26:17 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Statutory maximum cap of one percent?

11:26:31 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Calculated rate impact non-participating at one percent net metering?

11:27:27 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace In Kentucky, flexible cap to hard cap one percent?

11:27:44 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Indeterminate amount subsidy, higher or lower than \$3.48 nonparticipating customer pays support TEE?

11:28:05 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Targeted Energy Efficiency Program, higher or lower subsidy?

11:29:07 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Higher or lower than \$3.60 nonparticipating customers pay support low-income energy assistance programs?

11:29:21 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Commercial net metering, subsidy higher or lower than \$12 KPay program?

11:29:44 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Higher or lower than amount paid by commercial customers support program?

11:30:01 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Know under three programs company gets rate of return management?

11:31:05 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace What happens excess generation fed in system, resold by utility?

11:31:29 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Electricity net metering customer further local grid?

11:31:47 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Somebody else consuming?

11:31:57 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace How much line losses?

11:32:24 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Part not line loss, other customer consuming?

11:32:44 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Other customer getting electricity avoided cost or higher value?

11:33:45 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Other customer getting electricity same price compensated net meter customer?

11:34:37 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Credited value having distributed generation have local grid?

11:34:53 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Factored in value assigned net metered energy?

11:35:44 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Pg 25, rebuttal, solar energy commodity consisting of energy capacity and renewable attributes?

11:35:54 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Described company test year average capacity value distribution value residential \$515?

11:36:11 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Average system 8.84 kW?

11:36:19 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Producing 13,374 kWh energy?

11:36:27 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace 3.36 kW market capacity valued hourly PJM LMP and PJM RPM?

11:36:45 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Informative consider customer-invested generation to PJM given limited constructs localized small-capacity systems?

11:37:12 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Informative consider customer-invested generation commodity to PJM given limited constructs localized small-capacity systems?

11:38:09 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Pg 25 rebuttal appears energy and capacity considered solar total generation not kWh received grid?

11:38:39 AM Atty Fitzgerald Joint Intervenors - witness Vaughan
Note: Sacre, Candace Suggesting kWh generated by customer generators systems instantaneously used behind the meter viewed as a commodity at commodity value?

11:39:10 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	How square revenue meter demarcation point kWh become commodity PJM hourly LMP price?
11:40:12 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	KPay, justification \$12 annual existing customers fund economic development future customers?
11:41:22 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	TEE Program and funding mechanism?
11:41:40 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	TEE program LEAP and KPay common idea moral people helping people, seem have common element cost spread across entire customer class, benefits inure select number higher level than benefitting whole class?
11:43:38 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Seems Kentucky Power not have philosophical opposition subsidies within class provided value gained from it, why so obsessed prevent subsidy handful customers negligible impact remaining members?
11:44:25 AM	Atty Blend Kentucky Power Note: Sacre, Candace	Objection, argumentative, testifying.
11:44:35 AM	Chairman Schmitt Note: Sacre, Candace	Sustained.
11:44:49 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Mechanism of NMS II tariff, one-to-one credit?
11:45:28 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Grandfathered customers not stricken from law?
11:45:41 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Instantaneous tariff or nets over time as well?
11:46:25 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Still being netted over billing period?
11:46:46 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	NMS II requires customers redeem credits excess generation within same period generated?
11:47:34 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Credits carry forward month to month?
11:47:52 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Proposing excess generation not consumed same month extinguished?
11:49:26 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Generation exceeds usage, credit carries forwarded?
11:49:59 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Declining block rate proposal?
11:50:13 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Who eligible?
11:50:33 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Effect customer rate when reached level?
11:50:56 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Cuts party break cost electricity above level?
11:51:13 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Company projected how many customers benefit declining block rate?
11:51:32 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Calculated effect lower rate have customer above cutoff paying fair share fixed costs getting break overall rate?
11:52:34 AM	Atty Fitzgerald Joint Intervenor - witness Vaughan Note: Sacre, Candace	Where giving break?

