BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

| In re: Application of Pennsylvania-American Water | : | |
|--|---|----------------------------------|
| Company under Section 1102(a) of the Pennsylvania | : | |
| Public Utility Code, 66 Pa C.S. § 1102(a), for approval | : | |
| of (1) the transfer, by sale, of substantially all of Valley | : | |
| Township's assets, properties and rights related to its | : | Docket No. A-2020-3019859 et al. |
| water treatment and distribution system to | : | |
| Pennsylvania-American Water Company, and (2) the | : | |
| rights of Pennsylvania-American Water Company to | : | |
| begin to offer or furnish water service to the public in | : | |
| Valley Township, and in a portion of West Caln and | : | |
| East Fallowfield Townships, Chester County, | : | |
| Pennsylvania | : | |

DIRECT TESTIMONY OF JEROME C. WEINERT, PE, ASA, CDP UTILITY VALUATION EXPERT SELECTED BY PENNSYLVANIA-AMERICAN WATER COMPANY

Date: October 7, 2020

PAWC Statement No. 4 W

| 1 | Q. | Please state your name, business address, and occupation. |
|----|------------|---|
| 2 | A. | My name is Jerome C. Weinert. My business address is 8555 West Forest Home Avenue, |
| 3 | | Suite 201, Greenfield, WI 53228. I am a Principal and Director of AUS Consultants, Inc. |
| 4 | | ("AUS Consultants"). This testimony was prepared by me. |
| 5 | | |
| 6 | Q. | Please describe your qualifications and indicate if you are registered as a Utility |
| 7 | | Valuation Expert with the Pennsylvania Public Utility Commission ("PUC" or |
| 8 | | "Commission"). |
| 9 | A . | My curriculum vitae ("CV") is attached to my report and this testimony. PAWC Exhibit |
| 10 | | JCW-1. AUS Consultants is a registered Utility Valuation Expert with the PUC. We |
| 11 | | obtained that registration in 2016 and were informed of our renewal by the PUC's Secretary |
| 12 | | on January 13, 2020. |
| 13 | | |
| 14 | Q. | What is the purpose of your testimony? |
| 15 | A. | This direct testimony provides clarification and explanation of the appraisal I provided to |
| 16 | | Pennsylvania-American Water Company ("PAWC"), the "Acquiring Public Utility" |
| 17 | | pursuant to 66 Pa. C.S. § 1329(a)(5) and in accordance with the Uniform Standards of |
| 18 | | Professional Appraisal Practice ("USPAP") (2020-2021 Edition). |
| 19 | | |
| 20 | Q. | Are you advocating for any party or outcome? |
| 21 | A. | No. The Ethics Rule of the USPAP, applicable here pursuant to 66 Pa. C.S. § 1329(a)(3), |
| 22 | | requires that I perform the appraisal with impartiality, objectivity, and independence, and |
| 23 | | without accommodation of personal interests. In addition, the USPAP Ethics Rule requires |

| 1 | | that I not perform the assignment with bias, that I must not advocate the cause or interest |
|----|----|---|
| 2 | | of any party or issue and that I must not accept an assignment that includes the reporting |
| 3 | | of predetermined opinions and conclusions. |
| 4 | | |
| 5 | Q. | Do you have any affiliation with either Valley (the "Selling Utility" pursuant to 66 Pa. |
| 6 | | C.S. § 1329(a)(5)) or the Acquiring Public Utility? |
| 7 | А. | No. Other than the current assignment to provide the subject appraisal, and similar on- |
| 8 | | going assignments to provide appraisals of other utility systems, I have no business or |
| 9 | | personal relationships with any party to the proposed acquisition. |
| 10 | | |
| 11 | Q. | What is your fee arrangement to deliver the appraisal? |
| 12 | А. | A copy of the fee arrangement is included with the Application as Appendix A-7.1. In |
| 13 | | summary, AUS Consultants are to receive \$25,200 plus expenses in compensation for our |
| 14 | | appraisal. |
| 15 | | |
| 16 | Q. | Will you receive that fee regardless of whether the Commission approves the |
| 17 | | proposed transaction or whether it closes? |
| 18 | А. | Yes. 66 Pa. C.S. § 1329(a)(3) mandates that I comply with the USPAP when developing |
| 19 | | my appraisal. Under the USPAP, I cannot perform the appraisal with bias and acceptance |
| 20 | | of a fee contingent on a particular outcome like closing or Commission approval would |
| 21 | | violate that Ethics Rule. |

| 1 | Q. | Have you prepared any exhibits, schedu | lles, or appendice | s to acco | mpany your direct |
|----|-----------|---|----------------------------|------------|---------------------------|
| 2 | | testimony? | | | |
| 3 | А. | Yes. The appraisal I submitted to the | Acquiring Public | Utility 1 | pursuant to Section |
| 4 | | 1329(a)(5) is included in the Application | as Appendix A-5 | .1. The | appraisal includes a |
| 5 | | narrative and supporting exhibits in section | s. All were prepar | ed under | my supervision and |
| 6 | | control. Also, as stated above, attached to t | this testimony as P | AWC E | khibit JCW-1 is my |
| 7 | | CV. | | | |
| 8 | | | | | |
| 9 | Q. | Please summarize your results of the a | pplication of the | e cost, m | arket, and income |
| 10 | | approaches to valuation. | | | |
| 11 | A. | The summary results of the cost, income, a | nd market approad | ches is pr | esented below. |
| 12 | | | | | |
| | | | | | |
| | | Appraisal Approach | Value Indicator | Weight | Wtd Value Indicator |
| | | Cost | 11,664,026 | 50% | 5,832,013 |
| | | Income | 11,528,534 | 40% | 4,611,414 |
| | | Market | 11,269,420 | 10% | 1,126,942 |
| 13 | | Appraisal Conclusion | | | 11,570,369 |
| 14 | | | | | |
| 15 | Q. | Please describe any assumptions, | extraordinary a | assumpti | ons, hypothetical |
| 16 | | conditions, and/or limiting conditions the | at you applied to | the valu | ation. |
| 17 | А. | The major assumptions and limiting cond | ditions used in pr | eparing o | our appraisal of the |
| 18 | | Valley Township ("Valley") Water System | ("System") are des | scribed in | our appraisal report |
| 19 | | "Fair Market Appraisal Report of Valley 7 | Γownship (PA) W | ater Syste | em, as of December |

| 1 | | 17, 2019." Beyond the above-described assumptions, there are no extraordinary ¹ or |
|----|-----------|---|
| 2 | | hypothetical ² assumptions (as defined in the 2020-2021 edition of USPAP). |
| 3 | | |
| 4 | Q. | How was each assumption used and what was its result? |
| 5 | A. | The assumptions are detailed in my appraisal report and are discussed further in this |
| 6 | | testimony. |
| 7 | | |
| 8 | Q. | How did you develop the weighting applied to each approach in your appraisal and |
| 9 | | why are the individual weights you chose appropriate for this proposed transaction? |
| 10 | А. | For the cost approach I chose a weighting of 50%. It is my opinion that this weighting is |
| 11 | | appropriate for the cost approach because the major purpose of this appraisal is to be an |
| 12 | | input to the Commission's establishment of cost for future ratemaking and the cost |
| 13 | | approach conclusion is directly reflective of the property cost. |
| 14 | | For the market approach, I chose a weighting of 10%. It is my opinion that this |
| 15 | | weighting is appropriate for the market approach because while the market approach |
| 16 | | provides some information as to the value of the property, establishing comparability |
| 17 | | between the individual sales to the subject property is difficult and uncertain therefore |
| 18 | | requiring less weight of the market approach and the 10% weight accomplishes that |
| 19 | | objective. |

¹ Extraordinary assumption: an assignment-specific assumption as of the effective date regarding uncertain information used in an analysis which, if found to be false, could alter the appraiser's opinions or conclusions. 2020-2021 USPAP page 4.

² Hypothetical condition: a condition, directly related to a specific assignment, which is contrary to what is known by the appraiser to exist on the effective date of the assignment results, but used for the purpose of analysis. 2020-2021 USPAP page 4.

| 1 | | For the income approach, I chose a weighting of 40%. It is my opinion that this |
|----|-----------|--|
| 2 | | weighting is appropriate for the income approach because the income approach reflects the |
| 3 | | value of the property's return to the property's owner. The 40% weight accomplishes that |
| 4 | | objective. |
| 5 | | |
| 6 | Q. | Did you conduct an on-site inspection of the Selling Utility's assets, and if so, what |
| 7 | | was its result on the appraisal? |
| 8 | A. | Yes. AUS Consultants conducted an on-site inspection of Valley's water assets during |
| 9 | | June 2020. The on-site inspection was mainly used to provide an overview of the System |
| 10 | | and verify its condition. |
| 11 | | |
| 12 | Q. | What Utility Earnings Report was used to create the capital structure used in your |
| 13 | | appraisal? |
| 14 | A. | I used a market required capital structure based on an analysis of the market capital |
| 15 | | structure analysis (detailed in the Cost of Capital / Required Return portion of our appraisal |
| 16 | | report). Information used in developing the market capital structure was obtained from |
| 17 | | financial statistics reported in Value Line Investment Survey for the water / wastewater |
| 18 | | industry published in their January 10, 2020 issue. |
| 19 | | |
| 20 | Q. | What capital structure was used in your appraisal? |
| 21 | А. | The capital structure used in my appraisal is included below. |

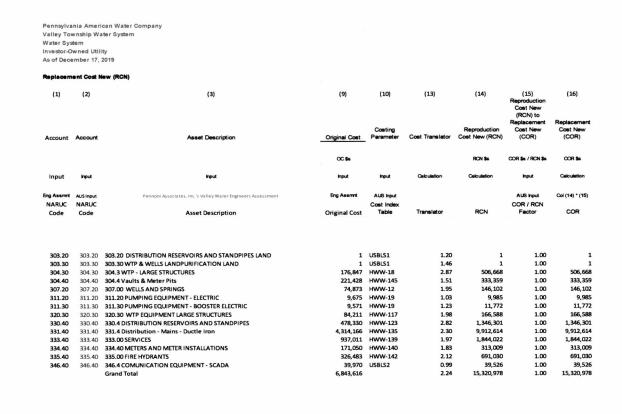
| | | Water and Wastewater Cost of Capital First Quarter 2020 (1-1-2020) | | | | | | | |
|-------------|-------------------|---|-------------------|--------------|--------------------|--------------|-----------|----------------------------------|-----------------------|
| | | As an Investor-Owned Utility | | | | | | | |
| | | Weighted Cost of Capital (Discount Rate) | | | | | | | |
| | | (1) | (2) Portion of | (2a) | (3) | (3a) | (4) | (4a) | (5) After-tax |
| | | | Capital | Type of Data | | Type of Data | Tax Rate | Tax affect on cost of capital | 1 |
| | | Debt | AUS Input 26% | Market | AUS Input 3.23% | Market | 28.89% | 71.11% | (2)*(3)*(4a) 0.60% |
| | | Equity | 74% | Market | 9.90% | Market | 0.0% | 100.0% | 7.33% |
| | | Total Capital r Growth (g) | 100.0% | | | | | | 7.93% 1.82% |
| 1 | | Rate without Growth: [(1+r)/(1+g)]-1 | | | | | | | 6.00% |
| 3 4 5 | <u>Cost</u> Q. | <u>Approach</u> Regarding your applica determine the cost appro | | | | | | • | |
| | | | | · · | Ū | | | | |
| 6 | | cost)? | | | | | | | |
| 7 | А. | I used the replacement cos | t method | • | | | | | |
| 8 | | | | | | | | | |
| 9 | Q. | Please explain why you c | hose the | replacen | nent cos | t method. | | | |
| 10 | А. | I chose the replacement co | ost metho | d becaus | e it is con | nsidered t | he prope | r starting p | point for |
| 11 | | a cost approach. Replac | ement co | ost reflec | ts the a | ppraisal o | late cost | of provid | ding the |
| 12 | | property's functionality an | d capacit | ty at the a | appraisal | date usin | g recogn | ized mater | rials and |
| 13 | | labor costs. | | | | | | | |
| 14 | | | | | | | | | |
| 15 | Q. | What index did you use f | or that n | nethod? | | | | | |
| 16 | А. | I used the Handy Whitm | an Index | of Publ | ic Utility | y Constru | ction Co | osts for th | e Water |
| 17 | | Industry (North Eastern U | S Region | n), AUS 7 | Felephon | e Index (| General I | Plant), and | various |
| 18 | | United States Bureau of La | abor Stati | istics cost | t index se | eries. | | | |

1

2 Q. Under your application of the cost approach what assets did you value or trend 3 differently from other assets and why was that necessary?

