

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC INVESTIGATION OF LOUISVILLE	)	
GAS AND ELECTRIC COMPANY AND	)	CASE NO.
KENTUCKY UTILITIES COMPANY SERVICE	)	2023-00422
RELATED TO WINTER STORM ELLIOTT	)	

NOTICE OF FILING

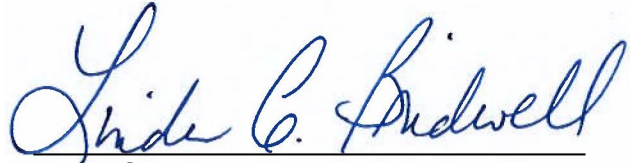
Notice is given to all parties that the following materials have been filed into the record of this proceeding:

- The digital video recording of the evidentiary hearing conducted on May 23, 2024 in this proceeding;
- Certification of the accuracy and correctness of the digital video recording;
- All exhibits introduced at the evidentiary hearing conducted on May 23, 2024 in this proceeding; and
- A written log listing, *inter alia*, the date and time of where each witness's testimony begins and ends on the digital video recording of the evidentiary hearing conducted on May 23, 2024.

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

Parties may request a copy of the annotated digital video recording of the hearing by submitting a written request by electronic mail to [pscfilings@ky.gov](mailto:pscfilings@ky.gov). A minimal fee will be assessed for a copy of this recording.

Done in Frankfort, Kentucky, on September 17, 2024.

A handwritten signature in blue ink that reads "Linda C. Bridwell". The signature is written in a cursive style with a horizontal line underneath the name.

Linda C. Bridwell, PE  
Executive Director

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KENTUCKY UTILITIES COMPANY SERVICE )  
RELATED TO WINTER STORM ELLIOTT )

CASE NO.  
2023-00422

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 May 23, 2024. The Formal Hearing Log, Exhibits, and Exhibit List are included with the recording on May 23, 2024;
2. I am responsible for the preparation of the digital recording;
3. The digital recording accurately and correctly depicts the Formal Hearing of May 23, 2024, and;
4. The Formal Hearing Log attached to this Certificate accurately and correctly states the events that occurred at the Formal Hearing of May 23, 2024, and the time at which each occurred.

Signed this 13<sup>th</sup> day of September, 2024.



Candace H. Sacre  
Administrative Specialist III



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



# Session Report - Detail

2023-00422 23May2024-A

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

Date:	Type:	Location:	Department:
5/23/2024	Public Hearing\Public Comments	Hearing Room 1	Hearing Room 1 (HR 1)

Witness: Lonnie Bellar; Robert Conroy; Charles Schram; David Sinclair; Stuart Wilson  
 Judge: Kent Chandler; Angie Hatton; Mary Pat Regan  
 Clerk: Candace Sacre

Event Time	Log Event
9:17:22 AM	Session Started
9:17:39 AM	Chairman Chandler Note: Sacre, Candace
	Opening remarks.
9:18:08 AM	Chairman Chandler Note: Sacre, Candace
	Entry of appearance.
9:18:18 AM	Atty Riggs LG&E/KU Note: Sacre, Candace
	Kendrick Riggs and Lindsey Ingram, also appearing on record today Allyson Sturgeon and Sara Judd.
9:18:41 AM	Asst Atty General Cook Note: Sacre, Candace
	Lawrence Cook.
9:18:47 AM	Atty Kurtz KIUC Note: Sacre, Candace
	Michael Kurtz and Jody Kyler Cohn.
9:18:53 AM	Atty Childers Sierra Club Note: Sacre, Candace
	Joe Childers and Kate Huddleston.
9:19:03 AM	Atty Malone KCA Note: Sacre, Candace
	Matt Malone.
9:19:16 AM	Atty Gary Joint Intervenors Note: Sacre, Candace
	Byron Gary, with me Shannon Fisk, Gilbert Zelaya, and Thomas Cmar.
9:19:28 AM	Staff Atty van Zyl PSC Note: Sacre, Candace
	Jurgens van Zyl and Ashley Hatcher.
9:19:39 AM	Chairman Chandler Note: Sacre, Candace
	Lovekamp email, proof of publication.
9:22:34 AM	Chairman Chandler Note: Sacre, Candace
	Public notice.
9:23:01 AM	Chairman Chandler Note: Sacre, Candace
	Motions or petitions.
9:23:13 AM	Chairman Chandler Note: Sacre, Candace
	Public comments.
9:24:20 AM	Chairman Chandler Note: Sacre, Candace
	Anything else?
9:25:50 AM	Chairman Chandler Note: Sacre, Candace
	First witness?
9:25:54 AM	Atty Riggs LG&E/KU Note: Sacre, Candace
	Mr. Ingram will present Lonnie Bellar.
9:26:04 AM	Chairman Chandler Note: Sacre, Candace
	Witness is sworn.
9:26:12 AM	Chairman Chandler - witness Bellar Note: Sacre, Candace
	Examination. Name and address?

9:26:24 AM	Atty Ingram LG&E/KU - witness Bellar Note: Sacre, Candace	Direct Examination. Employer and title?
9:26:38 AM	Atty Ingram LG&E/KU - witness Bellar Note: Sacre, Candace	Not filed written testimony?
9:26:44 AM	Atty Ingram LG&E/KU - witness Bellar Note: Sacre, Candace	But been identified as witness on data responses?
9:26:53 AM	Atty Ingram LG&E/KU Note: Sacre, Candace	Questions for direct testimony.
9:27:23 AM	Atty Ingram LG&E/KU - witness Bellar Note: Sacre, Candace	What happened during this winter storm?
9:35:54 AM	Atty Ingram LG&E/KU - witness Bellar Note: Sacre, Candace	During and after load-shedding event, explain what companies doing and what done since prevent recurrence?
9:39:11 AM	Atty Ingram LG&E/KU - witness Bellar Note: Sacre, Candace	Familiar with FERC/NERC report attached to Order opening this case?
9:39:30 AM	Atty Ingram LG&E/KU - witness Bellar Note: Sacre, Candace	One of goals describe large scope of Elliott and effects large area country?
9:39:46 AM	Atty Ingram LG&E/KU - witness Bellar Note: Sacre, Candace	Mentioned grid, talking about Eastern Interconnection in report?
9:40:02 AM	Atty Ingram LG&E/KU - witness Bellar Note: Sacre, Candace	Page 6, says, reading?
9:40:33 AM	Atty Ingram LG&E/KU - witness Bellar Note: Sacre, Candace	Also indicates, reading, remember that?
9:40:47 AM	Atty Ingram LG&E/KU - witness Bellar Note: Sacre, Candace	Companies at 317 MW not only ones shed load?
9:41:05 AM	Atty Ingram LG&E/KU - witness Bellar Note: Sacre, Candace	Data responses provided, corrections or additions?
9:41:25 AM	Chairman Chandler Note: Sacre, Candace	Mr. Cook?
9:41:49 AM	Asst Atty General Cook - witness Bellar Note: Sacre, Candace	Cross Examination. Started out at old KU premerger, were a plant engineer?
9:42:10 AM	Asst Atty General Cook - witness Bellar Note: Sacre, Candace	Know what takes to make electrons and shoot them out?
9:42:20 AM	Asst Atty General Cook - witness Bellar Note: Sacre, Candace	Been involved in processes yourself?
9:42:30 AM	Asst Atty General Cook - witness Bellar Note: Sacre, Candace	Summation you gave this morning, spinning reserve 350 to, what 750 spinning reserve?
9:42:52 AM	Asst Atty General Cook - witness Bellar Note: Sacre, Candace	More than double?
9:42:59 AM	Asst Atty General Cook - witness Bellar Note: Sacre, Candace	PJM curtailed you also, 400?
9:43:13 AM	Asst Atty General Cook - witness Bellar Note: Sacre, Candace	Think understand company's position, clarification, some think generating plants unreliable, impression you got, too?
9:44:22 AM	Asst Atty General Cook - witness Bellar Note: Sacre, Candace	In responses indicated fossil fuel fleet had capacity factor five years above 60 percent, is that pretty much?
9:45:00 AM	Asst Atty General Cook - witness Bellar Note: Sacre, Candace	Another company told me about equivalent availability factor, something recognize or called another name?

9:45:57 AM Asst Atty General Cook - witness Bellar  
Note: Sacre, Candace Happen to know what factor be for fossil fuel fleet over past five years, in record?

9:46:38 AM Asst Atty General Cook  
Note: Sacre, Candace Might pose post-hearing data request.

9:46:39 AM POST-HEARING DATA REQUEST  
Note: Sacre, Candace ASST ATTY GENERAL COOK - WITNESS BELLAR  
Note: Sacre, Candace EQUIVALENT AVAILABILITY FACTOR FOR FOSSIL FUEL FLEET OVER PAST FIVE YEARS

9:46:48 AM Asst Atty General Cook - witness Bellar  
Note: Sacre, Candace Know capacity factory for Brown?

9:47:30 AM Asst Atty General Cook - witness Bellar  
Note: Sacre, Candace Planned solar plant Mercer have tracking panels?

9:47:43 AM Asst Atty General Cook - witness Bellar  
Note: Sacre, Candace Maximized to capture as much solar as possible?

9:48:24 AM Asst Atty General Cook - witness Bellar  
Note: Sacre, Candace Going to be 26-28 percent?

9:48:51 AM Asst Atty General Cook - witness Bellar  
Note: Sacre, Candace If have another event similar to Elliott and needed 1000 MW, prefer to have available 1000 solar or 1000 MW coal/gas?

9:49:51 AM Asst Atty General Cook - witness Bellar  
Note: Sacre, Candace Position is company fossil plants highly reliable?

9:49:59 AM Asst Atty General Cook - witness Bellar  
Note: Sacre, Candace Believe data shows that?

9:50:10 AM Asst Atty General Cook - witness Bellar  
Note: Sacre, Candace One of measures proposes, at City Gate from that point onward into transmission for generation fleet pressure have special regulators?

9:51:35 AM Asst Atty General Cook - witness Bellar  
Note: Sacre, Candace Advantage be mitigating risk of pressure drop occurs on own system?

9:52:04 AM Asst Atty General Cook - witness Bellar  
Note: Sacre, Candace Not own Texas Gas Transmission?

9:52:10 AM Asst Atty General Cook - witness Bellar  
Note: Sacre, Candace Nothing company can do to address that?

9:53:14 AM Asst Atty General Cook - witness Bellar  
Note: Sacre, Candace Saw list of measures Texas Gas taken to mitigate recurrence on their line?

9:53:50 AM Chairman Chandler  
Note: Sacre, Candace Ms. Huddleston?

9:54:00 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Cross Examination. AG 1-2 attachment, sponsor?

9:54:15 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Understand updated version of AG 1-13(L) in 2022-00402?

9:54:24 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Backtrack AG 1-13(L), original events balancing authority area?

9:54:35 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace When first written?

9:55:01 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace How come to be written?

9:55:43 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Who involved in writing and reviewing?

9:56:30 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace AG 1-2 how updates come about?

9:57:20 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Turn to graph on page 3, updated document, changed from AG 1-2, the prior case?

9:58:09 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Differences in orange dotted line in first graph and second graph?

9:58:50 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Looking at first deleted graph, orange dashed line is below blue line early on?

9:59:14 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Has that changed with second graph?

9:59:29 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Tell a different story about what was happening early on in event?

10:00:47 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Cold weather outages and derates anomalous based on history?

10:01:47 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace In graph, labeled cold weather derates?

10:01:59 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Say derates not anomalous?

10:02:38 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Familiar with PowerPoint attached to Order opening investigation?

10:02:57 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace In PowerPoint and presentation, have that in front of you?

10:03:18 AM Atty Riggs LG&E/KU  
Note: Sacre, Candace Providing witnesses access to record.

10:03:21 AM Via Presentation Activated

10:03:42 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Turn to slide 4 and read label at top?

10:04:07 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace When appeared before legislature, mention problems experienced besides Texas Gas issues?

10:04:42 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Mention coal units gone offline?

10:05:06 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Mention 269 MW derate at Trimble Co 2?

10:05:24 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Not mention 121 MW derate at Mill Creek 4?

10:05:29 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Mention LG&E/KU lost owned fossil fuel generation enough have made up for 317 MW load shed?

10:05:43 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Mention OVEC imports declined substantially?

10:05:46 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Mention PJM stopped exporting to LG&E/KU?

10:05:52 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Talk about how LG&E/KU not part regional transmission organization?

10:06:02 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace What rationale not mentioning any of those?

10:06:02 AM Via Presentation Deactivated

10:06:44 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Said combination of things that led to outages?

10:07:33 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Except for discovery in 2022-00402, any place where LG&E/KU publicly walked through all other combinations?

10:08:12 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Not only not asked to present, aware any instance LG&E/KU made this public and shared except for prior case?
10:08:37 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Think by not sharing other information gave misimpression of crisis to legislature and customers only problem was pipeline?
10:09:43 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Should add, give them this impression which be inadvertent?
10:10:30 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Think public would have understood?
10:10:41 AM	Atty Ingram LG&E/KU Note: Sacre, Candace	Object.
10:10:58 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Cross Examination (cont'd). Think Kentuckians deserve to know all causes?
10:11:49 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Not aware of any questions asked?
10:12:08 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Refer to SC 1-12 this case, sponsored testimony?
10:12:44 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Confirmed on Dec 25 26 and 27 LG&E/KU lost no megawatt hours due to maintenance?
10:12:58 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Indicative of system at full capacity no margin for error?
10:13:20 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	If no MWh due to maintenance an anomalous event?
10:14:46 AM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Examination. How understood question, read this as asking anything being maintained or coded as maintenance?
10:15:21 AM	Chairman Chandler - witness Bellar Note: Sacre, Candace	If had forced outage, something broke, went on forced outage, fixing it, change reporting to maintenance or just until fixed and brought back on line?
10:16:01 AM	Chairman Chandler - witness Bellar Note: Sacre, Candace	If forced outage on 24th, three-day fix, those megawatts not show up in response?
10:16:18 AM	Chairman Chandler Note: Sacre, Candace	Thank you.
10:16:20 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Cross Examination (cont'd). System stretched to limit, in that situation, be no maintenance outages?
10:17:25 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Dec 25 26 and 27 days in which system was stressed or needed high levels production?
10:17:42 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	If were cold, lack of maintenance reflective of stressed system?
10:18:09 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	What difference between cold and extremely cold?
10:19:04 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Attachment to PSC 1-85, which you sponsored, after action report.
10:20:42 AM	Chairman Chandler Note: Sacre, Candace	Recess until 10:31.
10:21:03 AM	Session Paused	
10:36:19 AM	Session Resumed	



10:36:20 AM	Atty Riggs LG&E/KU Note: Sacre, Candace	Public notices.
10:36:35 AM	Chairman Chandler Note: Sacre, Candace	Thank you very much, Mr. Riggs.
10:36:37 AM	Chairman Chandler Note: Sacre, Candace	Ms. Huddleston?
10:36:43 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Cross Examination (cont'd). Attachment PSC 1-85, after action review?
10:36:56 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	What difference this and document talking about earlier?
10:37:39 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	This review describes Elliott and states, reading, correct?
10:37:55 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Has notification straight-line winds, how company thinks about events, separately track, other things tracked?
10:39:27 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	What about on generation side, track either of those things?
10:40:25 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Said earlier cold, extremely cold, drawing a temperature line?
10:40:35 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Recall back August-September, discussions with Sinclair, graph old weather event days, rebuttal in prior case?
10:40:56 AM	Atty Ingram LG&E/KU Note: Sacre, Candace	Object to question.
10:41:18 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Recall at hearing Sinclair graph and discussions included cold weather event days?
10:41:47 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Refer to SC 1-14, graph has few dots for cold weather event days, see graph?
10:43:22 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Five dots on graph representing cold weather event days, correct?
10:43:36 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Are five dots for cold weather event days representative all days when company preparing for extreme cold weather?
10:44:10 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Attachment to PSC 1-85, page 2, states, reading, correct?
10:44:31 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Page 2 states, reading, that correct?
10:44:44 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Also states under things that did not go well, reading, correct?
10:45:06 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Say more about what that second sentence means?
10:45:34 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	PSC 1-23, sponsor?
10:45:56 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Response states, reading, correct?
10:46:12 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	How square that idea with statement in attachment that said, reading?
10:46:56 AM	Atty Huddleston Sierra Club - witness Bellar Note: Sacre, Candace	Described cold weather event protocols implement for generating units?

