

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC APPLICATION OF KENTUCKY-)	
AMERICAN WATER COMPANY FOR AN)	
ADJUSTMENT OF RATES, A CERTIFICATE OF)	
PUBLIC CONVENIENCE AND NECESSITY FOR)	CASE NO.
INSTALLATION OF ADVANCED METERING)	2023-00191
INFRASTRUCTURE, APPROVAL OF)	
REGULATORY AND ACCOUNTING)	
TREATMENTS, AND TARIFF REVISIONS)	

NOTICE OF FILING

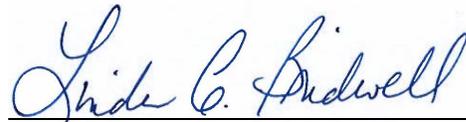
Notice is given to all parties that the following materials have been filed into the record of this proceeding:

- The digital video recording of the evidentiary hearing conducted on December 13, 2023, 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 December 13, 2024.

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/451960n7er8>.

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 31st day of January 2024.



Linda C. Bridwell

Executive Director

Public Service Commission of Kentucky

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CASE NO.
2023-00191

CERTIFICATION

I, Candace H. Sacre, hereby certify that:

1. The attached flash drive contains a digital recording of the Formal Hearing conducted in the above-styled proceeding on December 13, 2023. The Formal Hearing Log is included with the recording on December 13, 2023;
2. I am responsible for the preparation of the digital recording;
3. The digital recording accurately and correctly depicts the Formal Hearing of December 13, 2023; and
4. The Formal Hearing Log attached to this Certificate accurately and correctly states the events that occurred at the Formal Hearing of December 13, 2023, and the time at which each occurred.

Signed this 23rd of January, 2024.



Candace H. Sacre
Administrative Specialist III



Stephanie Schweighardt
Kentucky State at Large ID# KYNP 64180
Commission Expires: January 14, 2027



Session Report - Detail

2023-00191 13Dec2023

Kentucky-American Water Company (Kentucky-American)

Date:	Type:	Location:	Department:
12/13/2023	Public Hearing\Public Comments	Hearing Room 1	Hearing Room 1 (HR 1)

Witness: Patrick Baryenbruch; Ann Bulkley; Krista Citron; Larry Kennedy; William Lewis; Robert Mustich; Shelly Porter; Harold Walker
 Judge: Kent Chandler; Angie Hatton; Mary Pat Regan
 Clerk: Candace Sacre

Event Time	Log Event
9:11:47 AM	Session Started
9:12:01 AM	Session Paused
9:14:06 AM	Session Resumed
9:14:14 AM	Chairman Chandler Note: Sacre, Candace On the record.
9:14:28 AM	Chairman Chandler Note: Sacre, Candace Witness order. (Click on link for further comments.)
9:15:58 AM	Chairman Chandler Note: Sacre, Candace Anything else? (Click on link for further comments.)
9:16:28 AM	Chairman Chandler Note: Sacre, Candace Call next witness.
9:16:30 AM	Atty Braun Kentucky-American Note: Sacre, Candace Ann Bulkley.
9:16:54 AM	Chairman Chandler Note: Sacre, Candace Witness is sworn.
9:17:01 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace Examination. Name and address?
9:17:22 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace Direct Examination. Business title?
9:17:30 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace File direct testimony?
9:17:34 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace File rebuttal?
9:17:38 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace Witness for responses?
9:17:41 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace Corrections?
9:18:26 AM	Chairman Chandler Note: Sacre, Candace Questions?
9:18:36 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace Examination. Provided testimony last rate case?
9:18:43 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace Did same job?
9:18:58 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace Routinely ask about Hope and Bluefield standard, know what referring to?
9:19:16 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace Do you say result reached complies with standard set forth in those cases?

9:19:54 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace Hope and Bluefield set standard by which measure revenue requirement, basis of those cases?

9:20:48 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace Bluefield has line in it directly on point, says that, reading (click on link for further comments), read that part?

9:21:54 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace Talking about view of Hope and Bluefield discusses ensuring return same or similar as those by corresponding risks and uncertainties?

9:22:15 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace Equal to that being made of other business undertakings, that portion is what you understand Hope and Bluefield to be?

9:23:26 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace This sentence is holding of the Order, said comparable, understand answer indicated comparable return based on risk?

9:24:00 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace What want clear are saying comparable return based on relative risk, period?

9:24:18 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace A peer group?

9:24:22 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace Basis for determining peers is risk?

9:24:42 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace Why use same industry?

9:24:50 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace What does similar operating characteristics have to do with anything other than risk?