A. I costed each property account with cost trends appropriate for the property contained in
the account. As such, the costing of each property account may differ from account to
account. It is my opinion that an accurate appraisal requires each property account be
costed with cost trends reflective of the property contained in the account. Valley's
property as detailed in the Pennoni Associates, Inc. Engineer's Assessment of \$6,843,616
was determined to have a replacement cost new of \$15,320,978 summarized as follows:

10



12

11

13

These results are detailed in the Application Appendix A-5.1 (AUS Appraisal) under the

14 Cost Approach section.

| 1 | Q. | Under your application of the cost approach, what year-end date did you use for |
|----|----|---|
| 2 | | calculating the depreciation or condition of the property? |
| 3 | А. | I used the date of December 17, 2019. |
| 4 | | |
| 5 | Q. | How did you determine the depreciation parameters of survival/retirement |
| 6 | | characteristics and service lives for the utility property under the cost approach? |
| 7 | A. | I determined those parameters based on our review of the depreciation studies filed by |
| 8 | | PAWC in support of their depreciation parameters (Iowa-type Survival Characteristics and |
| 9 | | Service Lives) and the resultant depreciation expense and rate base (net book) in their |
| 10 | | recent General Rate Cases (R-2017-2595853 and R-2020-3019371) and AUS Consultants' |
| 11 | | experience in preparing depreciation studies for the water and wastewater industry and our |
| 12 | | experience appraising water and wastewater properties. |
| 13 | | |
| 14 | Q. | Why are those parameters appropriate? |
| 15 | А. | Those parameters are appropriate because the parameters reflect the actual service life |
| 16 | | experienced by PAWC in serving water customers in the Commonwealth of Pennsylvania |
| 17 | | and which were adjudicated by the PUC in the 2017 General Rate Cases and will be |
| 18 | | adjudicated by the PUC in the 2020 General Rate Cases (Docket Nos. R-2020-3019369 |
| 19 | | and R-2020-30193371). The parameters in the following table also reflect AUS |
| 20 | | Consultants' experience of the survival / retirement characteristics of normal and functional |
| 21 | | service lives of water properties: |
| ~~ | | |

Pennsylvania American Water Company Valley Township Water System Water Distibution System Investor-Owned Utility December 17, 2019

| Summa | y of Account Costing and Depreciation Parameters Used | l in the Depreciat | ion Origina | al Cost and the | Depreciated | |
|-------|---|--------------------|-------------|-----------------|--------------|-------|
| (1 | (2) | (4) | | (5) | (6) | |
| | | (4a) Iowa | (4b) | | (6a) | (6b) |
| | | Survivor / | Normal | | | |
| Acco | nt | Retirement | Service | Economic | Tax | |
| Num | er Description | Curve | Life | Obsolescence | Depreciation | |
| | | | years | % of CORLD | Table | Life |
| 3 | 3.20 303.20 DISTRIBUTION RESERVOIRS AND STANDPIPE | S L/ZNonDep | 0.00 | 0.00% | MACRS | 0.00 |
| 3 | 3.30 303.30 WTP & WELLS LANDPURIFICATION LAND | ZNonDep | 0.00 | 0.00% | MACRS | 0.00 |
| 3 | 4.40 304.4 Vaults & Meter Pits | R3.0 | 75.00 | 0.00% | MACRS | 25.00 |
| 3 | 7.20 307.00 WELLS AND SPRINGS | S0.0 | 55.00 | 0.00% | MACRS | 25.00 |
| 3 | 1.20 311.20 PUMPING EQUIPMENT - ELECTRIC | S0.0 | 42.00 | 0.00% | MACRS | 25.00 |
| 3 | 1.30 311.30 PUMPING EQUIPMENT - BOOSTER ELECTRIC | S0.0 | 42.00 | 0.00% | MACRS | 25.00 |
| 3 | 0.30 320.30 WTP EQUIPMENT LARGE STRUCTURES | S0.5 | 60.00 | 0.00% | MACRS | 25.00 |
| 3 | 0.40 330.4 DISTRIBUTION RESERVOIRS AND STANDPIPES | S0.5 | 65.00 | 0.00% | MACRS | 25.00 |
| 3 | 1.40 331.4 Distribution - Mains - Ductle Iron | R2.0 | 110.00 | 0.00% | MACRS | 25.00 |
| 3 | 3.40 333.00 SERVICES | R2.5 | 70.00 | 0.00% | MACRS | 25.00 |
| 3 | 4.40 334.40 METERS AND METER INSTALLATIONS | L1.0 | 25.00 | 0.00% | MACRS | 25.00 |
| 3 | 5.40 335.00 FIRE HYDRANTS | R2.5 | 75.00 | 0.00% | MACRS | 25.00 |
| 3 | 6.40 346.4 COMUNICATION EQUIPMENT - SCADA | SQ.0 | 12.00 | 0.00% | MACRS | 12.00 |
| | | | | | | |

2

1

Also, due the age of Valley's early property installations the maximum depreciation was 3 4

limited to 85% of the cost new.

5

Q. 6 What was the result of the application of the depreciation parameters to the 7 previously described replacement cost new of \$15,320,978?

8 Α. With the application of the above described depreciation parameters, the replacement cost

- new of \$15,320,978 results in a replacement cost new less depreciation of \$11,664,026 9
- determined as follows: 10

Pennsylvania American Water Company Valley Township Water System Water System Investor-Owned Utility As of December 17, 2019

Replacement Cost New less Depreciation (RCNLD)

| (18) | (19) | (21) | (22) | (23) | (24) | (28) | (29) | (30) | (31) |
|------------------|--|---|-------------------------------|---------------------------------------|---------------------------------|-----------------------------|--------------------------|------------------|--|
| Account | Description | Age at December 17, 2019 Appraisal Date | Replacement Cost New (COR) | Retirement Dispersion Iowa-type | Normal Service Life (NSL) | Normal Remaining Life | Total Life Expectancy | Condition | Preliminary Cost Approach (COR less Normal Depreciation) |
| | | years | COR \$s | | years | years | years | % of COR | CORLD \$s |
| Input | input | Calculation | Calculation | input | input | Calculation | Calculation | Calculation | Calculation |
| Eng Assmnt | Pennoni Associates, Inc.'s Valley Water Engineers Assessment | | Col (16) | AUS Input | AUS Input | | Col (21) + (28) | Coi (28) / (29) | Col (22) * (30) |
| Account | Description | Age | RCN | lowa | NL | Rem Life | Total Life | Condition | CORLD |
| | | | | | | | | | |
| | | | | | | | | | |
| 353.20 | 303.20 DISTRIBUTION RESERVOIRS AND STANDPIPES LAND | 10.83 | 1 | ZNonDep | | | - | 100.00% | 1 |
| 353.30 | 303.30 WTP & WELLS LANDPURIFICATION LAND | 18.49 | 1 | ZNonDep | | | - | 100.00% | 1 |
| 354.40 | 304.3 WTP - LARGE STRUCTURES | 31.50 | 506,668 | R2.5 | 60.00 | 32.23 | 63.73 | 51.00% | 256,236 |
| 355.30 | 304.4 Vaults & Meter Pits | 17.66 | 333,359 | R3.0 | 75.00 | 58.08 | 75.74 | 77.00% | 255,870 |
| 360.21 360.23 | 307.00 WELLS AND SPRINGS | 26.67 0.50 | 146,102 9.985 | SO.0 SO.0 | 55.00 42.00 | 36.40 41.59 | 63.07 42.09 | 59.00% 99.00% | 85,499 |
| 360.23 | 311.20 PUMPING EQUIPMENT - ELECTRIC 311.30 PUMPING EQUIPMENT - BOOSTER ELECTRIC | 2.50 | 9,985 | S0.0 S0.0 | 42.00 | 39.68 | 42.09 | 99.00% | 9,866 11,075 |
| 361.21 | 320.30 WTP EQUIPMENT LARGE STRUCTURES | 2.50 | 166,588 | S0.0 S0.5 | 42.00 | 43.96 | 42.18 | 70.00% | 115,877 |
| 361.22 | 330.4 DISTRIBUTION RESERVOIRS AND STANDPIPES | 20.03 | 1,346,301 | S0.5 | 65.00 | 43.90 | 71.20 | 61.00% | 815,734 |
| 363.20 | 331.4 Distribution - Mains - Ductle Iron | 20.26 | 9,912,614 | R2.0 | 110.00 | 91.72 | 112.58 | 82.00% | 8.081,515 |
| 363.20 | 333.00 SERVICES | 20.80 | 1,844,022 | R2.5 | 70.00 | 51.38 | 71.88 | 72.00% | 1,320,985 |
| 363.20 | 334.40 METERS AND METER INSTALLATIONS | 13.31 | 313,009 | L1.0 | 25.00 | 15.94 | 29.25 | 55.00% | 170,870 |
| 363.20 | 335.00 FIRE HYDRANTS | 19.94 | 691,030 | R2.5 | 75.00 | 56.95 | 76.89 | 74.00% | 512,653 |
| 360.21 | 346.4 COMUNICATION EQUIPMENT - SCADA | 3.55 | 39,526 | SQ.0 | 12.00 | 8.47 | 12.02 | 70.00% | 27,845 |
| 550.21 | Grand Total | 21.53 | 15,320,978 | 54.0 | 94.08 | 75.43 | 96.96 | 76.13% | 11,664,026 |
| | | 21.55 | 13,320,378 | | 54.00 | 73.45 | 50.50 | ,0.13/0 | 11,004,020 |

The above replacement cost new less depreciation represents the preliminary cost approach 3 4 conclusion which was tested for economic obsolescence based on the results of the income and market approaches which will be described in the remainder of this testimony. Based 5 6 on our review of the preliminary cost approach and the results of the income and market approaches, no economic obsolescence exists at the preliminary cost approach conclusion 7 of \$11,664,026; therefore, the final cost approach conclusion was determined to be 8 \$11,664,026. These results are detailed in the Application Appendix A-5.1 (AUS 9 Appraisal) under the Cost Approach section. 10

11

12 Market Approach

Q. Regarding your application of the market approach, what methods did you use to determine the market approach result?

¹

²

| 1 | А. | I used the comparable sales of water and wastewater properties in the Commonwealth of |
|----|----|--|
| 2 | | Pennsylvania subsequent to the passage of Section 1329 and financial market value ratios |
| 3 | | of publicly traded water and wastewater companies as reported in the January 10, 2020 |
| 4 | | issue of Value Line Investment Survey. |
| 5 | | |
| 6 | Q. | What assumptions, analyses, and/or adjustments did you make under each method? |
| 7 | А. | Under the comparable sales method, it is my opinion that sales amount to depreciated |
| 8 | | replacement cost is the best indicator in arriving at the appraised value of physical assets |
| 9 | | operating as a water system. Under the financial ratios method, I believe that an accurate |
| 10 | | result depends on using the weighted mean of the ratio of the market debt and equity to |
| 11 | | book debt and equity. |
| 12 | | |
| 13 | Q. | What were the results of the market analysis you performed? |
| 14 | А. | The comparable sales analysis produced a result of \$11,269,420. The financial market |

analysis produced a result of \$11,331,625 detailed as follows:

Pennsylvania American Water Company Valley Township Water System Water System Investor-Owned Utility As of December 17, 2019

