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May 31, 2019

Mr. Daniel P. Wolf Executive Secretary Minnesota Public Utilities Commission 121 Seventh Place East, Suite 350 St. Paul, MN 55101-2147

RE: Annual Depreciation Study Docket No. G004/D-19-____

Dear Mr. Wolf:

Great Plains Natural Gas Co. (Great Plains), a Division of Montana-Dakota Utilities Co., herewith electronically files its Annual Depreciation Study pursuant to Minnesota Rules parts 7825.0500 to 7825.0700.

Attachment A is the Annual Depreciation Study that updates Great Plains' five-year study from Docket No. G004/D-17-450 to reflect plant in service and book depreciation reserve balances as of December 31, 2018. Overall, the application of the proposed depreciation rates results in an increase of \$136,821 from current rates established in Docket No. G004/D-18-369. The composite annual depreciation rate under present rates is 4.31 percent, while the proposed composite depreciation rate is 4.32 percent.

Pursuant to the Commission's Order issued on February 22, 2019 in Docket No. G004/D-18-369, Great Plains provides the following information:

- A summary of the additions, retirements, adjustments, and transfers for plant-inservice accounts and their associated accumulated depreciation accounts, as required by the Minnesota Rule 7825.0700, has been included in Section 5 beginning on page 5-31.
- Great Plains began reflecting the Minnesota-jurisdictional amounts in the gas
 plant-in-service accounts in its 2018 Jurisdictional Annual Report (JAR) filing and
 will continue to present the jurisdictional information in future filings.
- As discussed in the Docket, Great Plains will provide information regarding building retirements. The Company did have a large building retirement and now provides an analysis of the building retirements included in Account 390 – General Structures and Improvements as Attachment B.

Great Plains requests that the depreciation rates in this annual study be certified effective as of January 1, 2019.

If you have any questions regarding this study, please contact me at (701) 222-7856, or Brian M. Meloy, at (612) 335-1451.

Sincerely,

/s/ Tamie A. Aberle

Tamie A. Aberle Director of Regulatory Affairs

cc: Brian M. Meloy

Attachment A



2019 TECHNICAL DEPRECIATION UPDATE Great Plains Natural Gas Co.

TECHNICAL UPDATE Calculated Annual Depreciation Accrual Rates Applicable to Plant in Service as of December 31, 2018

Prepared May 2019

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1 STUDY HIGHLIGHTS

Pursuant to request of the Great Plains Natural Gas Co. ("GPNG" or the "Company"), Concentric Energy Advisors ("Concentric") completed an annual Technical Update ("the Update") to the results of the annual depreciation update filed by GPNG (as revised) in October 2018. The results of the Update contained herein relate to the natural gas transmission, distribution and General Plant assets as of December 31, 2018. The purpose of the update is to determine the annual depreciation accrual rates and amounts for ratemaking purposes applicable to the original cost of plant as of December 31, 2018.

The depreciation rates in this update have been calculated using the same depreciation methods, procedures and techniques employed in the last GPNG depreciation study. Additionally, the depreciation rate calculations are based on the average service life, retirement dispersion and net salvage estimates developed in the last full depreciation study.

Concentric notes that in the calculation of depreciation rates, the significant level of capital expenditures in 2018 have resulted in an increase in the annual depreciation rates for accounts 367.0 – Transmission Mains and 396.2 – Power Operated Equipment. Also, of note, in seven accounts minor adjustments to historic vintage balances were required to appropriately deal with the 2018 retirement transactions.

The Update results are summarized at an aggregate functional group level as follows:

Summary of Original Cost, Currently Approved Accrual Percentages and Amounts, and Updated Accrual Percentage and Amounts

| Plant Group / Accounts | Original Cost | Original Cost Annual Accrual 20 | | | O18 Annual Accrual Updated | | |
|------------------------|---------------|---------------------------------|-------------|-------|----------------------------|--|--|
| Transmission Plant | \$7,148,697 | 1.24% | \$88,644 | 2.08% | \$148,642 | | |
| Distribution Plant | \$47,269,936 | 4.55% | \$2,150,782 | 4.66% | \$2,203,883 | | |
| General Plant | \$6,680,528 | 3.94% | \$263,213 | 4.30% | \$286,935 | | |
| TOTAL | \$61,099,161 | 4.31% | \$2,502,639 | 4.32% | \$2,639,460 | | |

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2 BASIS OF THE UPDATE

2.1 Scope

Concentric has been retained to develop an annual technical Update to the annual technical update completed in 2018 for GPNG. The purpose of the Update was to determine the annual depreciation accrual rates and amounts for ratemaking purposes applicable to the actual surviving original cost as of December 31, 2018. The depreciation accrual rates presented herein are based on generally-accepted methods and procedures for calculating depreciation.

The annual depreciation accrual rates and amounts are based on the broad group straight line method of depreciation using the Average Life Group ("ALG") procedure and were applied using the remaining life technique. The calculations were based on the actual plant accounting ledger values as at December 31, 2018. Inherent in the application of the depreciation parameters with the remaining life technique, the accumulated depreciation accounts are trued up of any variances between the actual book accumulated depreciation reserve and calculated accrued depreciation requirement are amortized over the composite remaining life of each group of assets.

2.1.1 Purpose of a technical update

Concentric notes that the depreciation rates should be reviewed periodically as plant and accumulated depreciation account activity may result in materially different depreciation rates. The survivor curves, net salvage percentages, and amortization periods determined in the Company's most recent full depreciation study should be the basis for the periodic recalculations. Complete depreciation studies, which re-evaluate these parameters, should be performed every three to five years.

When depreciation rates are calculated utilizing a remaining life technique, the depreciation rate is established by dividing the undepreciated value of each group of assets (after consideration to the net salvage requirements) by the composite remaining life of the group of assets. This calculation is made for each vintage surviving investment as of the date of the study (or Update), and then composited into a calculation for the account or group as a whole. As follows, this calculation requires two estimates:

The actual booked accumulated depreciation for each vintage within each account. GPNG does not track the booked accumulated depreciation reserve by vintage within each account. The depreciation expense is calculated at an account level and booked to accumulated depreciation at the same account level. Concentric notes that this is the practice employed by virtually all regulated utilities. As such, the accumulated depreciation by account, is allocated within the account, to each vintage on the basis of the calculated accumulated by vintage. The calculated accumulated depreciation is a function of the estimated survivor curve, the average service life estimate, the net salvage estimates and the achieved age of each vintage.

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The estimated remaining life of each vintage with each account. The estimated remaining life of each account is a direct function of the achieved age of each vintage, the estimated survivor curve and the average service life estimate.

Once the above two estimates are determined (the allocated booked reserve by vintage and the average remaining life of each vintage) an annual accrual requirement for each vintage is determined by dividing the net book value for each vintage (considering the estimated future salvage requirements) by the average remaining life of the vintage. The annual requirement for each vintage is summed at the account level and divided into the sum of the accounts original cost surviving as of the study date to determine a required remaining life depreciation accrual rate for the account.

