## COMMONWEALTH OF KENTUCKY

## BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

> THE APPLICATION AND NOTICE OF THE )

AQUA CORPORATION (KENTUCKY WATER
SERVICE CO., INC.) FOR AN ADJUSTMENT) CASE NO. 89-340 OF RATES IN MIDDLESBORO AND CLINTON,) KENTUCKY

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\end{array}
$$

IT IS ORDERED that Aqua Corporation ("Aqua") shall file an original and 12 copies of the following information with the Commission, with a copy to all parties of record, by April 4, 1990. Each copy of the data requested should be placed in a bound volume with each item tabbed. When a number of sheets are required for an item, each sheet should be appropriately indexed, for example, Item $1(a)$, Sheet 2 of 6 . Include with each response the name of the witness who will be responsible for responding to questions relating to the information provided. Careful attention should be given to copied material to ensure that it is legible. Where information requested herein has been provided along with the original application, in the format requested herein, reference may be made to the specific location of said information in responding to this information request. When applicable, the information requested herein should be provided for total company operations and individual operations, separately. If the information cannot be provided by this date, Aqua should submit a motion for an extension of time stating the reason an extension is
necessary and include a date by which it will be furnished. Such motion will be considered by the Commission.

1. Capital structure at the end of each of the periods as shown in Format 1.
2. a. Provide a list of all outstanding issues of longterm debt as of the end of the latest calendar year and the end of the test period together with the related information as shown in Format 2a. Provide a separate schedule for each time period. Report in Column (k) of Format 2a, Schedule 2, the actual dollar amount of debt cost for the test year. Compute the actual and annualized composite debt cost rates and report them in Column (j) of Format 2a, Schedule 2.
b. Provide an analysis of end-of-period, short-term debt and a calculation of the average and end-of-period cost rates as shown in Format $2 b$.
3. a. List all issues of common stock in the primary market during the most recent lo-year period as shown in format 4 a.
b. Provide the common stock information on quarterly and yearly basis for the most recent 5 calendar years available, and through the latest available quarter as shown in Format 4 b .
C. Provide monthly market price figures for common stock for each month during the most recent 5-year period and for the months through the date the application is filed as shown in Format 4c. List all stock splits by date and type.
4. Provide a computation of fixed charge coverage ratios for the 10 most recent calendar years and for the test year as shown in Format 5.
5. Provide a detailed analysis of customers' bills. adjusted to actual usage and in such detail that the revenues from the present and proposed rates can be readily determined.
a. Provide a breakdown as to how the numbers in Exhibit 9 and 9-A of Aqua's application were obtained and how they relate to Exhibits 8 and 8-A.
b. Is a minimum monthly usage allowance included with the minimum monthly meter charges? If yes, do any customers connected to a meter larger than $5 / 8 \times 3 / 4$ inch use less than the minimum usage allowance?
c. Provide a schedule showing the amount and percent of any proposed increase or decrease in revenue distributed to each customer class (i.e. residential, commercial, industrial, etc.). Explain in detail the methodology or basis used to allocate the requested increase or decrease in revenue to each customer classes.
d. Provide a schedule showing the distribution of the increase or decrease in (c) above to each rate charge (i.e., customer or usage charge per 1000 gallons, etc.). Explain in detail the methodology or basis used to allocate the increase or decrease.
e. Provide a statement showing by cross-outs and italicized inserts all proposed changes in rates, charges, terms
and conditions, and service rules and regulations for each rate or charge. A copy of current tariff may be used.
6. a. Provide monthly water sales and production for each month of the test period, the 12 months preceding the test period. and the most recent period subsequent to the test period, as shown in format 7a.
b. Provide the number of customers and revenue from water sales by month for the same period as 6 a, as shown in format 7b.
7. Provide in comparative form, a total company income statement, a statement of changes in financial position, and a balance sheet for the test year and the 12 -month period immediately preceding the test year.
8. Provide a trial balance as of the last day of the test year (all income statement accounts should show activity for 12 months) showing account number, account title, and amount. Provide this information for each individual operation (Middlesboro, Clinton, and Other) and on a total company basis. Show the balance in each control and all underlying subaccounts per company books.
9. Provide the balance in each current asset and each current liability account and subaccount included in Aqua's chart of accounts by months for the test year. Additionally show total current assets, total current liabilities and the net current position by months, annually, and the 13 -month average for the test year. provide a reconciliation of current assets, current liabilities and net current position provided in response to the
above with the current assets and current liabilities as shown on the balance sheet for each month of the test year. If any amounts were allocated, provide a calculation of the factor used to allocate each amount.
10. List each common general office account (asset, reserve, and expense accounts) covering the 12 months of the test year applicable to more than one utility operation. If any amounts were allocated, show a calculation of the factor used to allocate each amount.
11. The following monthly account balances and a calculation of the average ( 13 -month) account balances for the test year for the Middlesboro operations, Clinton operations, and total company operations:
a. Plant in service (Account 101).
b. Plant purchased or sold (Account 102).
c. Property held for future use (Account 205).
d. Construction work in progress (Account 107) (Separate this balance into CWIP eligible for capitalized interest and other CWIP.)
e. Completed construction not classified (Account 106).
f. Depreciation reserve (Account 108).
g. Plant acquisition adjustment (Account 114).
h. Amortization of utility plant acquisition adjustment (Account 115).
i. Materials and supplies (include all accounts and subaccounts).
j. Balance in accounts payable applicable to each account in $i$ above. (If actual is indeterminable, give reasonable estimate.)
k. Unamortized investment credit - Pre-Revenue Act of 1971.
12. Unamortized investment credit - Revenue Act of 1971.
m. Accumulated deferred income taxes.
n. A summary of customer deposits as shown in Format lln to this request.
o. Computation and development of minimum cash requirements.
p. Balance in accounts payable applicable to amounts included in utility plant in service. (If actual is indeterminable, give reasonable estimate.)
q. Balance in accounts payable applicable to prepayments by major category or subaccount.
$r$. Balance in accounts payable applicable to amounts included in plant under construction. (If actual is indeterminable, give reasonable estimate.)
