COMMONWEALTH OF KENTUCKY

BEFORE THE KENTUCKY PUBLIC SERVICE COMMISSION

In the Matter of:	_)
ELECTRONIC APPLICATION OF)
KENTUCKY UTILITIES COMPANY FOR AN)
ADJUSTMENT OF ITS ELECTRIC RATES, A)
CERTIFICATE OF PUBLIC CONVENIENCE)
AND NECESSITY TO DEPLOY ADVANCED)
METERING INFRASTRUCTURE,)
APPROVAL OF CERTAIN REGULATORY)
AND ACCOUNTING TREATMENTS, AND)
ESTABLISHMENT OF A ONE-YEAR)
SURCREDIT)

Case No. 2020-00349

Direct Testimony of Justin Bieber

on behalf of

The Kroger Co.

March 5, 2021

1		Direct Testimony of Justin Bieber
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3	<u>Intro</u>	<u>oduction</u>
4	Q.	Please state your name and business address.
5	A.	My name is Justin Bieber. My business address is 111 E Broadway, Suite
6		1200, Salt Lake City, Utah, 84111.
7	Q.	By whom are you employed and in what capacity?
8	A.	I am a Senior Consultant for Energy Strategies, LLC. Energy Strategies is
9		a private consulting firm specializing in economic and policy analysis applicable to
10		energy production, transportation, and consumption.
11	Q.	On whose behalf are you testifying in this proceeding?
12	A.	My testimony is being sponsored by The Kroger Co. ("Kroger"). Kroger is
13		one of the largest retail grocers in the United States and operates over 30 stores and
14		other facilities in the territory served by Kentucky Utilities Company ("KU" or the
15		"Company"). Combined, Kroger facilities purchase more than 90 million kWh
16		annually from KU.
17	Q.	Please describe your professional experience and qualifications.
18	A.	My academic background is in business and engineering. I earned a
19		Bachelor of Science in Mechanical Engineering from Duke University in 2006 and
20		a Master of Business Administration from the University of Southern California in
21		2012. I am also a registered Professional Civil Engineer in the state of California.
22		I joined Energy Strategies in 2017, where I provide regulatory and technical
23		support on a variety of energy issues, including regulatory services, transmission

and renewable development, and financial and economic analyses. I have also filed
 and supported the development of testimony before various state utility regulatory
 commissions.

Prior to joining Energy Strategies, I held positions at Pacific Gas and 27 Electric Company as Manager of Transmission Project Development, ISO 28 Relations and FERC Policy Principal, and Supervisor of Electric Generator 29 Interconnections. During my career at Pacific Gas and Electric Company, I 30 supported multiple facets of utility operations, and led efforts in policy, regulatory, 31 32 and strategic initiatives, including supporting the development of testimony before and submittal of comments to the FERC, California ISO, and the California Public 33 Utility Commission. Prior to my work at Pacific Gas & Electric, I was a project 34 manager and engineer for heavy construction bridge and highway projects. 35

36 Q. Have you testified previously before this Commission?

A. Yes, I testified in Duke Energy Kentucky's 2017 general base rate case and
2019 general base rate case, Case Nos. 2017-00321 and 2019-00271, respectively.
I also testified in the Kentucky Utilities Company and Louisville Gas and Electric
Company 2018 general base rate cases, Case Nos. 2018-00294 and 2018-00295,
respectively.

42 Q. Have you filed testimony previously before any other state utility regulatory
43 commissions?



47		the North Carolina Utilities Commission, the Public Utilities Commission of Ohio,
48		the Public Utility Commission of Oregon, the Utah Public Service Commission,
49		the Virginia State Corporation Commission, and the Public Service Commission of
50		Wisconsin.
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52	<u>C</u>	Overview and Conclusions
53	Q.	What is the purpose of your testimony in this proceeding?
54	A.	My testimony addresses the following topics:
55		(1) KU's proposed changes in depreciation rates for the Company's
56		remaining coal-fired generation units;
57		(2) KU's proposal to continue the use of regulatory asset and liability
58		accounting for generator outage expenses; and
59		(3) A multi-site commercial rate aggregation pilot.
60	Q.	Please summarize your recommendations to the Commission.
61	A.	I offer the following recommendations:
62		(1) KU's proposal to increase its revenue requirement in this proceeding to
63		reflect changes in depreciation rates based on the accelerated retirement of
64		its remaining coal-fired generation units should be denied. Instead, the
65		revenue requirement should be calculated using the existing depreciation
66		rates for KU's coal fleet, with the undepreciated balance transferred to a
67		regulatory asset at the time of retirement. The undepreciated balance in
68		the regulatory asset should be amortized over the current depreciable lives
69		of the affected generating plants. Given the current challenges facing

70	customers and the local economy brought on by the COVID-19 pandemic,
71	and the continuously changing operational and economic circumstances
72	for the Company's coal-fired generation assets, it is not necessary or
73	appropriate to increase the base rate revenue requirement to recover KU's
74	significant proposed increase in depreciation expense at this time.
75	(2) The Commission should deny KU's request to continue the use of
76	regulatory asset and liability accounting for generator outage expenses.
77	The proposed accounting treatment is unnecessary and would reduce the
78	Company's incentive to reduce costs as much as possible. This non-
79	precedential accounting treatment resulted from multi-party negotiations
80	in KU's prior two general rate cases, Case Nos. 2016-00370 and 2018-
81	00294, and I recommend that it be eliminated going forward.
82	(3) It is reasonable and appropriate at this time for the Company to initiate
83	a multi-site commercial rate aggregation study in order to provide an
84	opportunity for the Company and its stakeholders to gain insight into how
85	a multi-site aggregation rate would work. A well-designed demand
86	aggregation program places a customer with multiple locations on an
87	equal footing with single-site customers, by charging participating multi-
88	site customers for the amount of generation and transmission services that
89	they actually use, thereby promoting equitable treatment of these
90	customers. To that end, I recommend that the Commission order the
91	Company to study the feasibility of a multi-site aggregate commercial rate
92	and propose a pilot program it its next rate case that would allow

93		commercial customers to participate in a multi-site rate applicable to the
94		portion of the demand charge associated with fixed production and
95		transmission costs.
96		
97	Depre	eciation Rates
98	Q.	Please explain how KU is proposing to update depreciation rates for the
99		Company's generation fleet in this proceeding.
100	A.	Company witness Lonnie Bellar explains that the Company has
101		determined that the current retirement dates for its steam generating units are no
102		longer reasonable due to changed circumstances. As such, the Company has
103		determined new retirement dates that it considers to be reasonable estimates of the
104		remaining economic lives of the units. ¹ Mr. Bellar provides the existing and
105		updated retirement dates for the affected units, which is reproduced in Table JB-1
106		below.