The calculations as described above are dependent upon the actual total account book depreciation and the estimated remaining life of each vintage. The depreciation rate can vary year over year due to plant addition and retirement activity. Additionally, the age of retirements in any given year can cause a required adjustment to the depreciation rate going forward. Therefore, annual technical updates are often required by regulators.

2.2 Information Provided by GPNG

GPNG has provided Concentric with the required information as of December 31, 2018 for all accounts being studied in this Update. The information includes the following:

- current balances by vintage year for each account (aged balances). The balances provide the
 amount of investment sorted by installation year currently in operation. The actual 2018
 transaction plant accounting data was forwarded directly from GPNG to Concentric so that the
 2017 files could be updated through December 31, 2018;
- the actual booked accumulated depreciation amounts by account as of December 31, 2018 were forwarded directly from GPNG to Concentric;
- the last full depreciation study was provided to Concentric to use in the determination of prior depreciation practices and approved depreciation parameters; and
- additions related to Transmission Structures were capitalized into Account 366.00. This account
 had not previously been used at the time of the last full depreciation study or as of the 2018
 annual technical update. The total capitalized cost into Account 366.00 in 2018 was \$16,683.

2.3 Data Reconciliation

The above data was reviewed and reconciled to Company control schedules to ensure accuracy and reasonableness in use of the calculations developed in this Update. These checks include:

 that the surviving investment by account equals (or can be reconciled to) the Company's gross plant in service and accumulated depreciation ledger balances;

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- that the surviving investment in each vintage is not negative. In other words, this check confirms that the sum of retirements from any given vintage have not exceeded the amount of plant additions to the vintage; and
- that this report reflects the consolidation of the "Mains" and "Services" plant accounts consistent with the 2018 technical update.

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3 DEVELOPMENT OF THE REQUIRED DEPRECIATION RATES

3.1 Depreciation

The development of the depreciation calculations requires the input of an Average Service Life, Iowa curve and Net Salvage recommendations (the "depreciation parameters"). Additionally, to complete the depreciation calculations, the calculation methods must be established. Specifically, the selection of the depreciation method must establish three types of additional input:

- the choice of a depreciation method;
- a basis upon which to apply the method, and
- in the case of group assets, a procedure to use in grouping the assets.

In this Update, the depreciation rates for GPNG have been calculated in accordance with the Straight-Line method, the Average Life Group procedure and applied using the Remaining Life technique.

Depreciation in public utility regulation, is the loss in service value not restored by current maintenance, incurred with the consumption or prospective retirement of utility plant in service from causes which are known to be in current operation and against which the utility is not protected by insurance. Among causes to be given consideration are: wear and tear; deterioration; action of the elements; inadequacy; obsolescence; changes in the art; changes in demand; and the requirements of public authorities. When considering the action of the elements, the average service life calculations have considered large catastrophic events that have occurred and impacted the life estimates of utilities across North America. The average service life of utilities has been influenced by events including forest fires, earthquakes, tornadoes, ice storms, wind storms, large scale flooding, fires, intentional actions of third parties and other natural forces of nature.

Depreciation, as used in accounting, is a method of distributing fixed capital costs less net salvage over a time period, by allocating annual amounts to expense. Each annual amount of such depreciation expense is part of that year's total cost of providing natural gas utility service. Normally, the time over which the fixed capital cost is allocated to the cost of service, is equal to the time over which an item renders service, that is the item's service life. The most prevalent method of allocation is to distribute an equal amount of cost to each year of service life. This method is known as the Straight-Line method of depreciation.

The calculation of annual and accrued depreciation based on the Straight-Line method requires the estimation of survivor curves and is described in the following sections of this Update. The development of the proposed depreciation rates also requires the selection of group depreciation procedures, as discussed below.

This Update uses the estimates as approved in the last full GPNG depreciation study and as used in the 2018 technical update. Imbedded in the remaining life calculations, the variances between the calculated accrued depreciation and the book accumulated depreciation are amortized over the composite remaining life of each account.

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In seven accounts, minor adjustments to historic vintage balances were required to appropriately deal with the 2018 retirement transactions to avoid negative vintage balances. This was done for the following accounts:

- 367.0 Transmission Mains
- 369.0 Meas & Reg Station Equipment
- 376.0 Mains (Distribution)
- 379.0 Meas & Reg Station Equipment City Gate
- 380.0 Services
- 392.1 Transportation Equipment Trailers
- 392.2 Transportation Equipment

The 2018 investment in Account 366.00 – Transmission structures has not yet been included in a full depreciation study review, and as such the account does not have currently approved depreciation rates. In discussion with GPNG, Concentric has determined that the structures as installed on the transmission system are similar to the structures installed in the distribution system Account 375.00 – Distribution System Measuring and Regulating Station Structures. Given the similar nature of these assets to the assets installed in Account 375.00, Concentric has used the average service life and net salvage parameters as currently approved for Account 375.00 for the 2018 investment in account 366.00 in the calculations included with this technical update.

3.2 Update on PVC Program

Great Plains continues its mains and services PVC replacement program and at the end of 2018, approximately 45% of total mains and 55% of total services planned to be replaced has been completed. The remaining life of Account 378 is largely dependent on the life of the PVC replacement program and has only changed marginally from 31.9 years as calculated in the 2018 update to 32.2 years in this technical update. Also as noted in the detailed depreciation calculations related to account 376.00 – Distribution Mains at page 5-11 of this report, the level of capital additions have remained relatively consistent over the period since the last full depreciation study. As such, the depreciation rates for Accounts 381 and 383, Meters and House Regulators, respectively, presented in the current technical update are unchanged from the previous study. During 2018, 50,706 feet of mains and 439 services were replaced. Great Plains will continue to monitor the status of the PVC replacement and will provide updates in future technical updates.

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4 RESULTS OF UPDATE

4.1 Qualification of Results

The calculated annual and accrued depreciation are the principal results of the update. Continued surveillance and periodic revisions are normally required to maintain continued use of appropriate annual depreciation accrual rates. An assumption that accrual rates can remain unchanged over a long period of time implies a disregard for the inherent variability in service lives and salvage, and for the change of the composition of property in service. The annual accrual rates and the accrued depreciation were calculated in accordance with the Straight-line method, using the ALG procedure based on estimates which reflect considerations of current historical evidence and expected future conditions.

4.2 Description of Detailed Tabulations

The following tables provide summaries by account of the original cost of investment, calculated and booked accumulated depreciation amounts, the required amount of annual depreciation expense, the required depreciation rate to be applied against the original cost of the account and the estimated composite remaining life of the surviving plant in service.

The detailed calculations of annual depreciation applicable to depreciable assets, as of December 31, 2018, are presented in account sequence starting in Section 5. The tables indicate the estimated average survivor curves used in the calculations. The tables set forth (for each installation year) the original cost, calculated accrued depreciation and the calculated annual accrual.