Comparable Sales Approach

Market Sales Data

Central Tendancy and Reliability Analysis

| | PP/OCLD | | | Market Sales Analysis | | | |
|--|----------------|--|-------------|------------------------|------------------|----------------|-----------|
| 1. S. | Simple | Weighted | | | Simple | Weighted | |
| Mean | 2.082 | 1.9992 | | Mean | 0.8130 | 0.9285 | |
| Standard Deviation | 0.8607 | 0.6008 | | Standard Deviation | 0.1852 | 0.1086 | |
| Median | 1.608 | 1.5598 | | Median | 0.8908 | 0.9637 | |
| Mode | Not Applicable | 1.5598 | | Mode | Not Applicable | 0.9919 | |
| Conclusion | | 2.0000 | AUS Input | Conclusion | | 0.9314 | AUS Input |
| | | | AUS Cost | | | | AUS Cost |
| Valley Township Water S | ystem's OCLD | 5,370,438 | Approach | Valley Township Wate | r System's CORLD | 11,664,026 | Approach |
| Market Value Indication | | 10,740,877 | | Market Value Indicatio | on | 10,863,874 | |
| Market Sales Analysis - P | | | | Market Sales Analysis | | | |
| | Simple | Weighted | | | Simple | Weighted | |
| Mean | 7441 | 9,157 | | Mean | 22.38 | 22.00 | |
| Standard Deviation | 4031 | 3,158 | | Standard Deviation | 12.00 | 8.00 | |
| Median | 8221 | 6,312 | | Median | 21.00 | 13.00 | |
| Mode | Not Applicable | 7,825 | | Mode | Not Applicable | Not Applicable | |
| Forecast | 7,293 | | | Forecast | 17.00 | | |
| - orecust | 1,235 | | | 1 orecust | 17.00 | | AUS |
| | | | | | | | Income |
| Conclusion | | 7,300 | AUS Input | Conclusion | | 520,405 | Approach |
| Valley Township Water S | vetom's | | | Valley Township Wate | r Svetam's Cash | | |
| Customers | ystems | 1,596 | Valley Info | | System scash | 22.00 | AUS Input |
| Market Value Indication | | 11,650,800 | | Market Value Indicatio | n | 11,448,901 | |
| Financial Basis ¹ | | | | | | | |
| Figure 1. Martine | | Market Value per Share to Book | | | | | |
| Financial Markets | | Value per Share | | | | | |
| Market to Book (equity) | | 3.40 | | | | | |
| Market to Book (equity | and debt) | 2.11 | | | | | |
| Use (equity and debt) | | | | | | | |
| | | 2.11 | AUS Input | | | | |
| | | 2.11 | AUS Input | | | | |
| | | 2.11 | AUS Input | | | | |
| Valley Township Water S | ystem's OCLD | 2.11 5,370,438 | | | | | |
| Valley Township Water S Market Value Indication | ystem's OCLD | | AUS Cost | | | | |
| Market Value Indication | | 5,370,438 | AUS Cost | | | | |
| Market Value Indication Summary of Market | | 5,370,438 | AUS Cost | | | | |
| Market Value Indication Summary of Market Indicators | | 5,370,438 11,331,625 | AUS Cost | | | | |
| Market Value Indication Summary of Market Indicators OCLD | | 5,370,438 11,331,625 10,740,877 | AUS Cost | | | | |
| Market Value Indication Summary of Market Indicators OCLD CORLD | | 5,370,438 11,331,625 10,740,877 10,863,874 | AUS Cost | | | | |
| Market Value Indication Summary of Market Indicators OCLD CORLD Customers | | 5,370,438 11,331,625 10,740,877 10,863,874 11,650,800 | AUS Cost | | | | |
| Market Value Indication Summary of Market Indicators OCLD CORLD CUSTOMERS Cash Flow (EBITDA) | | 5,370,438 11,331,625 10,740,877 10,863,874 11,650,800 11,448,901 | AUS Cost | | | | |
| Market Value Indication Summary of Market Indicators OCLD CORLD Customers | | 5,370,438 11,331,625 10,740,877 10,863,874 11,650,800 | AUS Cost | | | | |
| Market Value Indication Summary of Market Indicators OCLD CORLD CUSTORETS Cash Flow (EBITDA) Value Line | | 5,370,438 11,331,625 10,740,877 10,863,874 11,650,800 11,448,901 11,331,625 | AUS Cost | | | | |
| Market Value Indication Summary of Market Indicators OCLD CORLD CORLD Customers Cash Flow (EBITDA) Value Line Mean | | 5,370,438 11,331,625 10,740,877 10,863,874 11,650,800 11,448,901 11,331,625 11,207,215 | AUS Cost | | | | |
| Market Value Indication Summary of Market Indicators OCLD CORLD CUSTORETS Cash Flow (EBITDA) Value Line | | 5,370,438 11,331,625 10,740,877 10,863,874 11,650,800 11,448,901 11,331,625 | AUS Cost | | | | |

2

1

3 Q. Which results were used to determine your market approach result?

| 1 | А. | I used the results of \$11,269,420 because I believe those results represent an accurate |
|----|-----------|---|
| 2 | | assessment and it was based on the relationship of market comparable sales to the |
| 3 | | replacement cost new less depreciation of those properties. These results are detailed in |
| 4 | | the Application Appendix A-5.1 (AUS Appraisal) under the Market Approach section. |
| 5 | | |
| 6 | Q. | What was the calculation you used to determine your overall market approach |
| 7 | | results? |
| 8 | A. | The calculation I used consisted of the ratio of the market sales to their depreciated original |
| 9 | | cost, replacement cost new less depreciation, customers, and cash flows (EBITDA) of |
| 10 | | Valley's property. |
| 11 | | |
| 12 | Q. | What comparable transactions or comparable sales did you evaluate to develop your |
| 13 | | market approach? |
| 14 | А. | I examined the following transactions to develop the result of my market approach: |
| 15 | | |

| Approximate Date | Buyer | Seller | County | Type of Facility | Initial Purchase Price | Final Purchase Price ¹ | Number of Total Customers | Relationship to the passage of Section 1329 |
|---------------------|--------------------|---|------------------|---|---------------------------|---|---------------------------------|---|
| 6/1/2016 PA | American Water | City of McKeesport | Allegheny | Wastewater Collection and Treatment Wastewater | 159,000,000 | 159,000,000 | 21,953 | Post |
| 8/1/2016 Ag | qua PA | New Garden Twp. SA | Chester | Collection and Paid for and Owned Treatment | 29,500,000 | 29,500,000 | 2,106 | Post |
| | | | | Wastewater Collection and | | | - | |
| 12/1/2017 Aq | qua PA | Limerick Township | Montgomery | Treatment Wastewater Collection and paid | 64,373,000 | 64,373,000 | 5,434 | Post |
| 12/10/2017 Aq | ua PA | East Bradford Township | Chester | for treatment Capacity | 5,000,000 | 5,000,000 | 1,248 | Post |
| SU | IF7 | Mahoning | Carbon | Water Treatment and Distribution System | 4,734,800 | 4,734,800 | 2,806 | Post |
| | | in an | Carbon | Wastewater Collection and | 4,754,000 | 4,754,000 | 2,000 | FUSI |
| SU | JEZ | Mahoning | Carbon | Treatment Wastewater | 4,765,200 | 4,765,200 | 2,806 | Post |
| 6/1/2018 Aq | qua PA | Cheltenham | Montgomery | Collection Water Distribution | 50,250,000 | 50,250,000 | 10,500 | Post |
| 11/14/2018 PA | American Water | Steelton | Dauphin | and Treatment Wastewater | 22,500,000 | 22,500,000 | 2,325 | Post |
| PA | American Water | Sadsbury | Chester | Collection Wastewater Collection and | 9,250,000 | 9,250,000 | 998 | Post |
| 5/28/2018 PA | American Water | Exeter | Berks | Treatment Wastewater | 96,000,000 | 96,000,000 | 9,000 | Post |
| 10/29/2018 Aq | qua PA | East Norriton | Montgomery | Collection Wastewater | 21,000,000 | 21,000,000 | 4,950 | Post |
| 9/30/2018 PA | American | Kane | McKean | Collection and Treatment | 17,560,000 | 17,560,000 | 2006 | Post |
| Note: 1 Fin | nal Purchase Price | reflects the agreed upon pu | urchase price ac | hieved to settle the a | cquistion applicati | ion | | |
| | | | | | | | | |
| | | | | | | | | |
| Income Approach | | | | | | | | |
| Q. Regarding you | ur appli | cation of the | e incon | ne approa | ch, wha | t meth | ıod di | d you use |
| | | | | •• | | | | - |

to

5 determine the income approach result?

I used the discounted cash flow method. 6 A.

7

1

2

3

4

What assumptions did you employ to develop your income approach result? 8 Q.

- Under the income approach, it is my opinion that the results of the future operations of the 9 A.
- Valley System must be considered. I believe that an accurate result depends on adjusting 10
- recent results of the system's operation to better reflect how those results will migrate over 11
- future periods under the operation as a rate regulated water system regulated by the PUC. 12

13

| 1 | Q. | What discount rate did you use to calculate your income approach? |
|----|----|---|
| 2 | А. | I used a discount rate of 7.93% and a capitalization rate of 6.00%. |
| 3 | | |
| 4 | Q. | Please explain how you developed the discount rate. |
| 5 | А. | In each case, the discount rate was a market discount rate at the appraisal date and was |
| 6 | | determined using the weighted average cost of capital ("WACC") of both debt and equity. |
| 7 | | The inputs to the WACC determination, capital structure, cost of debt, cost of equity, and |
| 8 | | income tax rate (state and federal) were determined based on an analysis of Value Line |
| 9 | | Investment Surveys and the Ibbotson Stock, Bonds, Bills, and Inflation ("Ibbotson SBBI") |
| 10 | | 2020 Edition (SBBI activity over the period 1926 through 2019). The cost of debt was |
| 11 | | determined at December 10, 2019, based on the Value Line Investment Survey. The cost |
| 12 | | of equity was based on the capital asset pricing model ("CAPM") and the Dividend Growth |
| 13 | | Model ("DGM"), two recognized cost of equity estimating models and the PUC's Bureau |
| 14 | | of Technical Utility Services' Report on Quarterly Earnings of Jurisdictional Utilities for |
| 15 | | Year-ending December 31, 2019. The above described data for Valley's appraisal can be |
| 16 | | found in the exhibits to my appraisal report in the section entitled Cost of Capital / Required |
| 17 | | Return. |

18

Q. What capital structure inputs differ from those identified in capital structure set forth earlier in your testimony?

A. None. As described in the previous discussion of the capital structure, we utilized a market required capital structure based on analysis of the water / wastewater industry's market capital structure as defined by analysis of market financials as published in Value Line

15

| 1 | | Investment Survey (January 10, 2020). The theory in appraisal is to estimate the value of |
|----|-----------|--|
| 2 | | a property in an arm's length transaction wherein the purchaser finances the purchase with |
| 3 | | capital (debt and equity) available in the financial markets at the appraisal date. Those are |
| 4 | | the current (appraisal date) financial markets. |
| 5 | | |
| 6 | Q. | What is the source and basis of the alternative input you propose in the income |
| 7 | | approach? |
| 8 | А. | As discussed above, we used Value Line Investment Survey to develop a market required |
| 9 | | capital structure. Please see Application Appendix A-5.1 (AUS Appraisal) Income |
| 10 | | Approach section for the cost of capital of the Income Approach and Cost of Capital / |
| 11 | | Required Return section for the basis of the Cost of Capital / Required Return. |
| 12 | | |
| 13 | Q. | If you used a terminal value in your discounted cash flow analysis what is the number |
| 14 | | of years over which the cash flows are considered? |
| 15 | A. | I considered those cash flows over 19 periods with period 20 representing all future periods. |
| 16 | | |
| 17 | Q. | What is the basis for using this number of years? |
| 18 | А. | It is my opinion that the use of 19 periods is a reasonable number of periods for the forecast |
| 19 | | revenues and expenses to stabilize. |
| 20 | | |
| 21 | Q. | What is your Income Approach conclusion? |
| 22 | А. | AUS Consultants' income approach conclusion was determined to be \$11,528,534 detailed |
| 23 | | as follows: |

Pennsylvania American Water Company Valley Township Water System Water System Potential Purchaser: investor-Owned Utili As of December 17, 2019 Discounded Cash Flow Analysis