10:47:07 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Companies implement protocols when temperate weather in 70s?

10:47:17 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Why is that?

10:47:33 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace At Feb 2 2023 interim legislative hearing?

10:47:43 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Watched TVA presentation?

10:47:48 AM Atty Huddleston Sierra Club  
Note: Sacre, Candace Pull up PowerPoint TVA gave and move enter as hearing exhibit.

10:48:24 AM Chairman Chandler  
Note: Sacre, Candace Mark as SC Hearing Exhibit 1.

10:48:29 AM Atty Ingram LG&E/KU  
Note: Sacre, Candace Objection.

10:48:29 AM Via Presentation Activated

10:48:37 AM SIERRA CLUB HEARING EXHIBIT 1  
Note: Sacre, Candace ATTY HUDDLESTON SIERRA CLUB - WITNESS BELLAR  
Note: Sacre, Candace TENNESSEE VALLEY AUTHORITY POWERPOINT PRESENTATION  
FEB 2 2023

10:49:08 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Cross Examination (cont'd). Recall seeing presentation from TVA?

10:49:19 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Look consistent with presentation?

10:49:30 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Recall TVA discussing issues with coal units TVA experienced during Elliott?

10:49:47 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Recall which coal units had issues?

10:50:00 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Refer to PSC 1-36, responding witness?

10:50:30 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Discussion of energy deliveries from OVEC?

10:50:40 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace This states, reading (click on link for further comments), correct?

10:51:00 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Outage causes listed here, Clifty Creek 1 planned outage?

10:51:07 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Clifty Creek 3, it says, reading (click on link for further comments), correct?

10:51:16 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Clifty Creek units are coal units?

10:51:24 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace What tube weld issue, header leak, mean?

10:51:53 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Be a forced outage?

10:51:56 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Clifty Creek 6, tube leak, sounds like something similar?

10:52:36 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Clifty Creek 6, tube leak, what that be?

10:52:54 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Kyger Creek 3, boiler plugged, what mean?

10:53:23 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Again mechanical failure by unit?

10:53:29 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Kyger Creek 4, pump drain valve and tube repair, what mean?

10:53:45 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Mechanical issue?

10:53:52 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Know capacity for each of these units?

10:54:07 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Fair to say large coal units offline?

10:54:48 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace If not in record, ask provide n post-hearing data request?

10:54:49 AM POST-HEARING DATA REQUEST  
Note: Sacre, Candace ATTY HUDDLESTON SIERRA CLUB - WITNESS BELLAR  
Note: Sacre, Candace CAPACITY OF EACH OF LG&E/KU UNITS

10:55:03 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Company involved in maintenance or related how coal units at OVEC maintained?

10:55:44 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Aware of other outages at coal units in Kentucky during Elliott?

10:56:18 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Asked other utilities about outages and derates during Elliott?

10:56:50 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Nothing systemic get with other utilities after action report?

10:57:02 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Coal units offline during winter weather?

10:57:43 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace LG&E/KU coal units not perform at 100 percent capacity?

10:58:14 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace What are expectations, what percentage expect coal units perform?

10:59:03 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace As headed into emergency situation, discount coal capacity at all or anything else due to winter weather?

11:00:21 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Going into weather event, are saying expecting 100 percent capacity or 80 percent or not making forecast at all?

11:01:01 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace PSC 1-23, response states, reading (click on link for further comments), correct?

11:01:28 AM Via Presentation Deactivated

11:01:56 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Bottom of page 2?

11:02:20 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Say even when ample transfer capability?

11:02:25 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace What mean ample transfer capability?

11:02:33 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Issues with purchase power from MISO, relevant to this statement?

11:03:09 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace LG&E/KU pursuing efforts to strengthen ties with neighbors?

11:03:46 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace What about for PJM, what led to PJM curtailing?

11:04:27 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace LG&E/KU within PJM would that have been curtailed?

11:04:39 AM Atty Ingram LG&E/KU  
Note: Sacre, Candace Objection.

11:04:52 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace LG&E/KU look to experiences other utilities in RTO to inform analysis whether join?

11:05:42 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Response to SC Supplemental 2-1, sponsored?

11:06:07 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Familiar with response?

11:06:12 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Request asks companies describe how account for, reading, correct?

11:06:24 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Responded, reading, correct?

11:06:57 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Recall hearing in August Sinclair discussing how coal unit is machine like a car?

11:07:18 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Agree with the idea that coal unit a machine like a car?

11:07:35 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Agree over time coal unit breaks down?

11:07:48 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Back to Supplemental Request 2-1, state in (b), reading (click on link for further comments), correct?

11:08:05 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace State, quote, reading, correct?

11:08:15 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace What is logic behind increasing outages for near-term retirements but not incremental increase other plants?

11:09:37 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace What getting at, seems over time would need more maintenance?

11:10:46 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace As car gets older, reasonable think coal unit have more things breaking down and more outages to maintain?

11:12:06 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Not making generalized outage rate assumption, need more maintenance?

11:12:40 AM Atty Huddleston Sierra Club - witness Bellar  
Note: Sacre, Candace Evaluated combination of solar, wind plus storage for winter weather?

11:13:59 AM Chairman Chandler  
Note: Sacre, Candace Mr. Fisk?

11:14:30 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Cross Examination. Low gas pressure issue started Dec 23?

11:15:09 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Led to derates and outages about 1 pm?

11:15:17 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace In total, those between about 688 and 846 MW?

11:15:26 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Before 3 pm, system begun to stabilize again?

11:15:50 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace EEA2, so reduced it from EEA3?

11:15:57 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Which meant emergency situation less severe?

11:16:02 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Started supplying 240 MW back into contingency?

11:16:17 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Gas pressure issue outages occurring?

11:17:09 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace At time begun stabilize level of outages from gas pressure issue in 688 to 846 MW range?

11:17:48 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace An hour after system begun stabilize, Trimble County 2 had 269 MW derate?

11:18:04 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Shortly thereafter, Mill Creek 4 had 121 MW derate?

11:18:20 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace At same time, LG&E receiving 90 MW less from OVEC plants?

11:18:35 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace In AG 1-14, 90 MW sounds right?

11:18:43 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Also during this time, not caused by Elliott, Trimble County 1 on forced outage?

11:18:56 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace About 398 MW lost?

11:19:09 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Also, at that time, Brown 3 on derate of 56 to 76 MW, right?

11:19:23 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Adding amounts outages and derates, short 900 MW coal capacity?

11:19:52 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace At time load shedding began, had larger deficit of coal capacity than gas capacity?

11:20:12 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Coal derates happened after system destabilized?

11:20:23 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace In terms of approximate cause in timing, those events much closer to load shed than when gas supply problem started?

11:20:40 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace As been discussed, around 4:29 pm, PJM curtailed 400 MW of sales to company?

11:20:50 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace PJM not have load sheds during Elliott?

11:21:12 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace LG&E not able purchase power from MISO during Elliott?

11:21:52 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace PJM not available ended sales outside of PJM?

11:21:58 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace For MISO, not matter of availability, not have agreement buy from them?

11:22:19 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Did MISO have load sheds during Elliott?

11:22:36 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Two major RTOs near LG&E territory, neither one had load shed?

11:22:46 AM Atty Ingram LG&E/KU  
Note: Sacre, Candace Objection.

11:23:05 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Brown 3 had derate increased to 291 MW late Dec 25?

11:23:40 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace And unit went offline evening Dec 25?

11:23:45 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace And that was forced outage?

11:24:00 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Schram know whether forced or not?

11:24:07 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Staff 1-51, one of respondents?

11:24:37 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Towards bottom, listing actions taken into consideration before shedding load?

11:25:20 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace See towards bottom bullet points listing of actions?

11:25:35 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Sponsor this portion or Conroy?

11:25:50 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Second to last bullet point, reduce load public appeals?

11:25:59 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace What referring to?

11:26:18 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Foresee large weather event coming, something do help manage?

11:27:15 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Public appeals lead customers use less energy?

11:27:27 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Who responsible for getting public appeals out?

11:27:53 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Who ultimately responsible for doing that?

11:28:50 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Attachment to PSC 2-12, after action review?

11:29:29 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Attachment to that?

11:29:32 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Are sponsor on document?

11:29:36 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Create document, or who?

11:30:10 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Towards bottom of second page header summary recommendations, see that?

11:30:26 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace At very bottom, says what went well and, next page, what did not go well?

11:30:37 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Under what not go well, identified the public appeal occurred after the load shed rollouts began?

11:30:46 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Type of public appeal just talking about?

11:30:52 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Why public appeal not go out until after load shed started?

11:32:10 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace When companies aware Elliott coming?

11:32:35 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Public appeals tied when know coming or real risk?

11:33:52 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Since Elliott instituted changes when public appeals go out?

11:34:33 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Know who have sense what changes may or may not been made?

11:35:00 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Talking about steps taken in response to Elliott, fuel security analysis?

11:35:18 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Know timing on that?

11:35:28 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Internal analysis?

11:35:43 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Companies intend produce analysis to parties when complete?

11:35:56 AM Atty Fisk Joint Intervenors  
Note: Sacre, Candace Post-hearing data request for that.

11:35:57 AM POST-HEARING DATA REQUEST  
Note: Sacre, Candace ATTY FISK JOINT INTERVENORS - WITNESS BELLAR  
Note: Sacre, Candace FUEL SECURITY ANALYSIS

11:36:08 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Referred installing better software deal with pressures issue?

11:37:16 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Installing in Trimble County?

11:37:22 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace In Trimble County?

11:37:48 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace What about Cane Run?

11:38:15 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Installing software on new Mill Creek 5?

11:39:20 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Significant cost around software put on Trimble County?

11:39:38 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Was software available before Elliott?

11:39:44 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Company not aware of it?

11:40:33 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace On-site compression option what doing at Mill Creek 5?

11:40:56 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace How much additional cost is that on-site compression at Mill Creek 5?

11:41:14 AM Atty Fisk Joint Intervenors  
Note: Sacre, Candace Make that request also.

11:41:15 AM POST-HEARING DATA REQUEST  
Note: Sacre, Candace ATTY FISK JOINT INTERVENORS - WITNESS BELLAR  
Note: Sacre, Candace ADDITIONAL COST FOR ON-SITE COMPRESSION AT MILL CREEK 5.

11:41:23 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Cost already factored into proposal or new cost on top of cost estimate?

11:41:59 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Cane Run, what steps taking?

11:42:38 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace In summary this morning, not hear about addressing outages at coal unit, what going on there?

11:43:35 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Within revised winter operating procedures or other steps?

11:44:26 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Load shed events during Elliott lasted a little under four hours?

11:44:42 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Asked by Cook prefer have fossil or solar?

11:44:58 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace 1000 MW storage also addressed issue?

11:45:35 AM Chairman Chandler  
Note: Sacre, Candace Recess until 11:55.

11:53:07 AM Session Paused

11:56:40 AM Session Resumed

11:56:51 AM Chairman Chandler  
Note: Sacre, Candace Continue?

11:57:00 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Cross Examination (cont'd). Gas compression at Mill Creek 5 require change to air permits?

11:57:34 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Changes to operating procedures coal units, costs related to those steps?

11:57:56 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Know range?

11:58:05 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Someone else?

11:58:29 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Response to JI 1-19, you and Sinclair responding witnesses?

11:59:00 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Some parts better asked of Sinclair?

11:59:15 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Asking whether evaluated various resource options improving reliability, et cetera, then lists different options, correct?

11:59:48 AM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Refer to annual business planning process and IRP process?

12:00:03 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Still planning file 2024 IRP in October?

12:00:17 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace What mean by likely include things?

12:01:12 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Which in terms of greater extent, which think be covered?

12:02:01 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Response JI 2-3, refers back to 1-19 and asks evaluate options in IRP each can play improving reliability, et cetera, response says, reading, how capture benefits to reliability resource options?

12:03:58 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Some resources play bigger role available moderate conditions seen during Elliott?

12:05:13 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Regards battery, understand how model economics, batteries provide other services to system than energy?

12:06:35 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Taking steps to develop modeling enable quantify economic value that storage provides?

12:07:48 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Wilson both research on storage and modeling and how modeled?

12:08:00 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Demand response could play role?

12:08:16 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Way to factor that into IRP analysis?

12:08:23 PM Atty Ingram LG&E/KU  
Note: Sacre, Candace Object.



12:09:35 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Demand response Wilson person?

12:09:55 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Response to JI 1.2, request evaluations of potential transmission line steps taken to improve reliability?

12:10:57 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Subpart (f) says, reading, right?

12:11:03 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace And your response is, no, because no lines require Commission approval?

12:11:13 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Clarify, saying no lines looking at or lines looking at not require Commission approvals?

12:11:45 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Examination. Make like three different things, SERTP study, did look at what be changes in transmission system import additional megawatts?

12:12:28 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Where in type study include not studying, have not studied, not contemplating, within that, or because SERTP, not we?

12:13:36 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Not shepherding resources bring proposal forward or anticipate regulatory filing build anything?