s. Pre-Administrative Case No. 313, Contributions in Aid of Construction.
t. Administrative Case No. 313, Contributions in Aid of Construction.
u. Pre-Administrative Case No. 313, Customer Advances (collections and refunds).
v. Administrative Case No. 313, Customer Advances (collections and refunds).
13. Provide the cash account balances at the beginning of the test year and at the end of each month during the test year for each individual operation and total company.
14. Provide the following information for each item of water property held for future use at the end of the test year:
a. Description of property
b. Location
c. Date purchased
d. Cost
e. Estimated date to be placed in service
f. Brief description of intended use
g. Current status of each project
15. Provide schedules in comparative form showing by month for the test year and the year preceding the test year the total company balance in each water plant and reserve account or subaccount and each water plant and reserve account or subaccount included in Aqua's chart of accounts as shown in Format 14.
16. Provide the journal entries relating to the purchase of water utility plant acquired as an operating unit or system by purchase, merger, consolidation, liquidation, or otherwise since Aqua's inception. Also provide a schedule showing the calculation of the acquisition adjustment at the date of purchase of each item of utility plant, the amortization period, and the unamortized balance at the end of the test year.
17. Provide the detailed workpapers showing calculations supporting all accounting, pro forma, end-of-period, and proposed rate adjustments in the rate application to revenue, expense, investment and reserve accounts for the test year contained in Exhibits 10, $10-\mathrm{A}, 13$ and 13-A. Explain in detail all components used in each calculation including the methodology employed and all assumptions applied in the derivation of each adjustment. Index each calculation to the accounting, pro forma, end-of-period, and proposed rate adjustment which it supports.
18. Refer to page 4 of Exhibits 10 and $10-\mathrm{A}$ of Aqua's application:
a. Explain how estimated hours worked was determined for each adjustment.
b. Explain why 11 months were used in applying the pro forma salary adjustments.
c. The salary adjustments in Exhibits 10 and 10-A were allocated among several accounts. Provide the basis for the allocation.
19. Refer to Exhibit 13 of Aqua's application:
a. Explain why the unamortized acquisition adjustment of $\$ 293,271$ was included in Middlesboro's original cost rate base.
b. When does Aqua expect its proposed capital improvement of $\$ 150,000$ to be completed?
c. If the capital improvement of $\$ 150,000$ is an estimate, provide the basis for this estimate and the actual construction cost, when available.
d. Provide Middlesboro's test-period capital structure, including its Job Development Investment Tax Credit ("JDITC") and the basis for its requested rate of return of 10.42 percent.
20. In reference to Exhibit $13-A$, provide Clinton's test-period capital structure including its JDITC and the basis for its requested rate of return of 7.44 percent.
21. At the end of the test period, Aqua had construction work in progress of $\$ 165,036$ inclusive of Middlesboro's capital improvements. Explain why Aqua has excluded Allowance for Funds Used During Construction from its revenue requirement determination for Middlesboro and Clinton.
22. Provide a schedule showing a comparison of the balance in the total company's and each individual operation's revenue
accounts for each month of the test year to the same month of the preceding year for each revenue account or subaccount included in Aqua's chart of accounts. Include appropriate footnotes to show the month each rate increase was granted and the month the full increase was recorded in the accounts. See Format 14.
23. a. Provide a schedule showing a comparison of the balance in the total company's and each individual operation's operating expense accounts for each month of the test year to the same month of the preceding year for each account or subaccount included in Aqua's chart of accounts. See Format 14.
b. Provide a schedule in comparative form showing each individual operation's and the total company's operating expense account balance for the test year and each of the 5 years preceding the test year for each account or subaccount included in Aqua's annual report. Show the percentage of increase of each year over the prior year.
c. Provide a schedule of each individual operation's and the total company's salaries and wages for the test year and each of the 5 calendar years preceding the test year in the format as shown in Format 18 c to this request. Show for each time period provided the amount of overtime pay.
d. Provide a schedule showing the percentage of increase in salaries and wages for both union and non-union employees for the test year and the 5 preceding years.
24. Provide the amount of excess deferred federal income taxes resulting from the reduction in the corporate tax rate from 46 percent to 34 percent, as of the end of the test year.
25. Provide the following tax data for the test year for each individual operation and the total company. (Provide supporting documentation and/or calculations.)
a. Income taxes:
(1) Federal operating income taxes deferred accelerated tax depreciation.
(2) Federal operating income taxes deferred - other (explain).
(3) Federal income taxes - operating.
(4) Income credits resulting from prior deferrals of federal income taxes.
(5) Investment tax credit net.
(i) Investment credit realized.
(ii) Investment credit amortized - Pre-Revenue Act of 1971.
(iii) Investment credit amortized - Revenue Act of 1971.
(6) Provide the information in 24a (1) through 24a (4) for state income taxes.
(7) Reconciliation of book to taxable income as shown in Format 20a (7) and a calculation of the book federal and state income tax expense for the test year using book taxable income as the starting point.
(8) A copy of federal and state income tax returns for the taxable year ended during the test year including supporting schedules.
(9) Schedule of franchise fees paid to cities, towns, or municipalities during the test year including the basis of these fees.
b. Provide an analysis of Kentucky other operating taxes in the format as shown in attached Format 20b.
c. Provide federal book and tax expense for the 34 percent rate. Also provide any supporting documentation.
26. Provide a schedule of individual company and total company net income per 100,000 gallons sold per company books for the test year and the 5 calendar years preceding the teat year. This data should be provided as shown in Format 21 attached.
27. Provide the comparative operating statistics as shown in Format 22 attached.
28. Provide a schedule of individual company and total company average water plant in service per 100,000 gallons sold by account per company books for the test year and the 5 calendar years preceding the test year. This data should be provided as shown in Format 23 attached.
29. Provide a statement of water plant in service per company books for the test year. This data should be presented as shown in Format 24 attached.
30. Provide the following information: If any amounts were allocated, show a calculation of the factor used to allocate each amount.
a. A detailed analysis of all charges booked during the test period for advertising expenditures. This analysis should include a complete breakdown of Account 913 - Advertising Expenses, as shown in Format $25 a$ attached, and show any other advertising expenditures included in any other expense accounts.