| Discount Ra | | | 7.93% | | | | | | | | | | |
|---------------|--------------|------------------|----------------------------|---------------------|------------------------------|---|--|---|---------------------------------|----------------------|---------------------------|----------------|-----------------------------------|
| Capitalizatio | | | 6.00% | | | | | | | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) Period Present | (13) | (14) |
| Period | Age | Revenues | O&M Expenses | Tax Depreciation | Cash Flow from Operations | Taxable Income before State & Federal Taxes | State and Federal Taxes @ 28.89% | Capital Expenditures | Change in Working Capital | Net Cash Flows | Worth Factor (PW) | PW of Cashflow | Accumulated PW of Cashflows |
| | | | | | (3)-(4) | (6)-(5) | (7) *28.89% | | | (3)-(4)-(8)-(9)-(10) | | (11)*(12) | Sum (13) |
| 1 | 0.5 | 718,202 | 500,233 | 296,474 | 217,969 | (78,505) | (22,680) | 72,624 | 946 | 167,079 | 0.963 | | 160,89 |
| 2 | 1.5 | 736,157 | 496,203 | 299,239 | 239,954 | (59,285) | (17,128) | 73,247 | 970 | 182,865 | 0.892 | | 324,01 |
| 3 | 2.5 | 975,408 | 492,295 | 302,054 | 483,113 | 181,059 | 52,308 | 73,877 | 12,919 | 344,009 | 0.826 | 284,151 | 608,16 |
| 4 | 3.5 | 999, 793 | 488,503 | 304,917 | 511,290 | 206,373 | 59,621 | 74,508 | 1,317 | 375,844 | 0.766 | | 896,06 |
| 5 | 4.5 | 1,024,788 | 484,826 | 307,833 | 539,962 | 232,129 | 67,062 | 75, 152 | 1,350 | 396,398 | 0.709 | 281,046 | 1,177,10 |
| 6 | 5.5 | 1,306,605 | 493,333 | 310,798 | 813,272 | 502,474 | 145, 165 | 75,797 | 15,217 | 577,093 | 0.657 | 379,150 | 1,556,25 |
| 7 | 6.5 | 1,339,270 | 501,998 | 313,811 | 837,272 | 523,461 | 151,228 | 76,430 | 1,765 | 607,849 | 0.609 | 370,180 | 1,926,43 |
| 8 | 7.5 | 1,372,752 | 510,825 | 316,880 | 861,927 | 545,047 | 157,464 | 77,087 | 1,808 | 625,568 | 0.564 | 352,820 | 2,279,25 |
| 9 | 8.5 | 1,612,984 | 519,816 | 320,003 | 1,093,168 | 773,165 | 223,367 | 77,751 | 12,973 | 779,077 | 0.523 | 407,457 | 2,686,71 |
| 10 | 9.5 | 1,653,309 | 528,976 | 323,180 | 1,124,333 | 801,153 | 231,453 | 78,420 | 2,177 | 812,283 | 0.484 | 393,145 | 3,079,85 |
| 11 | 10.5 | 1,694,642 | 538,305 | 326,412 | 1,156,337 | 829,925 | 239,765 | 79,097 | 2,232 | 835,243 | 0.449 | 375,024 | 3,454,88 |
| 12 | 11.5 | 1,906,472 | 547,809 | 329,699 | 1,358,663 | 1,028,964 | 297,268 | 79,777 | 11,438 | 970,180 | 0.416 | 403,595 | 3,858,47 |
| 13 | 12.5 | 1,954,134 | 557,490 | 331,596 | 1,396,644 | 1,065,048 | 307,693 | 80,468 | 2,575 | 1,005,908 | 0.385 | 387,275 | 4,245,75 |
| 14 | 13.5 | 2,002,987 | 567,353 | 334,992 | 1,435,634 | 1,100,642 | 317,976 | 81,162 | 2,637 | 1,033,859 | 0.357 | 369,088 | 4,614,84 |
| 15 | 14.5 | 2,173,241 | 577,399 | 338,447 | 1,595,842 | 1,257,395 | 363,261 | 81,865 | 9,194 | 1,141,522 | 0.331 | 377,844 | 4,992,6 |
| 16 | 15.5 | 2,216,706 | 587,633 | 341,960 | 1,629,073 | 1,287,113 | 371,847 | 82,572 | 2,347 | 1,172,307 | 0.306 | 358,726 | 5,351,43 |
| 17 | 16.5 | 2,261,040 | 598,059 | 345,532 | 1,662,981 | 1,317,449 | 380,611 | 83,285 | 2,394 | 1,196,691 | 0.284 | 339,860 | 5,691,27 |
| 18 | 17.5 | 2,441,923 | 608,679 | 345,803 | 1,833,244 | 1,487,441 | 429,722 | 84,007 | 9,767 | 1,309,748 | 0.263 | 344,464 | 6,035,73 |
| 19 | 18.5 | 2,490,761 | 619,500 | 346,078 | 1,871,261 | 1,525,183 | 440,625 | 84,736 | 2,638 | 1,343,262 | 0.244 | 327,756 | 6,363,49 |
| 20 and | | | | | | | | | | | | | |
| beyond | 19.5 | 2,540,576 | 630,523 | 349,775 | 1,910,053 | 1,560,278 | 450,764 | 85,470 1, 577,332 | 2,690 | 1,371,129 | 3.767 | 5,165,043 | 11,528,53 |
| Age | | | | 19.5 | | | | | | | | | |
| PW(Age) = | 1/(1+Disco | ount Rate)(Age) | | 0.226 | | | | Net Plant | | 6,700,885 | | | |
| PW to Perp | etuity = 1/ | Capitalization F | | 16.667 | | | | ADIT | | (1,237,656) | | | |
| PW(20and Beyo | ond) = PW to | o Perpetuity * P | W Factor _(19.5) | 3.767 | | | | Rate Base Annual Plant Construction | | 5,463,229 | 0.226 | 1,234,690 | 7,598,18 |
| | | | | | | | | Inflation Rate | | 0.0422 | nput | | |
| | | | | | | | | Plant Inflation over 19.5 years | | 12,487,364 | 0.226 | 2,822,144 | 9,185,63 |
| | | | | | | | | PP | 7,325,000 | | | | |
| | | | | | | | | OCLD | 5,370,438 | | | | |
| | | | | | | | | PP/OCLD | 1.364 | | | | |
| | | | | | | | | RCNLD | 11,664,026 | | | | |
| | | | | | | | | RCNLD/PP | | 1.592358489 | | | |
| | | | | | | | | | | 8,699,418.82 | 0.226 | 1,966,069 | 8,329,56 |
| | | | | | | | | | | | | | |

These results are detailed in the Application Appendix A-5.1 (AUS Appraisal) under the
Income Approach section.

6

2

1

Discount Rate

7 93%

Q. What number of Selling Utility customers or equivalent dwelling units did you use to
value the Selling Utility's system and how did you develop that number?

9 A. I did not use customers/EDUs in developing the forecasted revenues and expenses. Instead,

10 I used past and budgeted results from operations to establish forecasted operating results.

11

| 1 | Q. | Did you make any updates to your appraisal after it was submitted to the Buyer, and |
|---|----|---|
| 2 | | if so, what was the update, when was it made, and why was it necessary? |
| 3 | А. | I did update my initial appraisal after it was submitted to PAWC since an additional year |
| 4 | | of financials (2019) was available and a final Engineers Assessment dated April 20, 2020 |
| 5 | | was received in early May 2020. |
| 6 | | |
| 7 | Q. | Does this conclude your direct testimony? |
| 8 | А. | It does. However, by filing this direct testimony I understand that I may have the |
| 9 | | opportunity to submit additional testimony responsive to challenges to my appraisal. |

Curriculum Vitae (CV) of Jerome C. Weinert, P.E., CDP, ASA

Mr. Weinert is currently Principal and Director of AUS Consultants, Depreciation and Valuation. He has forty-eight (2020-1972) years' experience in valuation and depreciation consulting and management. AUS, with offices across the country, has provided consulting services to the regulated utility industry nationally for over thirty-nine years. A partial list of services provided includes valuations depreciation studies, rate of return studies, cost of service studies, and rate design.

Prior to joining AUS in 1987, Mr. Weinert was employed by American Appraisal Associates, Inc. (American) for sixteen years in their Regulated Industries Group. He held various positions at American, the last being supervising appraiser. Among his other valuation responsibilities, he directed the firm's utility industry capital recovery studies and AUS Consultant's valuation of communication company assets and businesses.

Mr. Weinert graduated from the Milwaukee School of Engineering with a Bachelor of Science degree in Mechanical Engineering and received a master's in business administration from Marquette University. He is a registered professional engineer (1976) (by examination) in the state of Wisconsin as well as a senior member (1982) of the American Society of Appraisers in the public utility valuation field. This latter designation is obtained by written examination primarily in the areas of utility valuation, depreciation, and the economics of regulated firms. He is also a Certified Depreciation Professional (1997) (CDP) and founding member of the Society of Depreciation Professionals and the Society's 1995 President and sponsor of the Society's Certification and re-certification program; as such Mr. Weinert developed these programs and oversaw their initial introduction into the Society. He also worked in conjunction with Society members in the development of the Society's training programs which as of 2003 has become the only such formalized depreciation training program in the North America and is an instructor in several of its courses.

During his professional career related to valuations and depreciation matters Mr. Weinert has testified before various courts and public service commissions on these subjects. He has also assisted numerous utilities in preparing capital recovery plans which specifically address the issues of plant replacement. Mr. Weinert has also presented expert testimony on valuation matters. Mr. Weinert has testified before the Pennsylvania Public Utility Commission on regulatory matters associated with Pennsylvania Section 1329 matters. On matters related to eminent domain issues, Mr. Weinert has presented expert testimony in the Massachusetts Superior Court, the Court of Common Pleas, Fayette County, Ohio, the New Hampshire Public Utilities Commission, the Twentieth Judicial Court (deposition only) in Charlotte County, Florida, the Nineteenth Judicial Circuit Court in St. Lucie County, Florida (deposition only). In regard to ad valorem taxation, Mr. Weinert has presented study results to the New York State Board of Equalization and Assessment (now the New York Office of Real Property Services (NY ORPS)), pertaining to useful life and net salvage values for all types of utility property subject to the Board's mass appraisal model. Mr. Weinert has appeared before the Valuation Adjustment Board in Florida for Duval. Hillsborough. Okeechobee, and Palm Beach counties, the Twelfth Judicial Circuit Sarasota County, Florida, the California Board of Equalization and Assessment, the Arizona Board of Assessment, the Missouri Board of Taxation, the Colorado and Texas Departments of Review, the Massachusetts Tax Appeal Court, the Superior Court of the State of Arizona in the County of Maricopa, the State Tax Appeal Board of the State of Montana, the New York City Tax Commission and the Public Utility Commission of Pennsylvania Section 1329 hearings (8).

Mr. Weinert has appeared before regulatory bodies in Alaska, Arkansas, Illinois, Indiana, Iowa, Missouri, Nevada, Nebraska, North Carolina, Ohio, Oregon, Pennsylvania, and South Carolina in support of ratebase valuation determination and capital recovery. He has presented testimony on depreciation matters

PAWC Exhibit JCW-1 WW2 CV Weinert Page 2

before the Canadian Radio-Television and Telecommunications Commission (CRTC) and the United States Federal Energy Regulatory Commission (FERC). In terms of water and wastewater acquisitions and applications for regulatory approval of rate base Mr. Weinert has testified for two investor-owned acquisitions of municipal wastewater authorities one representing the municipality and secondly for the acquiring investor-owned utility. He has submitted study results to the State Commissions of Alabama, Alaska, Arkansas, Idaho, Illinois, Indiana, Iowa, Kentucky, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, North Carolina, Oregon, Pennsylvania, South Carolina, Washington, and Wisconsin, and the Federal Communications Commission.

Mr. Weinert has presented papers on valuation and depreciation topics to professional and utility industry trade organizations. He also directed AUS Consultants' semi-annual week-long depreciation training programs (1988-1997). These specialized training courses, offered at basic and advanced levels, teach depreciation study techniques to public utility and public service commission staff specialists. The training includes depreciation theory and concepts and hands-on experience with personal computer-based analytical depreciation programs.

Appraisal & Capital Recovery Activities Client List

| Company | Property | | Study <u>Year</u> | Year <u>Performed</u> | Activity |
|--|-------------------------------------|--------------|----------------------|--------------------------|--|
| 2020 | | | | | |
| AT&T Communications | North America | 2019 | | 2020 | Ad Valorem Tax Appraisal |
| AT&T Communications | California | 2019 | | 2020 | Ad Valorem Tax Appraisal |
| AT&T Communications | Florida | 2019 | | 2020 | Ad Valorem Tax Appraisal |
| AT&T - Indiana Bell Telephone Company Verizon New York, Inc. | Indiana New York | 2019 2019 | | 2020 2020 | Ad Valorem Tax Appraisal Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) | North America | 2019 | | 2020 | Ad Valorem Tax Appraisal |
| East Norriton Township, PA | East Norriton Wastewater | 2019 | | 2020 | Fair Market Value 1329 |
| Pennsylvania American Water Company | Kane Wastewater | 2019 | | 2020 | Fair Market Value 1329 |
| Pennsylvania American Water Company | Royersford Wastewater | 2019 | | 2020 | Fair Market Value 1329 |
| 2040 | | | | | |
| 2019 AT&T Communications | North America | 2018 | | 2019 | Ad Valorem Tax Appraisal |
| AT&T Communications | California | 2018 | | 2019 | Ad Valorem Tax Appraisal |
| AT&T Communications | Florida | 2018 | | 2019 | Ad Valorem Tax Appraisal |
| AT&T - Indiana Bell Telephone Company | Indiana | 2018 | | 2019 | Ad Valorem Tax Appraisal |
| Embarq Florida, Inc. | Florida | 2018 | | 2019 | Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) | North America | 2018 | | 2019 | Ad Valorem Tax Appraisal |
| Cheltenham Township, PA | Cheltenham Wastewater | 2018 2018 | | 2019 2019 | Fair Market Value 1329 Fair Market Value 1329 |
| Pennsylvania American Water Company Pennsylvania American Water Company | Steelton Water Exeter Wastewater | 2018 | | 2019 | Fair Market Value 1329 |
| 2018 | | | | | |
| AT&T Communications | North America | 2017 | | 2018 | Ad Valorem Tax Appraisal |
| AT&T Communications | California | 2017 | | 2018 | Ad Valorem Tax Appraisal |
| AT&T Communications | Florida | 2017 | | 2018 | Ad Valorem Tax Appraisal |
| AT&T - Indiana Bell Telephone Company | Indiana | 2017 | | 2018 | Ad Valorem Tax Appraisal |
| Embarq Florida, Inc. | Florida | 2017 | | 2018 | Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) | North America | 2017 | | 2018 | Ad Valorem Tax Appraisal |
| Level 3 Communications, LLC | North America | 2017 2017 | | 2018 2018 | Ad Valorem Tax Appraisal |
| Level 3 Communications, LLC CenturyLink Communications, LLC | California North America | 2017 | | 2018 | Ad Valorem Tax Appraisal Ad Valorem Tax Appraisal |
| CenturyLink Communications, LLC | California | 2017 | | 2018 | Ad Valorem Tax Appraisal |
| East Bradford Township, PA | East Bradford Wastewater | 2018 | | 2018 | Fair Market Value 1329 |
| Pennsylvania American Water Company | Sadsbury Wastewater | 2017 | | 2018 | Fair Market Value Appraisal |
| Pennsylvania American Water Company | Kane Wastewater | 2017 | | 2018 | Fair Market Value |
| Appraisal | | | | | |
| 2017 | | | | | |
| AT&T Communications | North America | 2016 | | 2017 | Ad Valorem Tax Appraisal |
| AT&T Communications | California | 2016 | | 2017 | Ad Valorem Tax Appraisal |
| AT&T Communications | Florida | 2016 | | 2017 | Ad Valorem Tax Appraisal |
| AT&T - Indiana Bell Telephone Company | Indiana Florida | 2016 2016 | | 2017 2017 | Ad Valorem Tax Appraisal Ad Valorem Tax Appraisal |
| Embarq Florida, Inc. Verizon Communications | Florida | 2016 | | 2017 | Ad Valorem Tax Appraisal Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) | North America | 2016 | | 2017 | Ad Valorem Tax Appraisal |
| Level 3 Communications | North America | 2016 | | 2017 | Ad Valorem Tax Appraisal |
| Level 3 Communications | California | 2016 | | 2017 | Ad Valorem Tax Appraisal |
| | | | | | |