12:13:56 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Cross Examination (cont'd). Question JI 2.3, concept virtual power plant, last sentence key issues need analyzed and addressed, see that?

12:14:32 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Intending address in IRP or saying at some point need addressed?

12:15:21 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Response Staff 1-19, sponsored by you Sinclair and Schram?

12:15:53 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace State, reading, right?

12:16:06 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Similar call take place with Texas Gas in advance of Elliott?

12:16:28 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Texas Gas also held meeting on Nov 29 2023 discussing additional changes implemented since Elliott?

12:17:14 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Attachment 2, Staff 1.19, Slaughters, site visit summary?

12:18:24 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace One of measures Texas Gas taken in response to events completing reliability assessment?

12:19:30 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Page 1, after list of bullet points, see that?

12:19:43 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Reference to, reading?

12:19:57 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Requested, not yet received?

12:20:02 PM Atty Fisk Joint Intervenors - witness Bellar  
Note: Sacre, Candace Received copy yet?

12:20:30 PM Chairman Chandler  
Note: Sacre, Candace Mr. Malone?

12:20:53 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Cross Examination. Tell me respect to Elliott what capacity factor coal units operated at?
12:21:20 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	System overall, been about 90 percent?
12:21:36 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Coal totaled 70 percent of all generation?
12:21:53 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Solar about zero percent?
12:22:09 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	How describe coal fleet performance during Elliott?
12:22:42 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	What happened if Mill Creek 5 up and loss of gas happened and Elliott happened?
12:23:13 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Acknowledge been bad problem without software upgrade?
12:23:35 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	When think about solar questions, how account for solar in cold weather, count on it at all?
12:24:23 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Steps to avoid load curtailment, companies revised load forecast going forward?
12:25:27 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Given increase in load, what value associated with retaining coal fired plants to companies?
12:26:11 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Describe value to companies of coal fired generating units?
12:26:44 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	What role coal fired generating units play meet demand during Elliott?
12:27:03 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Had not been available what have happened?
12:27:40 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Fair to say coal fired units performance what prevented total blackout of system?
12:28:11 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Avoid load curtailment, as pertains to role coal fired generation plays, transition to generation portfolio excludes coal?
12:28:53 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Assuming transition, how think impact on rates, what that be?
12:29:31 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Time went before legislature and talking about Elliott, gas was root cause, still stand by that statement?
12:29:58 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Think that natural gas plants without on-site fuel storage reliable as coal plant with on-site fuel storage?
12:30:49 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Firm transportation best analogy right to drive but gas supply is different?
12:31:20 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Does not confirm gas supply, ability to move gas?
12:31:39 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Commission granted approval shut down Mill Creek 1 and 2 once 5 up and running, if had event like Elliott, how ensure system reliability not compromised if not replace Mill Creek 1 capacity?

12:32:51 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Have companies identified greenfield sites at which new gas plant located?
12:33:25 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Confirm companies committed to maintaining Mill Creek 2 as retirement date approaches?
12:34:10 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Aug case talked about greenhouse gas rules, issued final rules, familiar?
12:34:23 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	My understanding is now 40 percent capacity factor allowance?
12:34:51 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Companies looked at impact this change on cost of plant?
12:35:18 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Fair to say companies may do so depending on how legal compliance plays out?
12:35:44 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Assuming upheld, companies revisit combustion turbines are more economic alternative?
12:36:18 PM	Atty Malone KCA - witness Bellar Note: Sacre, Candace	Concerned about GHG rules impair system reliability and ability manage extreme weather events?
12:37:05 PM	Chairman Chandler Note: Sacre, Candace	Recess until 1:30.
12:37:36 PM	Session Paused	
1:34:54 PM	Session Resumed	
1:35:17 PM	Chairman Chandler Note: Sacre, Candace	Back on the record.
1:35:21 PM	Chairman Chandler Note: Sacre, Candace	Mr. Kurtz?
1:35:26 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Cross Examination. Response 2.2 to Joint Intervenors, future items and events, account for Commission Order, companies updated plan Brown 12, NGCC, replace Brown 3, coal unit, in 2030, and Ghent 2 retire 2034, this submitted Mar 1 this year?
1:36:14 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Before 111(b) and (d) rules came out?
1:36:20 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Coal unit under new CO2 rules, to operate past 2038, coal unit have to install carbon capture sequestration?
1:36:34 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	To install by '32 to operate beyond '38?
1:36:40 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Commercially viable in your opinion?
1:36:53 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Is geological formation near coal units would take CO2 if could capture it?
1:37:11 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Have to build pipeline?
1:37:15 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Operate after 2031 through 2038, install 40% natural gas co-fire at coal plants?
1:37:42 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	40% natural gas co-firing feasible at coal plants?

1:38:35 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Go through all that effort and cost and buy you how many years, six or seven more years?
1:39:03 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Do nothing, have to retire at end of 2031?
1:39:10 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	2030 even worse, between now and end of 2030, run as hard as you want no penalty?
1:39:35 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Combined cycle, Mill Creek 5 considered new combined cycle CO2 rule?
1:39:43 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	If not do anything else, run at no more than 40% capacity factor?
1:39:56 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Operated at 40 percent capacity factor, what expected run at?
1:40:07 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Heat rate reduction running at lower capacity factor?
1:40:33 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Get same amount of energy have to build two and run each at 40 percent versus plan was run at 78 percent?
1:41:00 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Want run past 40 percent, 90 percent carbon capture?
1:41:12 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Does that technology exist?
1:41:22 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	LG&E/KU have experience carbon capture sequestration?
1:41:49 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Testing done at 2030, under new rule install carbon capture by when?
1:42:02 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Carbon capture sequestration 90 percent capture exist for combined cycle plant?
1:42:18 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Permission retire Mill Creek 1 and 2 and build Mill Creek 5?
1:42:26 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Once Mill Creek 5 commercial, what do Mill Creek 1 and 2, demolish those units, put in reserve?
1:42:51 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Cold reserve term used to hear, put it in the garage for later use, option for Mill Creek 1 and 2?
1:43:21 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Existing natural gas generation, rule not address that?
1:43:42 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Response indicates was expectation on Mar 1 have Brown 5 in operation in 2030?
1:44:08 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Brown 12, the combined cycle, 2030?
1:44:24 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Pursuant to Commission Order?
1:44:35 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	How on-site compression work?
1:45:31 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Onsite compression sucks gas out of pipeline at 400 and ramps up to 550 to go into CC?

1:45:50 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Examination. If take same amount of gas and increase pressure, do not run out of it faster than you get it?
1:46:58 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Cane Run made changes to any of those facilities?
1:47:19 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Built preElliott?
1:47:32 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Having additional infrastructure related to having own pressure envisioned differently than how Cane Run unit designed and built?
1:48:37 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	When say not of pressure loss talking about, just saying facilities at Cane Run envision variations within tolerable operating parameters?
1:49:06 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Cross Examination (cont'd). Have curtailable service riders for LG&E and KU?
1:49:18 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	For relatively large industrials who get credit every month and obligation curtail during emergencies?
1:49:35 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Total amount on LG&E/KU system CSR curtailable load 130 MW?
1:49:49 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	Elliott event was 317 MW?
1:49:56 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	If do math, problem 41% worse had not had CSR?
1:50:03 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	How CSR perform during Elliott?
1:50:25 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	For those took longer respond got penalized?
1:50:34 PM	Atty Kurtz KIUC - witness Bellar Note: Sacre, Candace	And paid penalty?
1:50:49 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Examination. Know what CSR penalty is?
1:51:04 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	\$16 a kW?
1:51:15 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Generally aware of CSR requirements?
1:51:25 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Either cut off or buy through, certain periods buy through at specified prices through tariff?
1:51:48 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Buy through depends on certain inputs as defined by tariff?
1:51:54 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Ever heard term value of lost load?
1:51:59 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Have good idea what value of lost load concept is?
1:52:19 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Difference in value lost load between CNI customer or residential customer because have different processes behind meter?
1:52:39 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	If CSR customers not curtail and utility not have mechanism force curtail, there is a penalty?

1:53:06 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Know penalty higher or lower than value of lost load utility uses in resource planning?
1:53:40 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Reason asking you if reason utility has to shed load is because CSR customers not curtail when told to, are utilities thinking about penalty being in neighborhood of lost load, had to shut other customers off?
1:55:09 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Similar to FLS tariff?
1:55:27 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Ever discussed concept of cost causation in ratemaking?
1:55:36 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	In previous positions?
1:55:41 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Have a good idea cost causation?
1:55:47 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Proposed utilities in past under premise of cost causation?
1:55:53 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	If cause of load shedding is because other folks on system, if reason other people not do what supposed to do, had conversation about being a penalty structure related to lost load?
1:57:05 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Proposing bring your own thermostat program, not proposing have a new program?
1:57:14 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Similar but a little different than old load control for air conditioners?
1:57:21 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	For air conditioners have separate little box says don't touch this, that's the box?
1:57:30 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	You all cycle those units as part of program in past?
1:57:35 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Kind of direct control talking about?
1:58:41 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Can control that under tariff if you choose to do so?
1:59:23 PM	Chairman Chandler Note: Sacre, Candace	Counsel?
1:59:30 PM	Staff Atty van Zyl PSC - witness Bellar Note: Sacre, Candace	Cross Examination. Attachment to Question 85, Staff First, After Action Review, on page two, item 8, give me understanding how two control centers operate with relation to each other?
2:03:23 PM	Staff Atty van Zyl PSC - witness Bellar Note: Sacre, Candace	Because of fact opened after control system opened, delay for that coming back up?
2:04:20 PM	Staff Atty van Zyl PSC - witness Bellar Note: Sacre, Candace	Following Elliott, taken steps talk about more formal process?
2:05:43 PM	Staff Atty van Zyl PSC - witness Bellar Note: Sacre, Candace	Updated load shedding procedure recently?
2:06:16 PM	Staff Atty van Zyl PSC - witness Bellar Note: Sacre, Candace	Ask have updated information in post-hearing data request?
2:06:17 PM	POST-HEARING DATA REQUEST Note: Sacre, Candace Note: Sacre, Candace	STAFF ATTY VAN ZYL PSC - WITNESS BELLAR UPDATED SHEDDING PROCEDURE PROCESS

2:06:42 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace Refer to Staff First, Question 36, relationship with OVEC?

2:07:07 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace During Elliott, derates happened prior, on Dec 24 curtailment by PJM, explain reason for curtailment?

2:07:58 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace What was process, curtailed for seven hours?

2:08:08 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace Aware of what general reason was for delay?

2:08:27 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace Item 49-B, Staff First, aware of how CSR functions?

2:08:53 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace Response talked about Dec 23 and 24, three customers out of compliance, how much energy using at that time?

2:09:21 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace Post-hearing data request?

2:09:22 PM POST-HEARING DATA REQUEST  
Note: Sacre, Candace STAFF ATTY VAN ZYL PSC - WITNESS BELLAR  
Note: Sacre, Candace DEC 23 AND 24 CUSTOMERS OUT OF COMPLIANCE HOW MUCH ENERGY USING

2:09:58 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace Response, Staff First Request, Item 20, study with TGT, cost and benefits of additional alternatives, study ongoing, have update on study?

2:10:41 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace Not done yet?

2:10:53 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace LG&E/KU Response, Staff First Request, Item 26-E, also study Trimble County 2 water coil air heaters, has that been completed?

2:12:06 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace Response, AG-2, hour-by-hour report, started declaring EEA-3 on Dec 23, fluctuated between EEA-2 and EEA-3, know how much short were on energy every hour in EEA-3 status?

2:13:43 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace Units derated during Elliott because of emission limitations?

2:14:08 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace Same attachment, Brown 8 derated hit emission alarm, understanding what alarm is and why derated?

2:14:09 PM POST-HEARING DATA REQUEST  
Note: Sacre, Candace STAFF ATTY VAN ZYL PSC - WITNESS BELLAR  
Note: Sacre, Candace EXPLAIN WHAT IS BROWN 8 EMISSION ALARM AND WHY DERATED

2:15:29 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace Anybody here answer that?

2:15:47 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace Assuming permit issue, process ask for exemption?

2:16:02 PM Staff Atty van Zyl PSC - witness Bellar  
Note: Sacre, Candace Not do any of that?

2:17:02 PM Vice Chairman Hatton - witness Bellar  
Note: Sacre, Candace Examination. Storm event almost perfect storm, ton of things had to wrong, lot out of companies control, learning experience, already made changes, when PJM curtailed all nonfirm power, wish that you were part of an RTO?

2:19:06 PM Vice Chairman Hatton - witness Bellar  
Note: Sacre, Candace Did study last year to determine whether feasible move?

2:19:24 PM Vice Chairman Hatton - witness Bellar  
Note: Sacre, Candace Seems like a safer bet, think not need often enough justify expense?

2:19:55 PM Vice Chairman Hatton - witness Bellar  
Note: Sacre, Candace Based on cost?

2:20:44 PM Vice Chairman Hatton - witness Bellar  
Note: Sacre, Candace Little different in MISO and PJM, explored both?

2:21:07 PM Vice Chairman Hatton - witness Bellar  
Note: Sacre, Candace Not looking for particular answer, want to understand, opportunity to sell excess power for a profit?

2:21:44 PM Vice Chairman Hatton - witness Bellar  
Note: Sacre, Candace Those terms not better if joined?

2:22:25 PM Commissioner Regan - witness Bellar  
Note: Sacre, Candace Examination. Here in 2009 for ice storm?

2:22:32 PM Commissioner Regan - witness Bellar  
Note: Sacre, Candace First week in state, help me understand that storm and what happened and this one and what happened?

2:24:47 PM Commissioner Regan - witness Bellar  
Note: Sacre, Candace Know lot of after incidents and lessons learned, resource and planning, could two things happen together?

2:26:03 PM Commissioner Regan - witness Bellar  
Note: Sacre, Candace Redundancy built in if one or other happened could be rerouted?

2:29:39 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Examination. Know utilities proposed for CSR customers in 2016 rate case closed tariffs to new customers or expansions current customers?

2:29:59 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Just pulled up Sinclair testimony from that case where he says, reading, sound like position been in fall of 2016?

2:30:24 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace You and I talked a lot in last four years how things since '16, '17, 2018 period in terms companies' position generated capacity load growth?

2:30:41 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace A lot not super defined term, talked at length in hearings?

2:30:50 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Current tariff still closed, no additional CSR?

2:31:10 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Post-Elliott, company had conversations about industrial demand response given unique capacity position?

2:32:01 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Will follow up with him, heard read Sinclair testimony, agree companies in very different position capacity and load than in 2016?

2:32:26 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Firm transportation agreement with Texas Gas?

