

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC JOINT APPLICATION OF)	
KENTUCKY UTILITIES COMPANY AND)	
LOUISVILLE GAS AND ELECTRIC COMPANY)	
FOR CERTIFICATES OF PUBLIC CONVENIENCE)	CASE NO.
AND NECESSITY AND SITE COMPATIBILITY)	2022-00402
CERTIFICATES AND APPROVAL OF A DEMAND)	
SIDE MANAGEMENT PLAN AND APPROVAL OF)	
FOSSIL FUEL-FIRED GENERATING UNIT)	
RETIREMENTS)	

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 August 24, 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 August 24, 2023.

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/EyWIE0doxWs>.

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 19th day of October 2023.



Linda C. Bridwell

Executive Director

Public Service Commission of Kentucky

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC JOINT APPLICATION OF KENTUCKY)
UTILITIES COMPANY AND LOUISVILLE GAS AND)
ELECTRIC COMPANY FOR CERTIFICATES OF)
PUBLIC CONVENIENCE AND NECESSITY AND SITE)
COMPATIBILITY CERTIFICATES AND APPROVAL)
OF A DEMAND SIDE MANAGEMENT PLAN AND)
APPROVAL OF FOSSIL FUEL-FIRED GENERATING)
UNIT RETIREMENTS)

CASE NO.
2022-00402

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 August 24, 2023. The Formal Hearing Log is included with the recording on August 24, 2023;
2. I am responsible for the preparation of the digital recording;
3. The digital recording accurately and correctly depicts the Formal Hearing of August 24, 2023; and
4. The Formal Hearing Log attached to this Certificate accurately and correctly states the events that occurred at the Formal Hearing of August 24, 2023, and the time at which each occurred.

Signed this 19th day of October, 2023.



Candace H. Sacre
Administrative Specialist III



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



Session Report - Detail

2022-00402 24Aug2023

Kentucky Utilities Company and Louisville Gas and Electric Company (KU/LG&E)

Date:	Type:	Location:	Department:
8/24/2023	Public Hearing\Public Comments	Hearing Room 1	Hearing Room 1 (HR 1)

Witness: Philip Imber; Tim Jones; Charles Schram; Stuart Wilson
 Judge: Kent Chandler; Angie Hatton; Mary Pat Regan
 Clerk: Candace Sacre

Event Time	Log Event
8:37:10 AM	Session Started
8:37:38 AM	Video Conference Activated
8:37:40 AM	Chairman Chandler Note: Sacre, Candace
	Back on the record.
8:37:44 AM	Chairman Chandler Note: Sacre, Candace
	Mr. Kurtz, you had something this morning? (Click on link for further comments.)
8:39:36 AM	Chairman Chandler Note: Sacre, Candace
	Anything else?
8:39:43 AM	Chairman Chandler Note: Sacre, Candace
	Scheduling.
8:40:00 AM	Chairman Chandler Note: Sacre, Candace
	Still under oath.
8:40:03 AM	Chairman Chandler Note: Sacre, Candace
	Mr. Bellamy, additional cross examination?
8:40:07 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace
	Cross Examination (cont'd). Ongoing costs for Paddy's Run and Haefling 1 and 2, reason table is rounding?
8:41:32 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace
	Costs hovering around \$50,000?
8:41:45 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace
	Companies request retirement Paddy's Run and Haefling not date certain, keep running until something happened?
8:42:55 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace
	What issue thinking be retirement?
8:43:40 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace
	Table 5, SB-4-1, loss of load expectation?
8:44:12 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace
	2028 reliability analysis, calculated based on expected load in 2028?
8:44:30 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace
	Why 2028 chosen?
8:44:44 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace
	Reason in place by 2028 Good Neighbor plan?
8:45:14 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace
	Full year and loss of load days/ten years, determining what loss of load in 2028 and other assumptions?
8:46:01 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace
	Summer versus winter, some add up to full year, some don't, why?
8:46:39 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace
	That is difference?

8:46:46 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace When same, not loss of load in shoulder months and a few when was?

8:47:05 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Portfolio 1, MC 5 Mill Creek?

8:47:26 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace SCR included?

8:47:42 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace If CC at Brown, have to retire Brown, continuing operating difference in reliability?

8:48:46 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace When requested permit, Brown closing?

8:49:09 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Incremental changes, only change not adding SCR Ghent 2?

8:49:48 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace When remove SCR Ghent 2, substantial drop summer reliability, move up to 1, if remove SCR from Ghent 2, change be same, summer reliability higher?

8:50:48 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace If move up to 1 and remove SCR from Ghent 2, rise of .73 in summer LOLE or different?

8:51:33 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Changes like that be about same?

8:51:45 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Examination. Function of taking outages in seasons, available in winter?

8:52:50 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace When said no nonzone, model with cannot produce energy between this state and this state?

8:53:29 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Questions for Imber?

8:53:34 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace LOL event, ever experienced?

8:53:49 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Turn off power so not have full blackout?

8:54:11 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Unserved energy?

8:54:16 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Single event?

8:54:21 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Ever?

8:54:30 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Cross Examination (cont'd). Effectively maintain current system without SCRs on coal units and with solar?

8:55:27 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Examination. Which portfolio?

8:55:35 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Portfolio 5 and Table 5?

8:56:20 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Cross Examination (cont'd). Added enough solar to meet minimum reserve margin?

8:57:20 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Post-hearing data request incremental loss of load expectation calculations, could do quickly?

8:57:21 AM POST-HEARING DATA REQUEST
Note: Sacre, Candace ASST GEN COUNSEL BELLAMY PSE - WITNESS WILSON
Note: Sacre, Candace USING INCREMENTAL PORTFOLIOS PROVIDED, PERFORM LOSS OF
LOAD EXPECTATION CALCULATIONS.

8:57:21 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Table 20 and 21, on page 30, SAW-1, same assumptions?

8:58:40 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace What change with May update?

9:00:07 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Response, Staff Second, Question 50, when responded provided
updated version SAW-1?

9:01:06 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Asked for number of LOL expectations?

9:01:16 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Reflected changes?

9:01:26 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Response to something in first round?

9:01:46 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Used all same assumptions?

9:01:56 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace LOLE based on ten-year period?

9:02:07 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace 1, 3, and 5 requested LOLE in event SCRs not built on Mill Creek 1
Mill Creek 2 and Ghent 2?

9:02:42 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Assumption units not running during ozone season?

9:03:06 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Rebuttal DSS-2, co-sponsor?

9:03:37 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Team do modeling?

9:03:56 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Any involvement?

9:04:10 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Response, Staff Fifth, Question 8, previous LOLE calculations?

9:05:02 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace When done, calculated with new information?

9:05:22 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Unserved energy, calculated on yearly basis and multiplied by ten?

9:06:03 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Based on 2028?

9:06:16 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Same with LOLH?

9:06:27 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace ESS-2, provided in more specific manner, same methodology used?

9:07:32 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace SERVM modeling not calculate to level of specificity?

9:08:32 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Actual specific results would have been averaged in multiple
iterations in SERVM?

9:08:45 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Examination. Table 7 normalized weather?

9:09:00 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Not reflect average of 300-400 runs through SERVM?

9:09:21 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Not randomized?
9:09:51 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Cross Examination (cont'd). SB-4-1, resilience, compare unit to unit, wanting to look at system, believe LOLE or uncertain energy for system, reflected in calculation of LOLE for system?
9:11:31 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Nameplate capacity reflect reliability and resilience?
9:12:40 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Comparing two portfolios not necessarily reflective of resilience and reliability?
9:13:56 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Examination. When modeled reliability portfolios, lack of ramping show up as risk of LOLE?
9:15:32 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Sun goes down same time August 23?
9:16:03 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Try to optimize and wait for solar profile go down and ramp to meet that, or increase generation meet ahead of time?
9:17:06 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Be there in anticipation of need?
9:17:39 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Model does that?
9:17:42 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Cross Examination (cont'd). Engineering planning group puts together potential resources LG&E build?
9:18:34 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Project engineering group looked at both CC units same location, not do reliability, not be on same pipeline?
9:19:55 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	At what stage take place?
9:21:23 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Provide to your team?
9:21:37 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Their decision to located separately?
9:22:02 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Submit bids for self-build option, discussion after?
9:22:53 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Any input into additional resources considered?
9:23:44 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	When calculating LOLE, used forced outage rate?
9:25:10 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Input and from that calculate outages, determine how long?
9:25:26 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Event occurred Cane Run 7 not something captured in forced outage rate?
9:25:50 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Why was that?
9:26:09 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	SAW-1 and how calculated gas and coal prices, page E-5, not clear where S&P Global came in?
9:27:25 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	How long term was forecast?

9:27:36 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Why only used in bid scenario?

9:29:26 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Not developed by same group, when say, there is risk?

9:30:25 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace EIA has coal price projections?

9:30:47 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Post-hearing data request ask for EIA coal prices, how projections line up, if coal to gas ratios holds?

9:30:48 AM POST-HEARING DATA REQUEST
Note: Sacre, Candace ASST GEN COUNSEL BELLAMY PSC - WITNESS WILSON
Note: Sacre, Candace EIA COAL PRICES, IF PROJECTIONS HOW LINE UP IF COAL TO GAS RATIOS HOLD

9:31:33 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Made comment range not different than IRP?

9:31:39 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Separately projected coal prices and gas prices?

9:33:38 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Talking about projections in IRP, prices came out to be similar?

9:33:45 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Post-hearing data request spreadsheet show ratio from prices?

9:33:46 AM POST-HEARING DATA REQUEST
Note: Sacre, Candace ASST GEN COUNSEL BELLAMY PSC - WITNESS WILSON
Note: Sacre, Candace ON A SPREADSHEET, SHOW RATIO FROM PRICES

9:34:11 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Modeled coal and gas prices independently preparing for CPCN?

9:36:16 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace How transportation costs coal and gas projected for SAW-1?

9:36:55 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Projected transportation separately?

9:37:12 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Based on historical transportation costs?

9:37:27 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Gas prices used not with transportation?

9:37:54 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace When did ratio, just commodity prices or transportation too?

9:38:45 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Page E-5, what gray line show on Figure 2?

9:39:24 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Agree pretty volatile?

9:40:02 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace When calculate using average no fluctuations?

9:40:20 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Possible coal and gas prices vary and put in models independent of each other?

9:41:53 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Page E-1, third paragraph, reading, (click on link for further comments)?

9:42:32 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace In terms of model, what mean?

9:43:48 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Transportation for gas, pipeline capacity, whether be enough?

9:44:03 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace When costs for gas estimated, consideration need for capacity increases price increases?