11:52:56 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Customer energy efficient measures, using less electricity, under contributing recovery of fixed costs?
11:54:28 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Familiar with AMI initiative proposal?
11:54:40 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Imperial basis studies energy information on usage benefit to customers, low income?
11:55:39 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Familiar prepayment/split billing programs not use AMI?
11:56:12 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Familiar studies lower/fixed income customers Kentucky Power have elasticity in electricity demand, opportunities reduction usage?
11:57:04 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Residential Tariff RS not have demand charges/time of day charges unless voluntary tariff?
11:57:33 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Not proposing time of day rates under AMI initiative?
11:57:56 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Considered investment comparable cost AMI in weatherization, radiant heat, other measures use less allowing customers lower cost?
11:59:30 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Aware all EA programs eliminated other than KPay?
11:59:52 AM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Cost benefit analysis not performed, benefits not quantifiable, reliability and cost savings sufficient to support AMI, how Commission assured benefits exceed costs?
12:01:28 PM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Other alternative AMI technology?
12:01:48 PM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	AMI in place upgrade and replace as well?
12:01:55 PM	Atty Blend Kentucky Power Note: Sacre, Candace	Object, outside scope.
12:02:15 PM	Chairman Schmitt Note: Sacre, Candace	How much longer?
12:02:19 PM	Atty Fitzgerald Joint Intervenors Note: Sacre, Candace	Last question.
12:02:36 PM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Blankenship testimony high-cost alternative AMR with SCM-PlusPlus and upgrade to AMI?
12:02:58 PM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Useful life AMR SCM-Plus?
12:03:25 PM	Atty Fitzgerald Joint Intervenors - witness Vaughan Note: Sacre, Candace	Some point, replaced, too?
12:03:37 PM	Atty Fitzgerald Joint Intervenors Note: Sacre, Candace	Thank you.
12:03:55 PM	Chairman Schmitt Note: Sacre, Candace	Recess 1 p.m.
12:04:10 PM	Session Paused	
1:03:57 PM	Session Resumed	
1:04:01 PM	Chairman Schmitt Note: Sacre, Candace	Back on the record. Mr. Miller?
1:05:31 PM	Camera Lock Deactivated	

1:06:07 PM	Chairman Schmitt Note: Sacre, Candace	Mr. Miller?
1:06:12 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	Cross Examination. Confirm, if and when carbon pricing, company need recalculate net metering tariff distributed generation customers that point?
1:08:08 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	Cap new net metering customers generating capacity one percent of company single hour peak load, mandatory cap or utility choose offer net metering beyond that cap?
1:09:15 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	Design tariff or plan/consider company offerings one percent cap not imposed, differences for tariff?
1:10:36 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	Why one percent cap imposed, permitted by statute, affirmative reason makes more sense for company?
1:11:00 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	Nonmandatory cap, reasons why company choosing impose cap?
1:12:18 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	When Commission approves/institutes new net metering tariff under statute, still be subsidization occurring end case, still not be indifferent Commission approves new rate?
1:14:38 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	Company taking into account customers ability pay as well as AEP carbon goals, rates should reflect these?
1:15:34 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	Jobs, customer ability to pay, public interest, EDR rider only mechanism taking into account customer ability to pay?
1:16:15 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	McKenzie rate of return, discussion whether testimony crunched numbers indifferent to considerations Commission may take into account customers ability to pay, take into account?
1:17:27 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	In rate design, before getting to EDR rider, cost of service analysis and rate and tariff proposed based upon that, based on cold math about classes and shares and subsidies and not public interest considerations, ability to pay?
1:20:23 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	Local economic impact, challenges for class of customers, standard tariff in chief for residential customers not factor in but other programs come in local economic situation?
1:22:52 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	Company/parent company concerns public health or climate, goals, move away from fossil-based generation, get built into rate design?
1:25:55 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	Public health, climate not quantifiable cost of service?
1:26:21 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	Affordability, economic development, job creation/maintenance not quantifiable either?
1:27:25 PM	Atty Miller Sierra Club - witness Vaughan Note: Sacre, Candace	Quantifiable additional retention/loss of customers included, not quantifiable, certainly compelling, general hardship among population, impact on customer base, job loss?
1:28:19 PM	Atty Miller Sierra Club Note: Sacre, Candace	All have.