The analysis should be specific as to the purpose of the expenditure and the expected benefit to be derived.
b. An analysis of Account 930-Miscellaneous General Expenses for the test period. This analysis should show a complete breakdown of this account as shown in attached Format 25b and further provide all detailed working papers supporting this analysis. At a minimum, the workpapers should show the date, vendor, reference (i.e., voucher no., etc.), dollar amount, and brief description of each expenditure. Detailed analysis is not required for amounts of less than $\$ 500$ provided the items are grouped by classes as shown in Format 25b attached.
c. An analysis of Account 426-Other Income Deductions for the test period. This analysis should show a complete breakdown of this account as shown in attached Format 25 c and further provide all detailed working papers supporting this analysis. At a minimum the workpapers should show the date, vendor, reference (i.e., voucher no., etc.), dollar amount, and brief description of each expenditure. Detailed analysis is not required for amounts of less than $\$ 500$ provided the items are grouped by classes as shown in Format $25 c$ attached.
30. Provide a detailed analysis of expenses incurred during the test year for professional services, as shown in Format 26, and all working papers supporting the analysis. At a minimum, the working papers should show the payee, a dollar amount, reference (i.e., voucher no., etc.), account charged, hourly rates and time charged to the company according to each invoice, and a description of the service provided.
31. Provide a detailed analysis of contributions for charitable and political purposes (in cash or services), if any, recorded in accounts other than Account 426. This analysis should indicate the amount of the expenditure, the recipient of the contribution, and the specific account charge. If amounts are allocated, show a calculation of the factor used to allocate each amount.
32. Describe Aqua's lobbying activities and provide a schedule showing the name of the individual, his salary, his organizations or trade associations involved in, all company-paid or reimbursed expenses or allowances, and the account charged for all personnel for whom a principal function is that of lobbying, on the local, state, or national level. If any amounts are allocated, show a calculation of the factor used to allocate each amount.
33. Provide the following information with regard to uncollectible accounts for the test year and 5 preceding calendar years (taxable year acceptable) for total company:
a. Reserve account balance at the beginning of the year.
b. Charges to reserve account (accounts charged off).
c. Credits to reserve account.
d. Current year provision.
e. Reserve account balance at the end of the year.
f. Percent of provision to total revenue.
34. Provide a detailed analysis of the retained earnings account for the test period and the 12 -month period immediately preceding the test period.
35. a. Provide a listing of non-utility property and property taxes and accounts where amounts are recorded.
b. Provide a schedule for all non-utility property giving a description, the date purchased, and the cost.
36. Provide Aqua's rates of return as shown in Format 32 attached.
37. Provide employee data for all Aqua employees as shown in Format 33 attached.
38. Provide a copy of all studies for the test year including all applicable workpapers, which are the basis of common plant allocations and expenses account allocations.
39. A calculation of the rate or rates used to capitalize interest during construction for the test year and the 3 preceding calendar years. Provide a narrative explanation of each component entering into the calculation of this rate.
40. Provide all information, as soon as it is known, which would have a material effect on net operating income, rate base, and cost of capital which occurred after the test year.
41. Provide a detailed monthly income statement for each month after the test period including the month in which the hearing ends, as they become available.
42. List all present and proposed research efforts concerning the pricing of water and their current status.
43. Provide a schedule reflecting the salaries and other compensation of each executive officer for the test year and the preceding 2 calendar years. Include the percentage annual increase and the effective date of each increase, the job title, duty and responsibility of each officer, the number of employees who report to each executive officer and to whom each executive officer reports. Also, for employees elected to executive officer status during the test year, provide the salaries, for the test year, for those persons whom they replaced.
44. Provide an analysis of Aqua's expenses for research and development activities for the test year and the 5 preceding calendar years. For the test year include the following details:
a. Basis of fees paid to research organizations. Where the contribution is monthly, provide the current rate and the effective date.
b. Details of the research activities conducted by each organization.
C. Details of services and other benefits provided to the company by each organization during the test year.
d. Total expenditures of each organization during the test year including the basic nature of costs incurred by the organization.
e. Details of the expected benefits to the company.
45. Provide the average number of customers for each customer class (i.e., residential, commercial, and industrial) for the test period and for each month of the test period.
46. Provide the names and mailing addresses of each of Aqua's directors.
47. Provide all current labor contracts and the most recent contracts previously in effect.
48. Provide a schedule showing the test year and the year preceding the test year with each year shown separately the following information regarding Aqua's investments in subsidiaries and joint ventures:
(1) Name of subsidiary or joint venture.
(2) Date of initial investment.
(3) Amount and type of investment made for each of the 2 years included in this report.
(4) Balance sheet and income statement for the test year and the year preceding the test year. Where only internal statements are prepared, furnish copies of these statements.
(5) Show on a separate schedule all dividends or income of any type received by Aqua from its subsidiaries or joint ventures for each of the 2-year report periods and indicate how this income is reflected in the reports filed with the Commission and the stockholder reports.
(6) Name of officers of each of the subsidiaries or joint ventures, officers' annual compensation, and portion of compensation charged to the subsidiary or
joint venture. Also, indicate the position each officer holds with Aqua and the compensation received from the applicant.
49. Provide the following data relating to affiliated or parent company(s):
a. Total company balance sheet, income statement, and statement of changes in financial position for the last 2 calendar years along with a statement of changes in financial position for the test period.
b. Schedule showing balance sheet, income statement, and retained earnings adjusting entries for consolidating each company with its parent company.
c. Schedule of company's home office and/or inter-company charges; monthly for the test year and yearly for the last 2 calendar years. State the type of goods or services provided (i.e., supplies capitalized, data service, management services, etc.). The amount by type from each billing unit and the method used in billing (i.e., direct or allocated) and basis for allocating common charges.
d. Schedule of any federal income tax reductions due to the filing of a consolidated parent tax return for either of the last 2 taxable years. Show the source and type of reduction, and the method and basis of allocating to companies and states. Done at Frankfort, Kentucky, this 14th day of March, 1990.