9:44:26 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Gave you costs?

9:44:52 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Responses, received 110 responses to RFP?

9:45:15 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Reduced to 43 included to model?

9:45:31 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Shown on SAW-1?

9:45:38 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace What mean by modeling in PLEXOS?

9:45:48 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace RFP results came in before IRA passed?

9:46:13 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Did go back to respondents and option changing based on IRA?

9:46:44 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Only five came back with changes?

9:47:22 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace One lowered price, battery storage plus solar, lowered by \$11 MWh, if any lowered cost to that degree had effect on decision?

9:48:35 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Response, Staff Fifth, 5-2 updated modeling, ProSim production cost modeling?

9:49:43 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Modeled certain portfolios?

9:50:50 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Added compliance options respect greenhouse gas regs?

9:51:10 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace NGCC units 50 percent capacity, do that with only new or with existing when ran modeling?

9:51:35 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Same simple cycle?

9:51:52 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Examination. Simple cycles limited to ten percent capacity factor begin with?

9:52:00 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Before PSC 5-2?

9:52:08 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace When tendered last Dec, all simple cycle CTs limited to 20 percent?

9:52:37 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Cross Examination (cont'd). Not charge carbon cost to those, below 50 percent complying, no scenarios?

9:53:07 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Response, Staff Sixth, Item 6, Question 2 -

9:53:35 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Examination. Only reduction in response modeling did with RTO membership, thought CTs run in RTO?

9:54:02 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Only other limit put on simple cycle?

9:54:20 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Cross Examination (cont'd). Attachment 1, provided separately, three fuel price scenarios added zero to 86 MWh solar while other added 2075 and 3022 in same period, explain why model not select any solar in first three?
9:55:55 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Resource additions, expansion, on page 4, Question 2, Response to Request No. 6, no cost estimates, how number of units determined without cost estimates?
9:57:29 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Unit with CCS, limit to emissions allowed with carbon capture, essentially not operating?
9:57:56 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Limited its operations?
9:59:26 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	What did with coal units, assuming built CCS but cost nothing and \$15 CO2 built CTS on coal but cost \$15 per ton?
10:00:25 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	When modeling NGCC with CCS applied same methodology, adding CCS to natural gas was combined cycle was zero?
10:01:17 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Letting produced 10 percent CO2 free?
10:02:10 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Post-hearing data request how ten percent affects price?
10:02:11 AM	POST-HEARING DATA REQUEST Note: Sacre, Candace Note: Sacre, Candace	ASST GEN COUNSEL BELLAMY PSC - WITNESS WILSON HOW TEN PERCENT AFFECTS PRICE
10:02:12 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Modeling analysis, Response, Staff Sixth, limiting capacity factor NGCC 50 percent, also limited SCCT to 20 percent?
10:02:38 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Any other limitation on SCCT, apply limitations to all units?
10:02:56 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Some caveat?
10:03:30 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Reading of rule allow higher capacity factor, why difference?
10:03:58 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Other constraints placed on thermal resources not exist prior analysis?
10:04:40 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Current greenhouse gas rules proposed, not certain, agree could be risk in 16 years, 24 years, further regulation down road?
10:06:17 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Not impose of new source?
10:06:34 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Limit life of NGCC 20 years or model adding CCS, chose to limit life, not process for CCS?
10:07:01 AM	Asst Gen Counsel Bellamy PSC - witness Wilson Note: Sacre, Candace	Post-hearing data request combine modeling in Response to Staff Fifth and Sixth and add constraint constrict life of unit 20 years, able to run?
10:07:02 AM	POST-HEARING DATA REQUEST Note: Sacre, Candace Note: Sacre, Candace	ASST GEN COUNSEL BELLAMY PSC - WITNESS WILSON COMBINE MODELING IN RESPONSE TO STAFF FIFTH AND SIXTH REQUESTS AND ADD CONSTRAINT OF UNIT LIFE OF 20 YEARS

10:07:48 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Proposed solar, any tax credits reflected in price of units?

10:09:28 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Any other incentives?

10:10:00 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Production tax credits only incentive?

10:10:25 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace Way to show amount included when calculated present value revenue requirement?

10:11:04 AM Asst Gen Counsel Bellamy PSC - witness Wilson
Note: Sacre, Candace If in record, respond, but post-hearing data request?

10:11:19 AM Chairman Chandler
Note: Sacre, Candace Recess until 10:25.

10:11:29 AM Session Paused

10:26:04 AM Session Resumed

10:26:12 AM Session Paused

10:26:16 AM Session Resumed

10:26:34 AM Chairman Chandler
Note: Sacre, Candace Back on the record.

10:27:20 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Examination. Fuels, primary input cost for operations?

10:27:37 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace PPAs cost per MWh same as fuel when model?

10:28:01 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Not case with self-owned?

10:28:28 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Upfront capital cost and per MWh negative number?

10:28:55 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Testified in 2020-00060 and 2020-00061?

10:29:09 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace As well as IRP in 2021?

10:29:29 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Rate cases?

10:29:33 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace In IRP, risk of being wrong with natural gas forecasts?

10:29:51 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Modeled in 2020-00061, retirement require additional generation, natural gas?

10:30:24 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace ELG/CCR case?

10:30:31 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Part of base?

10:30:37 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace High, low, and in between?

10:30:46 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Chose result related to mid?

10:31:08 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Chosen related to mid-gas prices?

10:31:17 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Difference in likelihood occurring, what expect base rate?

10:31:39 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace High forecast, mid forecast, low?

10:31:54 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Look at probability occurring?

10:32:05 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Realistic expectation?

10:32:38 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Not look high and low equally likely?

10:33:48 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace See that?

10:33:55 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Used AEO 2022?

10:34:10 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Used that for future gas prices?

10:34:18 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Aware EIA?

10:34:41 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace EIA.gov?

10:34:55 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace See hub?

10:35:05 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Dates and dollars per million BTUs?

10:35:14 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Same metric AEO also uses?

10:35:27 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Competence intervals?

10:35:59 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Expected and 95 percent interval?

10:36:10 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Risk deviation from expected outcome, risk between high and low?

10:36:46 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Different from way took high and low for natural gas prices?

10:37:14 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace \$2 away from zero?

10:37:38 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace \$2 away from \$4?

10:37:46 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Gas more or less likely go to \$4 than zero?

10:38:02 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Being \$2 off absolute number, unlikely \$2 to zero, more likely \$2 to \$4?

10:38:54 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Ten years what do, \$2 change upward more likely, important take into consideration in decision making based on modeling?

10:40:26 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Should weight it based on probability of occurrence?

10:40:56 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Result reached, outcome, customer bearing risk acknowledging risk important consideration?

10:42:36 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace If low gas always gave different answer than mid and high, need consider something different?

10:43:07 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace If one variable given different answers, what talking about?

10:43:28 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Coal to gas ratio used, observations seen with Illinois Basin and Henry Hub since filed testimony support conclusions and assumptions used to make ratios?

10:45:20 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Coal to gas ratio, what represent?
10:46:31 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Explain difference between coal to gas ratio .5 and 1?
10:46:52 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Twice as expensive?
10:47:18 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	In testimony, discuss coal to gas ratio based on historical observations correlation between two?
10:47:53 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Where get 2012?
10:48:22 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Take coal to gas ratio in each year and average or look to see if correlation over ten-year period?
10:49:24 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Seen graph in SAW, actually determine mathematical correlation?
10:50:10 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Not part of RTO?
10:50:22 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Exchange market not a thing now?
10:50:35 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Markets, dispatching no sked for LG&E/KU?
10:51:11 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Running own power plant?
10:51:17 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Single intermediate/base gas unit?
10:51:29 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Everything else peaking unit?
10:51:44 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Dozen MWs each?
10:51:57 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	100 MWs of CSR?
10:52:08 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Mill Creek 1 2 3 4,
10:52:18 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Thousands of MWs coal?
10:52:29 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Compared all those consider base and intermediate, none peaking?
10:52:53 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Cane Run 700?
10:53:03 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	System today economic substitutes?
10:53:50 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Not meet load with 700 MW?
10:54:22 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Gas prices change relative to coal prices, gas price moving relative to coal singularly Cane Run 7 moving up and down, not fuel switching?
10:55:29 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	RTO could have 2022 where coal plants not run 20 percent of time and 2021 run out of coal?
10:56:21 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	When procure gas, fixed price commodity contracts in advance operating?

10:57:14 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Cane Run 7 buy a year ahead of time?
10:57:41 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Half usage forward basis, other day ahead?
10:57:54 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Not procure coal on spot market?
10:58:10 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Longer procurement coal?
10:58:16 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Volatility for natural gas?
10:58:25 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Market fifty percent for combined cycles?
10:58:37 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Buying coal long term procurement, longer than day ahead?
10:58:54 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Means input costs up to fifty percent subject to volatility, coal on coal side fixed?
10:59:43 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Taking forecast for gas prices adding ratio assumption for coal prices?
11:00:04 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Any change in gas prices affects coal prices?
11:01:37 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Say capture but controls and assumes not exists for year?
11:02:40 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Real ratemaking implications to cost recovery three-year coal contract and cost recovery natural gas?
11:03:15 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Controls so long-term model not reflect ratemaking difference?
11:04:06 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Intra-year volatility?
11:04:26 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Schram and Sinclair?
11:05:39 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Combined cycle, Cane Run 7 current, model cost of abatement in eight years for GHG and SGS rule?
11:06:30 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Bellar says retirement coal plants create need for energy?
11:07:08 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Not capacity problem, economic energy problem?
11:07:32 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	How combined cycle with CTS meet energy needs going forward?
11:08:01 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Factors impact that fuel input?
11:08:12 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Expected depreciable life impact ability CCs affect energy cost over horizon?
11:08:55 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Capacity limitation affect cost of energy?
11:09:23 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Affects value of CC provide economic energy?
11:09:41 AM	Chairman Chandler - witness Wilson	Note: Sacre, Candace	Way model in 5.2 impact of new source standard on CC reduce capacity factor to 50 percent?

11:10:07 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace When reduction start?

11:11:04 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Reducing capacity factor building twice size need to be?

11:11:58 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Post-hearing data request, how expected run anyways, model tell us what days actually ran?

11:11:59 AM POST-HEARING DATA REQUEST
Note: Sacre, Candace CHAIRMAN CHANDLER - WITNESS WILSON
Note: Sacre, Candace IN MODEL HOW EXPECTED TO RUN AND HOW MANY DAYS

11:12:48 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Also have LOLE for each of months?

11:13:17 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Be clear in data request, what believe appropriate comparison be?