1:28:27 PM	Chairman Schmitt Note: Sacre, Candace	Mr. Frye?
1:28:30 PM	Atty Frye SWVA Note: Sacre, Candace	No.
1:28:32 PM	Chairman Schmitt Note: Sacre, Candace	Vice Chairman Chandler?
1:28:38 PM	Vice Chairman Chandler Note: Sacre, Candace	Yes.
1:28:54 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Examination. Remember Whitney testimony OPEB/pension prepayments included cost of service?
1:29:49 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Prepayment existence when company filed 2017 rate case?
1:30:08 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Whitney said in existence in 2017, considered, pension and OPEB, in capitalization not reflected rate base?
1:31:09 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Pension noted as component rate base but OPEB not?
1:31:24 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan How rate base/capitalization reconciled 2017 OPEB not identified rate base component?
1:31:56 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Why not OPEB noted as difference between two?
1:32:41 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Pension prepayments included discrete rate base item?
1:33:07 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Only change Dec 8 cost company incurs UPA, reduction \$57.4 million expenses Account 5550027?
1:34:23 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Commission does nothing, \$57.4 million reduction test year expense no longer incur?
1:35:05 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Not earning authorized ROE, following calendar year or 2022 related to?
1:35:23 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Not speak to 23 days continue recover amount through rates, 23 out of 365 rate, not incur expense 2022?
1:36:34 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Savings of \$57.4 million calendar year 2023 used earn authorized ROE, \$20 million, excess through tariff PPA?
1:37:44 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan How calculate earned ROE between rate cases?
1:38:24 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Denied cost recovery EEI dues, 2023 incurs entirety EEI dues, company calculating ROE, assuming amounts denied recovery from Commission or include in calculation?
1:39:59 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan 2023 immaterial if Commission denied, only what company incurred in terms of cost?
1:40:19 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Five percent number company actual earned ROE?
1:40:35 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Company calculate on cost incurred or costs allowed by PSC?

1:41:07 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Important distinction, Commission denies some cost, continues incur, continue calculate actual earned ROE including cost in calculation?
1:41:52 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Agree disconnect?
1:42:59 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Mattison testimony company earned, incurring expenses Commission found unreasonable in rates?
1:43:31 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Nothing last settlement removed test year expenses company continuing to spend?
1:43:56 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Removed from rate recovery?
1:44:04 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Commission determined rates calculated not including specific expenses?
1:44:42 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan This case, Commission decides company not recover expenses mow lawn, \$50,000, unreasonable, continue to incur, Commission denied for rate recovery?
1:45:22 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Company calculates gap basis earned ROE, taking out \$50,000 or rates insufficient because denied recovery?
1:46:09 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Kentucky Power says cannot meet ROE, not removing costs Commission denied recovery?
1:46:33 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Unaware expenses last rate case removed pursuant to settlement?
1:46:55 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Costs not being included in determination revenue requirement?
1:47:13 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Company continued to incur, not reflected approved revenue requirement?
1:47:32 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Five-something ROE, incurring costs explicitly not included most recent revenue requirements, not reflected in rates, disconnect?
1:48:41 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan How company between rate cases determines earned ROE, relates back to approved rates?
1:49:17 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Figuring out how calculated in interim, what taken into account?
1:49:35 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Aware company proposed deferral storm expenses 2020?
1:49:50 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Defer storm expenses, expenses until Commission grants deferral?
1:50:14 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Expenses on books, drag on ROE, order deferring change calculation year-end basis?
1:50:45 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Electricity sales in other states, why Kentucky Power incur sales expense sales electricity Michigan and Illinois?
1:52:17 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Specific to Kentucky Power?

1:52:23 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Provide billing from PJM?
1:52:46 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Sales tax includable in Kentucky Power energy bids at PJM, cost-based bids?
1:53:07 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Income taxes based on sales includable cost-based offers PJM?
1:53:46 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Post-hearing data request, somebody provide?
1:53:47 PM	POST-HEARING DATA REQUEST	
	Note: Sacre, Candace	VICE CHAIRMAN CHANDLER - WITNESS VAUGHAN
	Note: Sacre, Candace	TAXES INCLUDED IN KPC ENERGY BIDS AT PJM
1:54:08 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Wiseman and West data responses 2020-00085 customers on-time pay percentage 2020 compared '17, '18, '19 averages?
1:54:41 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Commission general docket on COVID, on-time pay percentage each class past three calendar years and each month 2020, conversation Wiseman and West?
1:55:08 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Late fee, incent or disinent late payments, change customer behavior, and reflect cost past due receivables?
1:55:53 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	What company do, generally, accounts receivables?
1:57:00 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Cost already accounted revenue requirement absent late payment fee revenue?
1:57:42 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Support amount proposed tariffs late payment fee and how relate to cost account receivables?
1:58:43 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Chart West rebuttal, Table R-3, amortization excess unprotected excess ADIT revenue requirement basis, other basis, two amounts, represent exact same transaction?
2:00:08 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	\$48 million top part chart?
2:00:30 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	\$113 million excess ADIT?
2:00:54 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Revenue requirement impact of ADIT, greater impact on revenue requirement than books basis?
2:01:57 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Fitzgerald kilowatt hours back on grid from net metering customer producing in excess of demand?
2:02:21 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	That kilowatt hour serve someone else netting company load?
2:02:54 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Generating customers, load same as another homogenous customer?
2:04:28 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Why care underlying load shape?
2:04:54 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Two different things, producing behind meter extent demand, production in excess demand, distinct issues?