ATTEST:
Sumurelochen
Executive Director

# Format 1 

Schedule 1
Page 1 of 5
AQUA CORPORATION
Case No. 89-340
Comparative Capital Structures (Excluding JDIC)
For the Periods as Shown
"000 Omitted"

Line
No. Type of Capital
10th Year 9th Year 8th Year Amount Ratio Amount Ratio Amount Ratio

1. Long Term Debt
2. Short Term Debt
3. Preferred Preference Stock
4. Common Equity
5. Other (Itemize by type)
6. Total Capitalization

AOUA CORPORATION
Case No. 89-340
Comparative Capital Structures (Excluding JDIC)

```
For the Periods as shown
    "000 Omitted"
```

7th Year 6th Year 5th year Amount Ratio Amount Ratio Amount Ratio

Line
No. Type of Capital

1. Long Term Debt
2. Short Term Debt
3. Preferred \& Preference stock
4. Common Equity
5. Other (Itemize by type)
6. Total Capitalization

Page 3 of 5

AQUA CORPORATION
Case No. 89-340

Comparative Capital Structures (Excluding JDIC)
For the Periods as Shown
"000 Omitted"


1. Long Term Debt
2. Short Term Debt
3. Preferred Preference Stock
4. Common Equity
5. Other (Itemize by type)
6. Total Capitalization

AQUA CORPORATION
Case No. 89-340

## Comparative Capital Structures (Excluding JDIC) <br> For the Periods as Shown <br> "000 Omitted"

## Line <br> No. Type of Capital

$\frac{\text { Ist Year }}{\text { Amount Ratio }} \frac{\text { Mest Year }}{$|  Average  |
| :---: |
|  Mest Year  |}

1. Long Term Debt
2. Short Term Debt
3. Preferred \& Preference Stock
4. Common Equity
5. Other (Itemize by type)
6. Total Capitalization

# AQUA CORPORATION 

Case No. 89-340

## Comparative Capital Structures (Excluding JDITC) For the Periods as Shown <br> "000 Omitted"

| Line |
| :--- |
| No. Type of Capital |

1. Long Term Debt
2. Short Term Debt
3. $\quad$| Preferred |
| :--- |
| Stock Preference |
4. Common Equity
5. Other (Itemize by Type)
6. Total Capitalization

Line No. Type of Capital Long Term Debt Short Term Debt Preferred \& preference Stock Common Equity Other (Itemize by Type) Total Capitalization

## Instructions:

1. Provide a calculation of the average test year data as shown in Format l, Schedule 2.
2. If the applicant is a member of an affiliated group, the above data is to be provided for the parent company and the system consolidated.
```
                                    AQUA CORPORATION
                                    Format l
                                    Schedule 2
Case No. 89-340
Calculation of Average Test Period Capital Structure 12 Months Ended
"000 Omitted"
```



## Case No. 89-340

Schedule of Outstanding Long-Term Debt For the Calendar Year Ended December 31. $\qquad$


Total Long-Term Debt and Annualized Cost

Annualized Cost Rate [Total
Col. (J) - Total Col.(d)
1 Nominal Rate
Nominal Rate Plus Discount or Premium Amortization
Nominal Rate Plus Discount or Premium Amortization and Issuance Cost
Standard and Poor's, Moody, etc.

Case No. 89-340
Schedule of Outstanding Long-Term Debt For the Test Year Ended

Actual


Total Long-Term Debt and Annualized Cost

Annualized Cost Rate \{Total
Col. (j) - Total Col.(d)]
Actual Long-Term Debt Cost
Rate [Total Col. $k$ - Total
Reported in Col. (c) Line 15
of Format 1, Schedule 2]
1 Nominal Rate
Nominal Rate Plus Discount or Premium Amortization
Nominal Rate Plus Discount or Premium Amortization and Issuance Cost
Standard and Poor's, Moody, etc.
5 Sum of Accrued Interest Amortization of Discount or Premium and Issuance Cost

## AQUA CORPORATION

CASE NO. 89-340
Long-Term Debt and Preferred Stock Cost Rates
Annualized Cost Rate Long-Term Debt Preferred Stock

## Parent Company:

Test Year
Latest Calendar year
System Consolidated:
Test Year
Latest Calendar year

Instruction:

1. This schedule is to be completed only by applicants that are members of an affiliated group.
2. Detailed workpapers showing calculation of the above cost rates are to be available on request.

## AQUA CORPORATION

Case No. 89-340
Schedule of Short-Term Debt
For the rest Year Ended

| Line | Type of Debt | Date of | Date of | Amount | Nominal Interest | Effective Interest | Annualized <br> Interest Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. | Instrument | Issue | Maturity | Outstanding | Rate | Cost Rate | Col. (d) $\times$ Col. (f) |
|  | (a) | (b) | (c) | (d) | (e) | (f) | (9) |

```
Tatal Short-Term Debt
Annualized Cost Rate [Total Col. (g) - Total Col.(d)]
Actual Interest Paid or Accured on Short Term
    Debt during the Test Year [Report in Col. (g) of this schedule]
Average Short-Term Debt - Format 1, Schedule 2
    Line 15 Col. (d) [Report in Col. (g) of this schedule]
Test Year Interest Cost Rate [Actual Interest -
    Average Short-Term Debt] [Report in Col. (f) of this schedule]
```

Instructions:

1. In all instances where the Effective Interest Cost Rate is different from the Nominal Interest Rate provide a calculation of the effective Interest Cost Rate in sufficient detail to show the items of costs that cause the difference.
Test Feriod from $1-1-81$ to 12-31-81
USAGE TABLE
Hane bl Rate Increment
Clase: Revidenelal