11:14:33 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace In room when asking Bellar?

11:14:39 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Value to company capacity resource?

11:15:10 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace CC chosen because of ability produce cheap energy?

11:15:34 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Only allow unit run in hours loss of load in excess of zero, by definition, be done by CT far less capital cost?

11:16:43 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Asked Bellar about equilibrium point, if rule comes out and says 50 percent or 17 percent, model go once rule constraint not picking CC, pick two CTs as opposed to choosing CC?

11:18:19 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Expectation proposed CPCN two CC Mill Creek 5 and Brown 12 cease making economic sense when capacity factor limitation in and around 20 percent?

11:20:34 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Answer about assumption cost of resources more carbon more expensive, CCS for 95 percent costs \$50 million for 600 MW gas unit, same size coal unit only 10 percent more \$55 million, gas emit half of coal unit, carbon capture only ten percent more but twice as much carbon, example not meet assumption?

11:23:26 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Upset assumption?

11:23:51 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Input costs, ask somebody?

11:24:00 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Answers Bellar gave need be supplemented?

11:24:55 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Comparison and contrast, one stay open standard moved back two years, Brown 3 stay open such firm line, has to occur in 2028?

11:26:06 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Stay open cost retirement of single unit makes other units more expensive, makes less economic compared to alternatives?

11:26:38 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Brown 3, ongoing costs get shared, model take costs from that column or avoidable costs different than ongoing costs included here?

11:27:55 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Any dollars in ongoing costs not go away when Brown 3 retires when Brown 12 built?
11:29:28 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Brown 3 and Brown 12 both going to be there not double count people?
11:30:02 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	At Mill Creek do that?
11:30:19 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Mill Creek 2 and Mill Creek 5 not exist together?
11:30:37 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	If ask you, example, reflect costs twice?
11:33:09 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	This not something assumed, assumed costs jointly incur?
11:33:36 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Impact of financial model only?
11:33:49 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Scenario asked about, reliability impact of that, LOLE, what know about solar complimentary in terms of meeting reliability?
11:35:40 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Table 5, page 14, SB-4, row 4, 9.2 ten-year LOLE?
11:36:57 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Every single portfolio more reliable than counterfactual proposing?
11:37:16 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Narrative above it, reading, (click on link for further comments), counterfactual hurdle for reliability under SB 4, 3.57, my fault, is that correct?
11:37:52 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Standard for meet or exceed 3.57?
11:37:55 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Every portfolio meets or exceeds 3.57?
11:38:16 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Know that because added reliability with DSM, some benefit?
11:38:21 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Status quo greater than .45, know what no retirements LOLE is with no DSM?
11:38:47 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Row 4 is, reading, (click on link for further comments)?
11:39:13 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Not available five months out of year?
11:39:23 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Hot months unavailable?
11:39:31 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Provide chart just ozone season?
11:39:59 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	LOLE in two columns?
11:40:06 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	What is in ozone season?
11:40:15 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Ghent 2 LOLE nearly one in Summer 2028?
11:40:37 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	More reliable one before it which had Ghent 2 all year long?
11:40:57 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Not add solar in PPAs or owned until Ghent 2 retired?

11:41:17 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Solar and battery added to Row 4, make LOLE higher or lower?

11:41:56 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace .06 negligible?

11:42:04 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Difference 4 and 5 availability of Ghent in nonozone season and Ghent unavailable all year?

11:42:25 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Expectation if 6 had Ghent 2 as SCR be different than .06?

11:42:52 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace No. 6 only change in lieu of retiring Ghent 2 available

11:43:09 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Different than winter in 4?

11:43:20 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace LOLP almost no LOLP?

11:43:32 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Summer reliability down to .3?

11:43:46 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Addition of battery, halves LOLE 2028 in summer?

11:43:58 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Contributes to event in winter?

11:44:22 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Additional four solar PPAs put LOLE in summer in 2028 to nothing?

11:44:51 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Think, example, impact summer and winter LOLE expectations?

11:45:54 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Two CCs without capacity factor limitation?

11:46:42 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Proposed rule staring us in face?

11:47:10 AM POST-HEARING DATA REQUEST
Note: Sacre, Candace CHAIRMAN CHANDLER - WITNESS WILSON
Note: Sacre, Candace IMPACT OF SB 4 RELATING TO CAPACITY FACTOR LIMITATION

11:47:11 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Conversation about how calculated economic reserve margins, need to know?

11:48:36 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Have reserve margin equal to minimums?

11:48:44 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Companies have reserve margins in summer and winter equal to minimums?

11:49:09 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace What represent?

11:49:25 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Have to go to ORDC and value of lost load before do that?

11:50:08 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Reserve margin analysis?

11:50:20 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Go to 21, value of lost load, 3.8 percent anything less than that is value of lost load of \$21,000?

11:51:13 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Where get ORDC?

11:51:35 AM Chairman Chandler - witness Wilson
Note: Sacre, Candace Where get shape of demand curve from?

11:52:45 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Where get data on scarcity pricing is?
11:54:32 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Even then, curve never apply people importing setting price or have own demand curve?
11:55:32 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Shape of demand curve seems to be old shape in Texas, directionally would expect, where anchor and pivot come from slope to demand curve, who came up with \$21,000?
11:57:51 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Similar value lost load in IRP?
11:57:56 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	None of inputs changed?
11:58:00 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	This is 2003 DOE study, 2009 DOE study, Christian Associate study, and a Billinton and Wacker study?
11:58:12 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Attempted assign dollar per kWh value customers have in three distinct rate classes?
11:58:26 AM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Took your energy proportion of classes multiplied by average of values?
12:00:06 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Just took nominal dollars and turned into 2028 dollars?
12:00:55 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Value of lost load?
12:01:03 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Cost of simple CT?
12:01:19 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	How come together?
12:02:10 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	D-9?
12:03:24 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Economic reserve margin equilibrium lost load and value keep lights on more willing build CT than go without energy, level those two meet, economic reserve margin?
12:04:15 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Not function of lights going out, if lights go out loss of value customers feel have gone without?
12:04:52 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Economic reserve margins winter and summer 3.57?
12:05:24 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Current LOLE in record, capacity position and load position?
12:05:52 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Calculated current LOLH and EUE decision?
12:05:58 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Do 2028 EUE and LOLH based on just above economic reserve margin?
12:06:20 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Back at 12:36.
12:06:38 PM	Session Paused	
12:43:12 PM	Session Resumed	
12:43:20 PM	Session Paused	
12:43:29 PM	Session Resumed	

12:43:42 PM	Chairman Chandler Note: Sacre, Candace	Back on the record.
12:43:58 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Examination (cont'd). Capacity contribution calculation, interaction expected production and expected demand?
12:44:47 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Trying to do equivalence to firm unit?
12:45:12 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	If not have LOLP, limited resource have capacity contribution?
12:45:39 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	About meeting reliability when capacity contribution about ability of resource contributed to reliability when needed most?
12:46:09 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Function of single cycle CT?
12:46:19 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	84 percent resource ability to meet is 84 percent reliability?
12:46:44 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Meeting reliability when struggling most?
12:47:04 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	LOLE a function of LOLP?
12:47:49 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	LOLP probability and LOLE is occurrence of loss of load event?
12:48:11 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	LOLH duration of event?
12:48:25 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Energy magnitude of loss of load event?
12:48:39 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Why should care about use of alternate reliability metrics in lieu of looking at LOLE?
12:50:52 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	If differences could mean varying solutions?
12:51:12 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Single LOLE lasts 14-hour basis same as single 15-minute LOLE same day?
12:51:26 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	As long as not go onto separate day?
12:51:51 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	If five MWh loss each and every hour, different than one hour at 70 MWh?
12:51:57 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Hours are helpful come up with only need fix two hours at a time?
12:52:34 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Used LOLH and LOLE before this case?
12:52:59 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Not what driven decision making?
12:53:05 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Type of responses have expectation that would recommend company use LOLP or LOLH instead of LOLE?
12:53:56 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Table 5, LOLHs and EUEs move proportionately to LOLE progressing through scenarios?
12:54:42 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Rounding error?

12:54:46 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Goes from one to half, observe what doing in modeling?
12:55:19 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Economic reserve margin not function of reliability, value subscribe reliability relation to costs using SCCT?
12:55:44 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Target equilibrium plus a little basis for counterfactual SB 4 meet or exceed reliability?
12:56:14 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Not look at current system reliability as function of forced outage rates?
12:56:58 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Saying to do economic target reserve margin taking current system adding load and running through scenarios and adding a little more load, running it again?
12:57:59 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Safe to say target economic reserve margin function of current system reliability, target whatever, same thing?
12:59:04 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	When run outage scenarios not look at correlation between outages or operating conditions among units?
1:00:05 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Astrape report, think possibly report easier to do or able come conclusion given number of observations thousands of megawatts compared to hundreds of megawatts?
1:02:44 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Be surprised PJM has 14 states?
1:02:58 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	States in PJM (reciting)?
1:03:18 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Been in industry couple decades?
1:03:23 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Indiana vertically integrated state, (reciting)?
1:04:18 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Six of 14 PJM vertically integrated?
1:04:24 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	All public utilities members of PJM?
1:04:38 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Heard of Bluegrass Units?
1:04:40 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	LG&E tried to buy CTs?
1:04:58 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Aware impact Texas Gas Transmission affect performance of Bluegrass?
1:05:19 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Bluegrass takes gas from Texas Gas?
1:05:29 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Trouble producing energy?
1:05:38 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Using same facilities, few gas lines running through US?
1:05:58 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	If portion are issues with commodity or transportation, impact people irrespective of regulation?
1:06:27 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Have obligation to serve take additional steps mitigate risk?

1:07:01 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Claiming risk not exist or not for you all because taken measure keep from occurring?
1:07:21 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Merchant might not require taking actions have taken?
1:07:44 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Had nothing to do with you all?
1:07:57 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Operating decisions pipeline makes?
1:08:08 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	In or out of RTO?
1:08:13 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Not logged in GADDS?
1:08:21 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Not something ignore, something taken care of?
1:09:01 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Have to have confidence continue past this year?
1:09:15 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Common mode outages seem causation part same item caused, correlation occurred at same time?
1:10:04 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Three actions taken, common mode outages not occur?
1:10:17 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Correlated outages, may be units of history of correlated outages not have same cause?
1:10:42 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	How study that?
1:11:28 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Extreme events, yellow dots above blue line?
1:11:47 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Significant outages, not saying because of weather, half of dataset above blue line?
1:12:04 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Days which had largest number of outages?
1:12:41 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Blue line average?
1:12:51 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Look at events one standard deviation above average certain proportion of outages result of forced outages?
1:13:10 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Measure away from average and large proportion forced outages what caused it?
1:13:11 PM	POST-HEARING DATA REQUEST Note: Sacre, Candace Note: Sacre, Candace	CHAIRMAN CHANDLER - WITNESS WILSON NUMBER OF EVENTS AT ONE STANDARD DEVIATION ABOVE AVERAGE IN WHICH CERTAIN PROPORTION WAS RESULT OF FORCED AVERAGES
1:14:40 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Post-hearing capacity factor, four PPAs all 600 MWs solar capacity factor, model dispatch output of two self-owned solar?
1:15:40 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Whatever produced used?
1:15:50 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Whatever solar served customers?

