# Attachment 2 to Response to AG-1 Question No. 13(1) **Gas Operations – Winter Storm Elliott Response Summary**

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### **Gas Sendout Forecast Information:**

		Avg Temp	Sendout	Planned Storage	Actual Avg	Actual	Actual Storage
Date	Day	Forecast	Forecast (Mcf)	Withdrawals (Mcf)	Temp	Sendout (Mcf)	Withdrawals (Mcf)
22-Dec	Thurs	24	342,000	115,000	20.8	335,795	98,852
23-Dec	Fri	7	469,000	118,000	3.4	510,726	216,232
24-Dec	Sat	15	408,000	179,000	15.1	422,548	178,340
25-Dec	Sun	19	375,000	122,000	19.1	371,739	133,332

- 1. The 510,726 sendout on 12-23 exceeded forecast by just under 9%.
  - a. 11<sup>th</sup> highest on record for LG&E
  - b. 2<sup>nd</sup> highest for December on record (record was 522,590 on 12/22/1989)
  - c. Highest since the all-time peak of 557,465 on 1/6/2014

## **Gas Operations Information:**

- There were no weather-related gas outages during the event.
- Staffing:
  - Gas Control and Storage (GC&S) had over 50 employees working during the 12/22 -0 12/25 time period
    - Magnolia Station added staff for 24x7 operation
    - Muldraugh Station added staff to support 24x7 operation
    - Gas Control added additional on-call staff to support 24x7 operation
  - Gas Operations and Construction had additional personnel on staff and on-call though customer trouble calls were typical for a winter day.
- GC&S experienced various issues with equipment, largely related to the cold temperatures, that were addressed quickly by employees:
  - Magnolia Compressor Station:
    - Booster compressor starting issues
    - Upper and Deep dehydrators lost power
    - Center dehydrator lost power due to electrical power outage and failure of emergency back-up generator to immediately start
    - Center station piping from BTEX flare to tank froze off and had to be heated
    - Diesel fuel was very difficult to pump from tank to equipment
  - Muldraugh Compressor Station:
    - Power blip Friday morning led to equipment shutdowns and manual restarts for amine purification plant, dehydration plant, odorant system and misc.
    - Minor gas leak in compressor building picked up by the #2 gas detector caused delay starting compressors
    - Various valve issues due to cold
    - Temporary delay in starting yard coolers due to cold.
  - Gas Control:
    - Various regulator facility manual pressure set point adjustments associated with alarm indications
    - Manual pressure control set point monitoring at LaGrange city gate station
    - Penile and Crestwood city gate stations had regulator heater failures
    - Monroe city gate station emergency back-up generator failed to start on loss of primary power to station

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## **Gas Supply Information:**

- With the exception of some small supply cuts, LG&E's suppliers performed well throughout the storm.
- Texas Gas gave us approval to over-pull from our Texas Gas Rate NNS storage service if needed. Rate NNS service was also used to inject gas as needed to support additional withdrawals from LG&E's on-system storage.
- Some pool managers serving large end-use customers underdelivered to LG&E's system during the storm and incurred Operational Flow Order (OFO) penalty charges.