9:25:13 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace Compare required returns of American Water to specific businesses in same part of country?

9:26:27 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace Not have stock markets in 1920s?

9:26:35 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace Infamously did?

9:26:53 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace Intend be referred to former FERC formula process for determining ROE or decided not look at regions?

9:27:34 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace During time FERC did rely on regional reviews?

9:27:44 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace Started in last 15-20 years?

9:27:53 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace Worked ten years before that?

9:27:57 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace When started, FERC was considering region?

9:28:03 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace Who else regulate ROEs for?

9:28:10 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace Not water?

9:28:40 AM Chairman Chandler - witness Bulkley
Note: Sacre, Candace In last case, asking relation to peer group, what percentage of American Water, publicly traded?

9:29:12 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Percentage of revenues came from forecasted test periods for alternative ratemaking, nontraditional rate recovery, provide in this case?
9:29:55 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Available to them or employ it?
9:30:06 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	What percentage revenue flows through mechanism?
9:30:21 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Entities of LDCs?
9:30:31 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Aware occasionally have mechanisms recover capital cost recovery for safety?
9:30:55 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Specific capital rider?
9:31:18 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	When list whether available, not indicate how broad are?
9:31:32 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	If utility had pipeline replacement rider, show up here when present as accelerated capital recovery rider?
9:32:01 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Different than broad rider allows for replacement of mains, equal to 3/4 of investment, be same?
9:32:45 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Review investor presentations, ever do that?
9:33:06 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Investor-owned make clear how much of revenues subject to something other than historic rate recovery, seen those presentations?
9:34:09 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Amount of capital gets recovered through mechanisms, heard presentation amount of capital through those?
9:34:51 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Is utility with capital recovery mechanism verse similar only difference half capital recovered through rate mechanism, which of two less risky?
9:35:53 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Does real-time recovery equate less risk have to wait for rate case?
9:37:18 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	If KAW no longer have forecasted test period, more or less risk compared to proxy test group?
9:37:38 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	If legislature changes law and Commission removes ability have QIP, KAW more or less risky relative proxy group?
9:38:30 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	If none able recover ten percent and KAW recover 90 percent through QIP, more or less risky relative proxy group?
9:39:29 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	But no decoupling?
9:40:01 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Understand difference between recovery mechanisms and current QIP?

9:40:43 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Citron responses mean company move forward with pipe replacement, if doubles investments making, half recovered through QIP, is one more or less risky than proxy group?
9:41:31 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Compared to proxy group?
9:41:36 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	This company?
9:41:59 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Of two utilities, which is more risky related to proxy group?
9:43:29 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Between Jun 27 2019 Order in 2018 KA case and this case, betas have been changed, went up, believe settled again?
9:45:50 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Time period talking about, last rate case?
9:46:04 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Went up after that, still in same level, used ten-year average for CAPM?
9:47:06 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	Historical beta for AEB-5 is ten-year average?
9:47:31 AM	Chairman Chandler - witness Bulkley Note: Sacre, Candace	How different ten years Bloomberg uses?
9:49:45 AM	Chairman Chandler Note: Sacre, Candace	Ms. Braun?
9:49:49 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace	Redirect Examination. Development of proxy group, mentioned work papers?
9:50:10 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace	Staff Second, No. 30, Attachment 20, report prepared by Regulatory Resource Associates
9:50:40 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace	Utilize to prepare proxy group?
9:51:15 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace	Workpapers 2-12 and then 20?
9:51:38 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace	Referencing RRA report mentioned?
9:51:53 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace	Does report identify type of adjustment clause each utility has access to?
9:52:10 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace	Delineate between a purchase power adjustment clause, one listed?
9:52:19 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace	If a traditional generation adjustment rider?
9:52:24 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace	If a delivery infrastructure rider?
9:52:27 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace	Consider information?
9:52:32 AM	Atty Braun Kentucky-American - witness Bulkley Note: Sacre, Candace	Believe proxy group reasonable?
9:53:06 AM	Chairman Chandler Note: Sacre, Candace	Next witness?
9:53:10 AM	Atty Braun Kentucky-American Note: Sacre, Candace	Larry Kennedy.