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Appraisal & Capital Recovery Activities Client List

| Company | Property | | Study Year | Year <u>Performed</u> | Activity |
|--|--|--|---------------|--|--|
| Whitpain Township, PA Plymouth Township, PA East Norriton Township, PA Pennsylvania American Water Company Pennsylvania American Water Company | Whitpain Wastewater Plymouth Wastewater East Norriton Wastewater Sadsbury Wastewater McKeesport Wastewater | 2016 2016 2016 2016 2016 2016 | | 2017 2017 2017 2017 2017 2017 | Appraisal for Planning Appraisal for Planning Appraisal for Planning Fair Market Value Appraisal Fair Market Value Appraisal |
| Intermountain Gas Company | Idaho | 2016 | | 2017 | Depreciation Study |
| 2016 AT&T Communications | North Amorica | 2015 | | 2016 | |
| AT&T Communications | North America California | 2015 2015 | | 2016 2016 | Ad Valorem Tax Appraisal Ad Valorem Tax Appraisal |
| AT&T Communications | Florida | 2015 | | 2016 | Ad Valorem Tax Appraisal |
| AT&T - Indiana Bell Telephone Company | Indiana | 2015 | | 2016 | Ad Valorem Tax Appraisal |
| Embarq Florida, Inc. | Florida | 2015 | | 2016 | Ad Valorem Tax Appraisal |
| Verizon Communications | Florida | 2015 | | 2016 | Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) Level 3 Communications | North America North America. | 2015 2015 | | 2016 | Ad Valorem Tax Appraisal |
| Level 3 Communications | California | 2015 | | 2016 2016 | Ad Valorem Tax Appraisal Ad Valorem Tax Appraisal |
| New Garden Township, PA | New Garden Wastewater | 2015 | | 2016 | Fair Market Value Appraisal |
| | | 2010 | | 2010 | |
| 2015 | | 0011 | | 0045 | • · · · · · · · · · · · · · · · · · · · |
| AT&T Communications | North America | 2014 | | 2015 | Ad Valorem Tax Appraisal |
| AT&T Communications | California | 2014 | | 2015 | Ad Valorem Tax Appraisal |
| AT&T Communications | Florida | 2014 2014 | | 2015 | Ad Valorem Tax Appraisal |
| AT&T - Indiana Bell Telephone Company Embarg Florida, Inc. | Indiana Florida | 2014 | | 2015 2015 | Ad Valorem Tax Appraisal Ad Valorem Tax Appraisal |
| Verizon Communications | Florida | 2014 | | 2015 | Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) | North America | 2014 | | 2015 | Ad Valorem Tax Appraisal |
| Level 3 Communications | North America, | 2014 | | 2015 | Ad Valorem Tax Appraisal |
| Level 3 Communications | California | 2014 | | 2015 | Ad Valorem Tax Appraisal |
| Verizon Wireless | Nationwide | 2014 | | 2015 | Ad Valorem Tax Appraisal |
| 2014 | | | | | |
| AT&T Communications | North America | 2013 | | 2014 | Ad Valorem Tax Appraisal |
| AT&T Communications | California | 2013 | | 2014 | Ad Valorem Tax Appraisal |
| AT&T Communications | Florida | 2013 | | 2014 | Ad Valorem Tax Appraisal |
| AT&T - Indiana Bell Telephone Company | Indiana | 2013 | | 2014 | Ad Valorem Tax Appraisal |
| Embarq Florida, Inc. | Florida | 2013 | | 2014 | Ad Valorem Tax Appraisal |
| Verizon Communications | Florida | 2013 | | 2014 | Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) | North America | 2013 | | 2014 | Ad Valorem Tax Appraisal |
| Level 3 Communications Level 3 Communications | North America, California | 2013 2013 | | 2014 2014 | Ad Valorem Tax Appraisal Ad Valorem Tax Appraisal |
| Cascade Natural Gas Corporation | Oregon & Washington | 2013 | | 2014 | Depreciation Study |
| Intermountain Gas Company | Idaho | 2013 | | 2014 | Depreciation Study |
| Virgin Islands Telephone Corporation | US Virgin Islands | 2013 | | 2014 | Depreciation Study |
| Verizon Wireless | Nationwide | 2013 | | 2014 | Ad Valorem Tax Appraisal |
| 2013 | | | | | |
| AT&T Communications | North America | 2012 | | 2013 | Ad Valorem Tax Appraisal |
| | | | | | QUALIFICATIONS 4 |

Appraisal & Capital Recovery Activities Client List

| Company | Property | Study Year | Year <u>Performed</u> | Activity |
|--|------------------------------|---------------|--------------------------|--------------------------------|
| AT&T Communications | California | 2012 | 2013 | Ad Valorem Tax Appraisal |
| AT&T Communications | Florida | 2012 | 2013 | Ad Valorem Tax Appraisal |
| AT&T - Indiana Bell Telephone Company | Indiana | 2012 | 2013 | Ad Valorem Tax Appraisal |
| AT&T - Michigan Bell Telephone Company | Michigan | 2012 | 2013 | Ad Valorem Tax Appraisal |
| | Florida | 2012 | | |
| Embarq Florida, Inc. | | | 2013 | Ad Valorem Tax Appraisal |
| Verizon Communications | Florida | 2012 | 2013 | Ad Valorem Tax Appraisal |
| Verizon Communications | New England - Mass | 2012 | 2013 | Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) | North America | 2012 | 2013 | Ad Valorem Tax Appraisal |
| Level 3 Communications | North America, California | 2012 | 2013 | Ad Valorem Tax Appraisal |
| Sprint Nextel Corporation | North America | 2012 | 2013 | Ad Valorem Tax Appraisal |
| Verizon Wireless | Palm Beach, Florida | 2012 | 2013 | Ad Valorem Tax Appraisal |
| Verizon Communications | New England Mass | 2002-2007 | 2013 | Ad Valorem Tax Appraisal |
| 2012 | | | | |
| AT&T Communications | North America | 2011 | 2012 | Ad Valorem Tax Appraisal |
| AT&T Communications | California | 2011 | 2012 | Ad Valorem Tax Appraisal |
| AT&T Communications | Florida | 2011 | 2012 | Ad Valorem Tax Appraisal |
| AT&T - Indiana Bell Telephone Company | Indiana | 2011 | 2012 | Ad Valorem Tax Appraisal |
| AT&T - Michigan Bell Telephone Company | Michigan | 2011 | 2012 | Ad Valorem Tax Appraisal |
| Embarg Florida, Inc. | Florida | 2011 | 2012 | Ad Valorem Tax Appraisal |
| Verizon Communications | Florida | 2011 | 2012 | Ad Valorem Tax Appraisal |
| Verizon Communications | New England - Mass | 2011 | 2012 | Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) | North America | 2011 | 2012 | Ad Valorem Tax Appraisal |
| Level 3 Communications | North America, | 2011 | 2012 | Ad Valorem Tax Appraisal |
| Level 3 Communications | California | 2011 | 2012 | Ad Valorent Tax Appraisa |
| Sprint Nextel Corporation | North America | 2011 | 2012 | Ad Valorem Tax Appraisal |
| Verizon Wireless | Palm Beach, Florida | 2011 | 2012 | Ad Valorem Tax Appraisal |
| MetroPCS | Palm Beach, Florida | 2011 | 2012 | Ad Valorem Tax Appraisal |
| Verizon Communications | Florida - revised | 2008 | 2012 | Ad Valorem Tax Appraisal |
| Verizon Wireless | Palm Beach, Florida | 2012 | 2012 | Ad Valorem Tax Appraisal |
| 2011 | Taim Deach, Flohua | 2012 | 2012 | |
| AT&T Communications | North America | 2010 | 2011 | Ad Valorem Tax Appraisal |
| AT&T Communications | California | 2010 | 2011 | Ad Valorem Tax Appraisal |
| AT&T Communications | Florida | 2010 | 2011 | Ad Valorem Tax Appraisal |
| AT&T - Indiana Bell Telephone Company | Indiana | 2010 | 2011 | Ad Valorem Tax Appraisal |
| | | 2010 | 2011 | Ad Valorem Tax Appraisal |
| AT&T - Michigan Bell Telephone Company | Michigan | 2010 | 2011 | Ad Valorem Tax Appraisal |
| Embarq Florida, Inc. | Florida | | | |
| Verizon Communications | Florida | 2010 | 2011 | Ad Valorem Tax Appraisal |
| Verizon Communications | New England - Mass | 2010 | 2011 | Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) | North America | 2010 | 2011 | Ad Valorem Tax Appraisal |
| Level 3 Communications | North America, California | 2010 | 2011 | Ad Valorem Tax Appraisal |
| Global Crossing | North America | 2010 | 2011 | Ad Valorem Tax Appraisal |
| Intermountain Gas Company | Idaho | 2010 | 2011 | Depreciation Study |
| Sprint Nextel Corporation | North America | 2010 | 2011 | Ad Valorem Tax Appraisal |
| Verizon Wireless | Palm Beach, Florida | 2010 | 2011 | Ad Valorem Tax Appraisal |
| MetroPCS | Palm Beach, Florida | 2010 | 2011 | Ad Valorem Tax Appraisal |
| Verizon Communications | Florida - revised | 2008 | 2011 | Ad Valorem Tax Appraisal |
| Intermountain Gas Company | Idaho | 2010 | 2011 | Depreciation Study |
| Virgin Islands Telephone Corporation | US Virgin Islands | 2010 | 2011 | Technical Update of Depreciati |
| | | | | |

Appraisal & Capital Recovery Activities Client List

| Company | Property | Stuo Yea | | Activity |
|--|------------------------------|-------------|-------|--------------------------|
| | | | Study | |
| 2010 | | | | |
| AT&T Communications | North America | 2009 | 2010 | Ad Valorem Tax Appraisal |
| AT&T Communications | California | 2009 | 2010 | Ad Valorem Tax Appraisal |
| AT&T Communications | Florida | 2009 | 2010 | Ad Valorem Tax Appraisal |
| AT&T - Indiana Bell Telephone Company | Indiana | 2009 | 2010 | Ad Valorem Tax Appraisal |
| AT&T - Michigan Bell Telephone Company | Michigan | 2009 | 2010 | Ad Valorem Tax Appraisal |
| AT&T - Southwestern Bell Telephone Compan | у | 2009 | 2010 | Ad Valorem Tax Appraisal |
| Arkansas, Kansas, Missouri, Oklahor | na, Texas | | | |
| Embarq Florida, Inc. | Florida | 2009 | 2010 | Ad Valorem Tax Appraisal |
| Embarq Missouri, Inc. | Missouri | 2009 | 2010 | Ad Valorem Tax Appraisal |
| Verizon Communications | Florida | 2009 | 2010 | Ad Valorem Tax Appraisal |
| Verizon Communications | Northwest | 2009 | 2010 | Ad Valorem Tax Appraisal |
| Verizon Communications | New England - Mass | 2009 | 2010 | Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) | North America | 2009 | 2010 | Ad Valorem Tax Appraisal |
| Level 3 Communications | North America, California | 2009 | 2010 | Ad Valorem Tax Appraisal |
| Global Crossing | North America | 2009 | 2010 | Ad Valorem Tax Appraisal |
| MetroPCS | Palm Beach, Florida | 2009 | 2010 | Ad Valorem Tax Appraisal |
| 2009 | | | | |
| AT&T Communications | North America | 2008 | 2009 | Ad Valorem Tax Appraisal |
| AT&T Communications | California | 2008 | 2009 | Ad Valorem Tax Appraisal |
| AT&T Communications | Florida | 2008 | 2009 | Ad Valorem Tax Appraisal |
| AT&T - Indiana Bell Telephone Company | Indiana | 2008 | 2009 | Ad Valorem Tax Appraisal |
| AT&T - Michigan Bell Telephone Company | Michigan | 2008 | 2009 | Ad Valorem Tax Appraisal |
| AT&T - Wisconsin Bell Telephone Company | Wisconsin | 2008 | 2009 | Ad Valorem Tax Appraisal |
| AT&T - Southwestern Bell Telephone Compan Arkansas, Kansas, Missouri, Oklahor | | 2008 | 2009 | Ad Valorem Tax Appraisal |
| Embarg Florida, Inc. | Florida | 2008 | 2009 | Ad Valorem Tax Appraisal |
| Embarg Texas, Inc. | Texas | 2008 | 2009 | Ad Valorem Tax Appraisal |
| Embarq Missouri, Inc. | Missouri | 2008 | 2009 | Ad Valorem Tax Appraisal |
| Embarg Northwest | Washington | 2008 | 2009 | Ad Valorem Tax Appraisal |
| Embarq Virginia | Virginia | 2008 | 2009 | Ad Valorem Tax Appraisal |
| Verizon Communications | Florida | 2008 | 2009 | Ad Valorem Tax Appraisal |
| Verizon Communications | Northwest | 2008 | 2009 | Ad Valorem Tax Appraisal |
| Verizon Communications | New England - Mass | 2008 | 2009 | Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) | North America | 2008 | 2009 | Ad Valorem Tax Appraisal |
| Level 3 Communications | North America, | 2008 | 2009 | Ad Valorem Tax Appraisal |
| | California, Michigan & Ariz | | | |
| Global Crossing | North America | 2008 | 2009 | Ad Valorem Tax Appraisal |
| AboveNet, Inc | North America/California | 2003 | 2009 | Ad Valorem Tax Appraisal |
| Verizon Wireless | Ohio Properties | 2004-2005 | 2009 | Ad Valorem Tax Appraisal |
| Virgin Islands Telephone Corporation | US Virgin Islands | 2008 | 2009 | Depreciation Study |
| Sprint Nextel Corporation | North America | 2008 | 2009 | Ad Valorem Tax Appraisal |
| 2008 | | | | |
| AT&T Communications | North America | 2007 | 2008 | Ad Valorem Tax Appraisal |
| | | | | QUALIFICATIONS 6 |