2:32:41 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace By losing pressure, by pressure going out of TGT pipeline, uphold their end of bargain in your opinion?

2:33:41 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Not asking what discussed, part of conversations with counsel whether Texas Gas upheld end of bargain?

2:34:24 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Speak with Texas Gas in Feb 2023?

2:34:34 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Feel like on same page?



2:34:40 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Stepped in front of it on that one, went before you?
2:34:51 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Admitted having same problems identified in presentation?
2:35:08 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Directly responsible upgrades Texas Gas made to Slaughter Station or to any of other facilities?
2:35:45 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Public appeals, somebody be better to ask?
2:36:41 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	EEA 1 EEA 2 and EEA 3 technical terms?
2:36:49 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Where definition or applicability of terms defined and which agency sets standards?
2:37:00 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Is there EEA 0?
2:37:08 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Is today EEA 0?
2:37:14 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Non-EEA number?
2:37:24 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	What is concern instituting public appeals for conservation prior to getting to EEA 2 or EEA 3 designation?
2:39:12 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	A lot of other bad things want to keep from happening to customers, ask them to conserve energy, something be beneficial to system avoid by asking customers reduce consumption?
2:39:30 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Let me just ask, through Elliott, buying hundreds of MW from PJM in excess of \$1,000 MWh?
2:40:47 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Not know if you respondent or Schram, looking at purchases from PJM \$1,824.04 for 250 MW Dec 24?
2:41:05 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	In the first hour, in second hour \$1,400, then \$3,100, Hour 1, 2, and 3, between one and \$3,100 a megawatt, anything short of public appeal turning people off, part of conversations talked about that?
2:42:16 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	If carrying just enough reserves and have unit trip off, puts you in an EEA 3?
2:43:11 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Would situation only carrying enough reserves meet contingency reserve requirements, be type of instance institute public appeals?
2:44:52 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Even if not think for sure run out of power but real risk, agree at some point risk run into situation where makes sense ask customers reduce demand?
2:45:33 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Fatigue?
2:46:26 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Know about CSR, other end asking customers for free turn off electricity?
2:46:43 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Two ends of spectrum, with CSR tell customers curtail 100 hours a year?

2:47:04 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	CSR 1, 100 hours a year, customer may contract up to 375 hours a year, curtailments between 30 minutes and 14 hours?
2:47:36 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Company may request up to 100 hours a year physical curtailment, request when all units dispatched and off-system sales curtailed?
2:47:55 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Even all units running and customer not want cut off, buy through is what?
2:48:22 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	All have to happen and then can be curtailed?
2:48:38 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Customers get paid for being willing to curtail?
2:49:01 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Great resource available to companies, megawatts not have to be turned off?
2:49:11 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Other end small volume customers not participate in CSR 1 and 2, is risk company have to do on own?
2:49:56 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	What conversations happened directly as result Elliott, doing something here bringing along on spectrum and say happy to pay you \$20 a megawatt hour to save us from having to buy at \$3,000 megawatt hour?
2:50:44 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Not discussion you have had?
2:50:52 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	New program uses in conjunction with transmission distribution and generation folks within company?
2:51:13 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Communications folks doing public appeal, brings communication folks in contact more so as to better inform communications to public?
2:52:02 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	If waiting to EEA 3 tell customers reduce power, too late keep company from take own action reduce demand?
2:53:04 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Schram right person ask about PSC DR 1-36 sales and purchases with PJM MISO and SEEM?
2:54:15 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Is that Schram document or your document?
2:54:29 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Is you that supported attachment, or is Schram that supported the attachment?
2:54:55 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Go to sales, start on Row 48 Duke Carolinas?
2:55:09 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	On Dec 20?
2:55:12 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Only 75 MW sale?
2:55:16 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	At hour 16, four o'clock in afternoon, right?
2:55:22 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Direct transaction or through SEEM?

2:55:38 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Is Duke Carolinas and then is Dominion S Carolina, be Dominion in South Carolina?

2:55:46 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Think SEEM transaction as well?

2:55:50 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Assume at SEEM, all transactions subject to ATC?

2:55:58 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace PJM transactions, all subject to ATC?

2:56:03 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace MISO transactions, subject to ATC?

2:56:08 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace OVEC transactions purchases?

2:56:39 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Have some rider priority to transmission, not just subject to available capacity?

2:56:46 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace TEA and Duke Carolinas, all sales, AEC, all be through SEEM?

2:56:57 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Tab for purchases next to it, see that?

2:57:03 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Purchasing each hour first few 157 MW from OVEC?

2:57:12 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace 154, about combined companies percentages of OVEC?

2:57:21 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace At defined dollar per MWh?

2:57:26 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace At consistent dollar per MWh \$32.10?

2:57:34 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Scroll down, gets to be more than \$32.10 starting about Row 171?

2:57:50 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace PJM purchases couple a hundred dollars, purchase at one o'clock in afternoon on 23rd \$706.22 for 266 MW?

2:58:02 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Keep scrolling, goes from seven back to the two, and then get to \$456.50, see those?

2:58:13 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace If scroll down to Row 207, LG&E/KU purchased 100 MW from PJM Dec 23rd for \$2,401.17?

2:58:27 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Is a purchase of \$240,000 for 100 MW of power?

2:58:36 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Then on Rows 226 and 229, LG&E/KU buying 188 and 250 MW in hour three and hour four Dec 24th?

2:59:06 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Jan 24 at 4 am LG&E/KU, either or both, paid more than three quarters of a million dollars for 250 MW purchase for one hour?

2:59:29 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace That's the math?

2:59:32 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Then at 6 a.m. 50 MW purchase over \$3,000?

2:59:46 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace All purchases this time period from PJM and OVEC and TVA?

3:00:12 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Until MISO comes back in at almost midnight, Dec 23rd, Row 208?

3:00:28 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Occasionally MISO thrown in, sometimes OVEC but otherwise PJM?

3:00:47 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Different than question VC asked you, wish you were part of RTO, had discussions greater regional firm transmission provided additional power?

3:02:14 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Schram able inform me whether contacted New York ISO or SPP and whether consideration power get to LG&E/KU?

3:02:46 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Talking about within region and to immediate BAs, what answer to?

3:03:04 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace In these instances, go out and ask counterparties whether have energy to sell you?

3:03:25 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Aware of SERTP?

3:03:31 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Participated in SERTP processes?

3:03:39 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Any of five here participate in SERTP processes?

3:03:53 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Agree transmission and generation can be economic substitutes?

3:04:25 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Asked question about SERTP studies requested by Southern Renewable Energy Association, remember?

3:04:48 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Southeastern maybe, missing a question, here we go, are respondent, Sierra Club 144, see question?

3:05:47 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Subpart C maybe, are respondent, right?

3:06:37 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace C requests, describe and document all communications since Jan 1 2019, reading, see that?

3:07:28 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace The same with PJM, see that?

3:07:31 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace And see economic study request submitted by SCRA in 2023, reading, see that?

3:07:46 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Remember study conducted with regards to MISO to LG&E/KU source to sink 1,000+ megawatt transfer capability?

3:08:23 PM Via Presentation Activated

3:08:29 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Do you see Study Request 4, results, see URL pulled up on, SoutheasternRTP.com?

3:08:40 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace That SERTP, right, are a member of SERTP?

3:08:44 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Study request for results MISO to LG&E/KU Summer of 2028 1,242 megawatts source to sink from MISO to LG&E/KU?

3:08:56 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Heard about this study, think have come up in CPCN case?

3:09:06 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Have seen document?
3:09:13 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Studied 1,240 MW transfer of two, total cost identified, only cost you all money, be \$84 million dollar contract, see that?
3:09:30 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	When became aware, in what context been separately discussed within LG&E/KU aware of as resource?
3:10:14 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Trying to get to, after study at SERTP, how take back and use this, transmission not identified as constraint bring power in, your position?
3:10:36 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Get provided type of study, how look at this as resource, what do when SERTP does this study?
3:11:59 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Know whether utilities looked what benefits of \$84 million dollar cost be?
3:12:19 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Be clear what asking, this indicates cost of interregional transmission line, cost side, benefits, what included for SERTP whether build these type lines, if had other benefits, what processes looking at, know costs, what are benefits?
3:13:50 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	This is Duke Carolinas BA, no cost, Duke Progress, all are zero dollars until get to LG&E/KU, study structure and assumptions, load flow cases, topography of system looks like used for study, right?
3:15:04 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Then it ends up, this is transmission system impacts without any enhancements to transmission system, see that, with and without additional request?
3:15:16 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Has which scenario run thermal violation occurred in?
3:15:25 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	At bottom, explains what are, see that?
3:15:32 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Minus 1 in scenario 1 is outage of East Kentucky Power Laurel Line?
3:15:42 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Scenario 2 outage at Ghent 1?
3:15:46 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Scenario 3, not know what scenario 3 means, maximize unites at Brown?
3:16:17 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Does it overload that, is 100.1?
3:16:28 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Those are items and then has cost for what solution each of violations be?
3:16:37 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Most expensive is \$80 million reconductor more than 17 miles Carrollton to Clifty Creek 138 kV?
3:16:53 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Aware other studies that indicate overloads, thermal issues on that line over the years?

3:17:37 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	From entire companies perspective, get brought this, only thing done is identify high level planning cost estimate, whose job determine whether reliability benefits or other benefits?
3:19:36 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Given initial testimony about how impact of Elliott covered entire region, who expect receive information and determine whether decreases losses of load during extreme conditions?
3:21:09 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	PostElliott, whose responsibility in transmission make sure other people in planning and generation find out about this?
3:21:28 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Aware whether expectation today provide information to other folks find value for consumers?
3:22:04 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	1,242 MW seems a lot, something like that exists amongst regions, seem like a small reasonable or excessive cost to ensure that transmission capability, hot medium cold?
3:24:02 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	But dependent upon additional studies?
3:24:33 PM	Chairman Chandler Note: Sacre, Candace	Recess until 3:30.
3:25:07 PM	Session Paused	
3:32:52 PM	Session Resumed	
3:33:20 PM	Chairman Chandler Note: Sacre, Candace	Back on the record.
3:33:31 PM	Via Presentation Activated	
3:33:32 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Examination (cont'd). See this is another SERTP doc?
3:33:41 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Entitled Kentucky Utilities Company and Louisville Gas and Electric Company Appendix to Attachment K, is the Interregional Transmission Coordination Between the SERTP and PJM?
3:33:58 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Interregional page, using PJM as an example, part that applies to LG&E/KU, talks about transmission owner, be utilities?
3:34:27 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	See first requirement planning criteria, reading, (click on link for further comments), avoiding regional projects?
3:34:56 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	From documents come out of SERTP, aware had any regional projects come out of planning process?
3:35:18 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Assume no regional projects come out of planning process, cost avoiding zero dollars and cost of interregional project \$84 million not pencil out?
3:35:38 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Be required have additional benefits above and beyond avoided regional transmission for project talking about 1,242 MW to be cost beneficial?
3:35:55 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	And to be something else have to be outside this, only one be dollars and cents out of four?
3:36:17 PM	Via Presentation Deactivated	

3:36:32 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Both KU and LG&E tariffs 107 has energy curtailment procedures and priority levels?
3:36:45 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	One is life support equipment?
3:36:50 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Hospitals and treatment facilities, then life support equipment?
3:36:56 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Have a list include some life support equipment depends on electricity?
3:37:05 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Know addresses, meter locations, circuits served from?
3:37:32 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	How having list priority levels involved in taking list and coming up with energy curtailment procedure that identifies circuits for curtailment like SOP?
3:39:35 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Do that postElliott same way done it preElliott?
3:41:11 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Identified circuits, spread across state?
3:41:31 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Spread across the state preElliott?
3:42:00 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Is scoring the same?
3:42:43 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Before Elliott, hospitals and treatment facilities know where they were on prioritization?
3:43:06 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	How about individual customers that have life support equipment?
3:43:22 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Same before and after Elliott?
3:43:27 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	How about fire stations and police stations, how communicate with them?
3:44:04 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Finally, defense related services?
3:44:19 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Have specific communications SOP defense related might be high on list?
3:44:38 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Fort Knox one of biggest customers?
3:44:59 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Did contingency LG reserve sharing agreement concerns about how implemented during Elliott?
3:45:14 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Discussed with TVA amendments to contingency reserve sharing agreement?
3:45:34 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Have a preference for amending contingency reserve agreement?
3:46:50 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Maybe simplest not one of them, Staff 1-5, see this question?
3:47:24 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	One of primary avoided cost benefits in business case LEB-1 in 2020 rate cases for AMI avoided fuel costs related reducing voltage on distribution systems, identify voltage every metering point?

3:47:27 PM	Via Presentation Activated	
3:47:59 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	Companies able to implement AMI enabled volt-var optimization?
3:48:10 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	Allows carry less excess voltage now know where voltage is every metering point?
3:48:28 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	When asked, said would have reduced electric load, electric is bold?
3:48:42 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	Electric is bold?
3:48:48 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	Said, however, magnitude required not been achieved by CVR, AMI not prevented load shed?
3:48:59 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	Electric is bold and prevented is bold, particular reason why words bold?
3:49:40 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	In answering, go back and look at how many megawatts less of demand have if implemented conservation load reduction as envisioned in business case 2020 rate case?
3:51:22 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	On annual calculation?
3:51:44 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	If not do calculation how much less demand need if had full AMI-enabled PVO and CVR, how able respond not enough megawatts?
3:52:30 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	What I think I know about Elliott, peak demand Dec 23 and 24 of 2022?
3:52:54 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	Function of significant load but not all-time high load?
3:53:08 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	When say peak demand, mean top 20, top 30 of a year have less excess voltage?
3:53:40 PM	Via Presentation Deactivated	
3:54:41 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	Whose responsibility today be to tell Wilson start modeling in anticipation of conducting IRP to look at using possibility reopening CSR as possible resource in capacity expansion model?
3:55:45 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	Is CSR because of structure different than other demand side management program through Bevington, that CSR necessarily difference?
3:56:52 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	Given structure today, whose responsibility identify that as something should be modeled even though might be closed tariff?
3:57:29 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	Had a 13-hour IRP hearing, one of takeaways, everybody did what other person told them to do, curious whose responsibility inform these are resources should include for purposes of modeling?
3:58:11 PM	Chairman Chandler - witness Bellar	
	Note: Sacre, Candace	Buck stops with you, in anticipation of IRP filed?
3:58:41 PM	Chairman Chandler	
	Note: Sacre, Candace	Recess until 4:20.
4:29:07 PM	Session Paused	
4:29:29 PM	Session Resumed	



4:30:35 PM Chairman Chandler  
Note: Sacre, Candace Back on the record.

4:31:15 PM Chairman Chandler  
Note: Sacre, Candace Mr. Ingram?