Table JB-1 KU's Current and Updated Retirement Year For Certain Coal-Fired Generating Units²

	Retirement Year	
Unit	Current	Updated
Brown 3	2035	2028
Ghent 4	2038	2037
Mill Creek 1	2032	2024
Mill Creek 2	2034	2028
Mill Creek 3	2038	2039
Mill Creek 4	2042	2039
Trimble County 1	2050	2045

¹ Direct Testimony of Lonnie E. Bellar, p. 9. ² Id.

111		KU witness John Spanos explains that he utilized these probable
112		retirement dates and change in life span for these generating units, as provided by
113		Mr. Bellar, in his depreciation studies. ³
114	Q.	What factors did KU consider in assessing the remaining economic lives of
115		generating units?
116	А.	According to Mr. Bellar, the Company's Generation Planning and
117		Analysis function continuously assesses generation resources as part of the
118		Integrated Resources Planning ("IRP") process. Mr. Bellar explains that the
119		planning process considers a range of factors including the impact of
120		environmental regulations, fuel price scenarios, the cost of replacement
121		generation, risk of catastrophic failures, and the operational and major
122		maintenance costs that may be avoided by economic retirements. ⁴
123	Q.	What is the revenue requirement impact resulting from the proposed changes
124		in depreciation rates for the Company's coal-fired generation units?
125	А.	According to Company witness Kent Blake, the proposed changes in
126		depreciation rates for the Company's coal-fired generation units increased KU's
127		depreciation expense by \$48.3 million. ⁵ After considering the effects on
128		capitalization, property taxes, and income taxes, the total KU revenue requirement
129		impact resulting from this change in depreciation rates is \$40.0 million. ⁶

³ Direct Testimony of John J. Spanos, p. 10.
⁴ Direct Testimony of Lonnie E. Bellar, p. 10.
⁵ Direct Testimony of Kent W. Blake, p. 21.
⁶ Kentucky Utilities Company Response to Second Data Requests for Information of the Kroger Co. Dated February 5, 2021, Question No. 7 (a), Reproduced in Exhibit JB-1.

Q. What is your assessment of KU's proposal to increase the revenue requirement
by \$40.0 million in this case to reflect earlier retirement dates for its coal-fired
generating resources?

Α. I recommend that the Commission deny KU's request to increase its base 133 rate revenue requirement by \$40.0 million in this case to reflect the accelerated 134 retirement of its coal-fired generating resources. Instead, the revenue requirement 135 should be calculated using the existing depreciation rates for KU's coal fleet. I 136 recommend that the Commission authorize KU to transfer the remaining 137 138 undepreciated plant balances to a regulatory asset when these units are retired and amortize the balance over the current depreciable lives. Specifically, this 139 accounting treatment should apply to the coal-fired generating units listed in 140 Table JB-1. 141

Simply put, it is not appropriate or necessary to increase the depreciation 142 rates for these facilities at this time. As Company witness Paul Thompson 143 acknowledges, the COVID-19 pandemic has created unprecedented challenges for 144 KU's customers and communities.⁷ KU's proposed increase to depreciation rates 145 146 is a key driver of its significant overall proposed revenue requirement increase of \$170.1 million, or 10.4%. My recommendation would help mitigate this 147 proposed increase in costs for KU's customers at this very difficult time while 148 also providing a reasonable opportunity for KU to recover its costs. 149 Further, as I explain above, KU continuously assesses its generation 150

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portfolio as part of the IRP process based on a range of factors. As such, the

⁷ Direct Testimony of Paul W. Thompson, p. 12.

152		changing operational and economic circumstances that caused KU to propose
153		updated retirement dates for its steam generating units in this proceeding may
154		cause KU to update the probable retirement dates again in the future. Maintaining
155		existing depreciation rates for ratemaking purposes will help provide some rate
156		stability and gradualism, as opposed to the significant rate impacts that would
157		result from continuously increasing the depreciation rates for these units.
158	Q.	Company witness Kent Blake claims that the significant changes in facts and
159		circumstances regarding the remaining coal-fired generation fleet must be
160		addressed now in depreciation rates to avoid the risk of stranded assets and
161		inter-generational inequities. ⁸ How do you respond to these concerns?
162	A.	Utilizing a regulatory asset as I am proposing to recover the Company's
163		remaining undepreciated investment in its coal-fired generating units after these
164		units are retired will provide KU a reasonable opportunity to fully recover its
165		investment over the originally expected lives.
166		Further, the opportunity has come and gone for the Company to fully
167		recover its investment in its coal-fired generating units and fully avoid inter-
168		generational inequities. KU's proposal to significantly increase its depreciation
169		expense in this case would create an inter-generational inequity by imposing
170		significantly higher costs on current customers for generating units that are
171		becoming increasingly uneconomic, relative to the costs borne by past customers
172		that benefitted from these resources. My proposal to utilize a regulatory asset to
173		recover the Company's remaining investment in its coal-fired generating

⁸ Direct Testimony of Kent W. Blake, p. 5.

174		resources after the plants are retired mitigates some of this burden on current
175		customers, who are also at the forefront of dealing with the challenges and
176		economic circumstances brought on by the COVID-19 pandemic.
177	Q.	Are you aware of any past precedent by this Commission approving the use of
178		a regulatory asset to recover the costs of retired assets?
179	A.	I am aware of a couple of instances where this Commission approved the
180		use of a regulatory asset to recover the costs of retired assets. In Kentucky Power
181		Company's ("KPC") Application seeking a Certificate of Public Convenience and
182		Necessity in connection with the transfer of a 50% interest in the Mitchell
183		Generating Station, the Commission approved provisions in a non-unanimous
184		stipulation authorizing KPC to recover retirement costs for the Big Sandy Unit 1
185		and Unit 2,9 including net book value and removal costs, on a levelized basis over
186		25 years. ¹⁰ Subsequently, in KPC's 2014 general rate case, the Commission
187		approved the Big Sandy Retirement Rider. ¹¹
188		Additionally, the Commission approved Kenergy Corp.'s application to
189		establish a regulatory asset to recover the undepreciated balance of its electro-

⁹ In the Matter of Application Of Kentucky Power Company For (1) A Certificate Of Public Convenience And Necessity Authorizing The Transfer To The Company Of An Undivided Fifty Percent Interest In The Mitchell Generating Station And Associated Assets; (2) Approval Of The Assumption By Kentucky Power Company Of Certain Liabilities In Connection With The Transfer Of The Mitchell Generating Station; (3) Declaratory Rulings; (4) Deferral Of Costs Incurred In Connection With The Company's Efforts To Meet Federal Clean Air Act And Related Requirements; And (5) All Other Required Approvals And Relief, Case No. 2012-00578, Order (October 7, 2013), p. 43.