9:53:37 AM	Chairman Chandler Note: Sacre, Candace	Witness is sworn.
9:53:42 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	Examination. Name and address?
9:53:58 AM	Atty Braun Kentucky-American - witness Kennedy Note: Sacre, Candace	Direct Examination. Title?
9:54:04 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	File testimony?
9:54:08 AM	Atty Braun Kentucky-American - witness Kennedy Note: Sacre, Candace	Witness for responses?
9:54:13 AM	Atty Braun Kentucky-American - witness Kennedy Note: Sacre, Candace	Changes?
9:54:19 AM	Atty Braun Kentucky-American - witness Kennedy Note: Sacre, Candace	Not in hearing room on Monday?
9:54:26 AM	Atty Braun Kentucky-American - witness Kennedy Note: Sacre, Candace	Questions deferred depreciable life of meters?
9:54:38 AM	Atty Braun Kentucky-American - witness Kennedy Note: Sacre, Candace	Prepared to answer?
9:54:44 AM	Chairman Chandler Note: Sacre, Candace	Ms. Goad?
9:54:48 AM	Asst Atty General Goad - witness Kennedy Note: Sacre, Candace	Cross Examination. Confirm Dec 31 2022 net book value KA meters was close to \$31 million with future accrual requirement of \$36 million?
9:56:06 AM	Asst Atty General Goad - witness Kennedy Note: Sacre, Candace	If AG Office issues post-hearing data request most updated net book value of meters, able provide that number?
9:56:07 AM	POST-HEARING DATA REQUEST Note: Sacre, Candace	ASST ATTY GENERAL GOAD - WITNESS KENNEDY PROVIDE MOST UPDATED NET BOOK VALUE OF METERS
9:56:35 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	Examination. Do depreciation work with electric utilities?
9:56:49 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	Retired power plant not fully depreciated, expense or seek deferral accounting?
9:57:33 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	If have big meter set and expecting last 15 years and last eight, replace all, same apply power plant or continue get recovered through metering account?
9:58:43 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	KA meters fall into mass property account?
9:58:48 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	If meters last third before retired, not matter, full book value continue get included depreciation rate?
9:59:18 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	If meters here being depreciated 15 years and all replaced ten years, five years recovered in rates?
10:01:33 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	Any experience meters accurate after 40 years?
10:01:44 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	Not make them like used to?
10:01:54 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	More expensive now?

10:02:28 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace Why 40 years chosen?

10:03:55 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace What done on a weighted average basis, mass account at 40?

10:04:22 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace Changed some of those years, know what changing assumptions what average life would have been if aggregated again?

10:04:51 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace Were aggregated, now disaggregated?

10:05:00 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace Not just meters, vaults now extended?

10:05:12 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace What look like if went back to being aggregated?

10:05:46 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace Is disaggregation required by accounting rules?

10:07:20 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace What's obvious, meters not lasting near as long as anticipated?

10:07:30 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace Never going to last 40 years?

10:07:37 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace Tested or removed after ten years, deviations to 15 years, familiar?

10:07:52 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace Remove and put back or remove and discard?

10:08:04 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace Retired after 15?

10:08:13 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace If been practice, has not been true since 2015?

10:08:29 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace Is meter or communications module?

10:10:00 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace When meter removed, cause of failure inability communicate?

10:10:33 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace Because of integrated nature of meters?

10:10:56 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace Interaction between depreciation and revenue requirement, distinction from a business?

10:11:43 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace When comes to Model T, dollar to fix something each time, no distinction for personal cost between capital expense and an expense?

10:12:19 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace Different for corporation, different for regulated utility?

10:12:43 AM Chairman Chandler - witness Kennedy
Note: Sacre, Candace Utilities earn rate of return on capital investments?

10:13:11 AM Chairman Chandler
Note: Sacre, Candace Counsel?

10:13:18 AM Atty Braun Kentucky-American - witness Kennedy
Note: Sacre, Candace Redirect Examination. Account 334, disaggregation?

10:13:27 AM Atty Braun Kentucky-American - witness Kennedy
Note: Sacre, Candace Walk me through, 40-year aggregate life?

10:13:38 AM Atty Braun Kentucky-American - witness Kennedy
Note: Sacre, Candace What proposing for meters this case?

