

From: [Jackson, John](#)
Sent: Tuesday, December 20, 2022 12:12 PM
To: [REDACTED]; [REDACTED]
Subject: LG&E/KU Cold Weather Alert

Everyone,

Due to the powerful winter storm forecast to impact Kentucky and southern Indiana Thursday into the Christmas holiday weekend. Minor snow accumulations appear likely Thursday night through Friday, and a rapid drop in temperature and high winds will likely worsen the impact of the any snow accumulations. Wind gusts late Thursday night through Friday could be in the 40-50 mph range. These winds along with the frigid temperatures will result in dangerous wind chills. The cold weather will last through Christmas.

LG&E/KU will enter into a Cold Weather Alert for the LG&E/KU service territory from 1200 EST on 12/22/2022 thru 1200 EST on 12/26/2022.

Cold Weather Alert:

-
As extreme cold temperatures, along with associated wind chill factors, are forecasted for the service territory, Cold Weather Alert may be issued. Transmission Operations utilizes Louisville and Lexington weather location and temperature to base the decision to issue Severe Weather Alerts for the Transmission Service Territory.

Action Items:

- a. Review system adequacy requirements (i.e. the amount of Operating Reserves versus Operating Reserve requirements).
- b. Review all work on critical computer systems, such as EMS and ICCP maintenance and coordinating with IT to suspend work on critical telecommunication equipment.
- c. Review maintenance, construction, and testing being performed on any transmission facilities and if appropriate, requesting deferral or cancellation of scheduled work. This includes non-essential planned maintenance, tree trimming, Remote Terminal Unit (RTU) work, protection and control testing, etc.
- d. Review Transmission Operations staffing levels and evaluating the need to staff the Backup Control Center.
- e. Notifying BAA LSE's and IPP's of the current Cold Weather Alert and provide start and end times.

John B. Jackson
Mgr System Control Center | Transmission System Operations | LG&E and KU

M: [REDACTED] O: [REDACTED] F: [REDACTED]

lge-ku.com



Business Use

From: [Jackson, John](#)
Sent: Tuesday, December 20, 2022 12:09 PM
To: [Rob Leesman](#); [Michelle Hixon](#); [Doug Buresh](#); [Heather Overby](#)
Cc: [Ramos, Felipe](#); [Steinmetz, Keith](#)
Subject: LG&E/KU Cold Weather Alert

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John B. Jackson
Mgr System Control Center | Transmission System Operations | LG&E and KU



M: [REDACTED] O: [REDACTED] F: [REDACTED]
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Business Use

From: [Jackson, John](#)
Sent: Tuesday, December 20, 2022 12:10 PM
To: [Tim Lyons](#); [Berry, William](#)
Cc: [Ramos, Felipe](#); [Steinmetz, Keith](#)
Subject: LG&E/KU Cold Weather Alert

Everyone,

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John B. Jackson
Mgr System Control Center | Transmission System Operations | LG&E and KU


M: [REDACTED] O: [REDACTED] F: [REDACTED]
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Business Use

From: [Jackson, John](#)
Sent: Tuesday, December 20, 2022 12:13 PM
To: [Willbur, Mickey](#); [Frank, James](#); [Oelker, Linn](#)
Cc: [Ramos, Felipe](#); [Steinmetz, Keith](#)
Subject: LG&E/KU Cold Weather Alert

Everyone,

Due to the powerful winter storm forecast to impact Kentucky and southern Indiana Thursday into the Christmas holiday weekend. Minor snow accumulations appear likely Thursday night through Friday, and a rapid drop in temperature and high winds will likely worsen the impact of the any snow accumulations. Wind gusts late Thursday night through Friday could be in the 40-50 mph range. These winds along with the frigid temperatures will result in dangerous wind chills. The cold weather will last through Christmas.

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John B. Jackson
Mgr System Control Center | Transmission System Operations | LG&E and KU


M: [REDACTED] O: [REDACTED] F: [REDACTED]
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Business Use

From: [Jackson, John](#)
Sent: Friday, December 16, 2022 9:38 AM
To: [REDACTED]; [Ramos, Felipe](#); [Meacham, Jonathan](#); [Burns, Matthew](#); Diaz, Jorge
Cc: [REDACTED]; [Fritch, Tim](#); [McAmis, C. Michael](#); [Steinmetz, Keith](#)
Subject: RE: Cold Weather Forecast next week

Answers below.