¹⁰ Id, Stipulation and Settlement Agreement (July 2, 2013), pp. 9-10.

¹¹ In the Matter of *Application Of Kentucky Power Company For: (1) A General Adjustment Of Its Rates For Electric Service; (2) An Order Approving Its 2014 Environmental Compliance Plan; (3) An Order Approving Its Tariffs And Riders; And (4) An Order Granting All Other Required Approvals And Relief,* Order (June 22, 2015), pp. 45-47.

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mechanical meters that were replaced by an Advanced Metering Infrastructure system.¹²

Q. Are there any other issues to consider with respect to the early retirement of coal-fired resources and the recovery of undepreciated plant?

- A. The carrying costs on the undepreciated balance of coal-fired resources in a regulatory asset driven by early retirement dates could be very significant. One potential tool that the Commonwealth of Kentucky might consider is the use of securitized bonds to refinance the undepreciated plant balances. Generally, the securitization of undepreciated plant would need statutory authorization. However, the cost of securitized bonds would likely be substantially less than the utility regulated rate of return. The use of securitized bonds to refinance
- 202 accelerated coal plant retirements while still providing cost recovery for the 203 utility.

undepreciated plant could potentially help mitigate the rate impacts resulting from

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205 Generator Outage Expense

206Q.Please describe KU's proposal to recover costs related to generator outage207expense in base rates.

A. KU's witness Lonnie Bellar explains that KU is proposing to normalize outage expense using an 8-year average based on the average actual outage expense for 2017, 2018, 2019, and 2020 through August, combined with

forecasted outage expense for the balance of 2020 through 2024. According to

¹² In the Matter of Request Of Kenergy Corp. For Approval To Establish A Regulatory Asset In The Amount Of \$3,884,717 Amortized Over A Ten (10) Year Period, Order (August 31, 2015).

212		Mr. Bellar, an 8-year average including actual and forecast expense is a more
213		accurate and reliable method of normalizing outage expense because major outage
214		maintenance is typically done in 8-year cycles, and because past maintenance
215		costs are not necessarily predictive of future maintenance costs. ¹³
216	Q.	Please describe KU's proposal regarding the use of regulatory asset and
217		liability accounting for generator outage expenses.
218	A.	In response to discovery, KU confirmed that it is proposing to continue the
219		use of regulatory asset and liability accounting for generator outage expenses.
220		According to the Company, this deferral accounting ensures KU may ultimately
221		collect, or will have to return to customers, through future base rates any amounts
222		that are above or below the average embedded in the electric revenue requirement
223		increases in these proceedings. ¹⁴
224	Q.	Does KU currently use regulatory asset and liability accounting for generator
225		outage expenses?
226	A.	Yes. Mr. Bellar explains that in settling KU's prior rate case, the settling
227		parties stipulated to the use of a 5-year historical average and the continued use of
228		regulatory asset and liability accounting for generator outage expense. ¹⁵ Similar
229		regulatory asset and liability accounting treatment for generator outage expense
230		was stipulated to by the settling parties in KU's 2016 base rate case as well. ¹⁶

 ¹³ Direct Testimony of Lonnie E. Bellar, p. 23.
 ¹⁴ Response of Kentucky Utilities Company to First Requests for Information of the Kroger Co. Dated January 8, 2021, Question No. 9 (e), reproduced in Kroger Exhibit JB-1.
 ¹⁵ Direct Testimony of Lonnie E. Bellar, p. 23.

¹⁶ In the Matter of: Electronic Application of Kentucky Utilities Company for an Adjustment of its Electric Rates and for Certificates of Public Convenience and Necessity, Case No. 2016-00370, Stipulation and Recommendation (April 19, 2017), pp. 6-7.

Q. What is your assessment of KU's proposal to continue the use of regulatory
 asset and liability accounting for generator outage expenses?

I recommend that the Commission deny KU's proposal to continue the use 233 A. of regulatory asset and liability accounting for generator outage expenses. 234 Performing generator outage maintenance work is a fundamental responsibility 235 236 for a utility that does not warrant guaranteed cost recovery. In carrying out this responsibility, utilities are entitled to an opportunity to recover their prudently 237 incurred costs. Allowing KU to continue the use of this accounting treatment to 238 239 guarantee cost recovery for all of its generator outage expense costs above the amount embedded in base rates reduces the Company's incentive to perform the 240 241 work as efficiently as possible to counterbalance potentially higher costs in other areas, or otherwise increase the utility's earnings. 242

Q. Are you recommending any other changes regarding the Company's generator outage expense?

A. I am not taking a position regarding the Company's proposal to normalize its generator outage expense using an 8-year average of actual and forecasted expense. Nor am I recommending any changes to the existing generator outage expense regulatory asset. My recommendation is specifically focused on the Company's proposal to continue deferred accounting treatment for future generator outage expenses above or below the amount that is approved to be embedded in base rates.

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254 Multi-site Aggregation Commercial Rate

255 Q. Please explain multi-site rate aggregation.

266	Q.	Why should the Company study a multi-site commercial rate aggregation
265		determinants established separately at each location.
264		The distribution portion of the bill should be calculated using demand billing
263		billing and should only apply to a customer's generation and transmission service.
262		it were a single load for billing purposes. This is described as conjunctive demand
261		measuring billing demand for the totality of the customer's participating sites as if
260		simultaneously across each of a customer's participating locations, thereby
259		billing demand is measured as the highest hourly demand occurring
258		of power and transmission billing. For a multi-site aggregation program, the
257		customers with multiple service locations to aggregate their demands for purposes
256	A.	A multi-site commercial rate aggregation program would allow eligible

267 program?