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GREAT PLAINS NATURAL GAS CO.

TABLE 1. REVISED SUMMARY OF SERVICE LIFE AND NET SALVAGE ESTIMATES AND CALCULATED ANNUAL AND ACCRUED DEPRECIATION RELATED TO THE RECOVERY OF AVERAGE ORIGINAL COST IN GAS PLANT AS OF DECEMBER 31, 2018

- TOTAL -

| F WAY SION STRUCTURES SION MAINS EG STATION EQUIPMENT PLANT F WAY AS & REG STATION STRUCTURES | 50-R2.5 85-S1 50-R3 40-R0.5 | 0 -5 -20 -10 | 158,152 16,683 6,097,192 876,671 7,148,697 | 101,961 309 1,238,506 169,310 | 125,291 39 1,448,992 222,360 | 1,199 600 125,012 | 0.76 3.60 2.05 | 17.8 29. 41. |
|--|--|---|---|--|---------------------------------------|-------------------------|----------------------|---------------------|
| ISION STRUCTURES SION MAINS EG STATION EQUIPMENT PLANT F WAY | 85-S1 50-R3 40-R0.5 | -5 -20 | 16,683 6,097,192 876,671 | 309 1,238,506 | 39 1,448,992 | 600 125,012 | 3.60 2.05 | 29. |
| ISION STRUCTURES SION MAINS EG STATION EQUIPMENT PLANT F WAY | 85-S1 50-R3 40-R0.5 | -5 -20 | 16,683 6,097,192 876,671 | 309 1,238,506 | 39 1,448,992 | 600 125,012 | 3.60 2.05 | 29. |
| SION MAINS EG STATION EQUIPMENT PLANT F WAY | 50-R3 40-R0.5 | -20 | 6,097,192 876,671 | 1,238,506 | 1,448,992 | 125,012 | 2.05 | |
| EG STATION EQUIPMENT PLANT F WAY | 40-R0.5 | | 876,671 | | | | | 41. |
| P LANT F WAY | | -10 | | 169,310 | 222,360 | 01.001 | | |
| F WAY | | | 7 148 497 | | | 21,831 | 2.49 | 33. |
| | | | 7,140,077 | 1,510,086 | 1,796,682 | 148,642 | 2.08 | |
| | | | | | | | | |
| | 50-R2.5 | 0 | 17,654 | 9,420 | 9,164 | 367 | 2.08 | 23. |
| | N/A | -5 | 34,860 | N/A | 28,001 | 990 1 | 2.84 | N// |
| | 46-R3 | -55 | 20.844.261 | 9,725,081 | 10,215,541 | 663,973 | 3.19 | 32. |
| EG STATION EQUIP-GENERAL | N/A | -25 | 515,539 | N/A | 401,406 | 64,700 2 | 12.55 | N// |
| EG STATION EQUIP-CITY GATE | 28-R3 | -5 | 489,650 | 149,186 | 132,883 | 20,089 | 4.10 | 19. |
| | | | | | | | | 27. |
| METER INSTALLATIONS | | | | | | | | N// |
| | , | | ., ., . | | | 63,911 3 | | N// |
| AL MEAS. & REG. STATION EQUIPMENT | 40-S4 | | | | | 4.087 | | 35. |
| C PROTECTION EQUIPMENT | 25-R3 | 0 | | | | 401 | | 14. |
| UIPMENT | 30-R3 | 0 | | | | - | - | 4. |
| ANT | | - | 47.269.936 | | | 2.203.883 | 4.66 | |
| | | | <u> </u> | | | | | |
| | | | | | | | | |
| STRUCTURES & IMPROVEMENTS | 45-R4 | 0 | 2,504,707 | 663,003 | 812,380 | 48,189 | 1.92 | 33. |
| JRNITURE & EQUIPMENT | 16-SQ | 0 | 89,305 | 57,385 | 56,978 | 5,446 | 6.10 | 5.3 |
| ER & ELECTRONIC EQUIPMENT | 4-SQ | 0 | 105,067 | 95,378 | 88,199 | 15,622 | 14.87 | 0. |
| RTATION EQUIPMENT - TRAILERS | 12-R1 | 10 | 22,349 | 12,533 | 23,335 | - | - | 4. |
| RTATION EQUIPMENT | 7-L2 | 20 | 1,468,028 | 500,274 | 639,362 | 122,821 | 8.37 | 4.0 |
| IOP, & GARAGE EQUIPMENT | 20-SQ | 0 | 757,796 | 262,445 | 258,887 | 38,801 | 5.12 | 13. |
| PERATED EQUIPMENT - TRAILERS | 6-L0 | 65 | 158,027 | 17,575 | 35,215 | 4,217 | 2.67 | 4. |
| PERATED EQUIPMENT | 6-L0 | 65 | 1,163,907 | 101,201 | 243,640 | 30,164 | 2.59 | 4. |
| NICATION EQUIPMENT | 18-SQ | 0 | 357,683 | 214,610 | 215,486 | 19,404 | 5.42 | 7. |
| NEOUS EQUIPMENT | 25-SQ | 0 | 53,659 | 22,275 | 20,516 | 2,271 | 4.23 | 14. |
| | | | 6,680,528 | 1,946,679 | 2,393,999 | 286,935 | 4.30 | |
| NED | | | 61.099.161 | 22.034.810 | 29.705.922 | 2.639.460 | 4.32 | |
| | METER INSTALLATIONS COULATORS AL MEAS. & REG. STATION EQUIPMENT C PROTECTION EQUIPMENT WIPMENT ANT STRUCTURES & IMPROVEMENTS JENITURE & EQUIPMENT EER & ELECTRONIC EQUIPMENT RIATION EQUIPMENT - TRAILERS RIATION EQUIPMENT HOP, & GARAGE EQUIPMENT PERATED EQUIPMENT INICATION EQUIPMENT NICATION EQUIPMENT | METER INSTALLATIONS N/A EGULATORS N/A AL MEAS, & REG. STATION EQUIPMENT 40-54 C PROTECTION EQUIPMENT 25-R3 DUIPMENT 30-R3 ANT STRUCTURES & IMPROVEMENTS 45-R4 URNITURE & EQUIPMENT 16-SQ ER & ELECTRONIC EQUIPMENT 4-SQ RTATION EQUIPMENT 7-TRAILERS 12-R1 RTATION EQUIPMENT 7-L2 HOP, & GARAGE EQUIPMENT 20-SQ DPERATED EQUIPMENT - TRAILERS 6-L0 DPERATED EQUIPMENT 6-L0 NICATION EQUIPMENT 18-SQ NICATION EQUIPMENT 25-SQ | METER INSTALLATIONS N/A -25 GULATORS N/A -5 AL MEAS. & REG. STATION EQUIPMENT 40-S4 0 C PROTECTION EQUIPMENT 25-R3 0 DUIPMENT 30-R3 0 ANT STRUCTURES & IMPROVEMENTS 45-R4 0 URNITURE & EQUIPMENT 16-SQ 0 ER & ELECTRONIC EQUIPMENT 4-SQ 0 RTATION EQUIPMENT -TRAILERS 12-R1 10 RTATION EQUIPMENT 7-L2 20 HOP, & GARAGE EQUIPMENT 20-SQ 0 PERATED EQUIPMENT -TRAILERS 6-L0 65 PERATED EQUIPMENT 6-L0 65 PERATED EQUIPMENT 18-SQ 0 NICATION EQUIPMENT 18-SQ 0 NICATION EQUIPMENT 18-SQ 0 NICATION EQUIPMENT 6-L0 65 NICATION EQUIPMENT 18-SQ 0 NICATION EQUIPMENT 18-SQ 0 NICATION EQUIPMENT 18-SQ 0 NICATION EQUIPMENT 25-SQ 0 | METER INSTALLATIONS | METER INSTALLATIONS | METER INSTALLATIONS | METER INSTALLATIONS | METER INSTALLATIONS |