1:16:22 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace Solar 79 percent capacity contribution?

1:16:37 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace Just an output of how often solar met need of customers in hours loss of load probability?

1:17:25 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace What use numbers for?

1:18:13 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace Using as capacity expansion model?

1:18:24 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace Not just let it have full year reflected, have to assign monthly contribution number?

1:20:06 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace DSM/EE not created equal reliability?

1:20:26 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace May be program helps in summer not necessarily winter?

1:20:41 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace If problems seasonal, where in process give feedback to folks need create solutions?

1:22:48 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace Assume upgrade Mill Creek 2 and Ghent 2, not necessarily scenario keep and no add SCR, summer only demand response becomes valuable?

1:23:34 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace How play into it?

1:24:01 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace More efficient heat pump?

1:24:56 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace Stage 1 allowed to pick Mill Creek 1 Mill Creek 2 and Ghent 2 without SCR?

1:25:42 PM Chairman Chandler
Note: Sacre, Candace Bring up Bevington direct and exhibits DSM advisory council, page 128 of 170, cover letter.

1:27:26 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace Let me know when you see that, Exhibit JB-2?

1:29:20 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace Next page, DSM/EE Program Scoring Process?

1:29:26 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace Qualitative factors of objective, priority of those?

1:29:36 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace During winter peak periods?

1:30:07 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace Something would have told them, types of programs meet reliability?

1:30:26 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace Mill Creek 2 and Ghent 2 improves reliability without SCR?

1:30:53 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace After decided on CC?

1:31:02 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace DSM/EE scoring results?

1:31:16 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace Charging for school buses?

1:31:25 PM Chairman Chandler - witness Wilson
Note: Sacre, Candace Not go on in summer?

1:31:31 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Ever been given control profile, program reviewed and put through program?
1:32:18 PM	Chairman Chandler Note: Sacre, Candace	Mr. Crosby?
1:32:33 PM	Atty Crosby KU/LG&E - witness Wilson Note: Sacre, Candace	Redirect Examination. Rebuttal, page 12, PLEXOS?
1:33:05 PM	Atty Crosby KU/LG&E - witness Wilson Note: Sacre, Candace	Counsel pointed you to lines 9-11?
1:33:20 PM	Atty Crosby KU/LG&E - witness Wilson Note: Sacre, Candace	Companies changed PLEXOS used and rerun, what results?
1:34:03 PM	Atty Crosby KU/LG&E - witness Wilson Note: Sacre, Candace	Couple things that changed?
1:34:38 PM	Atty Crosby KU/LG&E - witness Wilson Note: Sacre, Candace	Change concerned DSM?
1:35:10 PM	Atty Crosby KU/LG&E - witness Wilson Note: Sacre, Candace	Also mentioned ProSim calibrated, explain what means?
1:36:35 PM	Atty Crosby KU/LG&E - witness Wilson Note: Sacre, Candace	Not have concerns PLEXOS as modeling tool, making sure properly calibrated?
1:37:06 PM	Chairman Chandler Note: Sacre, Candace	Next witness is?
1:37:08 PM	Atty Riggs KU/LG&E Note: Sacre, Candace	Tim Jones.
1:37:44 PM	Chairman Chandler Note: Sacre, Candace	Witness is sworn.
1:37:50 PM	Chairman Chandler - witness Jones Note: Sacre, Candace	Examination. Name and address?
1:38:11 PM	Atty Crosby KU/LG&E - witness Jones Note: Sacre, Candace	Direct Examination. Employer and job title?
1:38:28 PM	Atty Crosby KU/LG&E - witness Jones Note: Sacre, Candace	Testimony and responses?
1:38:38 PM	Atty Crosby KU/LG&E - witness Jones Note: Sacre, Candace	Corrections?
1:38:46 PM	Atty Crosby KU/LG&E - witness Jones Note: Sacre, Candace	If ask same questions, answers be same?
1:38:55 PM	Atty Crosby KU/LG&E - witness Jones Note: Sacre, Candace	Adopt as testimony?
1:39:44 PM	Chairman Chandler Note: Sacre, Candace	Ask reflect errata as text changes, red line. (Click on link for further comments.)
1:40:20 PM	Chairman Chandler Note: Sacre, Candace	Questions?
1:40:29 PM	Chairman Chandler Note: Sacre, Candace	Mr. Malone?
1:40:39 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Cross Examination. Three major growth components forecast annual energy requirements, outline those?
1:41:03 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Blue Oval Battery Park, space heating, and electric vehicle?
1:41:12 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Offsets to load growth?
1:41:49 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	DSM/EE come to mind, anything else?

1:42:30 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Wilson said DSM counted on as part of power supply?
1:43:40 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Ratepayers taking steps be involved?
1:44:12 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	How impacts overall load?
1:44:36 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	TAJ-1, Exhibit 1, reading, (click on link for further comments), from 2050, looks line flat line, no load growth?
1:45:55 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	EVs and DSM, electric efficiency, folks actually doing, behavioral?
1:46:22 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	EIA, familiar?
1:46:49 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Twelve percent growth in load growth, why stagnant load growth 2050?
1:47:13 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	2000 to 2020, 12 percent growth in two decades?
1:47:56 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Blue Oval, accounted for that, outside Blue Oval looked at website and touting fact economic growth and continued economic development, what not another Blue Oval next 20 years?
1:50:18 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Consider ancillary load growth associated with Blue Oval?
1:51:06 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Take into account major manufacturing?
1:51:37 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Ancillary load growth based on NAS and Toyota?
1:52:15 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	\$11.2 billion investments statewide, half in territories, assumptions stagnant load growth going forward?
1:53:51 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Filed CPCN Dec 2022, after that major economic expansion?
1:54:13 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Which one?
1:54:17 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	NAS in Carroll County, Toyota, back to use firm determine no load growth?
1:55:15 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Ancillary as well, more jobs?
1:55:57 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	If something major, given timelines putting in new capacity, how meet need/demand?
1:56:54 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Additional growth opportunities related to IRA?
1:57:34 PM	Atty Malone KCA - witness Jones Note: Sacre, Candace	Web site, will work with you, economic development plan, why is 2050 flat?
1:58:54 PM	Chairman Chandler Note: Sacre, Candace	Short recess until 2:15.
2:00:01 PM	Session Paused	
2:19:33 PM	Session Resumed	
2:20:07 PM	Chairman Chandler Note: Sacre, Candace	Counsel?

2:20:09 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Cross Examination. Final version of load forecast in late Nov 2022?

2:21:02 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Sometime in Oct 2022 load forecasting group provided with savings estimates?

2:21:27 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Since that time any recollection when received estimates for DSM/EE savings?

2:21:58 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Would have electronic records?

2:22:13 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace If ask in post-hearing request data from DSM plans provide that?

2:22:53 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Follow up ask provide preliminary information in Oct 2022 savings would be, provide?

2:23:35 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Look to that response workpaper provide estimates?

2:23:50 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Final estimates Nov 2022?

2:23:59 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Final information DSM savings reflected in confidential workpapers TAJ-3?

2:24:26 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Because final estimates in Dec not provide final load forecast?

2:24:54 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Compare differences between preliminary and final DSM savings expectations compare information in JI-2.85A and TAJ-3?

2:25:49 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Final conclusions presented in TAJ-3 more detailed level to workpapers underlying conclusion?

2:26:25 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Load forecasting distribution energy resources, how accounted for, involved in 2021 IRP?

2:26:54 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Direct testimony, bottom of page 4, final question, recommendations from Staff?

2:27:32 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Page 5, recommendations regarding IRP load forecast?

2:27:54 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Identify resources other than solar, how and why affect load, if at all?

2:28:11 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Understand recommendation?

2:28:18 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Load forecast imbeds certain assumptions rate of customer adoption distributed energy resources?

2:28:37 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Assumes all additions be solar additions?

2:29:36 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Answer to question yes?

2:29:46 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Load forecast assumes all additions be solar for forecast period?

2:30:17 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Exhibit TAJ-1 in front of you?

2:30:30 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Page 26, top of page Section 3.6.1.6, reads, reading (click on link for further comments), my question?

2:31:20 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Did not say what meant?

2:31:27 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace To extent historical data incorporates adoption of energy resources predates passage of Inflation Reduction Act?

2:32:01 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Have effect not imbedded change?

2:32:24 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Also state TAJ-1, page 23, Sections 3.6.1.2, bottom, see where?

2:32:52 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace First line says, reading, (click on link for further comments), do you mean that?

2:33:38 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Explain more?

2:33:58 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Your view presently for customer not economical decision install battery?

2:34:39 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Aware some customers pay demand rates?

2:34:49 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Consider all classes of customers in forecast?

2:35:41 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Testimony do not have data on customers in territory distributed resources?

2:36:01 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Familiar with confidential workpapers?

2:36:10 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Have access?

2:36:38 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Not mention elicit confidential from you, two subfolders, one is hourly updates?

2:37:18 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Go into that folder?

2:37:32 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Subfolder PV, select that?

2:37:45 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Should see a folder labeled confidential?

2:38:05 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Open that file and review it?

2:38:21 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Identify individual metered customers have distributed energy resources?

2:39:04 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Know you have information on customers have solar and battery?

2:39:20 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Have some number of customers have distributed energy behind meter?

2:39:35 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Customers have solar and battery?

2:39:42 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace In Oct 2022, data looking at now, number 242?

2:40:04 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace If asked in post-hearing data request, firm up number since that day?

2:40:46 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace 200-300 customers have distributed solar and battery behind meter, your view made irrational decision?

2:41:13 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Not sure responsive, people do for reasons beyond economics, solar and battery economically rational?

2:42:00 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Break even is greater than 15 to 20 years, on time of day rate or offsetting net metering?

2:42:30 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace So no don't think economically rational?

2:43:15 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Understand agree with me each of customers has own idea of what value would derive investing in distributed energy resource?

2:43:52 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Each of customers could assign value to making investment beyond payback period?