John

Business Use

From: Williams, Terry D [REDACTED]
Sent: Friday, December 16, 2022 9:18 AM
To: Jackson, John [REDACTED]; Ramos, Felipe [REDACTED]
Meacham, Jonathan [REDACTED]
Cc: [REDACTED]; Fritch, Tim [REDACTED]; McAmis, C. Michael [REDACTED]
Subject: Cold Weather Forecast next week

EXTERNAL email. STOP and THINK before responding, clicking on links, or opening attachments.

Good morning John, Felipe, Jonathan

I'm sure you all are aware of the forecasted cold weather expected next week.

- Do you have any reliability or capacity related concerns? **Not at this time we will continue to evaluate the fleet and let you know immediately if anything changes.**
- Are you taking any steps to prepare for this cold weather event? **Yes, I should have our plan out to you early to mid-week.**

Thank you,

Terry Williams
Manager, Reliability Operations
Reliability Authority & Regional Operations



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From: [tdwilliams](#)
Sent: Tuesday, December 20, 2022 4:00 PM
To: [Jackson, John](#)
Cc: [Ramos, Felipe](#); [Ramos, Felipe](#); [Meacham, Jonathan](#); [Burns, Matthew](#); Diaz, Jorge; [Steinmetz, Keith](#)
Subject: RE: TVA RC Cold Weather Report (12/22 - 12/26)

EXTERNAL email. STOP and THINK before responding, clicking on links, or opening attachments.

John,

Below is a high level summary of TVA RC and Member Company updates – I will continue to make updates and send periodically as I get additional information.

TVA RC Area Report — (12/22 - 12/26) Forecasted Cold Weather Event

TVA RC:

TVA RC continues to monitor the forecast closely in anticipation for the below normal temperatures to move across our footprint.

From a Reliability standpoint we are continuing to take a detailed look, Right now nothing is flagging as a particular concern.

Alert Status: None

- TVA RC plans to issue Cold Weather Alert Wednesday AM for the period starting Thursday, December 22 – 26.
- Medium → High probability for declaring Conservative Operations Alert during period December 22 – 26.

Neighboring TVA RC Areas:

SPP RC:

SPP Issued a **Cold Weather Advisory** for the entire region of the SPP RC East footprint, effective from 12/21/2022 20:00 CPT
These conditions are expected to impact the SPP footprint until 12/26/2022 10:00 CPT.

PJM RC:

PJM Issued a **Cold Weather Advisory** for the Western Region zones from 07:00 on 12/23/2022 through 23:00 on 12/25/2022.

MISO RC:

MISO declares a **Cold Weather Alert** for South Region area(s) effective from 12/22/2022 12:00 EST to 12/26/2022 12:00 EST..
Expected temperatures are forecasted below 31.
Operations Personnel expect contact about fuel restrictions. Review SO-P-NOP-00-449 Conservative System Operations Procedure.

AECI BA/TOP:

Preparing for the high loads throughout the forecasted Cold Weather Event. There are a few transmission outages that could cause concern and AECI will be coordinating to see if they can be returned before 12/22.
Dell is offline for commissioning and is expected to return 12/20 - Freeze off causing gas prices to jump

Alert Status:

AECI currently in **Conservative Operations Advisory** - 12/19 - 12/ 25.

- Due to Load forecasts being 85% or greater than the AECI historic winter peak, extreme cold temperatures and wind chills will be in the -15 to -35° range,
and the chance for strong gusting winds up to 40-50 mph, Associated (AECI) has entered into a Conservative Operations Advisory (COA) for the entire system footprint.
 - *This advisory event indicates anticipated conditions are likely to meet the criteria for a system alert event.*
 - *This advisory does not require any immediate mitigating action but allows for preparation and safe system posturing.*
- AECI anticipates conditions for a Conservative Operations Alert (COA) starting 12/22 and going through the night of 12/25.

LGE-KU BA/TOP

Preparing for the high loads throughout the forecasted Cold Weather Event. No reliability or capacity related concerns at this time.
LGE-KU will continue to evaluate the fleet and report immediately if system position changes.

Alert Status:

LGE-KU currently issued a **Cold Weather Alert** from 1200 EST on 12/22/2022 thru 1200 EST on 12/26/2022.

- Due to the powerful winter storm forecast to impact Kentucky and southern Indiana Thursday into the Christmas holiday weekend.
- Minor snow accumulations appear likely Thursday night through Friday, and a rapid drop in temperature and high winds will likely worsen the impact of

- the any snow accumulations.
- Wind gusts late Thursday night through Friday could be in the 40-50 mph range. These winds along with the frigid temperatures will result in dangerous wind chills. The cold weather will last through Christmas.