48,659

64,019,822

<u>Notes</u>

389.0

TOTAL PLANT

1 Interim Retirement Rate. Service lives vary.

LAND & LAND RIGHTS GENERAL

- 2 Based upon anticipated district regulator change out / eliminations.
- 3 Based upon 20 ERT battery life and remaining PVC program term 2016 2026.

All currently approved rates include salvage portion.

GREAT PLAINS NATURAL GAS CO.

TABLE 1.A. REVISED SUMMARY OF SERVICE LIFE AND NET SALVAGE ESTIMATES AND CALCULATED ANNUAL AND ACCRUED DEPRECIATION RELATED TO THE RECOVERY OF AVERAGE ORIGINAL COST IN GAS PLANT AS OF DECEMBER 31, 2018

- LIFE -

| ACCOUNT | DESCRIPTION | ESTIMATED SURVIVOR CURVE | NET SALVAGE PERCENT | SURVIVING ORIGINAL COST AS OF 12/31/2018 | CALCULATED ACCRUED DEPRECIATION | BOOK RESERVE | ANNUAL ACCRUA | AL RATE | REMAINING LIFE |
|----------------|---|--------------------------------|---------------------------|--|---------------------------------------|-----------------|---------------|------------|-------------------|
| TRANSMISS | SION PLANT | | | | | | | | |
| 365.2 | RIGHTS OF WAY | 50-R2.5 | - | 158,152 | 101,961 | 125,291 | 1,199 | 0.76 | 17.8 |
| 366.0 | TRANSMISSION STRUCTURES | 85-\$1 | | 16,683 | 294 | 37 | 572 | 3.43 | 29.1 |
| 367.0 | TRANSMISSION MAINS | 50-R3 | - | 6,097,192 | 1,032,088 | 1,184,361 | 106,520 | 1.75 | 41.5 |
| 369.0 | MEAS & REG STATION EQUIPMENT | 40-R0.5 | - | 876,671 | 153,918 | 227,732 | 18,825 | 2.15 | 33.0 |
| TOTAL TRA | NSMISSION PLANT | | | 7,148,697 | 1,288,261 | 1,537,421 | 127,116 | 1.78 | |
| DISTRIBUTION | ON PLANT | | | | | | | | |
| 374.2 | RIGHTS OF WAY | 50-R2.5 | - | 17,654 | 9,420 | 9,164 | 367 | 2.08 | 23.3 |
| 375.0 | DISTR. MEAS & REG STATION STRUCTURES | N/A | - | 34,860 | N/A | 26,687 | 893 1 | 2.69 | N/A |
| 376.0 | MAINS | 46-R3 | - | 20,844,261 | 6,274,246 | 6,971,595 | 398,555 | 1.91 | 32.2 |
| 378.0 | MEAS & REG STATION EQUIP-GENERAL | N/A | - | 515,539 | N/A | 348,057 | 36,253 2 | 8.79 | N/A |
| 379.0 | MEAS & REG STATION EQUIP-CITY GATE | 28-R3 | - | 489,650 | 142,082 | 152,786 | 16,356 | 3.34 | 19.9 |
| 380.0 | SERVICES | 39-R3 | - | 16,990,592 | 4,949,936 | 5,387,348 | 394,107 | 2.32 | 27.6 |
| 381.0 | METERS & METER INSTALLATIONS | N/A | - | 7,228,434 | N/A | 3,966,594 | 406,527 3 | 7.03 | N/A |
| 383.0 | HOUSE REGULATORS | N/A | - | 965,429 | N/A | 443,088 | 54,340 3 | 5.91 | N/A |
| 385.0 | INDUSTRIAL MEAS. & REG. STATION EQUIPMENT | 40-S4 | - | 162,784 | 18,270 | 17,890 | 4,087 | 2.51 | 35.5 |
| 387.1 | CATHODIC PROTECTION EQUIPMENT | 25-R3 | - | 9,235 | 3,962 | 3,659 | 401 | 4.34 | 14.3 |
| 387.2 | OTHER EQUIPMENT | 30-R3 | - | 11,498 | 9,738 | 11,498 | - | - | 4.6 |
| IOIAL DISI | RIBUTION PLANT | | | 47,269,936 | 11,407,654 | 17,338,367 | 1,311,886 | 2.78 | |
| GENERAL I | PLANT | | | | | | | | |
| 390.0 | GENERAL STRUCTURES & IMPROVEMENTS | 45-R4 | - | 2,504,707 | 663,003 | 812,380 | 48,189 | 1.92 | 33.1 |
| 391.1 | OFFICE FURNITURE & EQUIPMENT | 16-SQ | - | 89,305 | 57,385 | 56,978 | 5,446 | 6.10 | 5.7 |
| 391.3 | COMPUTER & ELECTRONIC EQUIPMENT | 4-SQ | - | 105,067 | 95,378 | 88,199 | 15,622 | 14.87 | 0.4 |
| 392.1 | TRANSPORTATION EQUIPMENT - TRAILERS | 12-R1 | - | 22,349 | 13,925 | 23,335 | - | - | 4.5 |
| 392.2 | TRANSPORTATION EQUIPMENT | 7-L2 | - | 1,468,028 | 625,342 | 639,362 | 204,718 | 13.95 | 4.0 |
| 394.0 | TOOLS, SHOP, & GARAGE EQUIPMENT | 20-SQ | - | 757,796 | 262,445 | 258,887 | 38,801 | 5.12 | 13.1 |
| 396.1 | POWER OPERATED EQUIPMENT - TRAILERS | 6-L0 | - | 158,027 | 50,214 | 35,215 | 32,300 | 20.44 | 4.1 |
| 396.2 | POWER OPERATED EQUIPMENT | 6-L0 | - | 1,163,907 | 289,146 | 243,640 | 213,186 | 18.32 | 4.5 |
| 397.0 | COMMUNICATION EQUIPMENT | 18-SQ | - | 357,683 | 214,610 | 215,486 | 19,404 | 5.42 | 7.2 |
| 398.0 | MISCELLANEOUS EQUIPMENT | 25-SQ | - | 53,659 | 22,275 | 20,516 | 2,271 | 4.23 | 14.6 |
| IOIAL GEN | IERAL PLANT | | | 6,680,528 | 2,293,723 | 2,393,999 | 579,937 | 8.68 | |
| TOTAL GAS | S PLANT STUDIED | | | 61,099,161 | 14,989,638 | 21,269,788 | 2,018,939 | 3.30 | |
| DI ANT NO | COUNTRY | | | | | | | | |
| PLANT NO | | | | 5.007 | | | | | |
| 301.0 302.0 | ORGANIZATION COSTS | | | 5,006 | | | | | |
| | FRANCHISE COSTS | | | 73,680 | | | | | |
| 303.0 | INTANGIABLE ASSETS | | | 2,784,752 | | | | | |
| 365.0 374.0 | LAND LAND | | | 5,585 2,978 | | | | | |
| 389.0 | LAND & LAND RIGHTS GENERAL | | | 2,978 48,659 | | | | | |
| TOTAL PLA | | | | | | | | | |
| IOIAL PLA | INI | | | 64,019,822 | | | | | |