2:44:30 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Direct, page 7, lines 9-14, forecast for CPCN peak load in 2027?

2:45:35 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Winter peak increases from 2027 through end of forecast period in 2052?

2:45:55 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Observe difference summer and winter peaks difficult offset with solar generation occur in nondaylight hours?

2:46:29 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Customer pairs battery with solar does have something offer winter peaking period?

2:47:06 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Outside of time of use rates, have any programs through which company directs how customer cycle battery?

2:47:43 PM Chairman Chandler - witness Jones
Note: Sacre, Candace Examination. Programs discussed proposed to go '24 to '29?

2:48:06 PM Chairman Chandler - witness Jones
Note: Sacre, Candace Nobody told you what programs offer 2025 to 2050?

2:48:20 PM Chairman Chandler - witness Jones
Note: Sacre, Candace How possible take into account interaction between rates and usage, expectation now and 2050 LG&E or KU file for rate case?

2:49:02 PM Chairman Chandler - witness Jones
Note: Sacre, Candace Classes change, rates change, lots of difference things?

2:49:20 PM Chairman Chandler - witness Jones
Note: Sacre, Candace Time of day rate?

2:49:25 PM Chairman Chandler - witness Jones
Note: Sacre, Candace Rates with and without demand rates?

2:49:34 PM Chairman Chandler - witness Jones
Note: Sacre, Candace No differentiated energy rates?

2:49:47 PM Chairman Chandler - witness Jones
Note: Sacre, Candace How even start figure in 2030 or 2035 scenarios rate design may change to point where customers change usage behavior?

2:50:50 PM Chairman Chandler - witness Jones
Note: Sacre, Candace Missouri, on time of use, no switching?

2:51:04 PM Chairman Chandler - witness Jones
Note: Sacre, Candace Peak time rebate, reduce usage or demand during time period, provided compensation?

2:51:37 PM Chairman Chandler - witness Jones
Note: Sacre, Candace Model that in load forecast?

2:51:54 PM Chairman Chandler - witness Jones
Note: Sacre, Candace Even if people not participate and just install battery, how take that part into account when talking about DER or battery adoptions, arbitrage affect?

2:52:37 PM Chairman Chandler - witness Jones
Note: Sacre, Candace Time of day rate exist today?

2:53:21 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Cross Examination (cont'd). Is that what meant?

2:53:40 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Assumption is rates increase two percent per year after Jul 1 2025?

2:54:48 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Go five-year planning period, also give you two percent increase number?

2:55:29 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace More specific, rate of inflation, when you say rate of inflation, where did you get experiencing two percent rate of inflation?

2:56:25 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Be your aim align with Federal Reserve?

2:56:53 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace No analysts trying to figure out rate of inflation, look to others?

2:57:26 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Who third party you trust, trying to apply?

2:57:42 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace What you did, last time used two percent, this time use two percent?

2:58:03 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Following news?

2:58:08 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Higher than two percent?

2:58:13 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Significantly higher?

2:58:46 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Conclusion about degree of elasticity, based on historical analyses?

2:59:17 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Rate structures or changes talking about, those would be encourage customers shift demand in time?

2:59:49 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace With advent of new technologies like battery storage, customers have more control over timing of energy demand?

3:00:31 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Have some elasticity in demand?

3:00:45 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Assumed no change in rate structures?

3:01:00 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Heard have not rated resource changes?

3:01:18 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Have you done comparison to expectations if all relief granted two percent annual assumption?

3:01:54 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Think a safe assumption rates increase?

3:02:23 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Exhibit TAJ-1, flip to page 30, paragraph below Figure 24, three distinct phases in load forecast?

3:03:28 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace NMS-2 to new customers?

3:03:40 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Predicts rapid growth, mean that?

3:03:50 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Assume NMS-2 no longer available mid 2026 when capacity meets one percent of peak load, is that what meant?

3:04:18 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace If continue to offer NMS-2 beyond, could impact adoption rates?

3:04:39 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Expect to see rapid growth?

3:05:27 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Confused by that, read paragraph say one percent makes material difference in adoption rate?

3:06:55 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Focusing on single resource behind the meter solar?

3:07:07 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Not thinking about solar plus storage?

3:07:40 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Understanding load forecasting group not change approach to forecasting?

3:08:04 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Turn to direct at page 4, line 9, reading, (click on link for further comments), add specificity how many years using same methods?

3:10:56 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Same methods since joined load forecasting group in 2016?

3:11:13 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Able consult with other folks and clarify how long methods consistent before joined in 2016?

3:11:40 PM POST-HEARING DATA REQUEST
Note: Sacre, Candace ATTY MCRAE JOINT INTERVENORS - WITNESS JONES
Note: Sacre, Candace HOW LONG METHODS CONSISTENT BEFORE JOINED LOAD FORECASTING GROUP IN 2016

3:11:42 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Load forecasting in this proceeding, impacts from Inflation Reduction Act?

3:11:59 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Attempt account for IIJA Infrastructure Act as well?

3:12:27 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace First time attempt?

3:12:41 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Generous buffer after passage?

3:13:46 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Direct, page 3, Figure 1, illustrating effect of accelerating efficiency curves for central air and heat pump?

3:14:25 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Not everything?

3:14:35 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Decisions your team made?

3:14:59 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Y axis, representing percentage changes from baseline?

3:15:19 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Five percent increase from 2015 baseline?

3:15:29 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Compare solid lines to solid lines?

3:15:38 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Solid to solid and dot to dot?

3:15:52 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Pick a year, 2033, drew a line up until first dotted line, effect is difference between lower and higher in that year?

3:16:36 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Changes for five to ten percent increase, venture guess what the gap represents on percentage basis?

3:17:15 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Looks like one-one-hundredth?

3:17:46 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Smaller for heat pump baseline slightly wider?

3:19:07 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Itron, source for customer-initiated energy efficiency savings?

3:19:58 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Figure 11, page 19, direct, line 11, reading, (click on link for further comments), what meant?

3:21:23 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Looking at Figure 11, orange bars and blue bars, orange customer initiated savings?

3:21:53 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace What got from Itron?

3:22:45 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace If we wanted to take out DSM/EE contributions, top of orange bars exactly where is?

3:23:38 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Figure clearly presented and reading how should be read, Figure 11 on previous page, appreciate differences?

3:24:24 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Pages 19 and 20, Figure 10, not stacked on top of each other?

3:25:04 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Figure 11 if split out for each year?

3:26:17 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace DSM savings stacked with customer savings?

3:27:11 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Telling in Figure 11 have assumed level of customer initiated savings and whether DSM programs capturing some portion of that or supplemental to that?

3:28:20 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace What happening in this figure?

3:28:29 PM Chairman Chandler - witness Jones
Note: Sacre, Candace Examination. Zero dollars DSM/EE, expect bars be same or every one would come down by amount of blue or some other answer?

3:29:06 PM Chairman Chandler - witness Jones
Note: Sacre, Candace Orange take place of blue?

3:29:18 PM Chairman Chandler - witness Jones
Note: Sacre, Candace By equal amount?

3:29:26 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Cross Examination (cont'd). Recalling IRP proceeding, same distinction between savings DSM plans and customer-initiated savings, nothing to do with plans?

3:30:34 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace All forecasts some sort of customer savings?

3:30:56 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace In 2021 IRP case, asked about empirical data and historical data have for customer initiated savings did occur, recall that?

3:32:06 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Aware that Itron provides data about future energy savings on disaggregated basis?

3:32:35 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Aware which version Itron data relied on in this case?

3:33:00 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Don't know?

3:33:12 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Not aware offered in different ways?

3:33:46 PM Chairman Chandler
Note: Sacre, Candace Recess until 3:45.

3:34:03 PM Session Paused

3:49:00 PM Session Resumed

3:49:19 PM Chairman Chandler
Note: Sacre, Candace Back on the record.

3:49:24 PM Chairman Chandler
Note: Sacre, Candace Counsel, continue?

3:49:59 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Cross Examination (cont'd). Itron getting data from EIA?

3:50:24 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace National or regional data?

3:50:38 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Tell me states in East South Central region?

3:50:55 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Kentucky, Tennessee, Mississippi, Alabama?

3:51:24 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Those four states?

3:51:29 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace EIA data includes many states but not each and every one?

3:52:02 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Itron takes EIA data and gives to you, Itron able to disaggregate savings attributable to DSM programs?

3:52:42 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Itron able give you data on that basis?

3:53:36 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Itron can give it to you in disaggregated way now?

3:54:14 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Lead load forecasting group?

3:54:21 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Not have authority commit getting more refined data for load forecast?

3:54:37 PM Atty Crosby KU/LG&E
Note: Sacre, Candace Object if counsel going to testify. (Click on link for further comments.)

3:55:00 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Understanding in your load forecast effect of savings from past utility sponsor demand side management imbedded in load data?

3:55:28 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Not have a way to extract and attribute portion of savings to past programs?

3:55:49 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Not able produce forecast that excludes savings from past energy efficiency programs?

3:56:17 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace If had data disaggregated two types of savings, could model differently?

3:56:30 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Would you model it differently?

3:56:38 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Not able make that decision yourself?

3:57:04 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Would you grab the data, run it both ways?

3:57:27 PM Atty Crosby KU/LG&E
Note: Sacre, Candace Is that a post-hearing data request?

3:57:49 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Look at Page 3, ensured forecast is reasonable, read Response continues on to page 4, three particular practices, fair gist?

4:00:18 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace In this context what reasonable means to you, tell me forecast be reasonable and inaccurate?

4:01:35 PM Chairman Chandler - witness Jones
Note: Sacre, Candace Examination. Commission Staff?

4:01:57 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Cross Examination (cont'd). Very specific numbers, right, what aiming for gotten in ballpark?

4:03:19 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Talking about reasonableness, did I use good data, good methods, forecast reasonable?

4:04:01 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace On a monthly basis?

4:04:14 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Which vintage of forecast in process comparing against?

4:04:39 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Every year, 30-year forecast, looking at one particular analysis or looking back to 2016?

4:05:14 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Have a look back take 2016 forecast and compare 2022 actuals what thought would be?

4:05:44 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace How frequently?

4:05:52 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Since 2016, happened couple of times?

4:06:30 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Rebuttal, page 9, see table between lines 2 and 3?

4:07:06 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Footnote 12, refer to profiles for 2021, source for numbers?

4:07:34 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Numbers giving for second column average retail price of electricity, statewide price?

4:08:07 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Not utility specific?

4:08:20 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Includes all customer classes?

4:08:39 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace Only residential suggest not offer anything for commercial or industrial?

4:09:05 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace And maybe wrong, all classes merged together?

