Steinmetz, Keith

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]; Diaz, Jorge [redacted] Steinmetz, Keith [redacted]
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 being 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

TENNESSEE VALLEY AUTHORITY

W. [redacted] **M.** [redacted] **E.** [redacted]

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