Notes:

- 1 Interim Retirement Rate. Service lives vary.
- 2 Based upon anticipated district regulator change out / eliminations.
- 3 Based upon 20 ERT battery life and remaining PVC program term 2016 2026.

All currently approved rates include salvage portion.

GREAT PLAINS NATURAL GAS CO.

TABLE 1B. REVISED SUMMARY OF SERVICE LIFE AND NET SALVAGE ESTIMATES AND CALCULATED ANNUAL AND ACCRUED DEPRECIATION RELATED TO THE RECOVERY OF AVERAGE ORIGINAL COST IN GAS PLANT AS OF DECEMBER 31, 2018

- NET SALVAGE -

| | | ESTIMATED SURVIVOR | NET SALVAGE | SURVIVING ORIGINAL COST | CALCULATED ACCRUED | воок | ANNUAL ACC | CRUAL |
|-------------|---|-----------------------|----------------|----------------------------|-----------------------|-----------|------------|---------|
| ACCOUNT | DESCRIPTION | CURVE | PERCENT | AS OF 12/31/2018 | DEPRECIATION | RESERVE | AMOUNT | RATE |
| TRANSMISS | SION PLANT | | | | | | | |
| 365.2 | RIGHTS OF WAY | 50-R2.5 | 0 | 158,152.03 | - | - | - | 0.00 |
| 366.0 | TRANSMISSION STRUCTURES | 85-S1 | -5 | 16,682.51 | 15 | 2 | 29 | 0.17 |
| 367.0 | TRANSMISSION MAINS | 50-R3 | -20 | 6,097,192.23 | 206,418 | 264,631 | 18,492 | 0.30 |
| 369.0 | MEAS & REG STATION EQUIPMENT | 40-R0.5 | -10 | 876,670.63 | 15,392 | (5,372) | 3,005 | 0.34 |
| TOTAL TRA | NSMISSION PLANT | | | 7,148,697 | 221,825 | 259,261 | 21,526 | 0.30 |
| DISTRIBUTE | ON DIANT | | | | | | | |
| DISTRIBUTIO | | 50 D0 5 | 0 | 17 /50 50 | | | | 0.00 |
| 374.2 | RIGHTS OF WAY | 50-R2.5 | 0 | 17,653.59 | - | - | - | 0.00 |
| 375.0 | DISTR. MEAS & REG STATION STRUCTURES | N/A | -5 | 34,859.83 | N/A | 1,313 | 97 | 0.15 |
| 376.0 | MAINS | 46-R3 | -55 | 20,844,261.33 | 3,450,835 | 3,243,946 | 265,418 | 1.28 |
| 378.0 | MEAS & REG STATION EQUIP-GENERAL | N/A | -25 | 515,538.77 | N/A | 53,349 | 28,447 | 3.76 |
| 379.0 | MEAS & REG STATION EQUIP-CITY GATE | 28-R3 | -5 | 489,649.61 | 7,104 | (19,903) | 3,732 | 0.76 |
| 380.0 | SERVICES | 39-R3 | -75 | 16,990,591.80 | 3,712,452 | 4,288,773 | 274,920 | 1.62 |
| 381.0 | METERS & METER INSTALLATIONS | N/A | -25 | 7,228,433.62 | N/A | 609,395 | 309,811 | 2.88 |
| 383.0 | HOUSE REGULATORS | N/A | -5 | 965,429.41 | N/A | - | 9,572 | 0.71 |
| 385.0 | INDUSTRIAL MEAS. & REG. STATION EQUIPMENT | 40-S4 | 0 | 162,784.41 | - | - | - | 0.00 |
| 387.1 | CATHODIC PROTECTION EQUIPMENT | 25-R3 | 0 | 9,235.11 | - | - | - | 0.00 |
| 387.2 | OTHER EQUIPMENT | 30-R3 | 0 | 11,498.48 | - | - | - | 0.00 |
| TOTAL DIST | RIBUTION PLANT | | | 47,269,936 | 7,170,391 | 8,176,873 | 891,997 | 1.88 |
| GENERAL I | PLANT | | | | | | | |
| 390.0 | GENERAL STRUCTURES & IMPROVEMENTS | 45-R4 | 0 | 2,504,706.59 | - | - | - | 0.00 |
| 391.1 | OFFICE FURNITURE & EQUIPMENT | 16-SQ | 0 | 89,305.15 | - | - | - | 0.00 |
| 391.3 | COMPUTER & ELECTRONIC EQUIPMENT | 4-SQ | 0 | 105,066.97 | - | - | - | 0.00 |
| 392.1 | TRANSPORTATION EQUIPMENT - TRAILERS | 12-R1 | 10 | 22,348.86 | (1,392) | - | - | 0.00 |
| 392.2 | TRANSPORTATION EQUIPMENT | 7-L2 | 20 | 1,468,028.31 | (125,068) | - | (81,897) | (5.58) |
| 394.0 | TOOLS, SHOP, & GARAGE EQUIPMENT | 20-SQ | 0 | 757,796.26 | - | - | - | 0.00 |
| 396.1 | POWER OPERATED EQUIPMENT - TRAILERS | 6-L0 | 65 | 158,027.01 | (32,639) | - | (28,083) | (17.77) |
| 396.2 | POWER OPERATED EQUIPMENT | 6-L0 | 65 | 1,163,906.63 | (187,945) | - | (183,022) | (15.73) |
| 397.0 | COMMUNICATION EQUIPMENT | 18-SQ | 0 | 357,682.64 | - | - | - | 0.00 |
| 398.0 | MISCELLANEOUS EQUIPMENT | 25-SQ | 0 | 53,659.43 | - | - | - | 0.00 |
| TOTAL GEN | IERAL PLANT | | | 6,680,528 | (347,044) | - | (293,002) | (4.38) |
| TOTAL GAS | S PLANT STUDIED | | | 61,099,161 | 7,045,172 | 8,436,134 | 620,521 | 1.02 |
| I JIAL GA | | | | 01,077,101 | 7,043,172 | 5,700,107 | 020,021 | 1.02 |
| PLANT NO | | | | | | | | |
| 301.0 | ORGANIZATION COSTS | | | 5,006 | | | | |
| 302.0 | FRANCHISE COSTS | | | 73,680 | | | | |
| 303.0 | INTANGIABLE ASSETS | | | 2,784,752 | | | | |
| 365.0 | LAND | | | 5,585 | | | | |
| 374.0 | LAND | | | 2,978 | | | | |
| 389.0 | LAND & LAND RIGHTS GENERAL | | | 48,659 | | | | |
| TOTAL PLA | NT | | | 64,019,822 | | | | |



