

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

**ELECTRONIC INVESTIGATION)
INTO THE MEASURING,)
RECORDING, AND REPORTING OF) CASE NO. 2018-00394
WATER LOSS BY KENTUCKY'S)
JURISDICTIONAL WATER)
UTILITIES)**

**RESPONSE OF
KNOTT COUNTY WATER AND SEWER DISTRICT
TO
COMMISSION'S REQUEST FOR INFORMATION
DATED DECEMBER 18, 2018**

FILED: January 14, 2019

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**


In the Matter of:

| | | |
|------------------------------------|---|----------------------------|
| ELECTRONIC INVESTIGATION |) | |
| INTO THE MEASURING, |) | |
| RECORDING, AND REPORTING OF |) | CASE NO. 2018-00394 |
| WATER LOSS BY KENTUCKY'S |) | |
| JURISDICTIONAL WATER |) | |
| UTILITIES |) | |

**CERTIFICATION OF RESPONSE OF KNOTT COUNTY WATER AND
SEWER DISTRICT TO
COMMISSION'S REQUEST FOR INFORMATION**

This is to certify that I have supervised the preparation of Knott County Water and Sewer District's Response to the Commission's Request for Information. The response submitted on behalf of Knott County Water and Sewer District is true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

Date: 1-14-19



Jared Salmons, General Manager
Knott County Water and Sewer District

KNOTT COUNTY WATER AND SEWER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 1

Responding Witness: Jared Salmons

- Q-1. Explain in detail the manner in which you measure, calculate, and track water loss, and:
- a. Identify whether you use any manual form (including Excel spreadsheet) or electronic or mechanized system to calculate and track water loss.
 - b. Provide a copy of any form used (including Excel spreadsheet).
 - c. Identify the source of any form or system used.
- A-1. Knott County Water and Sewer District measures our finished water totals by means of a Mag meter. Each month on or about the 15th of the month we retrieve readings utilizing our radio read meter system. We import those readings to our billing software to determine our usage for residential and wholesale customers. We then input those numbers into the spreadsheet you provided along with the flushing numbers provided by our distribution crew, the usage report we receive from our fire department, the usage from our water treatment plant and the usage of our sewer plants. We use the spreadsheets built in calculations to determine our water loss.
- a. Knott County Water and Sewer District uses the approved PSC water loss spreadsheet.
 - b. See the attached Appendix A.
 - c. Public Service Commission

KNOTT COUNTY WATER AND SEWER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 2

Responding Witness: Jared Salmons

Q-2. Explain in detail your understanding of the information to be provided in each of the categories on the Water Statistics page (reference page 30) of the annual report required of jurisdictional water utilities, accessed through the Commission's website.

A-2.

2. Water produced at the water treatment plant
3. Water purchased from suppliers
4. Total Water produced and purchased
7. Water sold to residential customers
8. Water sold to commercial customers
9. Water sold to industrial customers
10. Water sold at bulk at loading stations
11. Water sold for resale
12. Any other water sold
13. Total of all water sold
16. Water used by the utility
17. Water used at wastewater plant
18. Water used for system flush
19. Water used by the fire department
20. Other water used that doesn't apply in the categories above
21. Total of all other water used
24. Water loss to tank overflows
25. Water loss due to line breaks that have been repaired
26. Water loss due to line leaks that haven't been repaired
27. Other water loss that doesn't apply in the categories above
28. The total water loss
33. Water loss calculation and percentage that has been calculated

KNOTT COUNTY WATER AND SEWER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 3

Responding Witness: Jared Salmons

- Q-3. State any questions you have regarding how to use the updated Commission Form described and attached as Appendix A to this Order.
- A-3. Knott County Water and Sewer District has no questions.

KNOTT COUNTY WATER AND SEWER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 4

Responding Witness: Jared Salmons

- Q-4. State any suggestions or improvements you have for the updated Commission Form described and attached as Appendix A to this Order.
- A-4. Knott County Water and Sewer District has no suggestions or improvements.

KNOTT COUNTY WATER AND SEWER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 5

Responding Witness: Jared Salmons

- Q-5. State any questions you have regarding how the information in the updated Commission Form described and attached as Appendix A to this Order is to be incorporated into annual reports.
- A-5. Knott County Water and Sewer District has no questions.

KNOTT COUNTY WATER AND SEWER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information

Question No. 6

Responding Witness: Jared Salmons

- Q-6. State any concerns you have regarding the use of the updated Commission Form described and attached as Appendix A to this Order.
- A-6. Knott County Water and Sewer District has no concerns.

KNOTT COUNTY WATER AND SEWER DISTRICT

CASE NO. 2018-00394

Response to Commission's Request for Information


Question No. 7

Responding Witness: Jared Salmons

- Q-7. State whether you believe it is reasonable, proper, and appropriate for the Commission to require jurisdictional water utilities to maintain and use the updated Commission Form described and attached as Appendix A to this Order. Fully explain your answer
- A-7. Knott County Water and Sewer District believes that water loss is of great importance to any water utility and that it is reasonable to require utilities to maintain and use an updated form.

CERTIFICATE OF SERVICE

In accordance with 807 KAR 5:001, Section 8, I certify that Knott County Water and Sewer District's electronic filing of this Response is a true and accurate copy of the same document being filed in paper medium; that the electronic filing was transmitted to the Public Service Commission on January 14, 2019; that there are currently no parties that the Public Service Commission has excused from participation by electronic means in this proceeding; and that an original paper medium of this Response will be delivered to the Public Service Commission within two business days.



Jared Salmons

PUBLIC SERVICE COMMISSION

Monthly Water Loss Report

Water Utility:

For the Month of: Year:

| LINE # | ITEM | GALLONS (Omit 000's) |
|--------|---|----------------------|
| 1 | WATER PRODUCED, PURCHASED & DISTRIBUTED | |
| 2 | Water Produced | 57,731 |
| 3 | Water Purchased | 394 |
| 4 | TOTAL PRODUCED AND PURCHASED | 58,125 |
| 5 | | |
| 6 | WATER SALES | |
| 7 | Residential | 11,291 |
| 8 | Commercial | 36,017 |
| 9 | Industrial | |
| 10 | Bulk Loading Stations | |
| 11 | Wholesale | |
| 12 | Other Sales | |
| 13 | TOTAL WATER SALES | 47,308 81.4% |
| 14 | | |
| 15 | OTHER WATER USED | |
| 16 | Utility and/or Water Treatment Plant | 654 |
| 17 | Wastewater Plant | 200 |
| 18 | System Flushing | 3,000 |
| 19 | Fire Department | 20 |
| 20 | Other | |
| 21 | TOTAL OTHER WATER USED | 3,874 6.7% |
| 22 | | |
| 23 | WATER LOSS | |
| 24 | Tank Overflows | |
| 25 | Line Breaks | 160 |
| 26 | Line Leaks | 6,783 |
| 27 | Other | |
| 28 | TOTAL LINE LOSS | 6,943 11.9% |
| 29 | | |
| 30 | Note: Line 13 + Line 21 + Line 28 Must Equal Line 4 | |
| 31 | | |
| 32 | WATER LOSS PERCENTAGE | |
| 33 | Unaccounted-For Water (Line 28 divided by Line 4) | 11.9% |