4:31:19 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace Redirect Examination. Remember Kurtz compliance dates under new greenhouse gas rules?

4:31:31 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace Corrections want to make response provided?

4:32:02 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace Recall when Chairman showing on screen documents related to transmission projects?

4:32:11 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace Companies' position transmission not constrain companies in any way lead to load shed occurred in Elliott?

4:32:24 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace Have JI Question 2.5?

4:32:31 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace Direct to subpart (e) of question, page 3 of 3?

4:32:37 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace Top of page, counting five lines down, sentence beginning with load shed, your response, correct?

4:32:52 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace It says, reading, read correctly?

4:33:21 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace Said earlier today not have corrections, true with this one, too?

4:33:32 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace Public appeals if load shedding event possibility?

4:33:46 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace Mentioned could be back fire if companies did issue some sort of public appeal, what mean by backfire?

4:34:47 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace That's why said be very careful use of public appeals, timing, and to whom directed?

4:34:56 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace 2009 ice storm and outages, also ice storm in 2003, remember?

4:35:17 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace In either or both, KU or LG&E customers out of power for seven days or more?

4:35:29 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace 168 hours in seven-day period?

4:35:35 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace Hear say this morning average duration of outage less than an hour?

4:35:45 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace Year and a half after Elliott, your view that companies made all efforts to prevent interruptions of service?

4:36:12 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace Once load shed occur, when interruption occurred companies endeavored reestablish service with shortest delay?

4:36:35 PM Chairman Chandler - witness Bellar  
Note: Sacre, Candace Examination. Agree that had company implemented distribution circuit processes firm curtailment, have reduced outages approximately ten minutes and were duplicative transmission and distribution circuit openings, remember data request referring to?

4:37:10 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Concern opened same distribution and transmission service, remember that?
4:37:20 PM	Chairman Chandler Note: Sacre, Candace	Counsel, have that?
4:38:00 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Examination. From 50-something to 40-something minutes, respondent on that?
4:38:08 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	See last sentence is companies' estimation that says, reading?
4:39:10 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Got transmission and distribution, transmission that served a customer and distribution that served company both opened, one closed back but had wait till other closed back before those customers restored, remember that concern?
4:39:41 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Different than this?
4:39:49 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	This if automatic breaker closing had worked instead of manually close circuits, been reduced this amount?
4:40:07 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Separate from that, miscommunication distribution operations and transmission operations, restoration closing one of breakers not necessarily restore power to retail customers?
4:41:48 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Would that have affected 59- or 43-minute calculation?
4:42:25 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Not calculate impact average customer outage?
4:42:35 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Thing about ATC, have SEEM questions, participants with SEEM within five-day period?
4:43:01 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Agreed earlier subject to ATC?
4:43:05 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	If ATC not available, match not met?
4:43:20 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Not matching bids and asks, match not get made?
4:43:25 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Related to Question 2.5 Joint Intervenors, making bids for energy through SEEM portal?
4:43:49 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	If Schram confirms putting bids in, know reason not matches, was were not asks available or whether none of offers met because no ATC, know that?
4:44:53 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Neighbor, neighbor's neighbor?
4:45:05 PM	Chairman Chandler - witness Bellar Note: Sacre, Candace	Would know whether or not was match, not because ATC?
4:45:33 PM	Chairman Chandler Note: Sacre, Candace	Mr. Ingram?
4:45:38 PM	Atty Ingram LG&E/KU Note: Sacre, Candace	Redirect Examination. Length of delay, did companies, after load shed occurred, endeavor reestablish service with shortest possible delay, and your answer was?

4:45:51 PM Atty Ingram LG&E/KU - witness Bellar  
Note: Sacre, Candace Still agree with that?

4:45:53 PM Chairman Chandler  
Note: Sacre, Candace Anything else?

4:45:59 PM Atty Ingram LG&E/KU  
Note: Sacre, Candace Next witness Charles Schram.

4:46:14 PM Chairman Chandler  
Note: Sacre, Candace Witness is sworn.

4:46:19 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Examination. Name and address?

4:46:32 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Anything with you on stand?

4:46:45 PM Atty Ingram LG&E/KU - witness Schram  
Note: Sacre, Candace Direct Examination. Were responsible witness on several data responses?

4:46:51 PM Atty Ingram LG&E/KU - witness Schram  
Note: Sacre, Candace Corrections or supplements?

4:46:56 PM Atty Ingram LG&E/KU - witness Schram  
Note: Sacre, Candace Give job title and general duties?

4:47:29 PM Atty Ingram LG&E/KU - witness Schram  
Note: Sacre, Candace What job duties specific to Elliott?

4:48:10 PM Chairman Chandler  
Note: Sacre, Candace Ms. Huddleston?

4:48:35 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace Cross Examination. Turn to PSC 1-85 Attachment, after action review?

4:49:20 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace Page 2, list of things not go well, it says, reading, correct?

4:49:52 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace Say more about second sentence, MISO said could not buy because not have BA/BA agreement, what does that mean?

4:50:22 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace Problem here in emergency not able purchase from MISO?

4:50:43 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace Who would be person know?

4:50:51 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace Page 3 says, Item 10, improvement suggestions, work on BA/BA agreements with MISO being able purchase emergency power?

4:51:16 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace Know if follow up on this matter?

4:51:28 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace I talked with Bellar about coal units and whether you all have expectation general percentage?

4:51:51 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace Have a number for coal units as to expectation how perform?

4:52:32 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace Refer to SI 1-10, sponsoring witness?

4:52:51 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace Stated, confirmed six of ten highest forced outage days in 2022 from Dec 24 to Dec 29 2022?

4:53:05 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace Know LG&E/KU not like phrase correlated outages, how feel about phrase?

4:53:19 PM Atty Ingram LG&E/KU  
Note: Sacre, Candace Object to question.

4:53:22 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace View this as example of correlated outages?

4:53:31 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace What was root cause or causes of high numbers?

4:53:56 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace Refer to SC 1-11, stated confirmed on Dec 24 forced outages higher than Dec 23?

4:54:15 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace Stated due to events began part way through Dec 23 continuing throughout Dec 24?

4:54:24 PM Atty Huddleston Sierra Club - witness Schram  
Note: Sacre, Candace Any events not listed in 1-11 that are some of events contributed?

4:55:07 PM Chairman Chandler  
Note: Sacre, Candace Mr. Fisk?

4:55:36 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Cross Examination. Director of power supply?

4:55:53 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace In position since 2016?

4:55:57 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Team responsible for purchasing natural gas fuel?

4:56:05 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Changes in generation dispatch, team make decisions?

4:56:16 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Like, day to day?

4:56:22 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace When generation alert status declared, who makes decision, your team?

4:56:29 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Team or perhaps you be person most involved in day to day procurement and purchases of gas?

4:56:44 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Questions related to purchase of gas directed to you?

4:57:05 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Team involved in consideration of adding additional onsite compression units Cane Run units?

4:57:29 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Not involved in cost analysis adding compression Cane Run?

4:57:53 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Acquisition compression system not involve team?

4:58:05 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Direct testimony, 2022-00402 CPCN, have that in front of you, page 13, lines 4 and 5, Mill Creek NGCC and Cane Run NGCC, reliability risk, you state, reading, is that right?

4:59:52 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Per testimony, saying adding Mill Creek 5 to Cane Run 7 Texas Gas pipeline not create significant reliability risk?

5:00:31 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace When say adding Mill Creek to same Texas gas system, not talking about same pipeline, talking about Texas gas system?

5:01:10 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Testimony on Dec 15 2022 no reliability risk of having two NGCCs, on same pipeline?

5:01:42 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Week before Elliott hit no reliability risk, would say accurate?

5:02:08 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Testimony today be no significant reliability risks due to changes or improvements implemented since Elliott?

5:02:34 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Changes to be made in construction of Mill Creek 5?

5:02:49 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Looking again at page 13, explain lines 5 to 9, reading, is that correct?

5:03:31 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Redundancy of compression equipment, proved wrong during Elliott, is it not bigger reliability risk companies proceed adding Mill Creek?

5:04:01 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Specific changes made that reduce risk adding Mill Creek 5?

5:05:11 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Explain how despite redundancy of compression equipment drop in pressure on Texas Gas system caused loss of performance?

5:07:02 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Say redundancies on Texas Gas system not sufficient to ensure reliability?

5:07:51 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Improved procedures credit improved reliability to new procedures?

5:08:22 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Before Elliott companies have reason to perform reliability assessment of Texas Gas system?

5:09:08 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Be akin to annual meeting?

5:09:39 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Meetings not include formal or written reliability assessments?

5:10:05 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Is no written reliability assessments of other gas supply sources?

5:10:15 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace For nonfirm suppliers, no similar reliability system?

5:10:45 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Not sponsor to data request, look at JI 1.13, reading, identified any other contributing factor?

5:13:10 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Response is no?

5:13:18 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace No single contributing factor, several factors led to loss of pressure?

5:14:00 PM Atty Zelaya Joint Intervenors - witness Schram  
Note: Sacre, Candace Testimony was in relation to factors contributed to loss of pressure, not to Cane Run 7 and Trimble County ability to run?



# Session Report - Detail

2023-00422 23May2024-B

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

Date:	Type:	Location:	Department:
5/23/2024	Public Hearing\Public Comments	Hearing Room 1	Hearing Room 1 (HR 1)

Witness: Lonnie Bellar; Robert Conroy; Charles Schram; David Sinclair; Stuart Wilson  
 Judge: Kent Chandler; Angie Hatton; Mary Pat Regan  
 Clerk: Candace Sacre

Event Time	Log Event
7:02:33 PM	Session Started
7:02:36 PM	Chairman Chandler Note: Sacre, Candace Back on the record.
7:02:39 PM	Chairman Chandler Note: Sacre, Candace Continue with cross?
7:02:43 PM	Atty Zelaya Joint Intervenors - witness Schram Note: Sacre, Candace Cross Examination (cont'd). Have in front of you Response to Staff 1-19?
7:02:55 PM	Atty Zelaya Joint Intervenors - witness Schram Note: Sacre, Candace Texas Gas held operations call in advance of Heather this year?
7:03:13 PM	Atty Zelaya Joint Intervenors - witness Schram Note: Sacre, Candace Recall whether similar call with TGT prior to onset of Elliott?
7:04:02 PM	Atty Zelaya Joint Intervenors - witness Schram Note: Sacre, Candace Know if call in advance of Heather part TGT new operating procedures?
7:04:33 PM	Atty Zelaya Joint Intervenors - witness Schram Note: Sacre, Candace Response Staff 2-12, attachment, sponsored by Bellar, page 3, After Action Report, what did not go well, point 4, not sure what a BA/BA is?
7:06:30 PM	Atty Zelaya Joint Intervenors - witness Schram Note: Sacre, Candace Anyone today who could speak to what BA/BA agreement?
7:06:40 PM	Atty Zelaya Joint Intervenors Note: Sacre, Candace Submit post-hearing data request.
7:06:41 PM	POST-HEARING DATA REQUEST Note: Sacre, Candace ATTY ZELAYA JOINT INTERVENORS - WITNESS SCHRAM Note: Sacre, Candace PROVIDE EXPLANATION OF A BA/BA AGREEMENT
7:06:51 PM	Atty Zelaya Joint Intervenors - witness Schram Note: Sacre, Candace Cross Examination (cont'd). Next sentence says follow up with policy and tariffs, know if occurred?
7:07:13 PM	Chairman Chandler Note: Sacre, Candace Mr. Malone?
7:07:35 PM	Atty Malone KCA - witness Schram Note: Sacre, Candace Cross Examination. Lot of discussion compression issues lower gas pressure, familiar with freeze up?
7:07:42 PM	Atty Malone KCA - witness Schram Note: Sacre, Candace The gas line, with respect to gas supply?
7:08:00 PM	Atty Malone KCA - witness Schram Note: Sacre, Candace Situation with Elliott lower gas pressure compression going forward not as big problem allow be handled more effectively?
7:08:52 PM	Atty Malone KCA - witness Schram Note: Sacre, Candace Familiar with FERC report relative to Elliott?

7:09:13 PM	Atty Malone KCA - witness Schram Note: Sacre, Candace	Familiar, in there, talks about freeze ups, general concept?
7:09:15 PM	Atty Malone KCA - witness Schram Note: Sacre, Candace	Where headed, basically, to extent freeze up results in inability get gas supply, compression not matter?
7:09:37 PM	Chairman Chandler Note: Sacre, Candace	Questions?
7:09:42 PM	Staff Atty Hatcher PSC - witness Schram Note: Sacre, Candace	Cross Examination. Bellar deferred PJM curtailment OVEC to LG&E?
7:09:51 PM	Staff Atty Hatcher PSC - witness Schram Note: Sacre, Candace	Believe stated was error caused PJM curtail deliveries from OVEC to LG&E on Dec 24 2022, explain more what error was?
7:10:37 PM	Staff Atty Hatcher PSC - witness Schram Note: Sacre, Candace	Know what caused six- or seven-hour delay?
7:10:57 PM	Staff Atty Hatcher PSC - witness Schram Note: Sacre, Candace	How much energy not delivered?
7:11:18 PM	Staff Atty Hatcher PSC - witness Schram Note: Sacre, Candace	If asked as post-hearing data request, provide that?
7:11:19 PM	POST-HEARING DATA REQUEST Note: Sacre, Candace Note: Sacre, Candace	STAFF ATTY HATCHER PSC - WITNESS SCHRAM AMOUNT OF ENERGY NOT DELIVERED AS RESULT OF PJM CURTAILMENT
7:11:28 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Examination. Follow up asked Bellar and see if agree, with SEEM multiple reasons why put in bid and might not make match?
7:11:44 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	For one is no one wants to sell to you?
7:11:47 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Second be no one sell for price meets or exceeds bid?
7:11:56 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Third be no ATC to effectuate sale?
7:12:02 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Necessarily know what reasons were when make bid, know why as ordinary course particular reason bid not accepted?
7:12:42 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	What alluded to publicly Southern got ahead of it, contracts with MISO, got some energy, TVA had load shedding, you had load shedding, Carolinas had load shedding?
7:13:45 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	All within your region?
7:14:00 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Everybody is in SERC, all those entities, Carolinas?
7:14:07 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	All in SERTP, all but Carolinas?
7:14:15 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	When talk about availability transmission within regions and amongst regions, understand what your region area be?
7:14:56 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Big step back, in SEEM?
7:14:59 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Duke Carolinas in SEEM?
7:15:01 PM	Chairman Chandler - witness Schram Note: Sacre, Candace	Southern Companies in SEEM?

7:15:03 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace TVA in SEEM?

7:15:05 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace AECI in SEEM, do you know?