Case No. 89-340
Schedule of Common Stock Issue
For the 10 Year Period Ended $\qquad$

| Number | Price Per | Price Per | Book Value | Selling Exps. | Net |
| :---: | :---: | :---: | :---: | :---: | :---: |
| of Shares | Share to | Share (Net | Per Share At | As of Gross | Proceeds |
| Issued | Public | to Company) | Date of Issue | Issue Amount | to Company |

Instructions:

1. If applicant is a member of an affiliate group, provide in a separate schedule the above data for the parent company.

AQUA CORPORATION
Case No. 89-340
Quarterly and Annual Common Stock Information For the Periods as Shown

## Period

| Average |  | Earnings | Dividend | Return on |
| :---: | :---: | :---: | :---: | :---: |
| No. of Shares | Book | er | Rate | Average |
| Outstanding | Value | Share | Per Share | Common Equity |
| (000) | (\$) | (\$) | (\$) | (\%) |

5th Calendar Year:
lst Quarter
2nd Quarter
3rd Quarter
4th Quarter
Annual
4th Calendar Year:
lst Quarter
2nd Quarter
3rd Quarter
4th Quarter
Annual
3rd Calendar Year:
lst Quarter
2nd Quarter
3rd Quarter
4th Quarter
Annual
2nd Calendar Year:
lst Quarter
2nd Quarter
3rd Quarter
4th Quarter
Annual
lst Calendar Year:
lst Quarter
2nd Quarter
3rd Quarter 4th Quarter Annual

Latest Available Quarter
Instructions:

1. Report annual returns only.
2. If applicant is a member of an affiliate group, provide in a separate schedule the above data for the parent company.

AQUA CORPORATION
Case No. 89-340
Common Stock - Market Price Information
Month

## ITEM

January February March April May June
5th Year:
Monthiy High
Monthly Low
Monthly Closing Price
4th Year:
Monthly High
Monthly Low
Monthly Closing price
3rd Year:
Monthly High
Monthly Low
Monthly Closing Price
2nd Year:
Monthly High
Monthly Low
Monthly Closing Price
Months to Date of Filings:
Monthly Bigh
Monthly Low
Monthly Closing Price

## Instructions:

1. Indicate all stock splits by date and type.
2. If applicant is a member of an affiliate group, provide in a separate schedule the above data for the parent company.

AQUA CORPORATION
Case No. 89-340
Common Stock - Market Price Information
Month

Item
July August September October November December
5th Year:
Monthly High
Monthly Low
Monthly Closing Price
4th Year:
Monthly High
Monthly Low
Monthly Closing Price
3rd Year:
Monthly Eigh
Monthly Low
Monthly Closing Price

## 2nd Year:

Monthly High
Monthly Low
Monthly Closing Price
Months to Date of Filings:
Monthly Eigh
Monthly Low
Monthly Closing Price

## Instructions:

1. Indicate all stock splits by date and type.
2. If applicant is a member of an affiliate group, provide in a separate schedule the above data for the parent company.

## Format 5

## Page 1 of 4

## AQUA CORPORATION

Case No. 89-340

## Computation of Fixed Charge Coverage Ratios For the Periods as Shown



## No. Item

Net Income Additions Itemize

Total Additions Deductions: Itemize

Total Deductions
Income Available for Fixed Charge Coverage

Fixed Charges
Fixed Charge Coverage Ratio

## AQUA CORPORATION

Case No. 89-340

## Computation of Fixed Charge Coverage Ratios For the Periods as Shown



## No. Item

Net Income Additions Itemize

Total Additions Deductions:

Itemize

Total Deductions
Income Available for Fixed Charge Coverage

Fixed Charges
Fixed Charge Coverage Ratio

Format 5
Page 3 of 4

## AQUA CORPORATION

Case No. 89-340

# Computation of Fixed Charge Coverage Ratios For the Periods as Shown 

|  | Bond or |  | Bond or |  | Bond or |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mortg. |  | Mortg. |  | Mortg. |
|  | Indenture |  | Indenture |  | Indenture |
| SEC Method | $\begin{aligned} & \text { Require- } \\ & \text { ment } \end{aligned}$ | SEC <br> Method | Requirement | SEC <br> Method | Requirement |

No. Item
Net Income
Additions
Itemize

Total Additions Deductions:

Itemize

Total Deductions
Income Available for Fixed Charge Coverage

Fixed Charges
Fixed Charge Coverage Ratio

AQUA CORPORATION
Case No. 89-340

## Computation of Fixed Charge Coverage Ratios For the Periods as Shown

| lst Calendar Year |  | Test Year |  |
| :---: | :---: | :---: | :---: |
| Bond orMortg. |  |  | Bond or Mortg. |
|  |  |  |  |
|  | Indenture |  | Indenture |
| SEC | Require- | SEC | Require- |
| Method | ment | Method | ment |

No. Item
Net Income
Additions
Itemize

## Total Additions Deductions: Itemize

## Total Deductions

Income Available for Fixed Charge Coverage

Fixed Charges
Fixed Charge Coverage Ratio

| Eine | $18 t$ | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | 11th | 12th |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. | Nonth | Month | Month | Month | Month | Month | Month | Month | Month | Month | Month | Month |

1. Water Sales (thousand gals.)
2. Residential
3. Commercial
4. Industrial
5. Fire Service
6. Other
7. Total Water Sales
8. System Delivery (thousand gals.)
9. Water Produced
10. Water Purchased
11. Total System Delivery

# AQUA CORPORATION 

## Case No. 89-340

Analysis of Customers and Revenue


1. Number of Customers
2. Residential
3. Comercial
4. Industrial
5. Fire Service
6. Other
7. Total Number of Customers
8. Water Revenue
9. Residential
10. Commercial
11. Industrial
12. Fire Service
13. Other
14. Total Water Revenue