TVA BA/TOP

Preparing for the high loads throughout the forecasted Cold Weather Event. (12/23 thru 12/26) - , still working to refine the forecast and timing. Several generation resources returned to service or in Start-up mode and expected gen-sync today. Most outages returned that can be returned – TOP continues to coordinate with Field Operations for others.

Alert Status:

Due to the risks associated with this event, TVA BA/TOP expects to enter Cold Weather Alert Thursday, 12/22 at 1200 system time for the weekend.

Terry Williams

Manager, Reliability Operations
Reliability Authority & Regional Operations



W. [REDACTED] M. [REDACTED] E. [REDACTED]

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From: [Jackson, John](#)
Sent: Wednesday, December 21, 2022 11:13 AM
To: [tdwilliams](#)
Cc: [Ramos, Felipe](#); [Meacham, Jonathan](#); [Burns, Matthew](#); Diaz, Jorge; [Steinmetz, Keith](#); [Flickner, Christopher](#); [Darland, Steve](#)
Subject: RE: TVA RC Cold Weather Report (12/22 - 12/26)

Terry,

Latest updates:

LG&E/KU (BA) Weather – A Winter Storm Watch is in effect for Thursday Evening into Friday across much of southern Indiana and portions of central Kentucky (west of Interstate-65). Total snow accumulations of 2 - 4 inches will be possible in the Watch area along with wind gusts to 45 mph and wind chills as low as 25 degrees below zero. For the rest of the area, still expecting minor snow accumulations, wind gusts to 40 mph and wind chills bottoming out in the -15 to -20 F range.

Transmission Operations – Studies performed with system load of 6,200; with a 3,000 South to North flow and no issues identified. No EMS failovers will take place until after the first of the year (Primary is currently Simpsonville).

Load Serving Entities (OMU, KMPA, KYMEA) – No issues have been reported. LG&E/KU has notified them of our current Cold Weather Alert Status.

Generation/Loads – No concerns generation fleet is good standing and starting on Thursday thru Saturday should be going into peak hours with roughly 800 mw's of spinning into peak periods.

Generation Limitations/Outages

- Mill Creek 1 - off for waterwall boiler leak repairs, already firing due back online this afternoon.
- Brown 10 - exhaust duct repairs and turbine blade maintenance (01/08)
- Dix 1 - planned outage extension, waiting for increased water level to commission

Loads

- Thursday LG&E/KU 4,149 BA 4,541
- Friday LG&E/KU 5,899, BA 6,344
- Saturday LG&E/KU 5,881 BA 6,292
- Sunday LG&E/KU 5,444 BA 5,840

Fuel Updates

- Currently Texas and Texas Eastern do not have any Operational Flow Orders (OFO's) in place.

Transmission Lines – These are the only two line outages that will not be returnable due to complete rebuild. All other line outages will be returned to service by Thursday 12/22 at 1700 EST. These outages have been studied at a 6,200 load and currently do not cause any reliability issues.

- Millersburg to Sardis 69kV line (Sardis is on radial out of EKPC Murphysville)

- Wofford to Elihu 69kV Line (EKPC Cumberland Falls REA on radial out of Wofford), (EKPC Mt. Victory REA on radial from Elihu).

Substation – Substation group has reached out on some minor issues to be taken care of with some of our assets starting at generating facilities. Should be wrapped up today.

- We have (2) 69kV capacitors (Lancaster, Bardstown) with auto-voltage control turned off but are available in emergency; studies were performed with these capacitors out of service and no issues were identified.

Operations Personnel – Staffing is in place and operations is currently discussing the needs for rooms at our local hotel. We are also purchasing food for quick and easy meals during this event.

Weather Alerts/Conservative Operations/Resource Alerts:

- LGE-KU BA/TOP currently issued a **Cold Weather Alert** from 1200 EST on 12/22/2022 thru 1200 EST on 12/26/2022. Due to the powerful winter storm forecast to impact Kentucky and southern Indiana Thursday into the Christmas holiday weekend. Minor snow accumulations appear likely Thursday night through Friday, and a rapid drop in temperature and high winds will likely worsen the impact of the any snow accumulations. Wind gusts late Thursday night through Friday could be in the 40-50 mph range. These winds along with the frigid temperatures will result in dangerous wind chills. The cold weather will last through Christmas.
- LG&E/KU Distribution declared **Conservative Operations** beginning Thursday 12/22 @ noon until Monday 12/26 @ 6pm