5 DETAILED DEPRECIATION CALCULATIONS

Concentric Advisors, ULC Page | 5-1

Account #: 365.2 - Transmission - Rights of Way

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R2.5

ASL: 50

Net Salvage: 0%

| | | | | Accumulated | | ALG | | |
|-------|----------------------|------------------------|-------------------------|--------------|------------|-----------|---------|---------|
| | | Calculated Accumulated | Allocated Actual | Depreciation | Net Book 1 | Remaining | Annual | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 1965 | 4,066.02 | 3,216 | 3,952 | 0.9720 | 114 | 10.45 | 11 | 53.5 |
| 1966 | 107,419.75 | 84,093 | 103,335 | 0.9620 | 4,085 | 10.86 | 376 | 52.5 |
| 1967 | 2,490.06 | 1,928 | 2,369 | 0.9516 | 121 | 11.28 | 11 | 51.5 |
| 1976 | 3.00 | 2 | 3 | 0.8388 | 0 | 15.87 | 0 | 42.5 |
| 1981 | 297.10 | 184 | 227 | 0.7626 | 71 | 18.97 | 4 | 37.5 |
| 1985 | 61.73 | 35 | 43 | 0.6959 | 19 | 21.68 | 1 | 33.5 |
| 2000 | 2,732.55 | 911 | 1,119 | 0.4097 | 1,613 | 33.33 | 48 | 18.5 |
| 2003 | 41,081.82 | 11,591 | 14,243 | 0.3467 | 26,839 | 35.89 | 748 | 15.5 |
| TOTAL | 158,152.03 | 101,961 | 125,291 | · | 32,861 | | 1,199 | |

| COMPOSITE ANNUAL ACCRUAL RATE | 0.76% |
|--|-------|
| THEORETICAL ACCUMULATED DEPRECIATION FACTOR | 0.79 |
| COMPOSITE AVERAGE AGE (YEARS) | 42.28 |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | 17.76 |

Account #: 366.0 - Transmission - Structures

ALG - Remaining Life

Survivor Curve: \$1

ASL: 85

Net Salvage: -5%

| CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION |
|--|
| BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018 |

| | | | | Accumulated | | ALG | | |
|-----------|----------------------|---------------------------|-------------------------|--------------|-------------|----------|---------|---------|
| | | Calculated Accumulated | Allocated Actual | Depreciation | Net Book Ro | emaining | Annual | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 2018 | 16,682.51 | 309 | 39 | 0.0023 | 17,478 | 29.11 | 600 | 0.5 |
| TOTAL | 16,682.51 | 309 | 39 | | 17,478 | | 600 | |
| COMPOSIT | E ANNUAL ACCRUA | L RATE | | 3.60% | | | | |
| THEORETIC | CAL ACCUMULATED | DEPRECIATION FACTOR | | 0.00 | | | | |
| COMPOSIT | E AVERAGE AGE (YE | ARS) | | 0.50 | | | | |
| DIRECTED | WEIGHTED ALG CON | POSITE REMAINING LIFE (YI | EARS) | 29.11 | | | | |

Account #: 367.0 - Transmission - Mains

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R3

ASL: 50

Net Salvage: -20%

| | | | | Accumulated | | ALG | | |
|------|---------------|------------------------|-------------------------|--------------|------------|-----------|---------|---------|
| | (| Calculated Accumulated | Allocated Actual | Depreciation | Net Book F | Remaining | Annual | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 1966 | 1,086,391.15 | 1,069,627 | 1,251,412 | 1.1519 | 52,257 | 8.98 | 5,822 | 52.5 |
| 1970 | 8,044.40 | 7,565 | 8,851 | 1.1002 | 803 | 10.82 | 74 | 48.5 |
| 1971 | 18,005.73 | 16,713 | 19,554 | 1.0860 | 2,053 | 11.32 | 181 | 47.5 |
| 1972 | 4,225.53 | 3,869 | 4,526 | 1.0712 | 544 | 11.85 | 46 | 46.5 |
| 1976 | 1,809.24 | 1,557 | 1,822 | 1.0069 | 349 | 14.14 | 25 | 42.5 |
| 1977 | 2,658.13 | 2,248 | 2,631 | 0.9896 | 559 | 14.76 | 38 | 41.5 |
| 1978 | 122.93 | 102 | 119 | 0.9719 | 28 | 15.39 | 2 | 40.5 |
| 1981 | 7.50 | 6 | 7 | 0.9160 | 2 | 17.38 | 0 | 37.5 |
| 1986 | 3,413.47 | 2,379 | 2,783 | 0.8152 | 1,313 | 20.97 | 63 | 32.5 |
| 1987 | 84.97 | 58 | 67 | 0.7940 | 34 | 21.72 | 2 | 31.5 |
| 1988 | 15,177.96 | 10,022 | 11,725 | 0.7725 | 6,488 | 22.49 | 289 | 30.5 |
| 1990 | 7,026.13 | 4,375 | 5,119 | 0.7285 | 3,313 | 24.05 | 138 | 28.5 |
| 1991 | 805.75 | 486 | 569 | 0.7061 | 398 | 24.85 | 16 | 27.5 |
| 1993 | 510.97 | 288 | 337 | 0.6603 | 276 | 26.48 | 10 | 25.5 |
| 1994 | 4,189.75 | 2,281 | 2,669 | 0.6370 | 2,359 | 27.31 | 86 | 24.5 |
| 1996 | 654.99 | 330 | 386 | 0.5896 | 400 | 29.00 | 14 | 22.5 |
| 1997 | 34.74 | 17 | 20 | 0.5655 | 22 | 29.86 | 1 | 21.5 |
| 1998 | 627.93 | 290 | 340 | 0.5412 | 414 | 30.73 | 13 | 20.5 |
| 2003 | 73,092.92 | 25,980 | 30,395 | 0.4158 | 57,316 | 35.19 | 1,629 | 15.5 |
| 2013 | 227,018.27 | 29,294 | 34,273 | 0.1510 | 238,149 | 44.62 | 5,337 | 5.5 |
| 2015 | 87,276.30 | 7,189 | 8,411 | 0.0964 | 96,320 | 46.57 | 2,068 | 3.5 |
| 2018 | 4,556,013.47 | 53,828 | 62,976 | 0.0138 | 5,404,240 | 49.51 | 109,160 | 0.5 |