4:09:27 PM Atty McRae Joint Intervenors - witness Jones
Note: Sacre, Candace One of two things, look at 2021 EIA data and parse that?

4:10:35 PM Chairman Chandler
Note: Sacre, Candace Questions?

4:11:08 PM Chairman Chandler
Note: Sacre, Candace Next witness?

4:11:10 PM Atty Crosby KU/LG&E
Note: Sacre, Candace Call Charles Schram.

4:11:45 PM Chairman Chandler
Note: Sacre, Candace Witness is sworn.

4:11:57 PM Chandler Chairman - witness Schram
Note: Sacre, Candace Examination. Name and address?

4:12:10 PM Atty Crosby KU/LG&E - witness Schram
Note: Sacre, Candace Direct Examination. By whom employed and what capacity?

4:12:23 PM Atty Crosby KU/LG&E - witness Schram
Note: Sacre, Candace Testimony and responses?

4:12:29 PM Atty Crosby KU/LG&E - witness Schram
Note: Sacre, Candace Corrections or updates?

4:12:40 PM Atty Crosby KU/LG&E - witness Schram
Note: Sacre, Candace If ask same questions today, answers be same?

4:12:48 PM Atty Crosby KU/LG&E - witness Schram
Note: Sacre, Candace Adopt as testimony today?

4:13:01 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Cross Examination. Assume some familiarity with PJM?

4:13:20 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Familiarity with operations?

4:13:26 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Familiarity with North American Electric Reliability Corporation or NERC?

4:13:36 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Aware NERC issued cold weather standard for power plant operations?

4:13:45 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace A winter weather alert?

4:13:54 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Have read unusual for NERC have done?

4:14:33 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Aware Winter Storm Elliott?

4:14:46 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Past December around holidays?

4:14:48 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Aware PJM issued emergency operations?

4:14:51 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Mandate all generation come on line?

4:15:12 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Learned a lot come on line, possible penalties, not involved with PJM?

4:15:45 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Willing buy from whoever give them?

4:15:55 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Emergency bulletins need conserve?

4:16:15 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Testimony during Elliott rolling blackouts?

4:16:30 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace First time to have these blackouts?

4:16:40 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace How long operating in Kentucky?

4:16:49 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace What part of territory occur?

4:17:06 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Not know if KU, LG&E, or both?

4:17:11 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace When built first gas plant?

4:17:38 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace When built gas?

4:17:53 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Before gas plants, what fuel source?

4:18:42 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace How much are gas, five percent, ten percent?

4:19:13 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Coal 90 percent of generation before coal?

4:19:34 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace First time blackouts occurred?

4:19:43 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace In past, when relied on coal, rolling blackout?

4:20:15 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace Testimony first time rolling blackouts?

4:20:25 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace In past when relied on coal not have blackouts?

4:20:35 PM Asst Atty General Horn - witness Schram
Note: Sacre, Candace But never had rolling blackouts?

4:20:47 PM Chairman Chandler
Note: Sacre, Candace Mr. Malone?

4:20:59 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Cross Examination. Page 12, firm transportation, status of contract for proposed units?

4:22:01 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace How much cost?

4:22:32 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Per year, what is range?

4:22:47 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Familiar with Vector in Indiana?

4:23:01 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Familiar requested 850 MW unit?

4:23:11 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Know result of that?

4:23:18 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace What was that?

4:23:30 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace IRUC denied request?

4:23:48 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace How long entering into contract with Texas Gas?

4:23:58 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Ten year, twenty year?

4:24:24 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Vector, \$20 million a year for 800 MW, not know what transportation cost going to be?

4:25:20 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Negotiation so not have number?

4:25:31 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace A ceiling?

4:25:39 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Range of be a year?

4:25:52 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Important know what cost?

4:26:09 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace In testimony, page 14, gas purchases almost hedging, describe for me?

4:26:45 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Going to be firm contract?

4:27:04 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace How going to work from delivery standpoint?

4:28:30 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace If get what asking for, necessary pipeline upgrades?

4:29:22 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Not substantial?

4:29:37 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace SMRs, RFP no commercial response?

4:29:58 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Not contact about developers?

4:30:29 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Page 8, direct, PPAs. 60-day reopener, explain what is and any update?

4:31:36 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Has anyone called reopener?

4:31:54 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Page 9 talks about battery something to learn from, take a look?

4:32:27 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace To KCA, seems expensive, do analysis?

4:32:52 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Way handle when hedge, how work, buying on index?

4:33:52 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Fixed price financial purchase?

4:34:08 PM Atty Malone KCA - witness Schram
Note: Sacre, Candace Other 50 percent?

4:34:28 PM Chairman Chandler
Note: Sacre, Candace Ms. Huddleston?

4:34:38 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace Cross Examination. Familiar with Elliott?

4:34:55 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace Here during conversations with Bellar?

4:35:05 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace Aware Trimble Co 2 a derate of 269 MW?

4:35:24 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace Coal fired or gas fired?

4:35:30 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace Aware of derate of 120 MG?

4:35:40 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace What unit was that?

4:36:57 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace Mill Creek 1 lost 121 MW?

4:37:15 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace Coal fired or gas fired?

4:37:16 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace 269 plus 121 is 319 megawatts?

4:37:23 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace How many megawatts responsible?

4:37:40 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace Remember exactly how much?

4:38:02 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace 317 sound right?

4:38:09 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace More or less?

4:39:07 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace What percentage coal generation expect derate in cold weather?

4:39:19 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace If had been on line, would there have been load shed?

4:39:37 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace Even if not been perfect, would system have had load shed?

4:40:12 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace Attempt to import power from PJM?

4:40:29 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace Experience curtailment of imports?

4:40:37 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace Because keeping for members?

4:40:53 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace If 400 MW attempted to import been available, would there have been load shed?

4:41:19 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace If been member of PJM, had rolling blackouts?

4:42:02 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace Any utility within PJM experience rolling blackouts?

4:42:21 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace As percentage of generation, which has more KU/LG&E or PJM?

4:42:31 PM Atty Huddleston Sierra Club - witness Schram
Note: Sacre, Candace Capacity?

4:42:45 PM Chairman Chandler
Note: Sacre, Candace Mr. Cmar?

4:42:56 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Cross Examination. Discussion with Malone about available gas capacity, relied on publicly available information?

4:43:36 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Response, KCA 1-60, stand by this response?

4:44:20 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace How many MMBtu of daily capacity needed serve Mill Creek and Brown proposed NGCCs?

4:44:50 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Supervised team oversaw Jun '22 RFP energy and capacity?

4:44:59 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Power supply team?

4:45:07 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Communications between that team and the power engineering group concerning NGCCs prior to Jun 2022 RFP?

4:45:43 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Your team would have made submittal to interconnection queue?

4:46:04 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Two submittals self-build gas capacity prior to Jun 2022 RFP proposed NGCCs?

4:46:25 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Beyond that, not recall conversations with power engineering group?

4:46:47 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Agree have discretion which self-build options to submit within RFP?

4:47:16 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Discretion decide which options for gas units could have submitted?

4:47:30 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Also apply self-build solar and battery?

4:47:41 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Could have proposed different options?

4:47:59 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace What mean by right sized footprint?

4:48:29 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace One constraint site availability?

4:48:39 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Any other constraints?

4:48:48 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Agree have ability site self-build generation at sites companies own?

4:49:09 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Gives advantage in RFP process?

4:49:40 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Third parties not allowed submit proposals build at companies sites?

4:49:55 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Inherent advantages?

4:50:12 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Explain process use schedule dispatch for units?

4:51:15 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Companies use modeling schedule dispatch?

4:51:37 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Which models?

4:52:05 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Spell that?

4:52:23 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Know how long used model?

4:52:32 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Not use model represent unit dispatch constraints on transmission lines?

4:53:13 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Would be Oasis?

4:53:27 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace For public information about gas transmission capacity, where look for that?

4:53:56 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Give amount of unsubscribed capacity varies by location?

4:54:13 PM Atty Cmar Joint Intervenors - witness Schram
Note: Sacre, Candace Particular locations look to?

4:54:30 PM Chairman Chandler
Note: Sacre, Candace Ms. Grundmann?

4:54:51 PM Atty Grundmann Walmart - witness Schram
Note: Sacre, Candace Cross Examination. Page 4, Direct, RFP sought responses for resources available no sooner than 2025?

4:55:01 PM Atty Grundmann Walmart - witness Schram
Note: Sacre, Candace Date needed be available?

4:55:13 PM Atty Grundmann Walmart - witness Schram
Note: Sacre, Candace Have a date needed come on line?

4:55:37 PM Atty Grundmann Walmart - witness Schram
Note: Sacre, Candace Surprised received no SMR bids?

4:55:42 PM Atty Grundmann Walmart - witness Schram
Note: Sacre, Candace Aware commercially available?

4:56:17 PM Atty Grundmann Walmart - witness Schram
Note: Sacre, Candace Aware NRC only one approved one set new plans 50 MW SMR?

4:56:25 PM Atty Grundmann Walmart - witness Schram
Note: Sacre, Candace Other witness more insight SMR?

4:56:44 PM Chairman Chandler
Note: Sacre, Candace Recess until 5:40.

4:57:13 PM Session Paused

5:44:53 PM Session Resumed

5:45:14 PM Chairman Chandler
Note: Sacre, Candace Back on record.

5:45:16 PM Chairman Chandler
Note: Sacre, Candace Mr. Kurtz?

5:45:23 PM Atty Kurtz KIUC - witness Schram
Note: Sacre, Candace Cross Examination. Did an RFP for solar PPAs ended up with four contracts for 637 MWs total?

5:45:41 PM Chairman Chandler
Note: Sacre, Candace Mr. Kurtz, just a moment.

5:47:01 PM Chairman Chandler
Note: Sacre, Candace Mr. Kurtz, try again.

5:47:03 PM Atty Kurtz KIUC - witness Schram
Note: Sacre, Candace Cross Examination (cont'd). Four solar PPAs, 637 megawatts total be in service 2026?

5:47:27 PM Atty Kurtz KIUC - witness Schram
Note: Sacre, Candace If have 637 megawatts at 24 percent capacity factor fair for solar?

5:47:40 PM Atty Kurtz KIUC - witness Schram
Note: Sacre, Candace Know prices confidential, use benchmark \$40 MWh, reasonable?

5:47:51 PM Atty Kurtz KIUC - witness Schram
Note: Sacre, Candace Twenty years, over one billion dollar payment to developers?