10:13:54 AM	Atty Braun Kentucky-American - witness Kennedy Note: Sacre, Candace	Meters go from 40 to ten years, meter installations and meter vaults go from 40 years to 60 years?
10:14:06 AM	Atty Braun Kentucky-American - witness Kennedy Note: Sacre, Candace	Realize for meters recommending ten-year useful life, depreciation rate proposed for meters?
10:18:18 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	Examination. Seen level of under-depreciation before?
10:19:29 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	Strike you as frustrating, as simple as metering somehow harder than used to be?
10:20:05 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	Understanding of utility accounting?
10:20:15 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	Utilities make decisions to retire assets?
10:20:18 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	Within their control?
10:20:39 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	How other jurisdictions dealt with issue, deferral accounting?
10:21:58 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	If sought as post-hearing data request two or three instances provided testimony utility commission provided alternative mechanism for recovery other than changing depreciable rate mass meter account, provide those?
10:21:59 AM	POST-HEARING DATA REQUEST Note: Sacre, Candace Note: Sacre, Candace	CHAIRMAN CHANDLER - WITNESS KENNEDY PROVIDE TWO-THREE INSTANCES UTILITY COMMISSION PROVIDED ALTERNATIVE MECHANISM FOR RECOVERY
10:22:28 AM	Chairman Chandler - witness Kennedy Note: Sacre, Candace	Is Canadian accounting standard similar to uniform system of accounts?
10:23:26 AM	Chairman Chandler Note: Sacre, Candace	Ms. Braun?
10:23:29 AM	Atty Braun Kentucky-American Note: Sacre, Candace	Harold Walker.
10:24:14 AM	Chairman Chandler Note: Sacre, Candace	Witness is sworn.
10:24:18 AM	Chairman Chandler - witness Walker Note: Sacre, Candace	Examination. Name and address?
10:24:47 AM	Atty Braun Kentucky-American - witness Walker Note: Sacre, Candace	Direct Examination. Title?
10:24:52 AM	Atty Braun Kentucky-American - witness Walker Note: Sacre, Candace	And with what company?
10:24:58 AM	Atty Braun Kentucky-American - witness Walker Note: Sacre, Candace	File direct?
10:25:02 AM	Atty Braun Kentucky-American - witness Walker Note: Sacre, Candace	File rebuttal?
10:25:06 AM	Atty Braun Kentucky-American - witness Walker Note: Sacre, Candace	Witness for responses?
10:25:10 AM	Atty Braun Kentucky-American - witness Walker Note: Sacre, Candace	Corrections?
10:25:23 AM	Atty Braun Kentucky-American - witness Walker Note: Sacre, Candace	What is that correction?

10:25:45 AM	Chairman Chandler	
	Note: Sacre, Candace	Ms. Goad?
10:25:58 AM	Asst Atty General Goad - witness Walker	
	Note: Sacre, Candace	Cross Examination. Based on correction, updated cash working capital increased to \$3,181,000?
10:26:21 AM	Asst Atty General Goad - witness Walker	
	Note: Sacre, Candace	Base cash working capital on lead-lag study?
10:26:36 AM	Asst Atty General Goad - witness Walker	
	Note: Sacre, Candace	In Meyer testimony, recommends to adjust expense lead days for service company charges?
10:26:54 AM	Asst Atty General Goad - witness Walker	
	Note: Sacre, Candace	KA prepays affiliated service company charges?
10:27:13 AM	Asst Atty General Goad - witness Walker	
	Note: Sacre, Candace	Significant portion prepaid for internal labor?
10:27:30 AM	Asst Atty General Goad - witness Walker	
	Note: Sacre, Candace	KA does not prepay outside contractors?
10:27:47 AM	Asst Atty General Goad - witness Walker	
	Note: Sacre, Candace	Did not reflect?
10:28:02 AM	Asst Atty General Goad - witness Walker	
	Note: Sacre, Candace	Meyer cites to lead-lag study in Missouri-American Water case?
10:28:21 AM	Asst Atty General Goad - witness Walker	
	Note: Sacre, Candace	Excluded noncash items and balance sheet adjustments?
10:29:14 AM	Asst Atty General Goad - witness Walker	
	Note: Sacre, Candace	Included noncash items?
10:29:25 AM	Asst Atty General Goad - witness Walker	
	Note: Sacre, Candace	In rebuttal, page 15, confirm reviewed Final Order 2021-00183, Columbia Gas?
10:29:40 AM	Asst Atty General Goad - witness Walker	
	Note: Sacre, Candace	Read directive, page 14, that states, reading (click on link for further comments)?
10:30:07 AM	Asst Atty General Goad - witness Walker	
	Note: Sacre, Candace	Subject to check recall reading?
10:30:11 AM	Asst Atty General Goad - witness Walker	
	Note: Sacre, Candace	Lead-lag study submitted in compliance with that directive?
10:30:30 AM	Chairman Chandler	
	Note: Sacre, Candace	Questions?
10:30:34 AM	Commissioner Regan - witness Walker	
	Note: Sacre, Candace	Examination. Explain what reasons would be?
10:33:52 AM	Chairman Chandler - witness Walker	
	Note: Sacre, Candace	Examination. Give citation or read order last four years in which Commission in setting revenue requirement adopted a lead-lag study that included noncash items?
10:34:47 AM	Chairman Chandler - witness Walker	
	Note: Sacre, Candace	Aware of order from this Commission set revenue requirement that includes cash working capital that included noncash items?
10:35:15 AM	Chairman Chandler - witness Walker	
	Note: Sacre, Candace	Aware orders set revenue requirement included cash working capital determined by lead-lag study excluded noncash items?
10:35:38 AM	Chairman Chandler - witness Walker	
	Note: Sacre, Candace	Taken look at that, ask anybody from KAW whether any other precedent?
10:35:57 AM	Chairman Chandler - witness Walker	
	Note: Sacre, Candace	How find out precedent in other jurisdictions?

