

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

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In the Matter of:

JACKSON COUNTY WATER ASSOCIATION, INC., )  
APPLICATION FOR A CERTIFICATE OF )  
CONVENIENCE AND NECESSITY AND APPROVAL )  
OF FINANCING PLAN TO CONSTRUCT A WATER ) CASE NO. 9054  
STORAGE TANK AND TO MAKE ALTERATIONS )  
TO EXISTING WATER TREATMENT PLANT AND )  
FOR INCREASE OF WATER RATES )

O R D E R

IT IS ORDERED That Jackson County Water Association, Inc., shall file an original and eight copies of the following information with the Commission with a copy to all parties of record by June 8, 1984. If neither the requested information nor a motion for an extension of time is filed by the stated date, the case may be dismissed.

1. Information required by 807 KAR 5:001, Sections 6 through 10 (please see Appendix B - Billing analysis forms).
2. Engineering Report.
3. Construction drawings and specifications.
4. Letter of approval from Division of Water (Department for Natural Resources and Environmental Protection).
5. Copy of FMHA letter of conditions.

Done at Frankfort, Kentucky, this 18th day of May, 1984.

ATTEST:

PUBLIC SERVICE COMMISSION

\_\_\_\_\_  
Secretary

  
For the Commission

## APPENDIX B

### APPENDIX TO AN ORDER OF THE PUBLIC SERVICE COMMISSION IN CASE NO. 8775 DATED

#### BILLING ANALYSIS

The billing analysis is the chart reflecting the usage by the customers as well as the revenue generated by a specific level of rates. A billing analysis of both the current and proposed rates is mandatory for analysis of a rate filing. The following is a step-by-step description which may be used to complete the billing analysis. A completed sample of a billing analysis is also included.

a. Usage Table (Usage by Rate Increment)

Information needed to complete the usage table should be obtained from the meter books or other available usage records. The usage table is used to spread total usage into the proper incremental rate step. Initial recording of usage should be in 100 gallon increments. Where there are only a few very large users or contract customers, actual usage should be used. Usage between 0-100 gallons should be shown as 100, between 101-200 as 200, etc. The usages and customers are then combined for purposes of the usage table as follows:

Column No. 1 is the incremental steps in the present or proposed rate schedule for which the analysis is being made. Column No. 2 is the number of bills in each incremental rate step. Column No. 3 is the total gallons used in each incremental rate step. Columns Nos. 4, 5, 6, 7, 8 and 9 are labeled to correspond to the incremental rate steps shown in Column No. 1 and contains the actual number of gallons used in each incremental rate step.

Example for completing Usage Table is as follows:

Column No. 1 is incremental rate steps.

Columns No. 2 and 3 are completed by using information obtained from usage records.

Columns No. 4, 5, 6, 7, 8, and 9 are completed by the following steps:

Step 1: 1st 2,000 gallons minimum bill rate level  
432 Bills  
518,400 gallons used  
All bills use 2,000 gallons or less,  
therefore, all usage is recorded in  
Column 4.

- Step 2: Next 3,000 gallons rate level  
 1,735 Bills  
 4,858,000 gallons used  
 1st 2,000 minimum x 1,735 bills = 3,470,000  
 gallons - record in Column 4  
 Next 3,000 gallons - remainder of water over  
 2,000 = 1,388,000 - record in Column 5
- Step 3: Next 10,000 gallons rate level  
 1,830 Bills  
 16,268,700 gallons used  
 1st 2,000 minimum x 1,830 bills = 3,660,000  
 gallons - record in Column 4  
 Next 3,000 gallons x 1,830 bills = 5,490,000  
 gallons - record in Column 5  
 Next 10,000 gallons - remainder of water over  
 3,000 = 7,118,700 gallons - record in  
 Column 6
- Step 4: Next 25,000 gallons rate level  
 650 bills  
 15,275,000 gallons used  
 1st 2,000 minimum x 650 bills = 1,300,000  
 gallons record in Column 4  
 Next 3,000 gallons x 650 bills = 1,950,000  
 gallons record in Column 5  
 Next 10,000 gallons x 650 bills = 6,500,000  
 gallons - record in Column 6  
 Next 25,000 gallons - remainder of water over  
 10,000 gallons = 5,525,000 gallons - record  
 in Column 7
- Step 5: Over 40,000 gallons rate level  
 153 bills  
 9,975,600 gallons used  
 1st 2,000 minimum x 153 bills = 306,000  
 gallons - record in Column 4  
 Next 3,000 gallons x 153 bills = 459,000  
 gallons - record in Column 5  
 Next 10,000 gallons x 153 bills = 1,530,000  
 gallons - record in Column 6  
 Next 25,000 gallons x 153 bills = 3,825,000  
 gallons - record in Column 7  
 Over 40,000 gallons - remainder of water over  
 25,000 = 3,855,600 gallons - record in  
 Column 8
- Step 6: Total each column for transfer to Revenue  
 Table.

b. Revenue Table (Revenue by Rate Increment)

Revenue Table is used to determine the revenue produced from the Usage Table. Column No. 1 is the incremental rate steps in the rate schedule for which the analysis is being made. Column No. 2 indicates the total number of bills. Column No. 3 is the number of gallons accumulated in each rate increment (Totals from Columns 4, 5, 6, 7 and 8 of the above usage table). Column No. 4 is the rates to be used in determining revenue. Column No. 5 contains revenue produced.

Example for completing Revenue Table is as follows:

Complete Columns no. 1, 2 and 3 using information from Usage Table.

Complete Column No. 4 using rate either present or proposed.

Column No. 5 is completed by first multiplying the bills times the minimum charge.

Then, starting with the second rate increment, multiply Column No. 3 by Column No. 4 and total.

Revenue from Present/Proposed Rates

Test Period from 1-1-81 to 12-31-81

USAGE TABLE  
Usage by Rate Increment

(1) Residential	(2) Bills	(3) Gallons/MCF	(4)					(7) Next 25,000	(8) Over 40,000	(9) Total
			1st 2,000	Next 3,000	Next 10,000	Next 25,000	Over 40,000			
2,000: Minimum Bill	432	518,400	518,400	1,386,000					518	
3,000 Gallons	1,735	4,858,000	3,470,000	1,386,000	7,116,700				4,858	
10,000 Gallons	1,830	16,260,700	3,660,000	5,490,000	6,500,000	5,525,000			16,266	
25,000 Gallons	650	15,275,000	1,300,000	1,950,000	1,530,000	3,825,000			15,275	
40,000 Gallons	153	9,975,600	306,000	659,000					9,975	
Total	4,800	46,895,700	9,254,400	9,287,000	15,140,700	9,350,000	3,855,600		46,895	

REVENUE TABLE

Revenue By Rate Increment

(1)	(2) Bills	(3) Gallons/MCF	(4) Rate	(5) Revenue
2,000: Minimum Bill	4,800	9,254,400	\$5.00 Min.	\$24,000.00
3,000 Gallons		9,287,000	2.50	23,217.50
10,000 Gallons		15,148,700	2.00	30,297.40
25,000 Gallons		9,350,000	1.25	11,687.50
40,000 Gallons		3,855,600	.75	2,891.70
				\$92,094.10 Total Revenue