A. This type of aggregation properly allows a multi-site customer to capture 268 the diversity within its loads for billing purposes, specifically in the determination 269 of billing demand. By treating the multiple loads of a single customer as a single 270 271 entity for the purpose of measuring the amount of power and transmission service provided to the customer, the customer's load is treated in a manner that is 272 comparable to the treatment of a single-site customer with the same aggregate 273 load shape. It is also comparable to the way the customer's load would be viewed 274 in a competitive market. 275

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Why is it appropriate to apply a conjunctive demand rate to fixed generation and transmission costs as distinct from distribution costs?

A. Each facility owned by a multi-site customer causes unique distribution
costs and therefore it is appropriate to recover those costs based on the peak
demand of each individual facility. But that is not the case for fixed production
and transmission costs. At the power supply and transmission level, it makes no
difference whether 5 MW in a given hour is going to a single-site customer with a
5 MW load or to a multi-site customer with five facilities taking 1 MW each. The
cost to produce and transmit the 5 MW in that hour is not materially different.

For a multi-site customer, it would not be unusual for each of its sites to be 285 peaking at a different hour in each month. Under the Company's current rate 286 structures, this means that the customer's cumulative billing demand for fixed 287 production costs would exceed the customer's actual aggregated peak demand 288 289 measured on an hour-by-hour basis (as if it were a single-site customer). In other words, under the current rate structure, the multi-site customer might be billed for 290 5.5 MW of fixed production demand based on the sum of the individual peaks of 291 292 each of its sites (occurring at different hours), whereas in fact, the customer's 293 actual aggregate demand for fixed production demand in any hour might be no greater than 5 MW. A conjunctive demand rate can correct for this upward bias 294 295 in the billing demand that would otherwise be charged to a multi-site customer by aggregating the customer's billing demands for peak demand measurement 296 297 purposes. With the proper metering in place, this correction simply charges 298 multi-site customers for the fixed production service that they actually use and

places them on an equal footing with single-site customers. Under a welldesigned conjunctive demand rate, a multi-site customer that has the same
aggregate demand for power supply as a single-site customer pays exactly the
same rate and dollar amount for power supply as that single-site customer.

303 Q. With a multi-site customer rate, would a commercial customer be allowed to
 304 aggregate smaller loads onto a different rate schedule designed for larger
 305 loads?

306A.No, I am not proposing an aggregation program that would allow smaller307aggregated loads to qualify for a different rate schedule, but rather simply to308better measure the aggregated customer's demand for generation and transmission309billing purposes. For example, a customer with five separate sites, each with a310maximum billing demand of 100 kW that is currently being billed on the PS311Power Service rate, would not be eligible to be billed at the TODS Time of Day312Secondary rates designed for customers with loads over 250 kVA.

313 Q. Are you aware of any well-designed multi-site customer rates?

314A.Yes. Consumers Energy in Michigan has such a rate, called the Aggregate315Peak Demand Service Provision.¹⁷ This program is available to any customer316with 7 accounts or more who desires to aggregate its On-Peak Billing Demands317for power supply billing purposes. To be eligible, each account must have a318minimum average On-Peak Billing Demand of 250 kW. The aggregated accounts319are billed under the same rate schedule and service provisions that apply to the

¹⁷ See Sheet D-63.00 at https://www.michigan.gov/documents/mpsc/Consumers_14_current_675992_7.pdf.

320		individual sites, with the aggregate maximum capacity to all customers limited to
321		200,000 kW.
322		Puget Sound Energy also has a pilot program that was recently approved
323		by the Washington Utilities and Transportation Commission that would allow
324		eligible customers with multiple service locations to aggregate their demands for
325		purposes of power and transmission billing. ¹⁸
326	Q.	What is your recommendation regarding a multi-site commercial
327		aggregation rate?
328	A.	I recommend that the Commission order KU to study and propose a
329		conjunctive billing demand pilot program in its next general rate case.
330	Q.	Does this conclude your direct testimony?
331	A.	Yes, it does.

¹⁸ See sheet 26-B at file:///C:/Users/jbieber/Downloads/elec_sch_026.pdf.

VERIFICATION

STATE OF UTAH)) COUNTY OF SALT LAKE)

The undersigned, **Justin Bieber**, being duly sworn, deposes and says that he is a Senior Consultant in the firm of Energy Strategies, LLC, that he has personal knowledge of the matters set forth in the foregoing testimony and exhibits, and that the answers contained therein are true and correct to the best of his information, knowledge and belief.

Lustin Bieber

Subscribed and sworn to before me this $\leq day$ of March, 2021, by Justin Bieber. My commission expires: $\frac{4/17}{2023}$

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Case No. 2020-00349

Exhibit JB-1

Kentucky Utilities Company Responses to Data Requests Referenced in Testimony Kroger Exhibit JB-1 Case No. 2020-00349 Witness: Justin Bieber Page 2 of 14

KENTUCKY UTILITIES COMPANY

Response to First Requests for Information of the Kroger Company Dated January 8, 2021

Case No. 2020-00349

Question No. 9

Responding Witness: Christopher M. Garrett

- Q-9. With respect to KU's Application, please refer to the Direct Testimony of Lonnie E. Bellar, page 23. "[T]he Companies propose to use average actual outage expense for 2017, 2018, 2019, and 2020 through August, combined with forecasted outage expense for the balance of 2020 through 2024. This approach has the effect of increasing expense associated with outage maintenance, but will ultimately be more accurate than 5-year historical average and will reduce the need to recover past outage expense in future rate increases through regulatory accounting."
 - a. Please provide KU's actual and forecasted outage expense for the proposed 8 year period.
 - b. Please provide KU's actual outage expense for 2012, 2013, 2014, 2015, and 2016.
 - c. Please explain in detail the reasons why this proposed approach will increase expense relative to using the 5-year historical average.
 - d. Do the Companies believe that the stipulation from the 2018 rate case that allowed it to continue the use of regulatory asset and liability accounting for generator outage expense sets a precedent to continue to use the same accounting treatment in this case? Please explain why or why not.
 - e. Please explain why the Companies believe it is appropriate to continue the use of regulatory asset and liability accounting for generator outage expense in this case.

A-9.

- a. See the response to AG-KIUC 1-38.
- b. See attached.