7:15:10 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace At least in terms of power trading, that is region?

7:15:19 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Cross utilities?

7:15:22 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace MISO different region?

7:15:24 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace SPP different region?

7:15:27 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace PJM different region?

7:15:38 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Within SEEM, trades not consummated through SEEM protocol without adequate ATC?

7:15:55 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace When convenient kind of thing?

7:16:10 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Contribute any of these after-action reports that indicate ability to purchase power in emergency situation did not go well?

7:16:40 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Asking about first sentence, two sentences there, agree?

7:16:47 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace A few of them, but say ability purchase power in emergency situation, period, MISO said cannot buy from them since did not have BA/BA agreement, what have in front of you?

7:17:19 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Above that, on page 2, what did not go well?

7:17:45 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Doing old Rolodex we talked about, how get a hold of all these people?

7:18:14 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Question asked Bellar, SVP New York ISO call those folks?

7:18:30 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Why not?

7:18:44 PM Chairman Chandler  
Note: Sacre, Candace Ask for post-hearing data request.

7:18:45 PM POST-HEARING DATA REQUEST  
Note: Sacre, Candace CHAIRMAN CHANDLER - WITNESS SCHRAM  
Note: Sacre, Candace CALL ISOs AND OTHER OTHERS TO BUY ENERGY

7:18:50 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Assume if call ISOs, not J P Morgan Energy Trading?

7:19:14 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Where transmission is a question?

7:19:22 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Know who on page 3 No. 10 identified, owner for people fix problem?

7:19:43 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Recognize names as being transmission employees?

7:19:47 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Go back to 9, parenthetical after that, see it?



7:20:03 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Ability to purchase power, page 2, No. 9, parenthetical at end, see that?

7:20:15 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Will follow up with policy and tariffs?

7:20:17 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Presume will means like intend to and not a person's name?

7:20:22 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Then got policy and tariffs there, who is policy and tariffs?

7:20:33 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Transmission policy and tariffs, people like Jackson and Ramos?

7:20:44 PM Chairman Chandler  
Note: Sacre, Candace Post-hearing ask if follow up occurred.

7:20:45 PM POST-HEARING DATA REQUEST  
Note: Sacre, Candace CHAIRMAN CHANDLER - WITNESS SCHRAM  
Note: Sacre, Candace WHETHER FOLLOW UP WITH POLICY AND TARIFFS OCCURRED

7:20:55 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Not have nicknames for Conroy, not call him Tariffs around the office, federal tariffs?

7:21:24 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Believe amendments be made contingency reserve sharing agreement?

7:21:42 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Believe operated as intended during Elliott?

7:22:35 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Make bids into SEEM?

7:22:40 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Would show up in that 1-33?

7:23:02 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace What wondered, were no purchases but were sales, make sure not just accounting?

7:23:10 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Utility matched with show up in Column A?

7:23:35 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Do you think be able determine reason bids not met with match, know whether subject to ATC?

7:24:02 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Would know if was ATC which utility not have ATC available to work?

7:24:28 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Might want to know if there's power out there why not get it?

7:25:17 PM Chairman Chandler  
Note: Sacre, Candace Mr. Ingram?

7:25:22 PM Atty Ingram LG&E/KU - witness Schram  
Note: Sacre, Candace Redirect Examination. Companies make all reasonable efforts prevent interruption of service?

7:25:40 PM Chairman Chandler - witness Schram  
Note: Sacre, Candace Once did occur, believe companies endeavored reestablish service shortest possible delay?

7:25:59 PM Chairman Chandler  
Note: Sacre, Candace Counsel?

7:26:04 PM Atty Riggs LG&E/KU  
Note: Sacre, Candace Stuart Wilson.

7:26:13 PM	Chairman Chandler	
	Note: Sacre, Candace	Witness is sworn.
7:26:17 PM	Chairman Chandler - witness Wilson	
	Note: Sacre, Candace	Examination. Name and address?
7:26:28 PM	Chairman Chandler - witness Wilson	
	Note: Sacre, Candace	Anything on stand with you?
7:26:32 PM	Atty Riggs LG&E/KU - witness Wilson	
	Note: Sacre, Candace	Direct Examination. Job responsibilities?
7:26:46 PM	Atty Riggs LG&E/KU - witness Wilson	
	Note: Sacre, Candace	Who report to?
7:26:49 PM	Atty Riggs LG&E/KU - witness Wilson	
	Note: Sacre, Candace	Responsible for operations during Elliott?
7:26:55 PM	Atty Riggs LG&E/KU - witness Wilson	
	Note: Sacre, Candace	Answer data requests?
7:27:01 PM	Atty Riggs LG&E/KU - witness Wilson	
	Note: Sacre, Candace	Corrections or amendments?
7:27:03 PM	Atty Riggs LG&E/KU - witness Wilson	
	Note: Sacre, Candace	Adopt as testimony?
7:27:08 PM	Chairman Chandler	
	Note: Sacre, Candace	Questions?
7:27:22 PM	Atty Huddleston Sierra Club - witness Wilson	
	Note: Sacre, Candace	Cross Examination. Turn to SC 1-3, sponsoring witness?
7:27:37 PM	Atty Huddleston Sierra Club - witness Wilson	
	Note: Sacre, Candace	Says capacity contribution like ELCC but different?
7:27:47 PM	Atty Huddleston Sierra Club - witness Wilson	
	Note: Sacre, Candace	Talking about whether planned to adopt ELCC type analysis?
7:27:55 PM	Atty Huddleston Sierra Club - witness Wilson	
	Note: Sacre, Candace	Are you all in next IRP process adopt analysis that values coal and gas contributions in way less than 100 percent based on how performed?
7:28:34 PM	Atty Huddleston Sierra Club - witness Wilson	
	Note: Sacre, Candace	Planning to use analysis in IRP compares how values assets based on either historic or accepted performance?
7:29:00 PM	Atty Huddleston Sierra Club - witness Wilson	
	Note: Sacre, Candace	If have coal unit 1000 MW capacity but performed 80 percent over past, companies value at 800 MW?
7:29:44 PM	Atty Huddleston Sierra Club - witness Wilson	
	Note: Sacre, Candace	How simulate that?
7:30:20 PM	Atty Huddleston Sierra Club - witness Wilson	
	Note: Sacre, Candace	Considering in next IRP how model retirements with respect to SP4 and SP349?
7:30:54 PM	Atty Huddleston Sierra Club - witness Wilson	
	Note: Sacre, Candace	Considering determining reliability analysis discounting all units based on historic or expected performance?
7:31:41 PM	Chairman Chandler	
	Note: Sacre, Candace	Mr. Fisk?
7:32:05 PM	Atty Fisk Joint Intervenors - witness Wilson	
	Note: Sacre, Candace	Cross Examination. Have Response to JI 1-19?
7:32:47 PM	Atty Fisk Joint Intervenors - witness Wilson	
	Note: Sacre, Candace	Asked about whether companies evaluated reliability impact of various resource options, take that to mean benefits battery storage in IRP process?
7:34:17 PM	Atty Fisk Joint Intervenors witness Wilson	
	Note: Sacre, Candace	Is modeling in SERVM?

7:34:40 PM Atty Fisk Joint Intervenors - witness Wilson  
Note: Sacre, Candace Resource adequacy modeling different reliability modeling?

7:36:33 PM Atty Fisk Joint Intervenors - witness Wilson  
Note: Sacre, Candace In 2021 IRP, did reserve margin analysis?

7:36:45 PM Atty Fisk Joint Intervenors - witness Wilson  
Note: Sacre, Candace Be where look at reliability impacts of different resources?

7:37:26 PM Atty Fisk Joint Intervenors - witness Wilson  
Note: Sacre, Candace Reserve margin analysis also look at loss, LOLE?

7:38:09 PM Atty Fisk Joint Intervenors - witness Wilson  
Note: Sacre, Candace Made changes to how treat different resources since what did in 2021 IRP?

7:38:42 PM Atty Fisk Joint Intervenors - witness Wilson  
Note: Sacre, Candace Modeling capture contributions battery storage provides?

7:38:52 PM Atty Riggs LG&E/KU  
Note: Sacre, Candace Object.

7:40:21 PM Atty Fisk Joint Intervenors - witness Wilson  
Note: Sacre, Candace In 2021 IRP evaluated reliability to equivalent load duration curve?

7:40:28 PM Atty Fisk Joint Intervenors - witness Wilson  
Note: Sacre, Candace Still using that current analyses?

7:41:10 PM Atty Fisk Joint Intervenors - witness Wilson  
Note: Sacre, Candace What are operating characteristics capture?

7:41:32 PM Atty Fisk Joint Intervenors - witness Wilson  
Note: Sacre, Candace Response JI 2-3, evaluation of potential power plants and impact?

7:42:49 PM Atty Fisk Joint Intervenors - witness Wilson  
Note: Sacre, Candace Key issues need be addressed contemplating VPP plan?

7:42:58 PM Atty Fisk Joint Intervenors - witness Wilson  
Note: Sacre, Candace Currently contemplating VPP plan?

7:43:23 PM Atty Riggs LG&E/KU  
Note: Sacre, Candace Same objection.

7:43:52 PM Chairman Chandler  
Note: Sacre, Candace Questions?

7:44:13 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Examination. Value lost load concept aware of?

7:44:22 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Concept discuss in integrated resource plan?

7:44:26 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Quoting 2021 IRP, reading, correct?

7:44:50 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Prior Elliott, aware any unserved energy due to bulk energy unavailability?

7:45:12 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace First time had to implement involuntary load shedding in history?

7:45:28 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Insofar as 54,637 customers experienced involuntary load shedding, folks that had loss of productivity, inconvenience or discomfort, lighting and heating?

7:46:04 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace What referring to, that type loss of load?

7:46:18 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Looking at minimizing likelihood severity or duration of loss of load?

7:46:43 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Commission in 2023 approved number of things if all put into effect load actually conducts itself as modeled have loss of load expectation?

7:47:13 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Less than one, for full year one-tenth of one in ten?

7:47:42 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Been doing one in ten LOLE planning, finally had loss of load event?

7:47:53 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Been around in excess 100 years, one in ten what modelized?

7:48:04 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Being in excess of one in ten not nearly as reliable?

7:48:18 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Run risk of overplanning system if too far under one in ten?

7:48:35 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace At some point not willing pay more for additional reliability?

7:48:43 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace LLE looks at days every day every hour across ten-year period, likelihood within each of hours not enough deliverable generation to meet demand?

7:49:42 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Not a Monte Carlo but dozens of scenarios?

7:49:53 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Read Astrape report, LOLE tied in how other places do ELCC?

7:50:13 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace About a resource contribution in hours needed most?

7:50:55 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace All else equal?

7:51:02 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Units out two-day period Elliott way treat that planning for reliable system given consideration to performing planning in addition to all resources look at whether likelihood generation being there in hours needed most, if not discounting risk of unavailability?

7:52:19 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Not talking about correlated outages, if routinely have hours of peak load in all scenarios, in same hours model showing individual units unavailable during those hours, are those units discounted for unavailability in hours needed most?

7:53:35 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace When say correlated outages, think I meant correlated to individual risk scenarios or generators correlated to each other?

7:54:07 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Correlated to a risk, correlated situation not common mode outages generators being out at same time?

7:54:37 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace When do resource planning, where value of lost load come into consideration?

7:55:32 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Avoiding value of lost load?

7:55:47 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Questions about interregional transmission?

7:56:09 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Seen SERTP study before?

7:56:17 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace Supposed get to you but not, kind of thing should get to you?

7:57:30 PM Chairman Chandler - witness Wilson  
Note: Sacre, Candace How are companies determining additional transfer capabilities other utilities within region reducing your likelihood having loss of load event?

7:58:31 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Something you do today?
7:59:06 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Look at that and say having new transfer capability provides some level of benefit?
7:59:47 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Where cost and benefit come into play?
8:00:12 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	When doing that have a little more and that region has excess energy, where those points be able turn into actionable, how that come into play?
8:01:31 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Do you do that once modeled and say x number of MW cost \$, or do you all go here's current transfer capability if increase by 100, which is one implicates running models looking at this?
8:02:23 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Seems to be case across the board, risk tolerance and downside of uncertainty?
8:03:25 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Would run that but sounded like would only occur following RFP from that other place and interest in how deliverable via not currently available ATC?
8:04:06 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Would unaffiliated generator in different region have information what interregional transfer capabilities be?
8:04:35 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Done resource procurements, evaluating resource bids?
8:04:42 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Something run proactively determining even transmission capability to deliver those megawatts?
8:06:10 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Ever had discussions folks do retail tariffs about value of lost load in context of DSM, switch not flipped until other resources exhausted maybe should reflect costs avoiding value of avoiding losing load?
8:07:16 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Value of lost load, no one knows what is?
8:07:28 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Conceptual thing?
8:08:04 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	20-year DOE study, weighted those by own mix?
8:08:30 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	On, like, what? Energy basis?
8:08:39 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Expect update that, discussions whether looking at appropriate values or needs be updated?
8:09:10 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Aware ERCOT paid for new value of lost load calculation?
8:09:34 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	How model Joint Intervenor 2(C), do way just described to me, Joint Intervenor 2.1, Bellar response, see that?
8:10:09 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	How model determine new transmission lines improve reliability?

8:10:20 PM	Chairman Chandler - witness Wilson Note: Sacre, Candace	Read Bellar response, question, response, in context determining LOLE model additional transmission tie lines under concept of improving/degrading reliability?
8:11:46 PM	Chairman Chandler Note: Sacre, Candace	Counsel?
8:11:49 PM	Chairman Chandler Note: Sacre, Candace	Anything else?
8:12:00 PM	Chairman Chandler Note: Sacre, Candace	Recess until 8:20.
8:13:04 PM	Session Paused	
8:19:43 PM	Session Resumed	
8:19:45 PM	Atty Riggs LG&E/KU Note: Sacre, Candace	David Sinclair.
8:19:55 PM	Chairman Chandler Note: Sacre, Candace	Witness is sworn.
8:20:02 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Examination. Name and address?
8:20:13 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Have anything in front of you?
8:20:20 PM	Atty Riggs LG&E/KU - witness Sinclair Note: Sacre, Candace	Direct Examination. Title?
8:20:29 PM	Atty Riggs LG&E/KU - witness Sinclair Note: Sacre, Candace	Responsibilities?
8:21:22 PM	Atty Riggs LG&E/KU - witness Sinclair Note: Sacre, Candace	Background?
8:22:20 PM	Atty Riggs LG&E/KU - witness Sinclair Note: Sacre, Candace	Prepare data responses?
8:22:26 PM	Atty Riggs LG&E/KU - witness Sinclair Note: Sacre, Candace	Accurate, or do you have corrections or amendments?
8:22:31 PM	Atty Riggs LG&E/KU - witness Sinclair Note: Sacre, Candace	Adopt as testimony?
8:22:35 PM	Atty Riggs LG&E/KU - witness Sinclair Note: Sacre, Candace	Responsible for operations during Elliott?
8:23:13 PM	Atty Riggs LG&E/KU - witness Sinclair Note: Sacre, Candace	Explain how power transactions with RTOs undertaken in today's market?
8:25:45 PM	Chairman Chandler Note: Sacre, Candace	Questions?
8:25:52 PM	Chairman Chandler Note: Sacre, Candace	Ms. Huddleston?
8:26:00 PM	Atty Huddleston Sierra Club - witness Sinclair Note: Sacre, Candace	Cross Examination. What said about MISO, hear discussion earlier about BA/BA issue?
8:26:14 PM	Atty Huddleston Sierra Club - witness Sinclair Note: Sacre, Candace	Shed light on that?
8:27:00 PM	Atty Huddleston Sierra Club - witness Sinclair Note: Sacre, Candace	Sierra Club 1-14, sponsoring witness?
8:27:15 PM	Atty Huddleston Sierra Club - witness Sinclair Note: Sacre, Candace	Talked about graph, look at blue line on each of graphs, include all forced outages on each graph?
8:28:20 PM	Atty Huddleston Sierra Club - witness Sinclair Note: Sacre, Candace	Post-hearing data request?