5:48:07 PM Atty Kurtz KIUC - witness Schram
Note: Sacre, Candace Company not earn profit?

5:48:16 PM Atty Kurtz KIUC - witness Schram
Note: Sacre, Candace Least cost to ratepayers?

5:48:28 PM Atty Kurtz KIUC - witness Schram
Note: Sacre, Candace Levelized?

5:48:30 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	As opposed company-owned solar, highest cost year one?
5:48:40 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Four solar developers get contract and take to bank, compared to little equity?
5:49:31 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Using strength
5:49:32 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Commission not being asked preapprove contracts?
5:49:39 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Recover through fuel adjustment clause?
5:49:53 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	You understand or Conroy?
5:49:56 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Subject to highest cost unit limitation?
5:50:02 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Is risk over 20 years not get full recovery, agree?
5:50:22 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Why doing that if any risk?
5:50:42 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Debunks theory companies in own profit?
5:51:06 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Offset to one billion?
5:51:12 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Not claim as renewable clean power?
5:51:21 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Status of four PPAs?
5:51:48 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Sites under construction?
5:52:01 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Under construction?
5:52:06 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Deadline?
5:52:40 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	60-day price reopener?
5:52:57 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Why ever agree to price increase?
5:53:38 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Not make developer very happy?
5:53:49 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Aware Kollen proposal?
5:54:01 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Preapproval before contracts?
5:54:08 PM	Atty Kurtz KIUC - witness Schram Note: Sacre, Candace	Conroy better witness?
5:54:31 PM	Chairman Chandler Note: Sacre, Candace	Questions?
5:54:36 PM	Chairman Chandler Note: Sacre, Candace	Mr. Bellamy?
5:54:47 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Cross Examination. Firm transportation capacity on pipelines, available now, what expectation need for additional capacity this area?

5:56:26 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Said if got CPCN get agreements, before move forward?

5:57:31 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace What constraints when not have capacity?

5:57:50 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Enter into it?

5:58:10 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Enter into it and have capacity but paying immediately and they have chance to sell?

5:58:28 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace How long contract for firm capacity?

5:58:50 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace How far out let hold it?

5:59:02 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Know could contract end this year through 2028, further but not sure?

5:59:28 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace If sign contract out further, pay more?

6:00:03 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Mentioned term five to ten years typical for long-term?

6:00:41 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Discussion yesterday indicating right of renewal, explain how works?

6:01:27 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Tariff rate being max expect, indicating get contract giving amount of capacity some rate below tariff rate?

6:02:40 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace If get long enough term, ever have to pay more than tariff rate?

6:03:04 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Aware of contract?

6:03:17 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Any discussions with pipeline companies what do to pipeline capacity and increase in cost?

6:03:59 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Any indicated foresee need for new pipeline?

6:04:23 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Examination. Both meaning Tennessee and Texas?

6:04:40 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Includes Texas East?

6:04:45 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Backup opportunity, as available?

6:04:55 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Bundled offering?

6:05:29 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Cross Examination (cont'd). One pipeline where capacity situation better?

6:06:01 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Between Texas and Tennessee?

6:06:17 PM Atty Kurtz KIUC - witness Schram
Note: Sacre, Candace Cross Examination. Did say Brown site does/does not have firm transportation?

6:06:35 PM Atty Kurtz KIUC - witness Schram
Note: Sacre, Candace But not the other?

6:06:45 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Cross Examination (cont'd). Any upgrades necessary for gas from pipeline to Mill Creek?
6:07:09 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Included in cost?
6:07:11 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	What about Brown, upgrades get from delivery point to unit?
6:07:54 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Approximate cost of upgrades to Mill Creek?
6:08:09 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Reopener in PPAs, not know counterparties not know whether transmission upgrades necessary for projects?
6:08:58 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Examination. Effected systems study from another BA or back from TRANServe?
6:09:19 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Cross Examination (cont'd). Counterparty be responsible for transmission upgrades costs?
6:10:08 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Have any limit on extent raise price or be willing accept higher price?
6:10:32 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	How decide, two reopen, three they reopen, reject not move forward?
6:10:51 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	How make decision move forward?
6:11:10 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Asked Wilson about forced outage rate and why loss of pressure Elliott no be counted in that, deferred?
6:11:42 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Answer that?
6:12:16 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	How often fuel supply issues lead to ????
6:12:52 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	First time ever happen with coal or gas?
6:13:37 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Project engineering group responsible for making decision, how decision made, what resources included in modeling?
6:15:05 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	When got, all options included?
6:15:28 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Not have information how project engineering came up with options?
6:15:39 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Responses to RFP due on Aug 17 2023, day after passage IRA?
6:15:52 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Response, Staff First, Question 69, asks about price change, total 110 proposals?
6:17:04 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Five projects only projects updated when gave respondents opportunity?
6:18:07 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Five all from same respondent or multiple?
6:18:35 PM	Asst Gen Counsel Bellamy PSC - witness Schram Note: Sacre, Candace	Update bids community provision with IRA?

6:18:57 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Provisions discussed prior to ???

6:19:29 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Requirement increments of 100 MW?

6:19:56 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace What was reasoning?

6:21:22 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Examination. 250 same developer have accepted?

6:21:30 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Conforming response?

6:22:02 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Not distinction between having be conforming to have analyzed it?

6:22:26 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Cross Examination (cont'd). In anticipation of Good Neighbor Plan?

6:22:56 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Resource neutral, any explanation scale?

6:23:33 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Explanation of scale of capacity looking for so larger third-party generators more likely file response?

6:24:37 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Any discussion giving idea of scale?

6:24:52 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Suggesting target, response to an RFP typically be some cost?

6:25:21 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Fixed forward price for gas, index price or specific price get?

6:25:37 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace The commodity?

6:25:44 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Actual price or index price?

6:26:19 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace If future price specific price from that day or every month, one dollar below or after?

6:26:48 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace What typical term on fixed future contracts?

6:27:25 PM Asst Gen Counsel Bellamy PSC - witness Schram
Note: Sacre, Candace Months not years?

6:27:38 PM Vice Chair Hatton - witness Schram
Note: Sacre, Candace Examination. Question from Kurtz, new infrastructure, not call it pipeline, will be new pipelines?

6:28:55 PM Vice Chair Hatton - witness Schram
Note: Sacre, Candace New pipeline but short?

6:29:14 PM Commissioner Regan - witness Schram
Note: Sacre, Candace Examination. Direct, line 14, evaluating RFP responses, reviewed each and submitted to Wilson group?

6:29:49 PM Commissioner Regan - witness Schram
Note: Sacre, Candace Know what happens after that?

6:30:10 PM Commissioner Regan - witness Schram
Note: Sacre, Candace Only time input get RFP and pass on?

6:31:06 PM Commissioner Regan - witness Schram
Note: Sacre, Candace Project need corporate approval before RFP?

6:31:25 PM Commissioner Regan - witness Schram
Note: Sacre, Candace Comment about storm, never guarantee service 100 percent of time?

6:31:56 PM Commissioner Regan - witness Schram
Note: Sacre, Candace Same thing happen with portfolio asking approve?

6:33:54 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Examination. Been here whole hearing?

6:34:17 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Hand witness copy of KCA 5?

6:34:53 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Ever heard of NASVI?

6:34:56 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Heard of NASVI Gas and Electric Carbonization Forum?

6:35:15 PM Chairman Chandler - witness Schram
Note: Sacre, Candace All recommendations new to you in terms of presentation here?

6:35:40 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Recommendation 7, drug into this first four words?

6:36:18 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Reading, (click on link for further comments), see that?

6:36:47 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Reading, (click on link for further comments), see parenthetical there?

6:37:09 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Reading, (click on link for further comments), parenthetical?

6:37:33 PM Chairman Chandler - witness Schram
Note: Sacre, Candace LDC?

6:37:39 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Interdependence electricity and gas?

6:38:07 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Recommendation 11, reading, (click on link for further comments), read right?

6:38:51 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Look at 80 pages of document

6:39:56 PM Chairman Chandler - witness Schram
Note: Sacre, Candace All utilities vertically integrated in RTOs?

6:40:26 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Not position should be dismissive of entire document?

6:41:37 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Reading, (click on link for further comments), see that?

6:42:03 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Not necessarily depend on intrastate pipeline?

6:43:01 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Reading, (click on link for further comments), seem relevant recommendation?

6:43:26 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Reading, (click on link for further comments), reference to market mechanism?

6:44:18 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Elliott and Uri, Texas Gas has six, nine storage facilities in Kentucky and Indiana?

6:44:44 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Tennessee have any?

6:44:54 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Uri and limited Elliott, aware concern availability of commodity production that can backfill usage?

6:45:41 PM Chairman Chandler - witness Schram
Note: Sacre, Candace How about Elliott?

6:45:58 PM Chairman Chandler - witness Schram
Note: Sacre, Candace How impacted majority not have pressure deliver anyway?

6:46:35 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Concern with production reduction during extreme weather events mitigate or control?

6:47:23 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Derisking through diversity?

6:47:52 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Ambient derates for generators calculated as part of EFORd?

6:48:26 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Inputted to GADDS?

6:48:35 PM Chairman Chandler - witness Schram
Note: Sacre, Candace If or whether?

6:49:12 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Play golf in January in a pair of shorts, but benefit running 85 degree day in January or 35 degree day in January?

6:49:56 PM Chairman Chandler - witness Schram
Note: Sacre, Candace EFORd trailing metric?

6:50:04 PM Chairman Chandler - witness Schram
Note: Sacre, Candace How far back does EFORd go?

6:50:39 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Eight year overhaul periods?

6:50:55 PM Chairman Chandler - witness Schram
Note: Sacre, Candace End is rough?

6:51:01 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Ever get to start over forced outage rate?

6:51:28 PM Chairman Chandler - witness Schram
Note: Sacre, Candace What do?

6:52:08 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Bluegrass Units?

6:52:16 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Dual fuel capabilities?

6:52:22 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Not have dual fuel when tried to buy?

6:52:35 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Since EKPC at least one has dual fuel?

6:52:39 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Dual fuel available and operating during Elliott?

6:52:51 PM Chairman Chandler - witness Schram
Note: Sacre, Candace During entirety or at some point?

6:53:01 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Know if Bluegrass Unit affected by Texas Gas issue at Slaughters compressor station?

6:53:12 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Also connected to Texas Gas?

6:53:25 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Bluegrass Units between Trimble and Cane Run 7?

6:53:32 PM Chairman Chandler - witness Schram
Note: Sacre, Candace If Trimble impacted by pressure and Cane Run 7, everything between two impacted?

6:54:16 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Sinclair better or assume nobody answer?

6:54:24 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Nobody speak on behalf of BA?