AQUA CORPORATION
Case No. 89-340
SUMMARY OF CUSTOMER DEPOSITS
Test Year

| Line No. | $\frac{\text { Month }}{(a)} \quad \frac{\text { Receipts }}{(b)}$ | $\frac{\text { Refunds }}{(c)}$ | $\frac{\text { Balance }}{(\mathrm{C})}$ |
| :---: | :---: | :---: | :---: |
| 1. | Balance beginning of test year |  |  |
| 2. | 1st Month |  |  |
| 3. | 2nd Month |  |  |
| 4. | 3rd Month |  |  |
| 5. | 4th Month |  |  |
| 6. | 5 th Month |  |  |
| 7. | 6th Month |  |  |
| 8. | 7th Month |  |  |
| 9. | 8th Month |  |  |
| 10. | 9th Month |  |  |
| 11. | loth Month |  |  |
| 12. | 11th Month |  |  |
| 13. | 12th Month |  |  |
| 14. | Total (LI through Ll3) |  |  |
| 15. | Average Balance (L14-13) |  |  |
| 16. | Amount of deposits received dur | test per |  |
| 17. | Amount of deposits refunded dur | test per |  |
| 18. | Number of deposits on hand end | st year |  |
| 19. | Average amount of deposit (L15, | umn (d) |  |
| 20. | Interest paid during test period |  |  |

agua corporation
Case No. 89-340
COMPARISON OF TEST yEAR ACCOUNT bALANCES WITH THOSE OF THE
PRECEDING YEAR

| Account Title an | 1st | 2nd | 3rd | 4th | Sth | 6th | 7th | 8th | 9th | 10th | 11th | 12th |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Account Number | Month | Month | Month | Month | Nonth | Month | Month | Month | Month | Month | Month | Month | Total |

Test Year prior Year
Increase
(Decrease)

AQUA CORPORATION
Case No. 89-340
ANALYSIS OF SALARIES AND WAGES

For the Calendar Years 19 Through 19
And the Test Year
(000's)
12 Months Ended

## Line <br> No. <br> Item

1. Wages charged to expense:
2. Sörree of Supply
(a) operation
(b) maintenance
3. Pumping
(a) operation
(b) maintenance
4. Transmission and Distribution
(a) operation
(b) maintenance
5. Customer accounts expense
6. Sales expenses
7. Administrative and general
expenses:
(a) Administrative and general salaries
(b) Office supplies and expense
(c) Administrative expense transferred-cr.
(d) Outside services employed
(e) Property insurance
(f) Injuries and damages

12 Months Ended
Line
No. $\quad \frac{\text { Item }}{\text { (a) }}$

| Calendar years Prior to Test Year |  |  |  |  |  |  | Test |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5th | 4 th | 3 rd | 2nd |  | $18 t$ |  |  |  |
| $\frac{\text { Amount }}{(b)} \frac{1}{(c)}$ | $\frac{\text { Amount }}{(\mathrm{d})} \frac{i}{(\mathrm{e})}$ | $\frac{\text { Amount }}{(f)} \frac{i}{(g)}$ | $\frac{\text { Amount }}{(h)}$ | $\frac{i}{(i)}$ | $\frac{\text { Amount }}{(j)}$ | $\frac{i}{(k)}$ | $\frac{\text { Amount }}{(1)}$ | (m) |

7. Administrative and general expenses (continued):
(g) Employees pensions and benefits
(h) Franchise requirements
(1) Regulatory commission expenses
(j) Duplicate charges-cr.
(k) Miscellaneous general expense
(1) Rents
(m) Maintenance of general plant
8. Total administrative and general expenses L 7 (a) through L 7 (m)
9. Total salaries and wages charged expense (L2 through L6 + L8)
10. Wages capitalized
11. Total Salaries and wages
12. Ratio of salaries and wages charged expense to total wages (L9 : Lll)
13. Ratio of salaries and wages capitalized to total wages (L12 - Ll3)

Note: Show percentage increase of each year over the prior year in Columns (c), (e), (g), (1), (k), and (m).



Case No. 89-340

Analysis of Other Operating Paxes
12 Months Ended
"000 Omitted"

| Line |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| No. | Item | Charged to <br> Construction | Charged to <br> Other Accounts | (b) Amount |

1. Rentucky Retail:
(a) State Income
(b) Gross Receipts*
(c) Ad Valorem (Property)
(d) Payroll (Employer's Portion)
(e) Other Taxes
2. Total Kentucky Retail
[Li(a) through Li(d)]
3. Other Jurisdictions

Total Per Books (L2 + L3)

## Instructions:

*Actual payments for test year should be shown under the amount paid column.

1. Explain items in column (c).

AQUA CORPORATION
Commonwealth of Kentucky
Case No. 89-340

## NET INCOME PER 100,000 CUBIC FEET OF WATER

(TOTAL COMPANY)

Account
No. $\frac{\text { Item }}{\text { (a) }}$


400 Operating Revenue
401 Operating Expense
402 Maintenance Expense
403 Depreciation Expense
404 Amortization of Limited-Term Utility Plant
405 Amortization of Other Utility Plant
406 Amortization of Utility Plant Acquisition Adjustments
407 Amortization of Property Losses
408.1 Taxes Other Than Income Taxes Utility Operating Income 409.9 Income Taxes Utility Operating Income
410.1 Provision for Deferred Income Taxes Utility Operating Income
411.1 Income Taxes Deferred In Prior Years --

Credit Utility Operating Income
412.1 Investment Tax Credits Utility Operations Deferred to Future Period
412.2 Investment Tax Credits Utility Operations Restored to

Operating Income
Total Operating Expenses
Operating Income
413 Income from Utility plant Leased to Others
414 Gains (Losses) from Disposition of Utility Property
Total Utility Operating Income
Other Income
Other Income Deductions
Taxes Applicable to Other Income and Deductions
Interest Charges
Extraordinary Items