2:05:30 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Most customers one meter, solar system, never energy back system, produced own demand, company meter see load profile different class average?
2:06:58 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Avoiding average class customer, treat identically, low end class average, lower demand class average?
2:08:23 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Company look at customer ultimate usage v demanded load from company, what group placed in cost of service purposes?
2:10:11 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan When company look actual usage v demanded load from company?
2:10:34 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Generating behind meter, never exporting, to meet own demand, in what other venue cost of service look end usage of customer instead load demand at meter?
2:13:24 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Residential customer, a home regardless of usage pattern?
2:14:17 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Accounts receivable, pg 6, rebuttal, reading. (Click on link for further comments), why?
2:16:06 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Direct testimony, pg 24, two time of use periods?
2:16:43 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Net negative energy and net positive billing energy and demand?
2:17:00 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Net negative energy when customer produces more demand/export?
2:17:50 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Customer net metering system, enough energy to offset demand any given hour, fuel neutral, never exports, customer bill be customer charge?
2:18:56 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan No kilowatt hours from company?
2:19:16 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Pg 25, direct, average calculation, reading. (Click on link for further comments), see that?
2:19:50 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan 783 NNE that period?
2:20:30 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan What is 639?
2:21:29 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Carried forward credit of 144 kWh next month?
2:22:40 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Proposed kilowatt hour compensation rate applies both on and off peak periods?
2:24:01 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Discounting it, entirety net generation 8 and 6, discounts, majority/all energy provided on peak energy to company?
2:24:41 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Reflective of weekend?
2:25:07 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Data set used on peak?
2:25:35 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Weekday 8 am to 6 pm certain time?

2:26:20 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Capacity, how calculate production basis avoided capacity rate?
2:27:52 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Why appropriate capacity value when production value considerably more?
2:28:15 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Capacity deficient in two years?
2:28:34 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Capacity rate used?
2:30:00 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Imbedded cost?
2:30:13 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Future capacity deficit?
2:30:56 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	DSM programs, ignore incremental 1.5 mW capacity reductions at reduced value, only incremental, instead of avoiding entire purchases or capacity additions?
2:32:36 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Load duration study distributed generation, in excess capacity value to it coincident with PJM 5-CP drives FRR plan?
2:33:33 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Based coincident value, capacity value \$100 megawatt a day?
2:34:21 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Aware minimum size study used cost of service studies distribution plant?
2:34:40 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	What basis minimum system study?
2:37:00 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Kw or kV?
2:37:02 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Avoided distribution cost, company decisions, minimum practical system, inherent complication calculating figures?
2:37:16 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Marginal costing conversations and imbedded costing conversations, avoided distribution costs, company decisions minimum practical system, create inherent complication?
2:39:42 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Distinction marginal costing and imbedded cost of service studies, utility planning, costing studies drive expenses or practical expenses drive cost of service studies?
2:40:22 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Agree cost of service study attempt put on paper interaction already done or anticipated be done?
2:40:51 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Marginal cost study, putting on paper what actual practice is going to be or already been?
2:42:05 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	EV proposal, direct at 19, reading. (Click on link for further comments), where provide support indicate case, fixed-cost savings other customers person paying meter charge?
2:43:07 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Savings demand related cost of service purposes?