Kroger Exhibit JB-1 Case No. 2020-00349 Witness: Justin Bieber Page 3 of 14

- c. A 5-year historical average for outage maintenance expense is inappropriate to use as a predictor of future outage expense. Major overhauls typically occur about every eight years, depending on the type of generating unit and the condition of the unit as assessed through regular inspections and monitoring. Yearly outage expense for a particular unit will vary depending on when a major overhaul is performed, among other factors. Outage expense may be lower in the years following a major overhaul, and higher as a unit approaches its next major inspection. A five-year historical average does not account for those variations and an 8-year cycle more accurately reflects the aforementioned variations. For example, only \$6 million of outage expense for 2013 was included in the \$16 million 5-year historical average (2013-2017) utilized in the previous case. Additionally, the 5-year historical average utilized in the previous case did not capture outage expense for the Cane Run 7 (CR7) Combined Cycle Gas Turbine unit, commissioned in 2015. An 8year average also incorporates market conditions associated with the contracting skilled labor and materials market for coal-fired units.
- d. The Stipulation and Recommendation approved by the Commission in Case Nos. 2018-00294 and -00295 contains section 1.2 (F), Five-Year Historical Average for Generator Outage Expenses; Related Use of Regulatory Accounting, which states as follows:

The Parties stipulate to the use of a five-year historical average of generator outage expenses in the Utilities' stipulated amounts provided in Section 1.1, which reduces the Utilities' proposed electric revenue requirement increases as set forth in their applications by \$6.73 million for KU and \$ 1.78 million for LG&E. Relatedly, the Parties stipulate and recommend Commission approval of the Utilities continuing use of regulatory asset and liability accounting related to generator outage expenses that are greater or less than the updated amount to be included in base rates. This regulatory accounting will ensure the Utilities may collect, or will have to return to customers, through future base rates any amounts that are above or below the base rate base line average embedded in the electric revenue requirement increases in these proceedings.

Comparable language is also contained in Section 2.2(F) in the Stipulation and Recommendation approved by the Commission in Case Nos. 2016-00370 and -00371. If the Commission should order in this case that such normalization be discontinued and use forecast test year expense for ratemaking purposes, it would not be reasonable or lawful to deny the Companies' full cost recovery via amortization of past under-collections under the normalization methodology agreed to and approved by the Kroger Exhibit JB-1 Case No. 2020-00349 Witness: Justin Bieber Page 4 of 14

Commission in the previous four rate cases. The Companies only agreed in the context of a settlement to the incorporation into rates of the artificially low 5-year historic average in the 2018 rate cases based on the cost recovery provided for under the agreed-upon and approved methodology. The Companies' rebuttal testimony demonstrated the historic projections were unreasonable low projections of the expected outages. Actual results have confirmed that position. The true-up in the normalization methodology made it a cash flow timing issue only and not a permanent loss of cost recovery. It is not appropriate to "undo" prior settlement provisions agreed to by all parties unless the modification is also agreed to by all parties and approved by the Commission.²

e. The Companies believe it is appropriate to continue the use of regulatory asset and liability accounting for generator outage expenses for the reasons set forth in Mr. Bellar's testimony. Generator outage expenses can fluctuate significantly from year to year; major outages typically occur on an eight-year cycle. Normalization provides a smoothing of what is a cyclical expense – essentially treating it like a capital expense and spreading it over an eightyear period. Use of the forecast test year expense rather than a normalized level in this case would result in general the same combined plant outage cost of about \$43 million; however, that is not the case by utility due to the cyclical nature of this type of expense. Past maintenance costs are not necessarily a reasonable estimate of future maintenance costs. Deferral accounting ensures the Companies ultimately may collect, or will have to return to customers, through future base rates any amounts that are above or below the average embedded in the electric revenue requirement increases in these proceedings.³

² Electronic Application of Kentucky Power Company for (1) A General Adjustment of Its Rates for Electric Service; (2) an Order Approving Its 2017 Environmental Compliance Plan; (3) An Order Approving Its Tariffs and Riders; (4) An Order Approving Accounting Practices to Establish Regulatory Assets and Liabilities; and (5) An Order Granting All Other Required Approvals and Relief, Case No. 2017-00179, Order at 5-6, 7-8 (Ky. PSC June 28, 2018); 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 Practices to Establish Regulatory Assets and Liabilities; (4) Approval of a Certificate of Public Convenience and Necessity; and (5) All Other Required Approvals and Relief, Case No. 2020-00174, Order at 28-30 (Ky. PSC Jan. 13, 2021).

³ Case No. 2016-00370 and Case No. 2016-00371, Stipulation and Recommendation, Article II, Section 2.2(F) (Ky. PSC Apr. 19, 2017).

KII Jurisdictional Generator Outage - Not normalized		2012	2013	2014	2015	2016
Unit	FERC	Actual	Actual	Actual	Actual	Actual
0301- TRIMBLE COUNTY COMMON - GENERATION	510	\$ 275,250	- \$	- \$	- \$	•
	511		I	I	ı	
	512	19,585				
	513	(12,861	-			I
0321 - TRIMBLE COUNTY 2 - GENERATION	510			170,631		246,762
	511	ı			2,693	
	512	366,037	1,989	1,992,060	494,326	1,121,821
	513	360,599	1,436	168,959	139,686	838,407
5591 - KU GENERATION - COMMON	510	40,524	. 57,941	(62,537)	I	442
	513	I	I	I	ı	
5603 - TYRONE UNIT 3 ⁽³⁾	512		ı	ı		ı
5613 - GREEN RIVER UNIT 3 ⁽¹⁾	500	ı	13,472	I	I	I
	510	79,754	44,178	I	·	
	511		3,813	34,979	2,722	
	512	664,344	186,803	698,782	249,813	
	513	220,639	12,570	84,493	7,211	
	514		ı			
5614 - GREEN RIVER UNIT 4 ⁽¹⁾	500	I	80,138	I	I	I
	511	189	24,640	42,034		
	512	294,640	834,933	652,914	686,268	
	513	20,326	92,316	81,101	36,934	
	514		15,692	3,436	489	
5616 - GREEN RIVER COMMON ⁽¹⁾	500	I	I	I	I	I
	511		ı			
	512	37,226	'			
	513	7,495	1	ı	ı	
	514	318		1		
5620 - E W BROWN COMMON STEAM	511					
	512	105,316				
5621 - E W BROWN UNIT 1 ⁽²⁾	510	65,878	54,019		234,710	
	511	ı	ı	ı	28,185	2,551
	512	519,930	314,065	342,658	770,115	424,173
	513	120,848	39,697	27,379	2,814,425	746,401
	514	ı				
5622 - E W BROWN UNIT 2 ⁽²⁾	510	157,992	95,776	155,756	(170, 598)	(7,422)
	511	ı	ı	5,310	·	
	512	381,433	688,190	519,286	177,554	524,039
	513	29,560	379,582	440,069	69,033	13,200