10:36:09 AM	Chairman Chandler - witness Walker Note: Sacre, Candace	When say precedent, just looking at last rate case utility filed?
10:36:16 AM	Chairman Chandler - witness Walker Note: Sacre, Candace	Not talking about any other of dozens of regulated entities go in front of that commission?
10:36:42 AM	Chairman Chandler Note: Sacre, Candace	Ms. Braun?
10:36:45 AM	Atty Braun Kentucky-American - witness Walker Note: Sacre, Candace	Redirect Examination. Mentioned precedent KA last 40 years, recall?
10:36:53 AM	Atty Braun Kentucky-American - witness Walker Note: Sacre, Candace	Rebuttal, page 4, portion referring to in 2018-00358 rate case in which Commission stated, reading (click on link for further comments), is that precedent referring to?
10:38:09 AM	Chairman Chandler Note: Sacre, Candace	Recess until 10:50.
10:38:26 AM	Session Paused	
11:01:22 AM	Session Resumed	
11:01:30 AM	Chairman Chandler Note: Sacre, Candace	Back on record.
11:01:36 AM	Chairman Chandler Note: Sacre, Candace	Next witness?
11:01:40 AM	Atty Ingram Kentucky-American Note: Sacre, Candace	Pat Baryenbruch.
11:01:46 AM	Chairman Chandler Note: Sacre, Candace	Witness is sworn.
11:01:54 AM	Chairman Chandler - witness Baryenbruch Note: Sacre, Candace	Examination. Name and address?
11:02:08 AM	Atty Ingram Kentucky-American - witness Baryenbruch Note: Sacre, Candace	Direct Examination. Job title?
11:02:19 AM	Atty Ingram Kentucky-American - witness Baryenbruch Note: Sacre, Candace	Cause be filed testimony?
11:02:27 AM	Atty Ingram Kentucky-American - witness Baryenbruch Note: Sacre, Candace	Also identified witness on responses?
11:02:32 AM	Atty Ingram Kentucky-American witness Baryenbruch Note: Sacre, Candace	Corrections?
11:02:44 AM	Chairman Chandler Note: Sacre, Candace	Questions?
11:03:02 AM	Chairman Chandler Note: Sacre, Candace	Mr. Ingram?
11:03:04 AM	Atty Ingram Kentucky-American Note: Sacre, Candace	Robert Mustich.
11:03:20 AM	Chairman Chandler Note: Sacre, Candace	Witness is sworn.
11:03:27 AM	Chairman Chandler - witness Mustich Note: Sacre, Candace	Examination. Name and address?
11:03:36 AM	Atty Ingram Kentucky-American - witness Mustich Note: Sacre, Candace	Direct Examination. Job title?
11:03:44 AM	Atty Ingram Kentucky-American - witness Mustich Note: Sacre, Candace	Employer?
11:03:51 AM	Atty Ingram Kentucky-American - witness Mustich Note: Sacre, Candace	Cause be filed testimony?
11:03:57 AM	Atty Ingram Kentucky-American - witness Mustich Note: Sacre, Candace	Also identified witness/co-witness on responses?

11:04:05 AM Atty Ingram Kentucky-American - witness Mustich
Note: Sacre, Candace Corrections?

11:04:27 AM Chairman Chandler
Note: Sacre, Candace Procedural discussions. (Click on link for further comments.)

11:05:01 AM Chairman Chandler
Note: Sacre, Candace Recall Krista Citron.

11:06:10 AM Chairman Chandler
Note: Sacre, Candace Remind still under oath.

11:06:23 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace Recross Examination. QIP, not involved QIP approved?

11:07:14 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace 2018-00358 understanding Commission approved QIP requested?

11:07:29 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace For replacement of cast iron galvanized steel main?

11:07:48 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace Reasoning Commission gave KA provided evidence cast iron galvanized steel main responsible 64 percent main breaks?

11:08:19 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace Thought that type main deteriorating faster than could be replaced?

11:08:45 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace Take a little over 57 years?