2:43:37 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Reading. (Click on link for further comments), disconnect cost of meter and fixed cost savings on peak/off peak usage demand related?
2:45:14 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Revenues being allocated cost of service study to production, transmission, and distribution costs on demand basis?
2:45:46 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Increasing customer related costs entire class?
2:46:16 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan DRS, behind meter, reduce demand, FRR lower and lower, demand for PJM 5-CP lower?
2:49:07 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Blankenship AMR meters obsolete, fully depreciated?
2:49:35 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Post-hearing data request depreciation on current meters, provide?
2:49:36 PM	POST-HEARING DATA REQUEST Note: Sacre, Candace Note: Sacre, Candace	VICE CHAIRMAN CHANDLER - WITNESS VAUGHAN DEPRECIATION ON CURRENT AMR METERS
2:49:58 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Response Staff DR 6-7, test year, company finance purchases short-term debt?
2:51:30 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Specific allocation, could provide post-hearing data request?
2:51:31 PM	POST-HEARING DATA REQUEST Note: Sacre, Candace Note: Sacre, Candace	VICE CHAIRMAN CHANDLER - WITNESS VAUGHAN COST ALLOCATION FINANCING PURCHASES SHORT-TERM DEBT
2:51:45 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Costs allocated financing particular year/during test year?
2:52:04 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Answer indicate part overall financing, everything at WACC?
2:53:33 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Company not earn non-jurisdictional portions revenue requirement, company not earning ROE, calculated GAAP earnings or jurisdictional basis?
2:54:24 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Current month-in numbers, taken into account?
2:54:54 PM	Vice Chairman Chandler Note: Sacre, Candace	Can take break.
2:54:57 PM	Chairman Schmitt Note: Sacre, Candace	Recess until ten minutes after 3 o'clock.
2:55:07 PM	Session Paused	
3:15:55 PM	Session Resumed	
3:16:02 PM	Chairman Schmitt Note: Sacre, Candace	Back on the record, procedural discussion. (Click on link for further comments.)
3:17:52 PM	Session Paused	
3:17:59 PM	Session Resumed	
3:18:05 PM	Session Paused	
3:20:28 PM	Session Resumed	
3:23:24 PM	Chairman Schmitt Note: Sacre, Candace	Vice Chairman?
3:23:29 PM	Vice Chairman Chandler Note: Sacre, Candace	Yes,

3:23:45 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Examination (cont'd). Post-hearing data request, KPSC 4-72, Attachment 1, calculation EV information, Excel couple of lines, no narrative, assumptions for calculations able provide?
3:25:05 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	1-65, curve using, depreciable life or net book account?
3:25:41 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Actual net book value 1-65?
3:25:51 PM	Vice Chairman Chandler	
	Note: Sacre, Candace	Bring up Kentucky Power Response Staff 7-2?
3:26:45 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Seen document?
3:26:55 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Data set indicating bills Kentucky Power residential customers for April '19 until now?
3:27:27 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Post-hearing data request, run with X axis, distribution 100kW increments, 2000 500 kW increments?
3:27:28 PM	POST-HEARING DATA REQUEST	
	Note: Sacre, Candace	VICE CHAIRMAN CHANDLER - WITNESS VAUGHAN
	Note: Sacre, Candace	KENTUCKY POWER RESPONSE STAFF 7-2 RUN WITH ADDITIONAL PARAMETERS
3:28:01 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Messes up bell curve?
3:28:15 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Makes look real noisy, increments?
3:29:08 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Average usage 1,239 kWh a month?
3:29:30 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Last case, around same?
3:29:41 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Highest number bills distribution of 100 kWh increments 800-900 kilowatt hours per month?
3:30:27 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Average 1,240, company concerned number observations in excess average residential bill usage?
3:32:00 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	DRS, load and DRs, behind the meter generation, EV and DRS, proposals change behavior, costs in asking offset customers response?
3:33:20 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Costs on distribution system driven winter peak and demands residential/commercial customers on system?
3:34:05 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Observations in excess of 2,000, 2,500 a year, April to September, 16 months, 20,000 bills?
3:35:33 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Not insignificant number of bills?
3:36:00 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	2500 to 3,000 kWh a month, December January February, 17,000 18,000 observations individual months?
3:36:27 PM	Vice Chairman Chandler - witness	Vaughan
	Note: Sacre, Candace	Things company can do, why propose declining block schedule instead addresses those customers have demand drive costs?