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<u>KU</u> Jurisdictional Generator Outage - Not normalized		2012	2013	2014	2015	2016
Unit	FERC	Actual	Actual	Actual	Actual	Actual
	514	1			-	
5623 - E W BROWN UNIT 3	510	457,693	140,322			224,361
	511	290			1,930	
	512	1,759,947	352,651	1,072,508	1,002,174	645,014
	513	5,329,961	59,679	90,586	566,909	77,949
	514	180	1,044		5,676	842
5624 - E W BROWN UNITS 1 & 2 ⁽²⁾	512	1,511	12,840	523	2,156	1,128
	513		8,839			2,497
	514	88	832			
5625 - E W BROWN UNITS 2 & 3 ⁽²⁾	512		I	8,793		25,188
	513					
5630 - E W BROWN STEAM UNITS 1,2,3 SCRUBBER ⁽²⁾	511	I	759	153,162		285,730
	512	5,359				
	514			-	-	
5651 - GHENT UNIT 1	510		-	I	701,055	I
	511	41,374	41,916	15,149	288,139	82,540
	512	2,104,589	1,967,332	2,150,500	3,921,111	1,365,142
	513	1,142,927	317,370	181,478	4,228,284	515,167
	514	635	715	62	53	321
5652 - GHENT UNIT 2	510	251,782	15,067		270,844	21,862
	511	52,822	9,231	24,888	38,347	44,419
	512	4,341,755	532,846	1,276,945	3,374,848	1,661,414
	513	3,811,000	99,002	358,005	748,493	596,452
	514	1,306				
5653 - GHENT UNIT 3	510			283,560		
	511	7,748	5,100	5,342	330	38,566
	512	1,521,487	864,538	3,587,624	2,220,256	2,282,186
	513	1,184,874	136,085	292,935	1,030,676	638,626
	514			144	180	
5654 - GHENT UNIT 4	510		-	707,460	128,295	
	511	29,776	409	52,774	8,577	112,854
	512	934,535	889,084	3,420,107	(97,614)	1,932,458
	513	194,411	89,934	3,519,889	119,526	350,705
	514		-	5,325	-	
5655 - GHENT UNITS 1 & 2	511	ı	-	1	1,985	
	512	92,371	20,421	8,827	988	
	513			598	1,687	20,994
5656 - GHENT UNITS 3 & 4	511		129	1	49	5,884

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KU Jurisdictional Generator Outage - Not normalized		2012	2013	2014	2015	2016
Unit	FERC	Actual	Actual	Actual	Actual	Actual
	512	23,754	1,716	5,592		ı
	513			618	769	311
5657 - GHENT COMMON	511					
	512	124,972		ı		ı
	514	535				
0172 - CANE RUN CC GT 2016	549				51,497	22
	551					
	552				5,043	65,558
	553			ı	133,338	680,409
	554			ı	56,148	212,949
0432 - PADDYS RUN GT 13	553	(4,579)	33,788	76,980	44,366	59,562
	554		315			
0474 - TRIMBLE COUNTY #7 COMBUSTION TURBINE	553	-			1,093	
5635 - E W BROWN COMBUSTION TURBINE UNIT 5	553	-				
	554				12,158	
5636 - E W BROWN COMBUSTION TURBINE UNIT 6	551	-				
	552		ı	ı	ı	ı
	553	14,191	23,019	63,267	18,187	6,492
	554			ı		ı
5637 - E W BROWN COMBUSTION TURBINE UNIT 7	553	129,050	(34,813)	130,959	(62,547)	29,506
	554		ı	ı	ı	ı
5639 - E W BROWN COMBUSTION TURBINE UNIT 9	553	-	244,891	(14,057)		
	554			30,555		
5640 - E W BROWN COMBUSTION TURBINE UNIT 10	553		1	23,135	274,447	ı
	554		ı	ı	33,825	ı
5641 - E W BROWN COMBUSTION TURBINE UNIT 11	553	-				
5645 - E W BROWN CT UNIT 9 GAS PIPELINE	554	2				141,017
5693 - HAEFLING UNIT 1	553	1,914	6,033	65		
5694 - HAEFLING UNIT 2	553		6,033	65	-	
5695 - CLOSED 03/14 - HAEFLING UNIT 3 ⁽³⁾	553		133,418	-	-	-
Total		\$ 27,313,282	\$ 8,921,794	\$ 22,891,690	\$ 24,676,845	\$ 16,038,500
		Ī	Ī			

Green River units 3 and 4 were retired in 2015.
 E.W. Brown units 1 and 2 were retired in 2019.
 Haefling unit 3 and Tyrone unit 3 were retired in 2013.

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KENTUCKY UTILITIES COMPANY

Response to Second Requests for Information of the Kroger Company Dated February 5, 2021

Case No. 2020-00349

Question No. 7

Responding Witness: Kent W. Blake

- Q-7. Refer to the Direct Testimony of Kent Blake, page 21, "the changes in depreciation rates for the Companies' coal-fired generation units recommended by Mr. Spanos and included in the Companies' requested revenue increase added \$48.3 million for KU and \$59.2 million for LG&E Electric."
 - a. Please explain in detail how KU's proposed revenue requirement in this case would change if the depreciation rates for the Companies' remaining coal-fired generation units were not updated to reflect different retirement dates in this proceeding.
 - i. Please provide all relevant workpapers, in excel format, with working formulas included.
 - b. Please provide a detailed breakdown of the resulting impacts to depreciation expense, income tax expense, property tax expense, rate base, and the return on rate base/capitalization.
 - i. Please provide the depreciation expense for each month of the test year that would result if the depreciation rates for the coal-fired generation units are not updated in this proceeding.
 - ii. Please identify the change in income tax expense for each month of the test year that would result if the depreciation rates for the coal-fired generation units are not updated in this proceeding.
 - iii. Please identify the change in property tax expense for each month of the test year that would result if the depreciation rates for the coal-fired generation units are not updated in this proceeding.
 - iv. Please identify the changes to accumulated depreciation and accumulated deferred income tax for each month of the test year that would result if the depreciation rates for the coal-fired generation units are not updated in this proceeding.