John

Business Use

From: Williams, Terry D [REDACTED]
Sent: Tuesday, December 20, 2022 4:00 PM
To: Jackson, John [REDACTED]
Cc: Ramos, Felipe [REDACTED]; Ramos, Felipe [REDACTED]
Meacham, Jonathan [REDACTED] Burns, Matthew [REDACTED]
[REDACTED]; Diaz, Jorge [REDACTED]; Steinmetz, Keith [REDACTED]
Subject: RE: TVA RC Cold Weather Report (12/22 - 12/26)

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Terry Williams

Manager, Reliability Operations
Reliability Authority & Regional Operations



W. [REDACTED] M. [REDACTED] E. [REDACTED]
[REDACTED]

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From: [REDACTED]
Sent: Tuesday, December 20, 2022 9:52 AM
Subject: RCIS Message - LG&E/KU Cold weather Alert

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Posted By: TVA Reliability Coordinator
Subject: LG&E/KU Cold weather Alert
DateTime Posted: 12/20/2022 2:50:59 PM UTC
Message:

Due to the powerful winter storm forecast to impact Kentucky and southern Indiana Thursday into the Christmas holiday weekend. Minor snow accumulations appear likely Thursday night through Friday, and a rapid drop in temperature and high winds will likely worsen the impact of the any snow accumulations. Wind gusts late Thursday night through Friday could be in the 40-50 mph range. These winds along with the frigid temperatures will result in dangerous wind chills. The cold weather will last through Christmas.

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From: [REDACTED]
Sent: Friday, December 23, 2022 6:13 AM
Subject: RCIS Message - LGE/KU Alert Status

EXTERNAL email. STOP and THINK before responding, clicking on links, or opening attachments.

Posted By: TVA Reliability Coordinator
Subject: LGE/KU Alert Status
DateTime Posted: 12/23/2022 11:11:26 AM UTC
Message:

At 05:10CPT LGE/KU will be entering into a Generation Alert Status and will remain there until further notice.

From: [Jackson, John](#)
Sent: Friday, December 23, 2022 4:19 PM
To: [Rob Leesman](#); [Doug Buresh](#); [Heather Overby](#); [Chris Burton](#); [REDACTED]; [Berry, William](#); [REDACTED]
Cc: [Ramos, Felipe](#); Diaz, Jorge; [Steinmetz, Keith](#); [Meacham, Jonathan](#); [Burns, Matthew](#)
Subject: LG&E/KU BA currently in an EEA 2

Everyone,

As of 13:36, LG&E/KU BA entered an EEA 3.

At 14:52, LG&E/KU BA entered an EEA 2 which stands currently.

Consistent with the LG&E/KU Capacity and Energy Emergency Operating Plan (EOP-011), we would like you to know that in the event load shed occurs (EEA 3), there could be the possibility of the LG&E/KU BA issuing an Operating Instruction to coordinate the load shed event with all its LSEs.

Furthermore and consistent with the NOA Appendix A, the LG&E/KU BA asks, if the LSE anticipates an Imbalance lasting more than 15 minutes, the Network Customer shall implement mitigation procedures which may include, but are not limited to:

- Managing its generation resources to increase capability
- Public appeals for voluntarily load reduction
- Request to government agencies to implement their programs to achieve necessary energy reductions
- Reduction of internal utility energy use
- Use of interruptible load, curtailable load, and demand response
- Voltage reduction
- Purchasing energy from third parties, regardless of the cost; and
- Making a request through the BA to the RC to declare an Energy Emergency for the purpose of triggering the availability of Capacity Benefit Margin

The Network Customer shall take any and all mitigation actions necessary to ensure that a Negative Imbalance Event ends within ninety minutes of the commencement of such Imbalance Event.

Thanks
John

John B. Jackson
Mgr System Control Center | Transmission System Operations | LG&E and KU

[REDACTED]
M: [REDACTED] O: [REDACTED] F: [REDACTED]
lge-ku.com



Confidential

From: [Pitts, George](#)
Sent: Thursday, December 22, 2022 12:09 PM
To: [Burns, Matthew](#); [Jackson, John](#); [Meacham, Jonathan](#)
Cc: [tdwilliams](#); [Fritch, Tim](#); [McAmis, C. Michael](#)
Subject: upcoming winter storm support

EXTERNAL email. STOP and THINK before responding, clicking on links, or opening attachments.

Hi Fellas,

Did not see any real issues and didn't hear any needs on the call this morning.

I am available if Y'all need anything over the next few challenging days.

Feel free to call with any needs.

██████████ cell

Kind regards,

George T. Pitts, PE
Power Systems Planning Engineer (Operations)
Transmission Operations-Reliability Analysis



W. ██████████ E. ██████████
██

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