Appraisal & Capital Recovery Activities Client List

| | | Study | Year | |
|---|--|--------------|-----------|---------------------------|
| Company | Property | Year | Performed | <u>Activity</u> |
| AT&T Communications | California | 2007 | 2008 | Ad Valorem Tax Appraisal |
| AT&T - Indiana Bell Telephone Company | Indiana | 2007 | 2008 | Ad Valorem Tax Appraisal |
| AT&T - Michigan Bell Telephone Company | Michigan | 2007 | 2008 | Ad Valorem Tax Appraisal |
| AT&T - Wisconsin Bell Telephone Company | Wisconsin | 2007 | 2008 | Ad Valorem Tax Appraisal |
| AT&T - Southwestern Bell Telephone Company | | 2007 | 2008 | Ad Valorem Tax Appraisal |
| Arar - Southwestern beir relephone Compan | Arkansas, Kansas, Missou | | | Au valorent tax Appraisai |
| Embarq Florida, Inc. | Florida | 2007 | 2008 | Ad Valorem Tax Appraisal |
| Embarq Texas, Inc. | Texas | 2007 | 2008 | Ad Valorem Tax Appraisal |
| Embarg Missouri, Inc. | Missouri | 2007 | 2008 | Ad Valorem Tax Appraisal |
| Embarg Northwest | Washington | 2007 | 2008 | Ad Valorem Tax Appraisal |
| Embarg Virginia | Virginia | 2007 | 2008 | Ad Valorem Tax Appraisal |
| Verizon Communications | Florida | 2007 | 2008 | Ad Valorem Tax Appraisal |
| Verizon Communications | California | 2007 | 2008 | Ad Valorem Tax Appraisal |
| Verizon Communications | Northwest | 2007 | 2008 | Ad Valorem Tax Appraisal |
| Verizon Communications | New England Mass | 2002-2007 | 2008 | Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) | North America | 2002-2007 | 2008 | Ad Valorem Tax Appraisal |
| Level 3 Communications | North America, | 2007 | 2008 | Ad Valorem Tax Appraisal |
| Level 5 Communications | California, Michigan & Arizo | | 2000 | |
| Global Crossing | North America | 2007 | 2007 | Ad Valorem Tax Appraisal |
| Intermountain Gas Company | Idaho | 2007 | 2008 | Depreciation Study |
| Internountain Gas company | Idano | 2007 | 2000 | Depreciation Study |
| 2007 AT&T Communications | North America | 2006 | 2007 | Ad Valorem Tax Appraisal |
| AT&T Communications | California | 2006 | 2007 | Ad Valorem Tax Appraisal |
| AT&T - Indiana Bell Telephone Company | Indiana | 2006 | 2007 | Ad Valorem Tax Appraisal |
| AT&T - Michigan Bell Telephone Company | Michigan | 2006 | 2007 | Ad Valorem Tax Appraisal |
| AT&T - Wisconsin Bell Telephone Company | Wisconsin | 2006 | 2007 | Ad Valorem Tax Appraisal |
| Embarg Florida, Inc. | Florida | 2006 | 2007 | Ad Valorem Tax Appraisal |
| Embarq Texas, Inc. | Texas, | 2006 | 2007 | Ad Valorem Tax Appraisal |
| Embarg Missouri, Inc. | Missouri | 2006 | 2007 | Ad Valorem Tax Appraisal |
| Embarg North Carolina | North Carolina | 2006 | 2007 | Ad Valorem Tax Appraisal |
| Embarg Virginia | Virginia | 2006 | 2007 | Ad Valorem Tax Appraisal |
| Verizon Communications | Florida | 2006 | 2007 | Ad Valorem Tax Appraisal |
| Verizon Communications | California | 2006 | 2007 | Ad Valorem Tax Appraisal |
| Verizon Communications | Northwest | 2006 | 2007 | Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) | North America | 2006 | 2007 | Ad Valorem Tax Appraisal |
| Qwest Communications Corporation | North America California | 2006 | 2007 | Ad Valorem Tax Appraisal |
| Level 3 Communications | North America, California, Michigan, & Ariz | 2006 cona | 2007 | Ad Valorem Tax Appraisal |
| Level 3 Communications | Arizona | 2002 - 2006 | 2007 | Ad Valorem Tax Appraisal |
| Global Crossing | North America | 2006 | 2007 | Ad Valorem Tax Appraisal |
| Alaska Communications System, Inc. (ACS) | ACS of Alaska ACS of Anchorage | 2006 | 2007 | Depreciation Studies |
| | ACS of Fairbanks ACS of the Northland | | | |
| | ACS Holdings | | 0007 | |
| Intermountain Gas Company | Idaho | 2006 | 2007 | Depreciation Study |

Appraisal & Capital Recovery Activities Client List

| Company | Property | Study Year | Year <u>Performed</u> | Activity |
|--|-----------------------|---------------|--------------------------|--|
| 2006 | | | | |
| AT&T Communications | Palm Beach Florida | 2000 - 2003 | 2006 | Ad Valorem Tax Appraisal |
| AT&T Communications | North America | 2005 | 2006 | Ad Valorem Tax Appraisal |
| AT&T Communications | California | 2005 | 2006 | Ad Valorem Tax Appraisal |
| Sprint Florida, Inc. | Florida | 2005 | 2006 | Ad Valorem Tax Appraisal |
| Sprint Texas, Inc. | Texas, | 2005 | 2006 | Ad Valorem Tax Appraisal |
| Sprint Missouri, Inc. | Missouri | 2005 | 2006 | Ad Valorem Tax Appraisal |
| Sprint North Carolina | North Carolina | 2005 | 2006 | Ad Valorem Tax Appraisal |
| Sprint Virginia | Virginia | 2005 | 2006 | Ad Valorem Tax Appraisal |
| Embarq Nevada | Nevada | 2005 | 2006 | Ad Valorem Tax Appraisal |
| Verizon Communications | Florida | 2005 | 2006 | Ad Valorem Tax Appraisal |
| Verizon Communications | California | 2005 | 2006 | Ad Valorem Tax Appraisal |
| Verizon Communications | Northwest | 2005 | 2006 | Ad Valorem Tax Appraisal |
| Verizon Business (formerly MCI) | Massachusetts | 2002-25 | 2006 | Ad Valorem Tax Appraisal |
| Level 3 Communications | North America | 2005 | 2006 | Ad Valorem Tax Appraisal |
| Level 3 Communications | Arizona | 2002-2006 | 2006 | Ad Valorem Tax Appraisal |
| Global Crossing | North America | 2005 | 2006 | Ad Valorem Tax Appraisal |
| Indianapolis Power & Light | IPL | 2005 | 2006 | Depreciation Study |
| 2005 | | | | |
| AT&T Communications | North America | 2004 | 2005 | Ad Valorem Tax Appraisal |
| AT&T Communications | California | 2004 | 2005 | Ad Valorem Tax Appraisal |
| Sprint Florida, Inc. | Florida | 2004 | 2005 | Ad Valorem Tax Appraisal |
| Sprint PCS | North America | 2004 | 2005 | Ad Valorem Tax Appraisal |
| Verizon Communications | Florida | 2004 | 2005 | Ad Valorem Tax Appraisal |
| Verizon Communications | California | 2004 | 2005 | Ad Valorem Tax Appraisal |
| Verizon Communications | Northwest | 2004 | 2005 | Ad Valorem Tax Appraisal |
| Sprint Communications, LP | North America | 2004 | 2005 | Ad Valorem Tax Appraisal |
| Level 3 Communications | North America | 2004 | 2005 | Ad Valorem Tax Appraisal |
| Global Crossing | North America | 2004 | 2005 | Ad Valorem Tax Appraisal |
| Global Crossing | New York Special | | | |
| | Franchise Property | 2003 & 2004 | 2005 | Ad Valorem Tax Appraisal |
| Indianapolis Power & Light | IPL | 2004 | 2005 | Depreciation Study |
| 2004 | | | | |
| Sprint Florida, Inc. | Florida | 2003 | 2004 | Ad Valorem Tax Appraisal |
| Verizon Communications | California | 2003 | 2004 | Ad Valorem Tax Appraisal |
| Verizon Communications | Northwest | 2003 | 2004 | Ad Valorem Tax Appraisal |
| Verizon Communications | New England | 2003 | 2004 | Ad Valorem Tax Appraisal |
| Sprint Communications, LP | North America | 2003 | 2004 | Ad Valorem Tax Appraisal |
| Level 3 Communications | North America | 2003 | 2004 | Ad Valorem Tax Appraisal |
| Global Crossing | North America | 2003 | 2004 | Ad Valorem Tax Appraisal |
| Sprint PCS | Cost Indexes | 2003 | 2004 | Ad Valorem Tax Appraisal |
| AT&T Communications | North America | 2003 | 2004 | Ad Valorem Tax Appraisal |
| AT&T Communications Intermountain Gas Company | California Idaho | 2003 2003 | 2004 2004 | Ad Valorem Tax Appraisal Depreciation Study |
| 2003 | | | | |
| | Florido | 2002 | 2003 | Ad Valorom Tox Approical |
| Sprint Florida, Inc. Verizon Communications | Florida California | 2002 | 2003 | Ad Valorem Tax Appraisal Ad Valorem Tax Appraisal |
| VENZON COMMUNICATIONS | Callornia | 2002 | 2003 | Au valutetti tax Appiaisal |

Appraisal & Capital Recovery Activities Client List

| Company | Property | | Study Year | Year <u>Performed</u> | Activity |
|---|---|--------------|---------------|--------------------------|---|
| Verizon Communications | Northwest | 2002 | | 2003 | Ad Valorem Tax Appraisal |
| Sprint Communications, LP | North America | 2002 | | 2003 | Ad Valorem Tax Appraisal |
| Level 3 Communications | North America | 2002 | | 2003 | Ad Valorem Tax Appraisal |
| Sprint PCS | Cost Indexes | 2002 | | 2003 | Ad Valorem Tax Appraisal |
| AT&T Communications | North America | 2002 | | 2003 | Ad Valorem Tax Appraisal |
| AT&T Communications | California | 2002 | | 2003 | Ad Valorem Tax Appraisal |
| Global Crossing | North America | 2002 | | 2003 | Ad Valorem Tax Appraisal |
| Verizon Wireless | | 1998 through | 2002 | 2003 | Ad Valorem Tax Appraisal |
| 2002 | | | | | |
| Sprint Florida, Inc. | Florida | 2001 | | 2002 | Ad Valorem Tax Appraisal |
| Verizon Communications | California | 2001 | | 2002 | Ad Valorem Tax Appraisal |
| Verizon Communications | Northwest | 2001 | | 2002 | Ad Valorem Tax Appraisal |
| Sprint Communications, LP | North America | 2001 | | 2002 | Ad Valorem Tax Appraisal |
| Level 3 Communications | North America | 2001 | | 2002 | Ad Valorem Tax Appraisal |
| Global Crossing | North America | 2001 | | 2002 | Ad Valorem Tax Appraisal |
| AT&T Wireless | Plymouth, MI | 2001 | | 2002 | Ad Valorem Tax Appraisal |
| Sprint PCS | Cost Indexes | 2001 | | 2002 | Ad Valorem Tax Appraisal |
| AT&T Communications | North America | 2001 | | 2002 | Ad Valorem Tax Appraisal |
| Intermountain Gas Company | Idaho | 2001 | | 2002 | Depreciation Study |
| AT&T Communications | California | 2001 | | 2002 | Ad Valorem Tax Appraisal |
| 2001 | | | | | |
| Verizon | Verizon - New York | 2001 | | 2001-2 | Functional Obsolescence & Useful Life studies for valuation |
| Sprint Florida, Inc. | Sprint Florida, Inc. | 2000 | | 2001 | Ad Valorem Tax Appraisal |
| Verizon Communications | California | 2000 | | 2001 | Ad Valorem Tax Appraisal |
| Sprint Communications, LP | North America | 2000 | | 2001 | Ad Valorem Tax Appraisal |
| Global Crossing | North America | 2000 | | 2001 | Ad Valorem Tax Appraisal |
| Sprint PCS | Cost Indexes | 2000 | | 2001 | Ad Valorem Tax Appraisal |
| Sprint Corporation | Centel - Nevada | 2000 | | 2001-2 | Depreciation Study |
| Alaska Communications System, Inc. (ACS) | ACS of Alaska ACS of Anchorage ACS of Fairbanks ACS of the Northland ACS Holdings | 2000 | | 2001 | Depreciation Study |
| 2000 | | | | | |
| Sprint PCS Telus Communications | BTS Equipment Telus - Alberta & Britisl | h Columbia | 2000 2000 | 2000 2000 | Economic Life Study Depreciation study Phase III Price Caps |
| Sprint Florida, Inc. | Florida | | 1999 | 2000 | Ad Valorem Tax Appraisal |
| Verizon Communications | California | | 1999 | 2000 | Ad Valorem Tax Appraisal |
| Sprint Communications, LP | North America | | 1999 | 2000 | Ad Valorem Tax Appraisal |
| 1999 Social Composition | Centel - Nevada | | 1998 | 1999 | Depreciation Study |
| Sprint Corporation | | | | | Depreciation Study |
| Intermountain Gas Company | Intermountain Gas Cor | npany | 1998 | 1999 1999 | Depreciation Study Ad Valorem Tax Appraisal |
| Sprint Florida, Inc. | Florida | | 1998 | 1999 | QUALIFICATIONS 9 |
| | | | | | |