11:08:58 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace QIP accelerated replacement to 25 years?

11:09:15 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace As approved by Commission, QIP designed replace certain types of main and not all type of main materials?

11:10:25 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace Lot of cases in between, as approved, QIP replace 10-13 miles pipe, other items incidental?

11:10:57 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace Modification this case will accelerate to 27-34 miles and have any type of material for QIP?

11:11:23 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace Agree replacing aging infrastructure exceeded useful life part of routine operations of a utility?

11:11:45 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace Replacing aging infrastructure included in rate base and recovered through rates?

11:15:38 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace KA conducting any other planned main replacement outside of QIP?

11:16:17 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace Planned main replacement and reactive main breaks, planned main replacement outside QIP only about a mile to two per year?

11:17:23 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace Fair to say KA limiting replacement schedule to QIP rider?

11:18:15 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace Projects looking at for two years out, projects outside QIP?

11:18:42 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace Reason why KAW not increased main replacement included in construction budget outside QIP?

11:20:02 AM General Counsel Vinsel PSC - witness Citron
Note: Sacre, Candace May be familiar with cases since 2018 in which Commission clarified scope of QIP was for cast iron galvanized steel, explain why KA not put focus in a plan?

11:21:41 AM	General Counsel Vinsel PSC - witness Citron Note: Sacre, Candace	Planned main replacement about a third of cost of reactive unplanned?
11:23:40 AM	General Counsel Vinsel PSC - witness Citron Note: Sacre, Candace	If modification of QIP approved, proposed expansion impact replacement of cast iron galvanized steel, go back in pile or priority?
11:25:23 AM	General Counsel Vinsel PSC - witness Citron Note: Sacre, Candace	Envisioned 25-year replacement cycle, still be goal or longer period, QIP needed for longer time?
11:26:33 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Examination. Found last five years records would indicate system is older than anticipated?
11:27:37 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Found lot of 60-, 70-, 80-year-old pipe thought was newer?
11:28:04 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Know and have known how old system is?
11:28:14 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Not surprise have 100-plus, 80-plus, 90--year-old-plus parts to system?
11:28:23 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	The QIP defined as relates to results from NESI curve?
11:28:35 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	What been plan for last decade to replace infrastructure?
11:28:56 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Oldest stuff being addressed current mechanism?
11:29:03 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	500-year replacement rate?
11:29:18 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Then 377 years?
11:29:22 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Now 204 years?
11:29:33 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Plan replace exclusively dependent on QIP being expanded?
11:30:11 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Why hasn't company prudently replaced its own pipes?
11:31:16 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Is it a lot more cost to do that way, done study to determine overall revenue requirement impact being reactive as opposed to proactive?
11:32:17 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Entire basis of QIP not able do that planned basis without more near-time recovery of cost?
11:32:48 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	On 204-year replacement cycle, how making investments at time need to now?
11:35:08 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Talking about 250 miles of pipe beyond useful life?
11:35:20 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Used term not prudent, agree?
11:35:39 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Those 250 miles in need of replacement?
11:36:23 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Statement made on Monday 250 miles not prudent, replacement necessary, is or is not necessary?

11:36:51 AM Chairman Chandler - witness Citron
Note: Sacre, Candace Needs to be replaced?

11:36:55 AM Chairman Chandler - witness Citron
Note: Sacre, Candace And has not been replaced?

11:37:00 AM Chairman Chandler - witness Citron
Note: Sacre, Candace All 250 miles not one year beyond expected life?

11:37:05 AM Chairman Chandler - witness Citron
Note: Sacre, Candace Some ten years beyond expected life?

11:37:15 AM Chairman Chandler - witness Citron
Note: Sacre, Candace Plan on addressing need with or without QIP?

11:38:23 AM Chairman Chandler - witness Citron
Note: Sacre, Candace Infrastructure behind, one to two miles being replaced outside QIP?

11:38:39 AM Chairman Chandler - witness Citron
Note: Sacre, Candace What is cost per mile of main replacement that KAW experiencing?

11:39:02 AM Chairman Chandler - witness Citron
Note: Sacre, Candace Read Order in 2018 case approving QIP?

11:39:09 AM Chairman Chandler - witness Citron
Note: Sacre, Candace Page 82 of Order, reading (click on link for further comments), looked at 329 Atmos Order?

11:40:26 AM Chairman Chandler - witness Citron
Note: Sacre, Candace Atmos has pipeline replacement rider, increased to \$1.17 million per mile, agree KAW estimated in proposing QIP 2018 case less than \$320-\$350 mile?

11:41:04 AM Chairman Chandler - witness Citron
Note: Sacre, Candace Less than half of that amount?