- v. Please identify the change in return on rate base for each month of the test year that would result if the depreciation rates for the coal-fired generation units are not updated in this proceeding.
- vi. Please identify the change in return on capitalization for each month of the test year that would result if the depreciation rates for the coal-fired generation units are not updated in this proceeding.
- c. If the resulting impact to KU's revenue requirement is different than \$48.3 million, as indicated by Mr. Blake, please explain in detail the reasons for this difference.

A-7.

- a. The Companies do not agree with the premise of the requested calculation but are providing it to be responsive to the request. See attachment being provided in Excel format.
 - i. See attachment being provided in Excel format.
- b.
- i. See attachment being provided in Excel format.
- ii. See attachment being provided in Excel format. The Company is providing a simplified presentation for the income tax impacts to avoid having to tax effect the net operating income adjustments (excluding excess ADIT) only to then gross-up those same adjustments for the revenue requirement impact.
- iii. See attachment being provided in Excel format.
- iv. See attachment being provided in Excel format.
- v. See attachment being provided in Excel format.
- vi. See attachment being provided in Excel format.
- c. For simplicity, the \$48.3 million included in the testimony of Mr. Blake referred only to the impact of the rate change on depreciation expense. The other revenue requirement effects detailed in the attachment to this response were reflected within the other drivers discussed in that testimony including the noted changes in capitalization, property taxes and income taxes.

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Kentucky Utilities Company Forecasted Test Year Ended June 30, 2022 \$ millions

Impact of Not Updating Steam Depreciation Rates

															13 Month	
Rate Base/Capitalization	Ref.	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Average	
Jurisdictional Accumulated Depreciation	b. iv	-	4.035	8.064	12.115	16.238	20.260	24.296	28.341	32.367	36.386	40.349	44.308	48.275	24.233	
ADIT Change @ Statutory 24.95%	b. iv	-	(1.007)	(2.012)	(3.023)	(4.051)	(5.055)	(6.062)	(7.071)	(8.076)	(9.078)	(10.067)	(11.055)	(12.045)	(4.528) I	Prorata ADIT
Jurisdictional Reg Liab Change - Excess ADIT Amort.		-	(0.394)	(0.787)	(1.181)	(1.574)	(1.968)	(2.362)	(2.775)	(3.189)	(3.602)	(4.016)	(4.430)	(4.843)	(1.781) F	Prorata ADIT
KY Jurisdictional Capitalization Adjustment		-	2.635	5.265	7.912	10.612	13.237	15.872	18.495	21.103	23.705	26.266	28.824	31.387	19.705	
Grossed-Up Rate of Return															9.02%	
Rate Base/Capitalization Revenue Requirement Adjustment	b. v/vi		0.023	0.046	0.068	0.092	0.115	0.137	0.160	0.183	0.205	0.227	0.250	0.272	1.777	
Net Operating Income			Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Total	
Excess ADIT Amortization Adjustment			0.394	0.394	0.394	0.394	0.394	0.394	0.414	0.414	0.414	0.414	0.414	0.414	4.843	
Gross-up Factor - Schedule H			1.339047	1.339047	1.339047	1.339047	1.339047	1.339047	1.339047	1.339047	1.339047	1.339047	1.339047	1.339047	1.339047	
Excess ADIT Revenue Requirement Adjustment	b. ii		0.527	0.527	0.527	0.527	0.527	0.527	0.554	0.554	0.554	0.554	0.554	0.554	6.485	
Steam Rate Depreciation Adjustment			(4.035)	(4.030)	(4.051)	(4.123)	(4.022)	(4.036)	(4.046)	(4.026)	(4.019)	(3.963)	(3.959)	(3.967)	(48.275)	
Property Tax Adjustment at 0.15% Production Rate	b. iii		-	-	-	-	-	-	0.003	0.003	0.003	0.003	0.003	0.003	0.018	
Net Operating Income Revenue Requirement Adjustment			(3.508)	(3.503)	(3.524)	(3.596)	(3.495)	(3.508)	(3.489)	(3.469)	(3.462)	(3.406)	(3.403)	(3.410)	(41.771)	
Total Revenue Requirement Adjustment			(3.485)	(3.457)	(3.455)	(3.504)	(3.380)	(3.371)	(3.329)	(3.286)	(3.257)	(3.179)	(3.153)	(3.138)	(39.994)	
Depreciation Expense included in Test Year	b. i		26.499	26.518	26.562	26.548	26.693	26.861	26.992	26.995	27.017	27.132	27.189	27.250	322.256	

Note: The excess ADIT adjustment in this calculation is using the existing amortization methodology, which inlcudes Cost of Removal (COR) components. We are addressing the change to excess ADIT associated with COR per PLR 202033002 in response to AG-KIUC DR2 Q-8(g).