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Appraisal & Capital Recovery Activities Client List

| Company | Property | Study Year | Year <u>Performed</u> | Activity |
|---|--|---------------|--------------------------|---|
| Sprint Communications, LP | North America | 1998 | 1999 | Ad Valorem Tax Appraisal |
| 1998 | Frankins Talashana of Dashantar | 1000 | 1007 | Valuation domesiation |
| Frontier Corporation | Frontier Telephone of Rochester | 1998 | 1997 | Valuation depreciation Lives and Net Salvage Parameters |
| Pacific Telecom, Inc. | Telephone Utilities of Washington | 1997 | 1998 | Depreciation Study |
| Sprint Florida, Inc. | Florida | 1997 | 1998 | Ad Valorem Tax Appraisal |
| Verizon Communications | Florida | 1997 | 1998 | Ad Valorem Tax Appraisal |
| Sprint Communications, LP | North America | 1997 | 1998 | Ad Valorem Tax Appraisal |
| | | | | · · · · · · · · · · · · · · · · · · · |
| Sprint Corporation | United Telephone Company of South Carolina | 1998 | 1998 | Depreciation Expense Universal Service Fund |
| Sprint Corporation | Carolina Telephone and Telegraph | 1998 | 1998 | Depreciation Expense |
| | and Central Telephone of North Carolina | | | Universal Service Fund |
| Telus Communications | Telus - Edmonton (TCE) | 1997 | 1998 | Depreciation Study Phase II Price Caps |
| 1997 | | | | |
| Sprint Corporation | Centel - Nevada | 1997 | 1997 | Unbundling/ Inter-connection Depreciation Study |
| Pacific Telecom, Inc. | Telephone Utilities of Oregon | 1996 | 1997 | Depreciation Study |
| Pacific Telecom, Inc. | Telephone Utilities of Alaska1996 And the Northland | | 1997 | Depreciation Study |
| Telus Communications | Telus - TCI formerly AGT | 1996 | 1997 | Depreciation Study Phase II Price Caps |
| Indianapolis Power & Light | IPL | 1996 | 1997 | Depreciation Study |
| Sprint Florida, Inc. | Florida | 1996 | 1997 | Ad Valorem Tax Appraisal |
| Verizon Communications | Florida | 1996 | 1997 | Ad Valorem Tax Appraisal |
| Pacific Telecom, Inc. | Eagle Telephone (Colorado) 1996 | | 1997 | Depreciation Study |
| 1996 | | | | |
| Intermountain Gas Company | Intermountain Gas Company | 1995 | 1996 | Depreciation Study |
| Sprint Florida, Inc. | Florida | 1995 | 1996 | Ad Valorem Tax Appraisal |
| | | | | E Frank and a second |
| Century Telephone | Century Telephone of Ohio, Inc. | 1995 | 1996 | Depreciation Study |
| Telus Communications | AGT Limited (Alberta Government Telephones) | 1995 | 1996 | Depreciation Study |
| Johnson County Kansas Office of the Assessor | Useful Life of Computer Equipment | 1995 | 1995 | Useful/Market Life Analysis QUALIFICATIONS 10 |

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Appraisal & Capital Recovery Activities Client List

| Company | Property | Study <u>Year</u> | Year <u>Performed</u> | Activity |
|---|--|----------------------|--------------------------|---|
| Milwaukee Metropolitan Sewerage District | Milwaukee Metropolitan Sewerage District | 1995 | 1996 | Depreciation Study |
| Sprint Corporation | Long Distance Division | 1995 | 1995 | Depreciation/Recovery Status Study |
| Sprint Corporation | Cellular Division | 1995 | 1995 | Depreciation/Recovery Status Study |
| Pacific Telecom, Inc. | Alascom, Inc. | 1994 | 1995 | Depreciation Study |
| Pacific Telecom, Inc. | Telephone Utilities of the Northland | 1993 | 1994 | Depreciation Study |
| | Telephone Utilities of Alaska | 1993 | 1994 | Depreciation Study |
| Indiana Energy | Indiana Gas Company | 1993 | 1994 | Depreciation Study |
| Columbia Gas Transmission | Gas Pipeline Property in Sullivan County, NY | 1993 | 1993 | Useful Life Study |
| United Telephone - Midwest Group | United Telephone Company of Missouri | / 1993 | 1993 | Modernization/ Depreciation Study |
| Intermountain Gas Co. | Intermountain Gas Co. | 1992 | 1993 | Depreciation Study |
| Pacific Telecom, Inc. | Alascom, Inc. | 1992 | 1993 | Depreciation Study |
| | Telephone Utilities of Oregon, Inc. | 1991 | 1992 | Depreciation Study |
| | Telephone Utilities of Washington, Inc. | 1991 | 1992 | Depreciation Study |
| Small Telephone Company Coalition | Oregon Small Telephone Companies | 1991 | 1992 | Depreciation Support |
| United Telephone Systems | United Telephone Co. of Pennsylvania | 1991 | 1992 | Instructional Depreciation Study |
| New York State Division of Equalization and Assessment | Electric, Gas, Water, Telephone, Pipeline, Steam, CATV | 1991 | 1992 | Useful Lives and Net Salvage Values |
| Rochester Telephone Company | Enterprise Telephone | 1991 | 1992 | Study Review |
| Indiana Energy | Indiana Gas/Richmond Gas Terre Haute Gas | ;/ 1990 | 1991 | Depreciation Study |
| American Electric Power | Indiana/Michigan Power Co | 1990 | 1991 | Depreciation Study |

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Appraisal & Capital Recovery Activities Client List

| Company | Property | Year | Study Yo <u>Performed</u> | earActivity |
|-------------------------------------|--|------|------------------------------|---------------------------------------|
| Rochester Telephone Company | Rochester Telephone Co. | 1990 | 1991 | Study Review |
| United Telephone Systems | United Telephone Co. of Florida | 1990 | 1991 | Instructional Depreciation Study |
| United Telephone Systems | United Telephone Co. of Oregon | 1989 | 1990 | Study Review |
| Telephone and Data Systems, Inc. | Quincy Telephone Company | 1990 | 1991 | Depreciation Study |
| Telephone and Data Systems, Inc. | Wolverine Telephone Company | 1989 | 1990 | Depreciation Study |
| Indiana Energy | Indiana Gas Company, Inc. | 1989 | 1990 | Depreciation Study |
| Intermountain Gas Co. | Intermountain Gas Co. | 1989 | 1990 | Remaining Life/Net Salvage Support |
| North-West Telephone Company | North-West Telephone Company | 1989 | 1990 | Study Review |
| United Telephone System | United of Texas | 1989 | 1990 | Instructional Depreciation Study |
| | United of Missouri | 1989 | 1990 | Instructional Depreciation Study |
| Milwaukee Water | Milwaukee Water | 1989 | 1990 | Depreciation Study |
| Indiana Natural Gas Corp. | Indiana Natural Gas Corp. | 1989 | 1990 | Depreciation Study |
| Pacific Telecom | Telephone Utilities of the Northland | 1989 | 1990 | Depreciation Study |
| | Telephone Utilities of Alaska | 1989 | 1990 | Depreciation Study |
| | Alascom | 1989 | 1990 | Depreciation Study |
| | Telephone Utilities of Washington, Inc. | 1988 | 1989 | Depreciation Study |
| WICOR | Wisconsin Gas Company | 1988 | 1989 | Depreciation Study |
| ALLTEL | ALLTEL - Kentucky, Inc. | 1987 | 1989 | Depreciation Study |
| | ALLTEL - Ohio, Inc. | 1988 | 1989 | Depreciation Study |
| | | | | |

Utility Industries Capital Recovery Activities Client List

| | | | Study Ye | ar |
|--|--|------|------------------|---|
| Company | Property | Year | <u>Performed</u> | <u>Activity</u> |
| | Western Reserve Telephone Company | 1988 | 1989 | Depreciation Study |
| Milwaukee Metropolitan Sewer District | Milwaukee Metropolitan Sewer District | 1988 | 1989 | Depreciation Study |
| United Telephone | United of Ohio | 1988 | 1989 | ELG Support |
| Telephone Company | Telephone Company | 1988 | 1989 | ELG Support |
| United Telecom | U.S. Sprint | 1988 | 1988 | Useful Life Study |
| Pacific Telecom | Telephone Utilities of Oregon | 1987 | 1988 | Depreciation Study |
| | Telephone Utilities of Eastern Oregon | 1987 | 1988 | Depreciation Study |
| | Rose Valley Telephone Company | 1987 | 1988 | Depreciation Study |
| United Telephone | United of Minnesota | 1987 | 1988 | Capital Planning Support |
| Wisconsin Southern Gas | Wisconsin Southern Gas | 1987 | 1988 | Depreciation Study |
| Pacific Telecom | Glacier State Telephone Company | 1986 | 1987 | Depreciation Study |
| | Sitka Telephone Co. | 1986 | 1987 | Depreciation Study |
| | Juneau-Douglas Tel Company | 1986 | 1987 | Depreciation Study |
| Pacific Telecom | Telephone Utilities of Alaska | 1986 | 1987 | Depreciation Study |
| | Alascom | 1986 | 1987 | Depreciation Study |
| Lincoln Telecommunications | Lincoln Telephone and Telegraph Company | 1986 | 1987 | Digital Switching Service Life |
| Northwest Natural Gas Corporation | Northwest Natural Gas Corporation | 1985 | 1986 | Depreciation Study |
| ALLTEL | Western Reserve Telephone Company | 1984 | 1985 | Depreciation Study |
| | ALLTEL - Ohio | 1984 | 1985 | Depreciation Study |
| | ALLTEL - Alabama | 1984 | 1985 | Depreciation Study |
| Gulf Telephone Co. | Gulf Telephone Company | 1984 | 1985 | Depreciation Study QUALIFICATIONS 13 |

Appraisal & Capital Recovery Activities Client List

| Company | Property | Study <u>Year</u> | Year <u>Performed</u> | Activity |
|---|---|----------------------|--------------------------|------------------------------|
| United Telephone | United of Iowa | 1984 | 1985 | Depreciation Study |
| Systems, Inc. | United of Arkansas | 1984 | 1985 | Depreciation Study |
| Pacific Telecom | Telephone Utilities of Washington | 1983 | 1984 | Depreciation Study |
| | Telephone Utilities of Eastern Oregon | 1983 | 1984 | Depreciation Study |
| Pacific Telecom | Telephone Utilities of Oregon | 1983 | 1984 | Depreciation Study |
| | Northwestern Telephone Systems, Inc., Oregon | 1983 | 1984 | Depreciation Study |
| | Rose Valley Telephone Company | 1983 | 1984 | Depreciation Study |
| United Telecommunications | All United Telephone Companies | 1983 | 1984 | Capital Recovery Strategy |
| Lincoln Telecommunications | Lincoln Telephone & Telegraph Company | 1983 | 1984 | Depreciation Study |
| ALLTEL | ALLTEL - Mississippi | 1982 | 1983 | Depreciation Study |
| | ALLTEL - Michigan | 1982 | 1983 | Depreciation Study |
| North Carolina Natural Gas Corp. | North Carolina Natural Gas Corporation | 1982 | 1983 | Depreciation Study |
| Mid Continent Telephone (Currently ALLTEL) | Western Reserve Telephone | 1982 | 1983 | Depreciation Study |
| | Mid Ohio Telephone | 1982 | 1982 | Depreciation Study |
| | Florence Telephone Company | 1980 | 1981 | Depreciation Study |
| | Leeds Telephone Co. | 1980 | 1981 | Depreciation Study |
| | Elmore Coosa Tel Company | 1980 | 1981 | Depreciation Study |
| | Brookville Telephone Company | 1980 | 1981 | Depreciation Study |
| | Mid-Pennsylvania Telegraph | 1980 | 1981 | Depreciation Study |
| Telephone Utilities (Currently Pacific Telecom) | Telephone Utilities of Oregon | 1979 | 1980 | Depreciation Study |
| Telecom) | Telephone Utilities of | 1979 | 1980 | Depreciation Study |
| | | | | |