## Comparative Operating Statistics

 Test Year Ending(000's)
12 Months Ended
Line
No. $\quad \frac{\text { Item }}{\text { (a) }}$

|  | Calendar years Prior to Test Year |  |  | $18 t$ |  | Test |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5th | 4th | 3rd | 2nd |  |  |  |  |
| $\frac{\text { Amount }}{\text { (b) }} \quad \frac{8}{(c)}$ | $\frac{\text { Amount }}{(\mathrm{d})} \frac{1}{(\mathrm{e})}$ | $\frac{\text { Amount }}{(f)} \frac{8}{(g)}$ | $\frac{\text { Amount }}{(h)} \frac{t}{(1)}$ | $\frac{\text { Amount }}{(\mathrm{j})}$ | $\frac{i}{(k)}$ | $\frac{\text { Amount }}{(1)}$ | (m) |

[^0]$$
(000 \cdot 8)
$$

12 Months Ended
Line
No.
Item
$(a)$

| Calendar years Prior to Test Year |  |  |  |  | $\begin{aligned} & \text { Test } \\ & \text { year } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 5th | 4th | 3ra | 2nd | 1st |  |
| $\frac{\text { Amount }}{(b)} \frac{i}{(c)}$ | $\frac{\text { Amount }}{(d)} \frac{i}{(e)}$ | $\frac{\text { Amount }}{(f)} \frac{i}{(g)}$ | $\frac{\text { Amount }}{(h)} \frac{i}{(i)}$ | $\frac{\text { Amount }}{(j)} \frac{i}{(k)}$ | $\frac{\text { Amount }}{(1)} \frac{1}{(m)}$ |

20. Depreciation Expensea:
21. Per $\$ 100$ of average gross plant in service
22. Property Taxes:
23. Per $\$ 100$ of average gross plant in service
24. Interest Expenses:
25. Per $\$ 100$ of average debt outstanding
26. Per $\$ 100$ of average plant investment

Case No. 89-340
Average Water plant Service by Account Per $100,000 \mathrm{Cu}$. Feet Sold

## For the Calendar Year 19

Through 19
and the Test Year Ended
(Total Company)

Account
Number
Title of Accounts
(a)

Intangible Plant
301. Organization
302. Franchises and Consents
303. Miscellaneous Intangible Plant

Sources of Supply Plant
310. Land and Land Rights
311. Structures and Improvements
312. Collecting and Impounding Reservoirs
313. Lake, River and Other Intakes
314. Wells and Springs
315. Infiltration Galleries and Tunnels
316. Supply Mains
317. Other Water Source Plant

Pumping Plant
320. Land and Land Rights
321. Structures and Improvements
322. Boiler plant Equipment
323. Other Power Production Equipment

12 Month Ended

| Calendar Years Prior to Test Year |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Test |
| 5th | 4th | 3 rd | 2nd | $18 t$ | Year |
| (b) | (c) | (d) | (e) | (E) | (9) |

12 Month Ended
Calendar Years Prior to Test Year

|  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 5th | 4th | 3rd | 2nd | 1st | Test |
| (b) | (c) | (d) | (e) | (f) | Year |

324. Steam Pumping Equipment
325. Electric Pumping Equipment
326. Diesel Pumping Equipment
327. Eydraulic Pumping
328. Other Pumping Equipment

Water Treatment Plant
330. Land and Land Rights
331. Structures and Improvements
332. Water Treatment Equipment

## Transmission and Distribution Plant

340. Land and Land Rights
341. Structures and Improvements
342. Distribution Reservoirs and Standpipes
343. Transmission and Distribution Mains
344. Fire Mains
345. Services
346. Meters
347. Meter Installations
348. Hydrants
349. Other Transmission and Distribution Plant

General Plant
389. Land and Land Rights
390. Structures and Improvements
391. Office Furniture and Equipment
392. Transportation Equipment
393. Stores Equipment
394. Tools, Shop and Garage Equipment
395. Laboratory Equipment
396. Power Operated Equipment
397. Communication Equipment
398. Miscellaneous Equiment
399. Other Tangible Property

## AQUA CORPORATION

Case No. 89-340
STATEMENT OF WATER PLANT IN SERVICE
12 Months Ended
(Total Company)

Account
Number Title of Account
Intangible plant
301. Organization
302. Franchises and Consents
303. Miscellaneous Intangible Plant

## Sources of Supply Plant

310. Land and Land Rights
311. Structures and Improvements
312. Collecting and Impounding Reservoirs
313. Lake, River and Other Intakes
314. Wells and Springs
315. Infiltration Galleries and Tunnels
316. Supply Mains
317. Other Water Source Plant

## Pumping Plant

320. Land and Land Rights
321. Structures and Improvements
322. Boiler Plant Equipment
323. Other Power Production Equipment

| Beginning |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Balance |  |  |  |  |
| (b) | $\frac{\text { Additions }}{(c)}$ | $\frac{\text { Retirements }}{\text { (d) }}$ | $\frac{\text { Transfers }}{(e)}$ | Ending <br> Balance |
| $(f)$ |  |  |  |  |

Format 24
Sheet 2 of 2

| Account |  | Beginning |  |  |  | Ending |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | Title of Account | Balance | Additions | Retirements | Transfers | Balance |
|  | (a) | (b) | (c) | (d) | (e) | (f) |

324. Steam Pumping Equipment
325. Electric Pumping Equipment
326. Diesel Pumping Equipment
327. Hydraulic Pumping
328. Other Pumping Equipment

## Water Treatment Plant

330. Land and Land Rights
331. Structures and Improvements
332. Water Treatment Equipment

Transmission and Distribution Plant
340. Land and Land Rights
341. Structures and Improvements
342. Distribution Reservoirs and Standpipes
343. Transmission and Distribution Mains
344. Eire Mains
345. Services
346. Meters
347. Meter Installations
348. Hydrants
349. Other Transmission and Distribution Plant