3:39:19 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	Observation January 2020 18,559 observations 2000 and 2500?
3:39:33 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	Assume weighted bottom ranged, average 2200, filled bell curve, pulled low range, less observations as grow, know from data?
3:40:04 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	Residential kilowatt hour charged proposed, first block?
3:41:15 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	6.265 and ordinary is 12.265?
3:41:31 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	When does winter block kick in?
3:41:40 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	Average customer, under current, \$269.00 volumetric bill?
3:42:15 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	2200 kWh a month, average, in winter non-block schedule pay 12.265 cents?
3:42:44 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	What be without block rate?
3:43:10 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	\$66 reduction on \$260 original bill?
3:43:35 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	\$800 bill and can't afford, what good is \$500 bill if you can't afford \$500 bill?
3:44:33 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	Heating load discretionary, nondiscretionary?
3:45:29 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	Here, proposing not change behavior, what company do help people use less electricity extreme situations?
3:47:22 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	Agree extreme usage patterns in winter drive costs customers as whole, distribution for instance?
3:49:22 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	Benefit declining block rate for lower income customers?
3:49:37 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	Benefit to lower income customers, usage for LIHEAP customers?
3:50:26 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	Staff 7-1 correlation between income and usage?
3:50:43 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	LIHEAP customers representative low income customers as whole?
3:51:04 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	Asked to compare company data to census information, unable?
3:51:42 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	Web site provided, 10,000 observations at a time?
3:52:02 PM	Vice Chairman Chandler - witness Vaughan Note: Sacre, Candace	Company's conclusion lower income customers use more electricity based exclusively LIHEAP data?
3:52:52 PM	Vice Chairman Chandler Note: Sacre, Candace	Move to confidential session.
3:54:59 PM	Chairman Schmitt Note: Sacre, Candace	Tech problem prohibits confidential session, wait and do that, move on.
3:55:41 PM	Vice Chairman Chandler Note: Sacre, Candace	Believe can ask, Vaughan has document, ask all on nonconfidential because not actual numbers.

3:56:07 PM	Chairman Schmitt Note: Sacre, Candace	Try do that.
3:56:18 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Have/get company response Company Confidential Response 5-6?
3:57:11 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Tabs at bottom, just talk summary page.
3:57:21 PM	Atty Blend Kentucky Power Note: Sacre, Candace	Pulling up document electronically, let you know once pulled up.
3:57:57 PM	Atty Blend Kentucky Power Note: Sacre, Candace	While pulling up, confidentiality, reservations YouTube stream.
3:58:34 PM	Chairman Schmitt Note: Sacre, Candace	Up to Vice Chairman, Mr. Vaughan, and Ms. Blend, close to issue think something might be revealed, will stop immediately, wait to see if system fixed, will not compromise confidentiality. (Click on link for further comments.)
4:00:02 PM	Vice Chairman Chandler Note: Sacre, Candace	Rows on left, seven classifications, no numbers, confidential?
4:01:00 PM	Asst Gen Counsel Vinsel PSC Note: Sacre, Candace	Couple options. (Click on link for further comments.)
4:02:18 PM	Chairman Schmitt Note: Sacre, Candace	Recess until 12 minutes after 4.
4:02:28 PM	Session Paused	
4:16:23 PM	Session Resumed	
4:16:30 PM	Chairman Schmitt Note: Sacre, Candace	Back on the record, system fixed. (Click on link for further comments.)
4:16:39 PM	Camera Lock Deactivated	
4:17:21 PM	Atty Frye SWVA	
4:17:42 PM	Private Mode Activated	
4:17:42 PM	Private Recording Activated	
4:47:00 PM	Normal Mode Activated	
4:47:00 PM	Public Recording Activated	
4:47:05 PM	Chairman Schmitt Note: Sacre, Candace	Back public session.
4:47:07 PM	Chairman Schmitt Note: Sacre, Candace	Dr. Mathews?
4:47:11 PM	Vice Chairman Chandler Note: Sacre, Candace	Have one.
4:47:19 PM	Chairman Schmitt Note: Sacre, Candace	Go ahead.
4:47:21 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Examination. Weather normalization adjustment made test year adjustment?
4:47:32 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan Basis, offered in past, done other states, previous cases, weather normalization adjustment?
4:49:44 PM	Vice Chairman Chandler - witness Note: Sacre, Candace	Vaughan What \$1.2 and \$4.2 million?
4:50:31 PM	Vice Chairman Chandler Note: Sacre, Candace	Thanks.
4:50:34 PM	Chairman Schmitt Note: Sacre, Candace	Commissioner Mathews?
4:50:40 PM	Commissioner Mathews Note: Sacre, Candace	No.