11:41:10 AM Chairman Chandler - witness Citron
Note: Sacre, Candace About \$153 per foot?

11:41:19 AM Chairman Chandler - witness Citron
Note: Sacre, Candace Commission went on, in 2018 Order, to say, reading (click on link for further comments), anticipate end fifth year projects indicated for first five years will be completed?

11:42:26 AM Chairman Chandler - witness Citron
Note: Sacre, Candace All projects cast iron main and galvanized steel?

11:42:40 AM Chairman Chandler - witness Citron
Note: Sacre, Candace 2018 list, anticipate doing first five years, all cast iron main and galvanized steel?

11:42:56 AM Chairman Chandler - witness Citron
Note: Sacre, Candace Cost has more than doubled?

11:44:30 AM Chairman Chandler - witness Citron
Note: Sacre, Candace \$153 based off of twelve projects for main replacement?

11:44:33 AM Chairman Chandler - witness Citron
Note: Sacre, Candace Twelve projects main replacements?

11:44:43 AM Chairman Chandler - witness Citron
Note: Sacre, Candace Know Brent O'Neal, reading (click on link for further comments), remember that?

11:45:20 AM Chairman Chandler - witness Citron
Note: Sacre, Candace Expectation in 2018 was expected cost of \$6.9 to \$12.6 million per year, what been overall cost do 10-13 miles year?

11:46:49 AM Chairman Chandler - witness Citron
Note: Sacre, Candace QIP today just shy of \$20 million, five years \$100 million?

11:47:07 AM Chairman Chandler - witness Citron
Note: Sacre, Candace Talking about now \$177 million, incremental to \$100 million expect next five years, keep QIP way it is assuming cost stays constant?

11:47:45 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	In lieu or in addition to the \$19.5 million?
11:47:52 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	More than doubling, less than \$20 in excess of \$40?
11:48:07 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Assuming cost stays same?
11:48:10 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Seen significant increase?
11:48:35 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Know how many miles of main replacing due to age or condition or operation last 5-10 years before QIP?
11:49:08 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Safe to say failure of KAW replace faster created situation must be accelerated now?
11:50:15 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Proactively replacing pipe should avoid incurrence of operating expense not being reactive fixing leaks?
11:50:28 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Should reduce nonrevenue water?
11:50:32 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Of course, over time, not be immediate?
11:50:42 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	O'Neal testimony 2018, cast iron and galvanized steel 15 percent of system and over 64 percent all main breaks in year?
11:51:11 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Almost fifth of way through replacing cast iron and galvanized steel pursuant to 25-year plan?
11:51:22 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Nonrevenue water increased or decreased?
11:52:40 AM	Chairman Chandler - witness Citron Note: Sacre, Candace	Currently doing one to two miles main replacement outside QIP per year, consistent with amount replacing prior implementation QIP?
11:53:02 AM	Chairman Chandler Note: Sacre, Candace	Mr. Ingram?
11:53:12 AM	Atty Ingram Kentucky-American - witness Citron Note: Sacre, Candace	Redirect Examination. What benefits to customers of QIP program?
11:54:36 AM	Atty Ingram Kentucky-American - witness Citron Note: Sacre, Candace	Questions for AG witness, mentioned one of benefits of QIP smaller, more gradual cost effects on customers?
11:54:50 AM	Atty Ingram Kentucky-American - witness Citron Note: Sacre, Candace	Prior to 2018 case, KA filed rate case in 2004 2007 2008 2010 2012 2015 and 2018?
11:55:12 AM	Atty Ingram Kentucky-American - witness Citron Note: Sacre, Candace	Longest interval three years?
11:55:20 AM	Atty Ingram Kentucky-American - witness Citron Note: Sacre, Candace	Once QIP approved, asset classes expansive?
11:55:42 AM	Atty Ingram Kentucky-American - witness Citron Note: Sacre, Candace	QIP as approved in 2018 included distribution infrastructure and water treatment infrastructure?
11:55:43 AM	Atty Ingram Kentucky-American - witness Citron Note: Sacre, Candace	Distribution included not only pipe but also hydrants, distribution tanks, meter and meter installations, and power generation and pumping equipment?