6:54:31 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Those units in your balancing authority?

6:54:45 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Manual 13?

6:54:49 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Basis of reference not enough capacity within control zone?

6:55:15 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Referring to capacity, efficiency, and inability to transfer?

6:55:50 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Five developers updated bids?

6:56:10 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Written communication asking updated bids?

6:56:22 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Ask post-hearing actual request update bids?

6:56:23 PM POST-HEARING DATA REQUEST
Note: Sacre, Candace CHAIRMAN CHANDLER - WITNESS SCHRAM
Note: Sacre, Candace WRITTEN COMMUNICATIONS REQUESTING UPDATED BIDS

6:56:34 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Production tax credit transferability under IRA?

6:56:48 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Subsequent Treasury regs, direction from government how bill implemented, expect more comfortable more granular bids going forward?

6:58:06 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Expect any more clarity days bids due verse asking to give update?

6:58:22 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Reason expect had any more clarity days bids due than you asking give update?

6:58:52 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Companies getting in excess of \$10 a REQ?

6:59:27 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Ten dollar average?

6:59:59 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Sinclair more detail?

7:00:45 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Market has a priced in excess one, two, three years?

7:01:09 PM Chairman Chandler - witness Schram
Note: Sacre, Candace How far out have on price has real liquidity?

7:02:04 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Remember having question kicked to you, certain level of electricity produced by natural gas?

7:02:31 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Proposing increase?

7:02:42 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Heard Wilson natural gas more volatile market than coal?

7:03:05 PM Chairman Chandler - witness Schram
Note: Sacre, Candace And mechanisms procure two fuels not buying daily spot market, coal six months, one year, two year, know cost into future?

7:03:41 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Different?

7:03:48 PM Chairman Chandler - witness Schram
Note: Sacre, Candace Questions mitigate volatility natural gas as produces electricity for companies?

7:04:12 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	How plan addressing volatility increasing electricity produced by natural gas?
7:06:09 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Know how much spend on natural gas a year?
7:06:54 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Any thoughts other than not sustainable half fixed half spot?
7:07:12 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Thought adding two CCs and 80 percent capacity factor 40 years half fuel being at spot not sustainable, have any thoughts?
7:08:07 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Heard laddered purchasing, what thinking?
7:08:41 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Document effective Jan 1 2020 signed by you, Sinclair, Oaker, and Martin, whether still effective document?
7:08:42 PM	POST-HEARING DATA REQUEST Note: Sacre, Candace Note: Sacre, Candace	CHAIRMAN CHANDLER - WITNESS SCHRAM POWER SUPPLY COMMODITY POLICY NATURAL GAS FUEL FOR GENERATION DATED JAN 1 2020 STILL EFFECTIVE DOCUMENT
7:09:30 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Three-year cycle?
7:09:43 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Sinclair have any more reducing volatility?
7:10:02 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	SIEM a thing today, even after DC circuit case?
7:10:30 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Know what revenues are?
7:10:55 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Net of direct costs?
7:11:41 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Know whether told by BA could not participate because of transmission constraints in SIEM?
7:12:06 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Know if match ever made?
7:12:24 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Natural gas infrastructure, EIA about lack of additional capacity?
7:12:42 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Individual numbers, surprise to learn no additional capacity added?
7:13:09 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Understood at this point available pipeline capacity, not be there much longer?
7:13:36 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Have concerns as pipeline are fully subscribed, few capacity transmission additions/expansions lots of people's eggs in basket, rely on energy at any given time?
7:14:58 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	If can make them?
7:15:01 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Malone asking 850 MW CC IURC said no to Vectren on?
7:15:22 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Proposing to put in CTs at old AB Brown facility?
7:15:48 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Into Indiana?

7:15:57 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Not in operation, regulatory difficulties?
7:16:25 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Definition of MSSD?
7:16:46 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Document in record average outage lights turned off by Elliott, 50 something minutes, aware of that?
7:17:21 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	If wanted know what median outage was, who best person?
7:17:33 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Not sending out folks open breakers?
7:17:42 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Who at KU/LG&E ask?
7:17:43 PM	POST-HEARING DATA REQUEST Note: Sacre, Candace Note: Sacre, Candace	CHAIRMAN CHANDLER - WITNESS SCHRAM IF AVERAGE OUTAGE DURING ELLIOTT WAS 52 MINUTES WHAT MEDIAN OUTAGE FOR CUSTOMERS
7:18:20 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Non-SCR unit run in ozone season if alternative loss of load event?
7:18:48 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Cost Texas Gas CC at Mill Creek, longer delayed more expensive because cost accrues?
7:19:09 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Contribution in Aid of Construction, CIAC?
7:19:16 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Something do?
7:19:38 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Could divvy capital outlay, determination of whoever cost of capital lower?
7:20:06 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Additional option by which pay for it and then assign to somebody else?
7:20:33 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Contract with shipper, marketer use this?
7:20:56 PM	Chairman Chandler Note: Sacre, Candace	Redirect?
7:21:06 PM	Atty Crosby KU/LG&E - witness Schram Note: Sacre, Candace	Redirect Examination. Discussion about models dispatch, describe what is and how take care of serving energy?
7:22:20 PM	Atty Crosby KU/LG&E - witness Schram Note: Sacre, Candace	EMS seek to adjust as economically as possible?
7:23:14 PM	Chairman Chandler Note: Sacre, Candace	Recess for just a moment.
7:23:32 PM	Session Paused	
7:28:27 PM	Session Resumed	
7:28:57 PM	Chairman Chandler Note: Sacre, Candace	Back on the record.
7:29:01 PM	Chairman Chandler Note: Sacre, Candace	Call next witness.
7:29:03 PM	Atty Riggs KU/LG&E Note: Sacre, Candace	Philip Imber.
7:29:05 PM	Chairman Chandler Note: Sacre, Candace	Witness is sworn.

7:29:12 PM Chairman Chandler
Note: Sacre, Candace Examination. Name and address?

7:29:33 PM Atty Riggs KU/LG&E - witness Imber
Note: Sacre, Candace Direct Examination. Title and business?

7:29:43 PM Atty Riggs KU/LG&E - witness Imber
Note: Sacre, Candace Direct and rebuttal?

7:29:53 PM Atty Riggs KU/LG&E - witness Imber
Note: Sacre, Candace Submit errata?

7:30:00 PM Atty Riggs KU/LG&E - witness Imber
Note: Sacre, Candace If ask questions in testimony, answers be same?

7:30:08 PM Atty Riggs KU/LG&E - witness Imber
Note: Sacre, Candace Adopt as testimony?

7:30:16 PM Chairman Chandler
Note: Sacre, Candace Mr. Horn?

7:30:21 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace Cross Examination. Deal with EPA rules?

7:30:41 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace Submit written comments?

7:30:51 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace KU/LG&E comments reviewed by PPL before send in?

7:31:10 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace PPL review before send to EPA?

7:31:21 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace Submit comments on Good Neighbor rule?

7:31:34 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace What was theme of comments?

7:31:44 PM Chairman Chandler
Note: Sacre, Candace What in front of you?

7:33:43 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace Make mention of reliability issues?

7:33:55 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace Follow legal challenges?

7:34:06 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace Part of your job?

7:34:15 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace Good Neighbor rule, know how many challenges?

7:34:26 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace Use FIP example?

7:35:10 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace Aware SIP and FIP rules not applicable?

7:35:38 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace KU/LG&E comment on greenhouse gas?

7:35:52 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace Not submit something separate, one set of comments?

7:36:12 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace Input on comments?

7:36:19 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace Theme of those comments?

7:38:40 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace Fair to say pretty big rule, pretty big impact?

7:38:58 PM Asst Atty General Horn - witness Imber
Note: Sacre, Candace Proposed rule, not final?

7:39:12 PM	Asst Atty General Horn - witness Imber Note: Sacre, Candace	EPA puts out proposed rule for comments, final rule parties can challenge, proposed rule not a final rule?
7:40:03 PM	Asst Atty General Horn - witness Imber Note: Sacre, Candace	New units?
7:40:13 PM	Asst Atty General Horn - witness Imber Note: Sacre, Candace	Different from existing units?
7:41:12 PM	Chairman Chandler - witness Imber Note: Sacre, Candace	Examination. (b) is new, (d) is existing?
7:41:37 PM	Asst Atty General Horn - witness Imber Note: Sacre, Candace	Cross Examination (cont'd). EPA in past put out greenhouse gas rules for power plants?
7:42:06 PM	Asst Atty General Horn - witness Imber Note: Sacre, Candace	Some type of (unintelligible)?
7:42:53 PM	Asst Atty General Horn - witness Imber Note: Sacre, Candace	What happened with 111(d)?
7:43:09 PM	Asst Atty General Horn - witness Imber Note: Sacre, Candace	Litigated to U S Supreme Court?
7:43:22 PM	Chairman Chandler Note: Sacre, Candace	Mr. Malone?
7:43:49 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	Cross Examination. Not expecting final permits for Mill Creek and Brown until first quarter 2024?
7:44:16 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	Need by Oct 2023, why delay?
7:44:52 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	What discrepancy with Oct 31 2023?
7:45:09 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	Draft permit, public noticing, public hearing, walk me through steps?
7:45:44 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	Agencies have time to respond to comments?
7:45:58 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	How long public get to see draft?
7:46:09 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	How long after final permits become valid?
7:46:19 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	What happens if litigated, proceed construction or barred from doing so?
7:46:53 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	Not thinking get permit until next year?
7:47:18 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	If not get permit until next year, how know meet ????
7:47:56 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	Not know turbines until after bids back?
7:48:41 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	Final turbines installed completed before issue draft permit?
7:49:00 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	NGCCs looking to get subject to review?
7:49:20 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	Talk to me about NAQs emissions, is that part of process Mill Creek 1 and 2 and Brown?
7:50:43 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	NGCC subject to new source review?

7:50:51 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	Able avoid EPA participation in permitting process?
7:50:57 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	Explain?
7:51:11 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	Retrofits on air and water pollution, resource assessment retrofit wastewater discharge, Mill Creek 1, what entail?
7:52:38 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	If equipment not in place, how complying Div of Water restrictions into Ohio River?
7:53:19 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	Discharge into river, how complying?
7:54:39 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	Arrangement with Div of Water relative Mill Creek 1?
7:55:31 PM	Atty Malone KCA - witness Imber Note: Sacre, Candace	With respect to Mill Creek 1, retrofit cooling tower under Clean Water Act, what entail?
7:56:44 PM	Chairman Chandler Note: Sacre, Candace	Recess until 8:30.
7:57:07 PM	Session Ended	

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