4:50:48 PM	Chairman Schmitt Note: Sacre, Candace	Ms. Blend, redirect?
4:50:55 PM	Atty Blend Kentucky Power Note: Sacre, Candace	Correct.
4:50:57 PM	Chairman Schmitt Note: Sacre, Candace	Client on stand all day today, recess back in morning or go foward now?
4:51:20 PM	Atty Blend Kentucky Power Note: Sacre, Candace	Tomorr morning.
4:51:27 PM	Chairman Schmitt Note: Sacre, Candace	Recess until 9 a.m.
4:51:45 PM	Session Ended	

*Angela M Goad
Assistant Attorney General
Office of the Attorney General Office of Rate
700 Capitol Avenue
Suite 20
Frankfort, KENTUCKY 40601-8204

*Honorable David Edward Spenard
Strobo Barkley PLLC
239 South 5th Street
Ste 917
Louisville, KENTUCKY 40202

*Katie M Glass
Stites & Harbison
421 West Main Street
P. O. Box 634
Frankfort, KENTUCKY 40602-0634

*Barry Alan Naum
Spilman Thomas & Battle, PLLC
1100 Brent Creek Blvd., Suite 101
Mechanicsburg, PENNSYLVANIA 17050

*Thomas J FitzGerald
Counsel & Director
Kentucky Resources Council, Inc.
Post Office Box 1070
Frankfort, KENTUCKY 40602

*Lisa A. Lucas
Administrative Assistant
Jenkins Fenstermaker, PLLC
325 Eighth Street
Huntington, WEST VIRGINIA 25701

*Clay A. Barkley
Strobo Barkley PLLC
239 South 5th Street
Ste 917
Louisville, KENTUCKY 40202

*Hector Garcia-Santana
American Electric Power Service Corporation
1 Riverside Plaza, 29th Floor
Post Office Box 16631
Columbus, OHIO 43216

*Larry Cook
Assistant Attorney General
Office of the Attorney General Office of Rate
700 Capitol Avenue
Suite 20
Frankfort, KENTUCKY 40601-8204

*Carrie H Grundmann
Spilman Thomas & Battle, PLLC
110 Oakwood Drive, Suite 500
Winston-Salem, NORTH CAROLINA 27103

*Jody Kyler Cohn
Boehm, Kurtz & Lowry
36 East Seventh Street
Suite 1510
Cincinnati, OHIO 45202

*Michael A Frye
Honorable
Jenkins Fenstermaker, PLLC
325 Eighth Street
Huntington, WEST VIRGINIA 25701

*Joe F Childers
Joe F. Childers & Associates
300 Lexington Building
201 West Short Street
Lexington, KENTUCKY 40507

*John Horne
Office of the Attorney General Office of Rate
700 Capitol Avenue
Suite 20
Frankfort, KENTUCKY 40601-8204

*Matt Partymiller
President
Kentucky Solar Industries Association
1038 Brentwood Court
Suite B
Lexington, KENTUCKY 40511

*Christen M Blend
American Electric Power Service Corporation
1 Riverside Plaza, 29th Floor
Post Office Box 16631
Columbus, OHIO 43216

*Honorable Kurt J Boehm
Attorney at Law
Boehm, Kurtz & Lowry
36 East Seventh Street
Suite 1510
Cincinnati, OHIO 45202

*Matthew Miller
Sierra Club
50 F Street, NW, Eighth Floor
Washington, DISTRICT OF COLUMBIA 20001

*Don C Parker
Spilman Thomas & Battle, PLLC
300 Kanawha Blvd, East
Charleston, WEST VIRGINIA 25301

*Kentucky Power Company
1645 Winchester Avenue
Ashland, KY 41101

*J. Michael West
Office of the Attorney General Office of Rate
700 Capitol Avenue
Suite 20
Frankfort, KENTUCKY 40601-8204

*Honorable Michael L Kurtz
Attorney at Law
Boehm, Kurtz & Lowry
36 East Seventh Street
Suite 1510
Cincinnati, OHIO 45202

*Honorable Mark R Overstreet
Attorney at Law
Stites & Harbison
421 West Main Street
P. O. Box 634
Frankfort, KENTUCKY 40602-0634

*Robert D. Gladman
American Electric Power Service Corporation
1 Riverside Plaza, 29th Floor
Post Office Box 16631
Columbus, OHIO 43216

*Randal A. Strobo
Strobo Barkley PLLC
239 South 5th Street
Ste 917
Louisville, KENTUCKY 40202

*Tanner Wolfram
American Electric Power Service Corporation
1 Riverside Plaza, 29th Floor
Post Office Box 16631
Columbus, OHIO 43216