8:28:21 PM POST-HEARING DATA REQUEST  
Note: Sacre, Candace ATTY HUDDLESTON SIERRA CLUB - WITNESS SINCLAIR  
Note: Sacre, Candace SIERRA CLUB 1-14 GRAPH BLUE LINE INCLUDE ALL FORCED  
OUTAGES ON EACH GRAPH

8:28:27 PM Atty Huddleston Sierra Club - witness Sinclair  
Note: Sacre, Candace Scale in top and bottom different?

8:28:45 PM Chairman Chandler  
Note: Sacre, Candace Mr. Cmar?

8:29:11 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Cross Examination. Directing you 2022-00402, attachment to SC  
Discovery Request 2-26(B), have that document?

8:30:28 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Document dated Nov 2022, the original?

8:30:35 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Then an update in May 2023?

8:30:55 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Page 32, discussion last full paragraph, see that?

8:31:37 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Confirm drafted in Nov 2022?

8:31:51 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Right thinking changes highlighted in blue?

8:32:03 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace In that paragraph, during energy emergency, reading, see that?

8:32:26 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Drafted before Elliott?

8:32:46 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Page 33, states that, reading, see that?

8:33:17 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Company's in process of doing new RTO membership analysis?

8:33:31 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Be reassessing statement just read?

8:34:54 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Something analyzed as part of next RTO membership analysis?

8:35:02 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Attempting put value on benefits of joining RTO?

8:36:16 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Recognizing multiple factors, all things being equal, if goal maximum  
reliability be on system, better be part of larger, more  
geographically diverse system?

8:37:38 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Agree is premium being part of system has diversity in the face of  
emergency situation like Elliott?

8:39:57 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace PJM MISO press release, familiar with document?

8:40:00 PM Via Presentation Activated

8:40:12 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Aware on May 9 two organizations announced participate will  
collaborate on informational interregional transfer capability study?

8:40:38 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Companies involved in this effort?

8:41:02 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace See statement second paragraph, reading, see that?

8:41:23 PM Atty Cmar Joint Intervenors - witness Sinclair  
Note: Sacre, Candace Agree with that?

8:41:38 PM	Atty Cmar Joint Intervenors - witness Sinclair Note: Sacre, Candace	Statement from Paul McGlynn, reading, see that?
8:42:16 PM	Atty Cmar Joint Intervenors - witness Sinclair Note: Sacre, Candace	Reference to interregional planning stakeholder advisory committee, know what is?
8:42:24 PM	Atty Cmar Joint Intervenors - witness Sinclair Note: Sacre, Candace	Companies participate in that?
8:42:50 PM	Atty Cmar Joint Intervenors - witness Sinclair Note: Sacre, Candace	Able share how 2024 RTO membership analysis different than previous analyses?
8:42:53 PM	Via Presentation Deactivated	
8:42:55 PM	Via Presentation Activated	
8:42:57 PM	Via Presentation Deactivated	
8:44:02 PM	Chairman Chandler Note: Sacre, Candace	Questions?
8:44:09 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	Cross Examination. Aware PJM and NERC reports warning looming reliability crisis because of increase in load coupled with retirement of dispatchable thermal generation?
8:44:41 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	Why not PJM just order new power plant be built?
8:45:48 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	Know if PJM has authority to order power plant be built?
8:46:12 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Examination. Talking about reliability back stop?
8:46:28 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	Cross Examination (cont'd). Not true primary tool PJM has provide reliability price signals thermal generation be built by independent power producers?
8:47:05 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	Part of problem massive amounts of wind and solar PJM interconnection queue but very little thermal generation?
8:47:23 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	Any price signal PJM might send overcome other price signals build wind build solar, facing those headwinds?
8:49:38 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	Kinda saying PJM been living off fat of regulated systems when states deregulated?
8:50:07 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	Know if Illinois and New Jersey part of PJM?
8:50:31 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	Both outlawed fossil generation by 2030, Illinois and New Jersey?
8:51:10 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	If companies announced intention join PJM, PJM welcome you with open arms?
8:51:48 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	If LG&E/KU joined organization had deteriorating reliability, how improve your reliability?
8:53:08 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	Element of cost transmission, FERC transmission rule socializing big ticket transmission costs in RTOs?
8:53:33 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	As member of PJM, companies subject to RTEP transmission costs?



8:53:55 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	Know if hooking up offshore wind tend to raise RTEP costs of PJM members?
8:54:26 PM	Atty Kurtz KIUC - witness Sinclair Note: Sacre, Candace	RTEP costs consumers in Kentucky pay for transmission on east coast or elsewhere go into decision join PJM?
8:55:00 PM	Chairman Chandler Note: Sacre, Candace	Questions?
8:55:02 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Examination. Wilson works in group?
8:55:20 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Generation case point-one-in-ten loss of load expectation?
8:55:36 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	What know less than one Wilson discussing?
8:55:43 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Point-one, if point-one in ten, equivalent of one in one hundred?
8:55:56 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Be surprised 2023-2024 PJM RPM cleared at reliability index, reliability index of 10 would be one in 10, surprised if cleared at one in 149.2?
8:56:24 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Would an area with LOLE one in 149.2 years considered having degraded reliability?
8:56:54 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Testified in support in 2016 LG&E/KU rate cases closing CSR 1 and 2 and changing rate of classes?
8:57:14 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Settlement in that case?
8:57:26 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Understanding CSR 1 CSR 2 closed to anyone not in queue after effective date of rates?
8:57:43 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Had conversations with Wilson or Conroy about consideration given to doing something different given changed circumstances since rate case?
8:58:16 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Remember when asking Bellar about testimony page 26, reading, changed circumstances since 2016?
9:00:05 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Also changed number of retirement dates since that?
9:00:27 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Talking about Bellar had significant generation retirement study in 2024 rate cases, remember that?
9:01:29 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	What happens if 500 MW data center shows up, coming in and seeking 500 MW of CSR?
9:02:04 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Are in different position than were then, new retirement dates, not cancelling NGCCs, proposed build NGCCs?
9:02:31 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Year later, seeking get rid DSM cases, just approved for entire suite DSM, agree?
9:02:45 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Different position load and capacity than 2016?

9:03:02 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	What keeping you from saying yes?
9:04:29 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Have you had internal conversations about doing something different with CSR, opening a new class or reopening?
9:05:44 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	A lot of questions about MISO BA/BA, had some viewpoint it, something that kept you all from purchasing energy from them?
9:07:08 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	After-action report, become aware some disconnect lack agreement balancing authorities?
9:07:43 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	As relates to things not go well and buying emergency energy, had nothing do with issue not having agreement?
9:08:22 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Seen after-action report?
9:08:50 PM	Commissioner Regan - witness Sinclair Note: Sacre, Candace	Examination. Could not pick up phone and call contacts?
9:09:38 PM	Commissioner Regan - witness Sinclair Note: Sacre, Candace	In a critical timeframe, someone called someone within MISO or one of your contacts?
9:10:19 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Examination. My confusion who sees after-action reports, ever see any of these reports?
9:11:26 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Had you seen after-action report before today?
9:12:05 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Been with company since 2008?
9:12:16 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Ever heard commission ordering utility build power plant not ask for?
9:12:27 PM	Chairman Chandler - witness Sinclair Note: Sacre, Candace	Been at request of utility?
9:12:45 PM	Chairman Chandler Note: Sacre, Candace	Mr. Riggs?
9:12:59 PM	Atty Riggs LG&E/KU Note: Sacre, Candace	Robert Conroy.
9:13:16 PM	Chairman Chandler Note: Sacre, Candace	Witness is sworn.
9:13:25 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	Examination. Name and address?
9:13:35 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	Anything with you?
9:13:49 PM	Atty Riggs LG&E/KU - witness Conroy Note: Sacre, Candace	Direct Examination. Full title?
9:13:59 PM	Atty Riggs LG&E/KU - witness Conroy Note: Sacre, Candace	Responsibilities?
9:14:15 PM	Atty Riggs LG&E/KU - witness Conroy Note: Sacre, Candace	Provide data responses?
9:14:20 PM	Atty Riggs LG&E/KU - witness Conroy Note: Sacre, Candace	Corrections or amendments?
9:14:24 PM	Atty Riggs LG&E/KU - witness Conroy Note: Sacre, Candace	Adopt and affirm as testimony?

9:14:30 PM Chairman Chandler  
Note: Sacre, Candace Questions?

9:14:40 PM Atty Gary Joint Intervenors - witness Conroy  
Note: Sacre, Candace Cross Examination. Heard discussion Sinclair previous rate case?

9:14:52 PM Atty Gary Joint Intervenors - witness Conroy  
Note: Sacre, Candace Part of that rate case?

9:14:57 PM Atty Gary Joint Intervenors - witness Conroy  
Note: Sacre, Candace Heard reference to stay-out provision?

9:15:12 PM Atty Gary Joint Intervenors - witness Conroy  
Note: Sacre, Candace Rates not change but rate case filed to allow rates to change?

9:15:21 PM Atty Gary Joint Intervenors - witness Conroy  
Note: Sacre, Candace Know what timeline is?

9:15:34 PM Atty Gary Joint Intervenors - witness Conroy  
Note: Sacre, Candace Backing up mean filing as early as October this year?

9:15:55 PM Atty Gary Joint Intervenors - witness Conroy  
Note: Sacre, Candace How long take develop rate case for filing?

9:16:05 PM Atty Gary Joint Intervenors - witness Conroy  
Note: Sacre, Candace Company begun preparing file rate case put rates into effect next July?

9:16:25 PM Atty Gary Joint Intervenors - witness Conroy  
Note: Sacre, Candace Not begun looking at CSR changes or anything yet?

9:16:37 PM Chairman Chandler  
Note: Sacre, Candace Questions?

9:16:48 PM Chairman Chandler - witness Conroy  
Note: Sacre, Candace Examination. Part of team prioritizes scores, determines list of circuits for curtailment pursuant each utility PSC Number 20, Original Sheet Number 107?

9:17:20 PM Chairman Chandler - witness Conroy  
Note: Sacre, Candace Know nine list of facilities on tariff?

9:17:29 PM Chairman Chandler - witness Conroy  
Note: Sacre, Candace Interaction with folks keep lists of those?

9:17:55 PM Chairman Chandler - witness Conroy  
Note: Sacre, Candace On 107.1, after lists levels, company maintains lists of customers, reading, know who keeps list?

9:18:55 PM Chairman Chandler - witness Conroy  
Note: Sacre, Candace In charge of FERC tariffs?

9:19:08 PM Chairman Chandler - witness Conroy  
Note: Sacre, Candace Generation formula rate, open access transmission tariff?

9:19:18 PM Chairman Chandler - witness Conroy  
Note: Sacre, Candace Do OATT in conjunction with anybody on transmission side?

9:19:43 PM Chairman Chandler - witness Conroy  
Note: Sacre, Candace New plant in service, accumulated depreciation, that kind calculation?

9:19:48 PM Chairman Chandler - witness Conroy  
Note: Sacre, Candace And standard approved ROE that not change unless proposed?

9:20:00 PM Chairman Chandler - witness Conroy  
Note: Sacre, Candace Capital P, capital T, Policy and Tariff?

9:20:12 PM Chairman Chandler - witness Conroy  
Note: Sacre, Candace Not oversee that group?

9:20:15 PM Chairman Chandler - witness Conroy  
Note: Sacre, Candace Work with that group?

9:20:20 PM Chairman Chandler - witness Conroy  
Note: Sacre, Candace Heard anything about BA/BA needs discussed with Policy and Tariff?