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Papers and Seminars

| Eastern Oregon | | | |
|---|--|--|---|
| Northwestern Telephone Systems, IncOregon | 1979 | 1980 | Depreciation Study |
| Rose Valley Telephone Company | 1979 | 1980 | Depreciation Study |
| United of Ohio | 1979 | 1980 | Depreciation Study |
| Telephone Utilities of Washington | 1978 | 1979 | Depreciation Study |
| United of Ohio | 1978 | 1979 | Depreciation Study |
| Rochester Telephone (Indiana) | 1977 | 1978 | Depreciation Study |
| United of Ohio | 1977 | 1978 | Depreciation Study |
| Princeton Telephone | 1976 | 1977 | Depreciation Study |
| (Indiana) Northwestern Telephone (Illinois) | 1975 | 1976 | Depreciation Study |
| | Northwestern Telephone Systems, IncOregon Rose Valley Telephone Company United of Ohio Telephone Utilities of Washington United of Ohio Rochester Telephone (Indiana) United of Ohio Princeton Telephone (Indiana) Northwestern Telephone | Northwestern Telephone Systems, IncOregon1979Rose Valley Telephone Company1979United of Ohio1979United of Ohio1979Telephone Utilities of Washington1978United of Ohio1978Rochester Telephone (Indiana)1977United of Ohio1977Princeton Telephone (Indiana)1976 (Indiana)Northwestern Telephone (Indiana)1975 | Northwestern Telephone Systems, IncOregon19791980Rose Valley Telephone Company19791980United of Ohio19791980United of Ohio19791980Telephone Utilities of Washington19781979United of Ohio19781979Rochester Telephone (Indiana)19771978United of Ohio19771978Princeton Telephone Northwestern Telephone 19751975 |

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Papers and Seminars

| 2011 | Training Instructor Depreciation Basics Sessions A & B and Life and Salvage Analysis Society of Depreciation Professionals 25 th Annual Meeting Atlanta, GA September 20-22, 2011 |
|------|---|
| 2010 | Will the Real Cost Approach Please Stand Up? National Association of Property Tax Representatives Transportation, Energy, & Communications (NAPTR·TEC) Scottsdale, Arizona October 25-27, 2010 |
| | <u>Issues Affecting Assessment of Regulated Industries</u> Institute for Professionals in Taxation (IPT) Property Tax Symposium Austin, Texas October 31 – November 3, 2010 |
| 2009 | (<u>Valuing) Intangibles</u> Appraisal for Ad Valorem Taxation, Wichita State University Wichita, Kansas July 28, 2009 |
| | Fair Value Accounting (Appraisal Panelist) Appraisal for Ad Valorem Taxation, Wichita State University Wichita, Kansas July 29, 2009 |
| 2008 | Valuation Issues Valuation of Assets and the Impact of Depreciation Society of Depreciation Professionals Annual Meeting Greenville, SC September 21-26, 2008 |
| | Obsolescence in the Long-Distance and Local Transport Networks Technology Futures Inc. Asset Valuation Conference Austin Texas February 8, 2008 |
| 2007 | <u>Communications Industry Issues</u> National Association of Property Tax Representative – Transportation, Energy, & Communications New Orleans, LA October 30, 2007 |
| 2006 | <u>Appraisal Procedures & Issues in a Changing communications Industry</u> Florida Chapter International Association of Assessing Officers' Tangible Personal Property Conference Ocala, Florida January 12, 2006 |
| | <u>Valuation of Intangibles</u> Appraisal for Ad Valorem Taxation, Wichita State University Wichita, Kansas July 25, 2006 |
| | SDP 20 years of History and Beyond Society of Depreciation Professionals 20 th Annual Meeting Long Beach, CA September 18, 2006 |
| 2005 | <u>Valuation in a World with Asset Impairments</u> Appraisal for Ad Valorem Taxation, Wichita State University Wichita, Kansas August 1, 2005 |

Papers and Seminars

| 2004 | <u>Depreciation in the Valuation of Assets</u> Society of Depreciation Professionals' Eighteenth Annual Meeting Washington, D.C., September 13, 2004 |
|------|--|
| 2003 | <u>Cost Approach and the Use of Appraisal Guidelines</u> Institute for Professionals in Taxation – Property Tax Symposium Fort Lauderdale, FL, September 17, 2003 |
| | <u>Cost Approach – Obsolescence and Depreciation</u> Appraisal for Ad Valorem Taxation, Wichita State University Wichita, Kansas, July 28, 2003 |
| 2000 | <u>Appraisal Issues Associated with Technological Change in the Wireline Telecommunications Industry</u> Appraisal for Ad Valorem Taxation, Wichita State University Wichita, Kansas, July 31, 2000 |
| | The Impact of Advancing Technology and the Changing Regulatory Environment on Obsolescence Calculations for Ad Valorem Valuation Purposes Journal of Property Tax Management, Spring 2000 |
| 1996 | <u>How to Develop a Reproduction/Replacement Cost New Less Depreciation Approach to Value</u> Appraisal for Ad Valorem Taxation, Wichita State University Wichita, Kansas, August 4, 1996 |
| 1995 | <u>Valuation Method, Techniques and Strategies (How to Quantify Stranded Investment) (Market, Income, & Cost Approach</u> <u>& Cost Approach</u> AGA Depreciation Committee Meeting Denver, Colorado, August 6-9, 1995, jointly presented with Earl Robinson of AUS Consultants |
| 1994 | Integrating Future Expectations for the Telephone Industry into Historical Depreciation Analysis United States Telephone Association (USTA's 1994 Capital Recovery Seminar) Scottsdale, Arizona, September 12-13, 1994 |
| 1994 | <u>Capital Recovery: United States versus Canada</u> Canadian Telephone Industry's Annual Capital Recovery Seminar Edmonton, Alberta, Canada June 14-15, 1994 |
| 1990 | <u>Capital Recovery: Methods, Terminology, Procedures, and Record Keeping</u> United States Telephone Association (USTA)'s 1990 Non-FCC Subject and Small Company Capital Recovery Seminar Minneapolis, Minnesota April 10_11, 1990 |
| | Integration of Technology Forecasting Into Historical Life Studies 29th Iowa State Regulatory Conference Ames, Iowa May 15-17, 1990 |
| | <u>The 1990's and the Second Wave of Major Plant Retirements in the Communications Industry</u> NARUC's Seventh Biennial Information Conference Columbus, Ohio September 12-14, 1990 |

Papers and Seminars

| | <u>How Do We Incorporate Change into the Study Filing Procedures?</u> USTA's 1990 Capital Recovery Seminar Chicago, Illinois October 16_17, 1990 |
|------|---|
| 1989 | <u>Plant Modernization: Capital Planning and Capital Recovery</u> Midwest Utilities Conference Chicago, Illinois September 11_14, 1989 |
| | <u>Price Indexes Today: Procedures, Uses, and Misuses</u> Society of Depreciation Professionals' Third Annual Meeting New Orleans, Louisiana December 6_7, 1989 |
| 1988 | <u>Plant Modernization: Capital Planning and Capital Recovery</u> National Association of Regulatory Utility Commissioners (NARUC)'s Sixth Biennial Regulatory Information Conference Columbus, Ohio September 14_16, 1988 |

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Papers and Seminars

| 1997 | Sprint Corporation - West Finance Center Overland Park, Kansas, August 1997 |
|------|---|
| 1997 | Rochester Telephone Corporation Rochester, New York, April 1997 |
| 1996 | Sprint-Florida-Vista United Telecommunications Altamonte Springs, Florida August 27-29, 1996 |
| 1994 | Saskatchewan Telecommunications Regina, Saskatchewan, Canada, June 1994 |
| 1994 | AUS Consultants/Leroy J. Murphy and Associates 1994 Capital Recovery Seminar May 1994 |
| 1993 | Manitoba Telephone System, Winnipeg, Manitoba, December 1993 |
| 1993 | Society of Depreciation Professionals Annual Meeting Charleston, South Carolina September 30, 1993 |
| 1993 | SPRINT - Local Telephone Division Atlanta, Georgia August 11-12, 1993 |
| 1993 | AUS Consultants/Leroy J. Murphy and Associates 1993 Capital Recovery Seminar Chicago, Illinois May 11 - 13, 1993 |
| 1993 | Canadian Telephone Capital Recovery Seminar Halifax, Nova Scotia April 20 - 22, 1993 |
| 1993 | United Telephone, Midwest Group Overland Park, Kansas January 20, 1993 |
| 1992 | BellSouth Corporation Birmingham, Alabama November 23, 1992 |
| 1992 | Sprint - Local Telephone Division Kansas City, Kansas November 18 - 20, 1992 |
| 1992 | Society of Depreciation Professionals Annual Meeting San Antonio, Texas September 9 - 10, 1992 |
| 1992 | AUS Consultants/Leroy J. Murphy and Associates 1992 Capital Recovery Seminar Chicago, Illinois October 6 - 8, 1992 |
| 1991 | Society of Depreciation Professionals Annual Meeting Nashville, Tennessee November 20-22, 1991 |
| 1991 | ALLTEL Corporation Microcomputer Depreciation Studies System Training Hudson, Ohio October 14-16, 1991 |

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Capital Recovery Training

| 2016 | Society of Depreciation Professionals Annual Training Charleston, South Carolina, September 18-23, 2016 |
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| 2015 | Society of Depreciation Professionals Annual Training Austin Texas September 2015 |
| 2014 | Society of Depreciation Professionals Annual Training New Orleans, Louisiana September 2014 |
| 2013 | Society of Depreciation Professionals Annual Training Salt Lake City, Utah September 2013 |
| 2012 | Society of Depreciation Professionals Annual Training Minneapolis, Minnesota, September 16-18, 2012 |
| 1991 | United Telecommunications, Inc., Capital Recovery/Microcomputer Depreciation Studies System Training Kansas City, Kansas September 23-25, 1991 |
| 1991 | AUS Consultants/Leroy J. Murphy and Associates 1991 Capital Recovery Seminar Lake Geneva, Wisconsin September 17-19, 1991 |
| 1991 | Rochester Telephone Corporation, Capital Recovery/Microcomputer Depreciation Studies System Training, Rochester, New York September 3-7, 1991 |
| 1991 | Ameritech Services, Microcomputer Depreciation Studies System Training Chicago, Illinois May 16-17, 1991 |
| 1991 | AUS Consultants/Leroy J. Murphy and Associates 1991 Capital Recovery Seminar Washington, D.C. April 9_11, 1991 |
| 1990 | United Telecommunications, Inc., Capital Recovery Seminar Overland Park, Kansas December 1990 |
| 1990 | AUS Consultants/Leroy J. Murphy and Associates 1990 Capital Recovery Seminar Chicago, Illinois September 24_27, 1990 |
| 1990 | AUS Consultants/Leroy J. Murphy and Associates 1990 Capital Recovery Seminar Chicago, Illinois January 29-February 1, 1990 |
| 1990 | United Telecommunications, Inc., Capital Recovery/Microcomputer Depreciation Studies System Training, Chicago, Illinois July 1990 |
| 1989 | United Telecommunications, Inc., Capital Recovery/Microcomputer Depreciation Studies System Training, Chicago, Illinois July 1989 |
| | QUALIFICATIONS 20 |

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Capital Recovery Training

| 1989 | AUS Consultants/Leroy J. Murphy and Associates 1989 Capital Recovery Seminar Chicago, Illinois March 6_9, 1989 |
|------|--|
| 1988 | AUS Consultants/Leroy J. Murphy and Associates 1988 Capital Recovery Seminar Chicago, Illinois July 25_28, 1988 |
| 1988 | United Telecommunications, Inc., Microcomputer Depreciation Studies System Training Kansas City, Kansas January 1988 |

VERIFICATION

I, Jerome C. Weinert, P.E., hereby state that the facts above set forth above are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements made herein are made subject to the penalties of 18 Pa. Cons. Stat. §4904 relating to unsworn falsification to authorities.

Derme Civenent

Jerome C. Weinert, P.E. Principal and Director AUS Consultants, Inc.

Dated: October 7, 2020