Account #: 367.0 - Transmission - Mains

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R3

ASL: 50

Net Salvage: -20%

| Year Original O | • | Allocated Actual Booked Amount 1,448,992 | Factor | Net Book F Value 5,867,638 | ALG Remaining Life | Annual Accrual 125,012 | Age |
|-----------------------|--------------------------------|--|--------|----------------------------------|--------------------------|------------------------------|-----|
| COMPOSITE ANNUAL AC | CRUAL RATE | | 2.05% | | | | |
| THEORETICAL ACCUMULA | ATED DEPRECIATION FACTOR | | 0.24 | | | | |
| COMPOSITE AVERAGE AC | GE (YEARS) | | 10.59 | | | | |
| DIRECTED WEIGHTED ALC | G COMPOSITE REMAINING LIFE (YE | EARS) | 41.54 | | | | |

Account #: 369.0 - Transmission - Meas. & Reg. Station Equip CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R0.5

Net Salvage: -10%

ASL: 40

| | | | • | Accumulated | | ALG | | |
|------|---------------|------------------------|-------------------------|--------------|------------|-----------|---------|---------|
| | (| Calculated Accumulated | Allocated Actual | Depreciation | Net Book 1 | Remaining | Annual | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 1966 | 31,450.57 | 24,478 | 32,148 | 1.0222 | 2,448 | 11.70 | 209 | 52.5 |
| 1967 | 2,421.95 | 1,857 | 2,439 | 1.0071 | 225 | 12.12 | 19 | 51.5 |
| 1970 | 3,945.54 | 2,886 | 3,791 | 0.9608 | 549 | 13.40 | 41 | 48.5 |
| 1972 | 1,939.04 | 1,372 | 1,802 | 0.9291 | 331 | 14.28 | 23 | 46.5 |
| 1975 | 467.11 | 313 | 411 | 0.8802 | 103 | 15.63 | 7 | 43.5 |
| 1976 | 1,565.23 | 1,029 | 1,352 | 0.8635 | 370 | 16.09 | 23 | 42.5 |
| 1978 | 3,150.24 | 1,990 | 2,613 | 0.8294 | 852 | 17.03 | 50 | 40.5 |
| 1982 | 913.24 | 528 | 693 | 0.7589 | 311 | 18.99 | 16 | 36.5 |
| 1983 | 451.82 | 255 | 335 | 0.7408 | 162 | 19.49 | 8 | 35.5 |
| 1984 | 233.70 | 129 | 169 | 0.7224 | 88 | 20.00 | 4 | 34.5 |
| 1987 | 602.12 | 305 | 401 | 0.6661 | 261 | 21.56 | 12 | 31.5 |
| 1988 | 3,731.27 | 1,838 | 2,414 | 0.6469 | 1,691 | 22.09 | 77 | 30.5 |
| 1991 | 26,085.44 | 11,682 | 15,343 | 0.5882 | 13,351 | 23.71 | 563 | 27.5 |
| 1992 | 3,977.45 | 1,721 | 2,260 | 0.5682 | 2,115 | 24.27 | 87 | 26.5 |
| 1993 | 9,293.25 | 3,879 | 5,094 | 0.5481 | 5,129 | 24.82 | 207 | 25.5 |
| 1994 | 46,177.86 | 18,560 | 24,376 | 0.5279 | 26,420 | 25.38 | 1,041 | 24.5 |
| 1995 | 771.37 | 298 | 391 | 0.5074 | 457 | 25.95 | 18 | 23.5 |
| 1996 | 40,220.96 | 14,910 | 19,582 | 0.4869 | 24,661 | 26.52 | 930 | 22.5 |
| 1997 | 5,766.13 | 2,047 | 2,688 | 0.4661 | 3,655 | 27.09 | 135 | 21.5 |
| 1998 | 1,757.64 | 596 | 783 | 0.4453 | 1,151 | 27.67 | 42 | 20.5 |
| 1999 | 237.00 | 77 | 101 | 0.4243 | 160 | 28.25 | 6 | 19.5 |
| 2003 | 18,967.71 | 4,902 | 6,438 | 0.3394 | 14,427 | 30.60 | 471 | 15.5 |
| 2010 | 352,403.98 | 50,465 | 66,278 | 0.1881 | 321,367 | 34.79 | 9,237 | 8.5 |
| 2012 | 121,221.49 | 13,317 | 17,490 | 0.1443 | 115,854 | 36.01 | 3,218 | 6.5 |
| 2013 | 13,188.03 | 1,228 | 1,613 | 0.1223 | 12,894 | 36.61 | 352 | 5.5 |
| 2014 | 23,250.17 | 1,774 | 2,330 | 0.1002 | 23,245 | 37.23 | 624 | 4.5 |
| 2015 | 95,971.70 | 5,705 | 7,492 | 0.0781 | 98,077 | 37.84 | 2,592 | 3.5 |
| 2017 | 35,526.76 | 907 | 1,192 | 0.0335 | 37,888 | 39.07 | 970 | 1.5 |

Account #: 369.0 - Transmission - Meas. & Reg. Station Equip

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R0.5

ASL: 40

Net Salvage: -10%

| | | | | Accumulated | | ALG | | |
|-----------|----------------------|----------------------------|-------------------------|--------------|------------|----------|---------|---------|
| | Ca | Iculated Accumulated | Allocated Actual | Depreciation | Net Book R | emaining | Annual | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 2018 | 30,981.86 | 263 | 346 | 0.0112 | 33,734 | 39.69 | 850 | 0.5 |
| TOTAL | 876,670.63 | 169,310 | 222,360 | | 741,978 | | 21,831 | |
| COMPOSIT | E ANNUAL ACCRUAL F | RATE | | 2.49% | | | | |
| THEORETIC | CAL ACCUMULATED DE | PRECIATION FACTOR | | 0.25 | | | | |
| COMPOSIT | E AVERAGE AGE (YEAR | RS) | | 11.86 | | | | |
| DIRECTED | WEIGHTED ALG COMP | OSITE REMAINING LIFE (YEAF | RS) | 32.98 | | | | |