9:20:44 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	When Elliott occurred, what know about tariffs, get brought into discussions about utilities respond or just involved in making sure in compliance follow procedures?
9:21:46 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	Whether utility complied with tariff operating procedures drafted in compliance with tariff?
9:22:32 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	Recurring reference in number of responses in data requests, emphasis as time permits in May, number that have italicized?
9:23:16 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	PSC 1-51, you and Bellar respond, asks, reading, see that?
9:23:45 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	Significant response, second sentence, establish right of companies to, reading, is that right?
9:24:18 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	What this says and what Original Sheet 107 says?
9:24:25 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	During 2020 rate cases, asked provisions in tariff that discuss liability?
9:24:44 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	Number of references to utility liability?
9:24:52 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	Some different varying legal standards, about liability and culpability?
9:25:02 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	In this instance, your understanding that reference to liability in reference to judicial liability or action being regulated utility at Commission?
9:26:25 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	At end, "may" and "as time permits," answering there for italics or entirety of preamble response?
9:26:56 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	One of items asking Bellar earlier this double opening of circuits, remember questions?
9:27:19 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	Aware of that occurrence?
9:27:32 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	Aware as part of this case one of responses indicates revised load shed procedure so not have overlap?
9:28:20 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	Any conversations about benefit of CSR, reexamining closure of it?
9:28:48 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	Looking back whether penalty makes sense what nonperformance results in?
9:29:40 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	CSR tariff requires testing any given year?
9:29:48 PM	Chairman Chandler - witness Conroy Note: Sacre, Candace	Keep records of certifications or tests?
9:30:00 PM	Chairman Chandler Note: Sacre, Candace	Post-hearing last five years certificates or results of tests.
9:30:01 PM	POST-HEARING DATA REQUEST Note: Sacre, Candace Note: Sacre, Candace	CHAIRMAN CHANDLER - WITNESS CONROY CERTIFICATES OR RESULTS OF TESTING AS REQUIRED BY CSR TARIFF FOR LAST FIVE YEARS

9:30:25 PM	Chairman Chandler Note: Sacre, Candace	Redirect?
9:30:32 PM	Atty Riggs LG&E/KU - witness Conroy Note: Sacre, Candace	Redirect Examination. When prepare rate case, consider all rates in tariff and whether need updated?
9:30:58 PM	Atty Riggs LG&E/KU - witness Conroy Note: Sacre, Candace	Include CSR tariffs?
9:31:05 PM	Chairman Chandler Note: Sacre, Candace	Anything else?
9:31:15 PM	Chairman Chandler Note: Sacre, Candace	Post-hearing data requests.
9:32:11 PM	Chairman Chandler Note: Sacre, Candace	Briefs.
9:46:37 PM	Chairman Chandler Note: Sacre, Candace	Anything else?
9:46:40 PM	Chairman Chandler Note: Sacre, Candace	Hearing adjourned.
9:47:03 PM	Session Ended	



## Exhibit List Report

2023-00422 23May2024-A

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

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**Name:****Description:**

SIERRA CLUB HEARING  
EXHIBIT 1

TENNESSEE VALLEY AUTHORITY POWERPOINT PRESENTATION FEB 2 2023

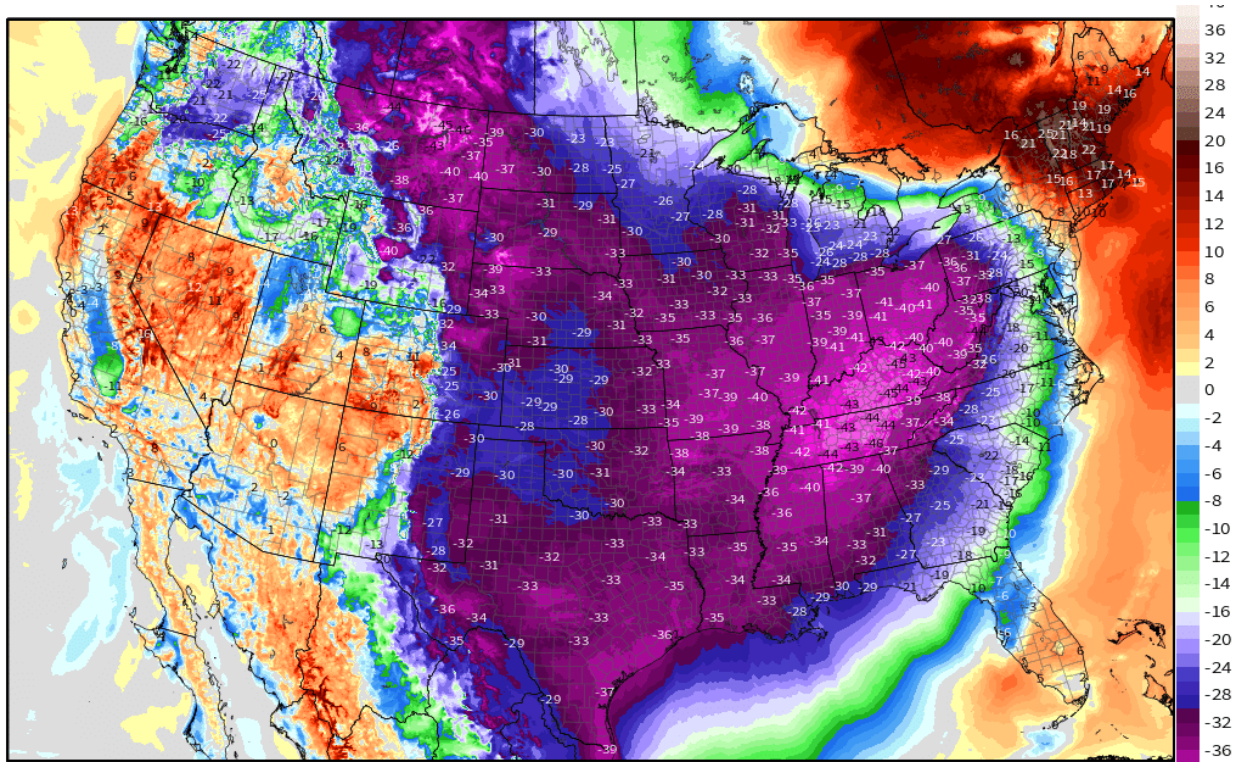
# Winter Storm Elliott Update

February 2, 2023



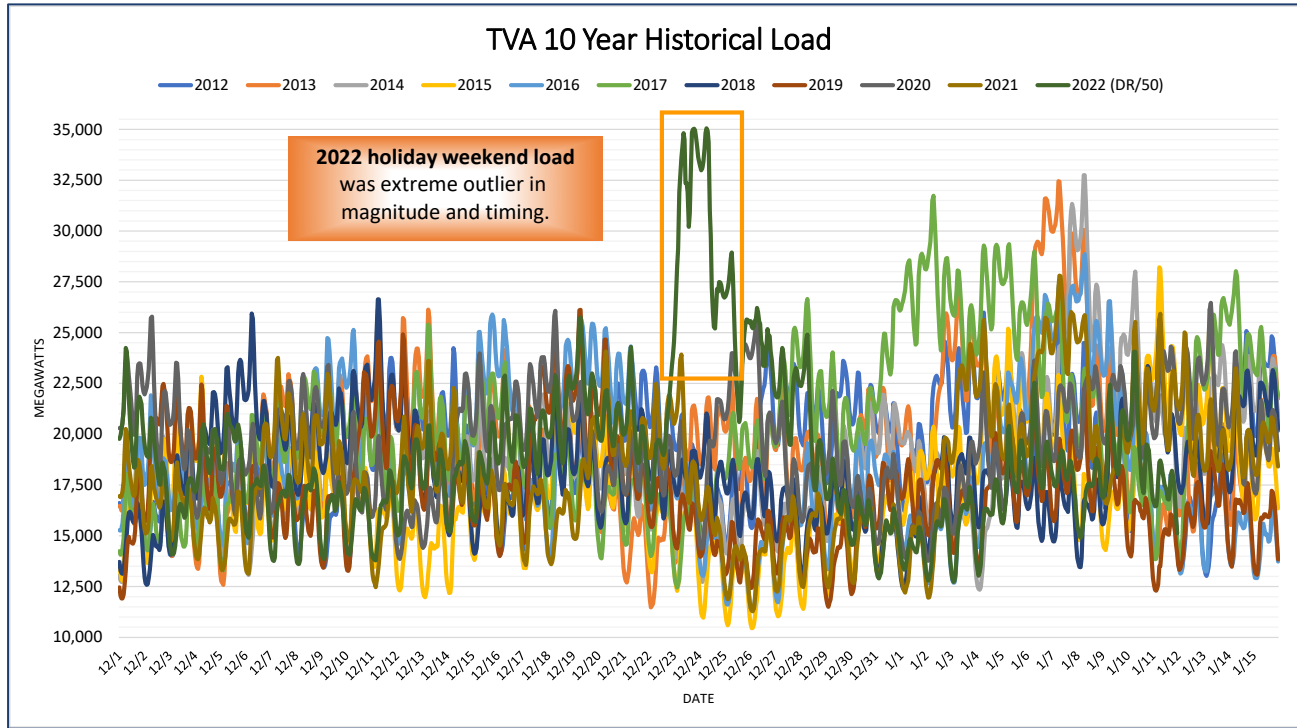


# Winter Storm Elliott was Severe and Unique

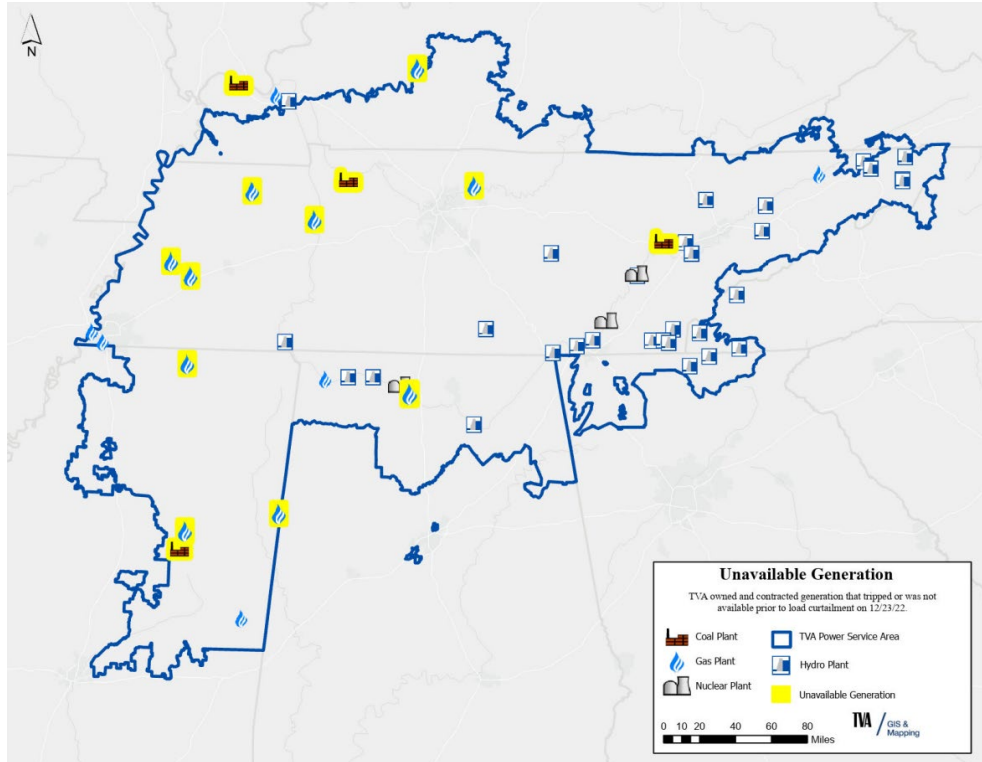




# The Storm Resulted in Dramatic Increases in Demand



# And Negative Impacts to Electricity Supply



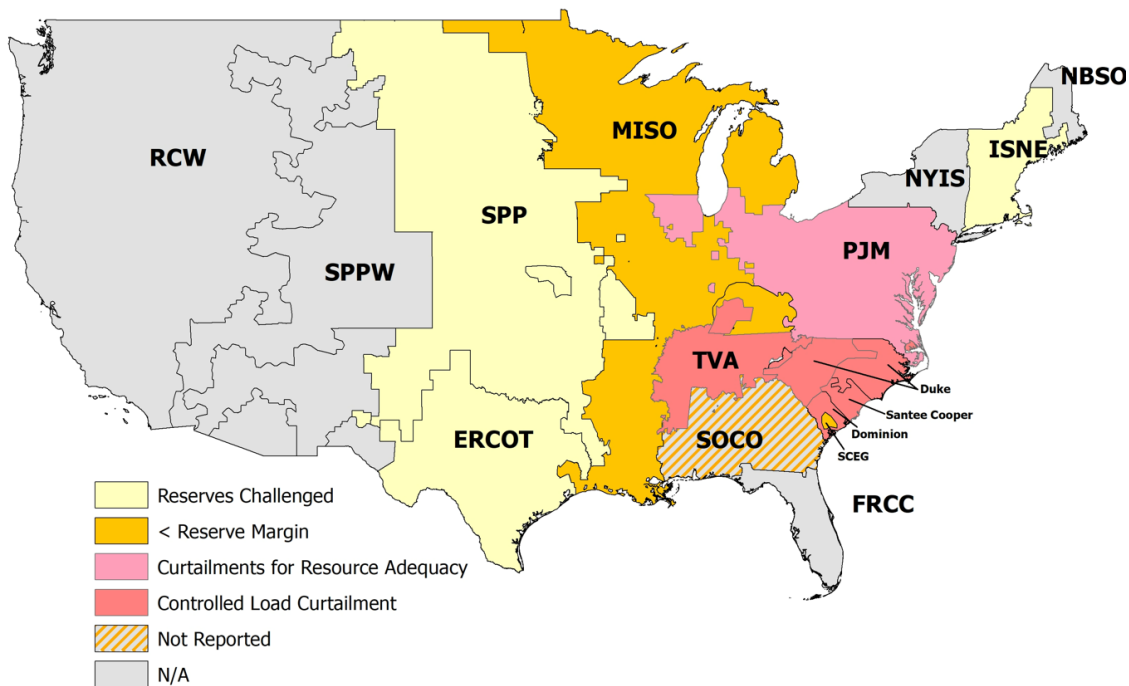
Heavy rains, sudden temperature decreases, high winds, and flash freeze impacted equipment at TVA owned and contracted generating facilities.

Cumberland Fossil Plant units were the largest of the impacted units

- Critical instrumentation located on the top of the boilers froze, tripping the units

A thorough review is underway and over 200 near-term actions are already complete

# Neighboring Markets Were Also Constrained



## Acronyms:

ERCOT – Electric Reliability Council of Texas  
 FRCC – Florida Reliability Coordinating Council  
 ISNE – Independent System Operator New England  
 MISO – Midcontinent Independent System Operator  
 NBSO – New Brunswick System Operator  
 NYIS – New York Independent System Operator  
 PJM – PJM Interconnection  
 RCW – Reliability Coordinator West  
 SCEG – South Carolina Electric & Gas  
 SOCO – Southern Company  
 SPP & SPPW – Southwest Power Pool  
 TVA – Tennessee Valley Authority

## Sources:

[Arctic Blast Rolling Reliability in TVA, MISO, SPP, PJM \(powermag.com\)](#)  
[LG&E and KU roll out power outages as cold impacts energy grid | whas11.com](#)  
[Duke Energy says heavy electricity demand led to rolling Christmas blackouts \(msn.com\)](#)  
[Dominion Energy asks customers to conserve power amid high demand \(msn.com\)](#)  
[Santee Cooper implements power outages every half hour due to freezing temps in Georgetown \(msn.com\)](#)  
[ERCOT expected to make it through rest of Christmas freeze without issue, despite emergency request Friday \(msn.com\)](#)  
[ISNE Twitter Feed](#)

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# We are Conducting a Thorough After-Action Review

TVA is conducting a comprehensive after-action review to understand what happened and why, and actions we can take in the near, medium and long-term to incorporate lessons learned. As part of this effort, we are:

- **Engaging industry experts and customers** for input and feedback
- **Incorporating independent oversight** through our Blue Ribbon Panel
- **Committed to transparency** and sharing our findings and progress

TVA is relentlessly focused on continuous improvement and is taking the time to get this right. We want to know every lesson that can be learned, and are already taking preventative, proactive steps to improve.

- Since the storm, TVA employees identified and addressed over **200 near-term actions** to improve resilience and performance in advance of the next event

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