General Plant
389. Land and Land Rights
390. Structures and Improvements
391. Office Furniture and Equipment
392. Transportation Equipment
393. Stores Equipment
394. Tools, Shop and Garage Equipment
395. Laboratory Equipment
396. Power Operated Equipment
397. Communication Equipment
398. Miscellaneous Equiment
399. Other Tangible Property

## AQUA CORPORATION <br> Case No. 89-340 <br> ACCOUNT 913 - ADVERTISING EXPENSE

## For the 12 Months Ended <br> (Total Company)

| Line <br> No | ItemSales or <br> promotional <br> (a) <br> $\frac{(b)}{(b)}$ | Institutional Advertising (C) | Conservation Advertising <br> (d) | $\begin{aligned} & \text { Rate } \\ & \text { Case } \\ & \hline \text { (e) } \end{aligned}$ | $\frac{\text { Other }}{(E)}$ | $\frac{\text { Total }}{(g)}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | Newspaper |  |  |  |  |  |
| 2. | Magazines and Other |  |  |  |  |  |
| 3. | Television |  |  |  |  |  |
| 4. | Radio |  |  |  |  |  |
| 5. | Direct Mail |  |  |  |  |  |
| 6. | Sales Aids |  |  |  |  |  |
| 7. | Total |  |  |  |  |  |
| 8. | Amount Assigned to Ky. Retail |  |  |  |  |  |

AQUA CORPORATION
CASE NO. 89-340
ACCOUNT 930 - MISCELLANEOUS GENERAL EXPENSES
For the 12 Months Ended
(Total Company)(000's)
Line Item Amount No. (a) (b)

1. Industry Association Dues
2. Stockholder and Debt Servicing Expenses
3. Institutional Advertising
4. Conservation Advertising
5. Rate Department Load Studies
6. Water, and Other Testing and Research
7. Directors' Fees and Expenses
8. Dues and Subscriptions
9. Miscellaneous
10. Total
11. Amount Assigned to Ky. Retail

## Format 25c

AQUA CORPORATION
Case No. 89-340
ACCOUNT 426 - MISCELLANEOUS INCOME DEDUCTIONS
For the 12 Months Ended
(Total Company)
(000's)

| Line | Item |
| :--- | :--- |
| No. | $\frac{\text { Amount }}{(b)}$ |

1. Donations
2. Civic Activities
3. Political Activities
4. Other
5. Total
6. Amount Assigned to Ky. Retail

## AQUA CORPORATION

## CASE NO. 89-340

## Professional Service Expenses

For the Twelve Months Ended
LineNo. ItemRate Case Annual Audit OtherTotal

1. Legal
2. Engineering
3. Accounting
4. Other
5. Total

AQUA CORPORATION
Case No. 89-340
average rates of return
For the Calendar Years Through and the 12 Months Ended

| Line No. | Calendar years $\frac{\text { Prior to Test Year }}{\text { (a) }}$ | $\frac{\text { Middlesboro }}{(b)}$ | $\frac{\text { clinton }}{(c)}$ | $\frac{\text { other }}{(\mathrm{d})}$ | $\frac{\text { Combined }}{(e)}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | Original Cost Net In | estment: |  |  |  |
| 2. | 5 th year |  |  |  |  |
| 3. | 4th Year |  |  |  |  |
| 4. | 3rd Year |  |  |  |  |
| 5. | 2nd Year |  |  |  |  |
| 6. | lst Year |  |  |  |  |
| 7. | Test Year |  |  |  |  |
| 8. | Original Cost Common | Equity: |  |  |  |
| 9. | 5 th Year |  |  |  |  |
| 10. | 4th Year |  |  |  |  |
| 11. | 3rd Year |  |  |  |  |
| 12. | 2nd Year |  |  |  |  |
| 13. | 1st Year |  |  |  |  |
| 14. | Test Year |  |  |  |  |

NOTE: Provide work papers in support of the above calculations.
aqua corporation
Case No. 89-340
SCBEDULE OF NUMBER OF EMPLOYEES, HOURS PER EMPLOYEE, AND AVERAGE WAGES PER EMPLOYEE

| Calendar Years prior to | Source of Supply |  |  | Water Treatment |  |  | Transmission and Distribution |  |  | Customer Accounts and Sales |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Test Year | No. | Hrs. | Wages | No. | Hrs. | Wages | No. | His. | Wages |  | . Hr E . | Wages |
| (A) | (B) |  | (D) | (E) | (F) | (G) | (H) | (I) | (J) | (R) | (L) | (M) |

5th Year

- Change

4th Year

- Change

3rd Year

- Change

2nd Year

- Change

1st Year

- change

Test Year

- Change
Calendar Years
Prior to
Test Year
$(A)$


## Administrative

 and General No. Hrs. Wages(N) (O) (P)
$\frac{c}{c}$ Construction
No. Hrs. Wages
(Q) (R) $\quad$ (S)

| Total |  |  |
| :---: | :---: | :---: |
| No. |  |  |
| Hrs. |  |  |
| T) |  |  |

5th Year
8 Change

## 4th Year

- Change

3rd Year

- Change

2nd Year
8 Change
1st Year

- change

Test Year

- Change

NOTE: (1) Where an employee's wages are charged to more than one function include employee in function receiving largest portion of total wages.
(2) Show percent increase (decrease) of each year over the prior year on lines designated above " ${ }^{\text {s }}$ Change."
(3) Employees, weekly hours per employee, and weekly wages per employee for the week including December 31, of each year and the last day of the test year.


[^0]:    Operating Expenses as a Percentage of:
    Gross operating revenues (include uncollectibles)
    Total operation and maintenance expense
    (excluding depreciation)
    Gross plant in service (end-of-period)
    Operating Expenses Per:
    Average number of customers
    1000 Gallons water sold
    Materials and Supplies
    Materials and supplies as a percentage of
    gross plant in service, both on an
    end-of-period basis
    Average materials and supplies per
    1000 gallons of water sold
    Wages and Salaries as a Percentage of:
    Gross operating revenues
    Total operating expenses excluding
    depreciation and amortization