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Kentucky Utilities

Non-Mech Jurisdictional Depreciation and Amortization Included in Test Year Ended June 2022:	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Total
Total Depreciation and Amortization Expense per Schedule C-2.2F	34.1	34.1	34.2	34.3	34.4	34.7	35.0	35.0	35.0	35.0	35.1	35.2	415.9
Times: Depreciation and Amortization Jurisdictional Factor on Schedule C-2.1F	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%
Subtotal Depreciation and Amortization	31.9	31.9	32.0	32.1	32.1	32.5	32.7	32.7	32.7	32.8	32.8	32.9	389.1
Less: DSM Depreciation per "Rider Adi F" tab of Schedule C	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(1.3)
Less: ECR Depreciation per "Rider Adi F" tab of Schedule C Multiplied by ECR Juris Factor per Schedule D-2F	(1.2)	(1.2)	(1.2)	(1.3)	(1.3)	(1.5)	(1.6)	(1.6)	(1.6)	0.6	(1.6)	<u>(1.6</u>	(17.3)
Jurisdictional Depreciation and Amortization Expense net of Mechanism per C-2.1F	30.5	30.5	30.6	30.7	30.7	30.9	31.0	31.0	31.0	31.1	31.1	31.2	370.5
Non-Mech Jurisdictional Depreciation and Amortization Included in Test Year Ended April 2020:													
Total Depreciation and Amortization Expense per Schedule C-2.2F	29.0	29.4	29.6	29.6	29.7	29.7	29.8	30.1	30.4	30.3	30.4	30.6	358.7
Times: Depreciation and Amortization Jurisdictional Factor on Schedule C-2.1F	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%	93.6%
Subtotal Depreciation and Amortization	27.2	27.5	27.7	27.7	27.8	27.8	27.9	28.2	28.4	28.4	28.5	28.6	335.7
Less: DSM Depreciation per "Rider Adj F" tab of Schedule C	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(1.2)
Less: ECR Depreciation per "Rider Adj F" tab of Schedule C Multiplied by ECR Juris Factor per Schedule D-2F	(5.1)	(5.3)	(5.3)	(5.3)	(5.3)	(5.4)	(5.4)	(5.6)	(5.7)	(5.7)	(5.7)	(5.7)	(65.5)
Jurisdictional Depreciation and Amortization Expense net of Mechanism as Filed per C-2.1F	22.0	22.1	22.2	22.3	22.3	22.3	22.4	22.5	22.7	22.6	22.7	22.8	269.0
Less: Depreciation Stipulation Adjustments	(1.6)	(1.6)	(1.6)	(1.6)	(1.6)	(1.6)	(1.6)	(1.6)	(1.6)	(1.6)	(1.6)	(1.6)	(19.3)
Jurisdictional Depreciation and Amortization Expense net of Mechanism	20.4	20.5	20.6	20.7	20.7	20.7	20.8	20.9	21.0	21.0	21.1	21.2	249.6
Total Change in Depreciation and Amortization Expense between Test Years	10.2	10.0	10.0	10.0	10.0	10.2	10.3	10.1	10.0	10.1	10.1	10.0	120.9
Remove Terminated ECR at Current Depreciation Rates:													
Terminated ECR Depreciation	51	5.1	5.1	5.1	5.1	5.1	5.1	51	5.1	5.1	5.1	5.1	60.8
FCR Invidicional Factor	93.4%	93.6%	93.2%	91.8%	93.5%	92.9%	92.7%	93.1%	93.2%	94.0%	93.9%	93.8%	93.3%
Jurisdictional ECR Depreciation Terminated into Base Rates	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.8	4.8	4.8	56.7
Damova Changa in Balances from Tast Vear to Tast Vear													
Remote change in Datances into in 153 from the f	21.8	21.8	21.8	21.0	22.0	22.2	22.3	22.3	22.3	22.4	22.4	22.5	265.5
Invisite for a perfect atom and Amortization included in Test Vast Ended April 2020 from Above	21.8	21.8	21.8	21.9	22.0	20.7	22.3	22.3	22.5	22.4	22.4	22.5	205.5
Change in Balances from Test Year to Test Year	1.4	1.3	1.2	1.2	1.3	1.4	1.5	1.4	1.3	1.3	1.3	1.3	15.9
Change in Jurisdictional Depreciation Related to Change in Depreciation Rates	4.0	4.0	4.1	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	48.3

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Jurisdictional ADIT on Book Depreciation Change \$ dollars

Prorata ADIT Calculation

Projected Accumulated Deferred Taxes at J	lune 30, 2	021		\$ -
Projected Accumulated Deferred Taxes at J	lune 30, 2	022		 (12,044,558)
Decrease in Accumulated Deferred Taxes for	or the for	ward year		\$ (12,044,558)
Balance June 30, 2021	<u>Quarte</u>	erly Decrease	<u>Proration</u>	\$ -
July 1- September 30, 2021	\$	(3,022,731)	273/365	(2,260,837)
October 1- December 31, 2021		(3,038,996)	181/365	(1,507,009)
January 1- March 31, 2022		(3,016,478)	91/365	(752,053)
April 1- June 30, 2022		(2,966,353)	1/365	 (8,127)
Pro rata Balance June 30, 2022				\$ (4,528,026)

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Excess Deferred Tax Analysis

\$ dollars

	<u>Kentu</u>	cky Utilities Com	pany - Total Compa	any	
	A	RAM Excess	ARAM Excess		
	D	eferred Tax	Deferred Tax		
		As-Filed	Remove Depr Inc	r	Difference
2021 July to December		10,460,015	7,876,26	1	(2,583,754)
2022 January to June		11,373,318	8,661,41	6	(2,711,902)
Test Year NOL Deficient Amortization		(470,397)	(356,30	3)	114,094
Forecasted Test Period ending 6/30/22		21,362,936	16,181,37	4	(5,181,562)
Prorata ADIT Calculation					
Projected Accumulated Deferred Taxes at Ju	une 30, 202	21		\$	-
Projected Accumulated Deferred Taxes at Ju	une 30, 202	22			(5,181,562)
Decrease in Accumulated Deferred Taxes for	\$	(5,181,562)			
	-				0
Balance June 30, 2021	Quai	terly Decrease	Proration	\$	-
July 1- September 30, 2021	\$	(1,263,353)	273/365		(944,919)
October 1- December 31, 2021		(1,263,353)	181/365		(626,485)
January 1- March 31, 2022		(1,327,427)	91/365		(330,948)
April 1- June 30, 2022		(1,327,427)	1/365		(3,637)
Pro rata Balance June 30, 2022				\$	(1,905,989)
KY Jurisdication Factor used for Excess	Р	lant Alloc %			93.47%

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Jul 2021 Aug 2021 Sep 2021 Oct 2021 Nov 2021 Dec 2021 Jan 2022 Feb 2022 Mar 2022 Apr 2022 May 2022 Jun 2022

KU_ECR												
Total Jurisdiction Revenue	138.0	138.4	122.2	117.6	120.9	139.3	151.6	137.6	130.1	111.7	117.2	126.1
ECR Jurisdictional Denominator (less Tracker revenue-add back CSR)	147.7	147.9	131.1	128.1	129.3	149.9	163.5	147.8	139.6	118.7	124.8	134.5
ECR Jurisdictional Factor	93.4%	93.6%	93.2%	91.8%	93.5%	92.9%	92.7%	93.1%	93.2%	94.0%	93.9%	93.8%
ECR Project Depreciation: 2009 plan - Terminating	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
ECR Project Depreciation: 2011 plan - Terminating	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
ECR Project Depreciation: 2016 Plan - Terminating	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1