11:56:01 AM	Atty Ingram Kentucky-American - witness Citron Note: Sacre, Candace	Water treatment approved in 2018 source supply and water treatment structures, including sampling equipment and SCADA equipment, included in QIP?
11:56:18 AM	Atty Ingram Kentucky-American - witness Citron Note: Sacre, Candace	Since QIP approved, four QIP cases and Commission ruled?
11:56:35 AM	Atty Ingram Kentucky-American - witness Citron Note: Sacre, Candace	Cut back on asset classes, now just for main replacements?
11:56:48 AM	Atty Ingram Kentucky-American - witness Citron Note: Sacre, Candace	KA not been in rate case since 2018, five-year gap?
11:56:59 AM	Atty Ingram Kentucky-American - witness Citron Note: Sacre, Candace	Ability to stay out rate case since 2018 partially attributable to existence of scaled-back QIP?
11:57:12 AM	Atty Ingram Kentucky-American - witness Citron Note: Sacre, Candace	Tangible benefit to customers?
11:58:06 AM	Chairman Chandler Note: Sacre, Candace	Be in recess until 1.
11:58:21 AM	Session Paused	
1:02:51 PM	Session Resumed	
1:02:58 PM	Chairman Chandler Note: Sacre, Candace	Back on the record.
1:03:06 PM	Chairman Chandler Note: Sacre, Candace	Recall William Lewis.
1:03:21 PM	Chairman Chandler Note: Sacre, Candace	Still under oath.
1:03:27 PM	Chairman Chandler Note: Sacre, Candace	Questions?
1:03:32 PM	General Counsel Vinsel PSC - witness Lewis Note: Sacre, Candace	Recross Examination. KAW not increased number of employees to focus on water loss or for meter reading rereads?
1:04:10 PM	General Counsel Vinsel PSC - witness Lewis Note: Sacre, Candace	Discuss why not?
1:05:05 PM	Camera Lock Witness Activated	
1:07:50 PM	Camera Lock Deactivated	
1:07:53 PM	General Counsel Vinsel PSC - witness Lewis Note: Sacre, Candace	To recap, four employees working in locate be repurposed, union agreement taking place?
1:08:32 PM	General Counsel Vinsel PSC - witness Lewis Note: Sacre, Candace	Meter reading rereads, talk a little about that, what efficiencies identified?
1:11:54 PM	General Counsel Vinsel PSC - witness Lewis Note: Sacre, Candace	Discuss what KA done to manage chemical price increases?
1:15:10 PM	General Counsel Vinsel PSC - witness Lewis Note: Sacre, Candace	What about increase in transportation expenses, what being done to help control?
1:15:38 PM	General Counsel Vinsel PSC - witness Lewis Note: Sacre, Candace	Chemicals being delivered, directly water related, transportation be part of price increase?
1:17:49 PM	Chairman Chandler Note: Sacre, Candace	Recall Shelly Porter.
1:18:08 PM	Chairman Chandler Note: Sacre, Candace	Still under oath.
1:18:10 PM	Chairman Chandler Note: Sacre, Candace	Counsel, questions?

1:18:18 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	Examination. Suspect driver nonrevenue water 270 special connections?
1:18:36 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	Private systems?
1:18:52 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	Know how old systems are?
1:19:15 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	250 miles of pipe beyond life, 204 years replacement cycle, are these systems have pipe of an age concerned beyond useful life?
1:19:57 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	What about Horse Park?
1:20:57 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	What likelihood driver for increase in water loss has been leaks in your lines as opposed someone else's system?
1:24:14 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	Proposing in this case installing DMAs so can measure and meter differently than what today and charge off zone meter billing?
1:24:48 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	Proposing start metering at what going into system?
1:25:25 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	If owned all lines up to meters, what would you do?
1:27:12 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	Expect by putting in DMAs which cost money, suspect be able increase revenue water sales, decrease nonrevenue water?
1:27:28 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	Decrease nonrevenue water, right?
1:27:38 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	Intending for it to be accounted for and charged?
1:27:53 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	Know how much goes through meter?
1:27:58 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	Not charge for that amount for that meter?
1:28:15 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	Different customers behind DMA, charge pro ratably?
1:28:30 PM	Chairman Chandler - witness Porter Note: Sacre, Candace	What is payback period from company perspective?
1:30:20 PM	Chairman Chandler Note: Sacre, Candace	Redirect?
1:30:28 PM	Chairman Chandler Note: Sacre, Candace	Anything else for company's case?
1:31:04 PM	Chairman Chandler Note: Sacre, Candace	Post-hearing data requests on December 15.
1:32:39 PM	Chairman Chandler Note: Sacre, Candace	Responded to by December 22.
1:33:17 PM	Chairman Chandler Note: Sacre, Candace	Initial briefs filed January 5, responses due January 12.
1:36:54 PM	Chairman Chandler Note: Sacre, Candace	Anything else?
1:37:01 PM	Chairman Chandler Note: Sacre, Candace	Hearing adjourned.
1:37:21 PM	Session Ended	

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