Account #: 374.2 - Distribution - Rights of Way

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R2.5

ASL: 50

Net Salvage: 0%

| | | | | Accumulated | | ALG | | |
|------|---------------|------------------------|---------------|--------------|------------|-------|---------|---------|
| | | Calculated Accumulated | | Depreciation | Net Book F | _ | | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 1969 | 2,371.92 | 1,794 | 1,745 | 0.7358 | 627 | 12.18 | 51 | 49.5 |
| 1970 | 24.30 | 18 | 18 | 0.7266 | 7 | 12.66 | 1 | 48.5 |
| 1974 | 385.40 | 272 | 264 | 0.6862 | 121 | 14.73 | 8 | 44.5 |
| 1975 | 160.20 | 111 | 108 | 0.6753 | 52 | 15.29 | 3 | 43.5 |
| 1978 | 2,137.36 | 1,408 | 1,370 | 0.6407 | 768 | 17.07 | 45 | 40.5 |
| 1979 | 10.00 | 6 | 6 | 0.6287 | 4 | 17.69 | 0 | 39.5 |
| 1980 | 23.00 | 15 | 14 | 0.6163 | 9 | 18.32 | 0 | 38.5 |
| 1981 | 1,005.00 | 624 | 607 | 0.6037 | 398 | 18.97 | 21 | 37.5 |
| 1982 | 25.00 | 15 | 15 | 0.5909 | 10 | 19.63 | 1 | 36.5 |
| 1983 | 4.00 | 2 | 2 | 0.5778 | 2 | 20.30 | 0 | 35.5 |
| 1984 | 2.00 | 1 | 1 | 0.5645 | 1 | 20.99 | 0 | 34.5 |
| 1985 | 5,449.84 | 3,086 | 3,003 | 0.5509 | 2,447 | 21.68 | 113 | 33.5 |
| 1986 | 3.00 | 2 | 2 | 0.5372 | 1 | 22.39 | 0 | 32.5 |
| 1987 | 11.00 | 6 | 6 | 0.5232 | 5 | 23.11 | 0 | 31.5 |
| 1988 | 10.00 | 5 | 5 | 0.5090 | 5 | 23.84 | 0 | 30.5 |
| 1990 | 12.00 | 6 | 6 | 0.4800 | 6 | 25.33 | 0 | 28.5 |
| 1991 | 437.00 | 209 | 203 | 0.4653 | 234 | 26.09 | 9 | 27.5 |
| 1992 | 712.30 | 330 | 321 | 0.4503 | 392 | 26.86 | 15 | 26.5 |
| 1994 | 42.00 | 18 | 18 | 0.4198 | 24 | 28.42 | 1 | 24.5 |
| 1995 | 1,474.25 | 613 | 596 | 0.4043 | 878 | 29.22 | 30 | 23.5 |
| 1996 | 19.50 | 8 | 8 | 0.3886 | 12 | 30.02 | 0 | 22.5 |
| 1997 | 226.50 | 87 | 84 | 0.3728 | 142 | 30.84 | 5 | 21.5 |
| 1998 | 60.00 | 22 | 21 | 0.3568 | 39 | 31.66 | 1 | 20.5 |
| 1999 | 821.72 | 288 | 280 | 0.3406 | 542 | 32.49 | 17 | 19.5 |
| 2000 | 19.50 | 7 | 6 | 0.3243 | 13 | 33.33 | 0 | 18.5 |
| 2007 | 2,206.80 | 468 | 455 | 0.2061 | 1,752 | 39.41 | 44 | 11.5 |

Account #: 374.2 - Distribution - Rights of Way

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R2.5

ASL: 50

Net Salvage: 0%

| Year TOTAL | Cal Original Cost 17,653.59 | culated Accumulated Depreciation 9,420 | Allocated Actual Booked Amount 9,164 | Factor | Net Book F Value 8,490 | ALG Remaining Life | Annual Accrual 367 | Average Age |
|---------------|-----------------------------------|--|--|--------|------------------------------|--------------------------|--------------------------|----------------|
| COMPOSITE AN | INUAL ACCRUAL R | ATE | | 2.08% | | | | |
| THEORETICAL A | ACCUMULATED DE | PRECIATION FACTOR | | 0.52 | | | | |
| COMPOSITE AV | ERAGE AGE (YEAR | 25) | | 32.17 | | | | |
| DIRECTED WEIG | GHTED ALG COMP | OSITE REMAINING LIFE (Y | EARS) | 23.32 | | | | |

Account #: 376.0 - Distribution - Mains

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R3

ASL: 46

Net Salvage: -55%

| | | | | Accumulated | | ALG | | |
|------|---------------|------------------------|-------------------------|--------------|------------|-----------|---------|---------|
| | | Calculated Accumulated | Allocated Actual | Depreciation | Net Book R | Remaining | Annual | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 1960 | 45,803.96 | 63,522 | 66,726 | 1.4568 | 4,270 | 4.84 | 882 | 58.5 |
| 1966 | 697,534.02 | 924,707 | 971,342 | 1.3925 | 109,836 | 6.66 | 16,499 | 52.5 |
| 1967 | 1,444,112.87 | 1,897,287 | 1,992,972 | 1.3801 | 245,403 | 7.01 | 35,010 | 51.5 |
| 1968 | 51,903.66 | 67,544 | 70,951 | 1.3670 | 9,500 | 7.38 | 1,287 | 50.5 |
| 1969 | 90,216.31 | 116,220 | 122,082 | 1.3532 | 17,754 | 7.77 | 2,285 | 49.5 |
| 1970 | 52,379.30 | 66,757 | 70,123 | 1.3388 | 11,064 | 8.18 | 1,353 | 48.5 |
| 1971 | 23,383.75 | 29,465 | 30,951 | 1.3236 | 5,294 | 8.60 | 615 | 47.5 |
| 1972 | 39,320.22 | 48,952 | 51,420 | 1.3077 | 9,526 | 9.05 | 1,052 | 46.5 |
| 1973 | 51,155.81 | 62,877 | 66,048 | 1.2911 | 13,243 | 9.52 | 1,391 | 45.5 |
| 1974 | 23,853.32 | 28,925 | 30,383 | 1.2738 | 6,589 | 10.01 | 658 | 44.5 |
| 1975 | 191,246.91 | 228,615 | 240,144 | 1.2557 | 56,289 | 10.52 | 5,349 | 43.5 |
| 1976 | 49,770.53 | 58,604 | 61,560 | 1.2369 | 15,585 | 11.06 | 1,410 | 42.5 |
| 1977 | 16,775.42 | 19,441 | 20,422 | 1.2174 | 5,580 | 11.61 | 481 | 41.5 |
| 1978 | 57,222.86 | 65,215 | 68,504 | 1.1971 | 20,191 | 12.18 | 1,658 | 40.5 |
| 1979 | 64,184.26 | 71,871 | 75,496 | 1.1762 | 23,990 | 12.77 | 1,879 | 39.5 |
| 1980 | 43,224.25 | 47,513 | 49,909 | 1.1547 | 17,088 | 13.38 | 1,277 | 38.5 |
| 1981 | 83,851.41 | 90,400 | 94,959 | 1.1325 | 35,011 | 14.00 | 2,500 | 37.5 |
| 1982 | 35,946.91 | 37,974 | 39,889 | 1.1097 | 15,829 | 14.65 | 1,081 | 36.5 |
| 1983 | 109,575.77 | 113,314 | 119,028 | 1.0863 | 50,814 | 15.31 | 3,319 | 35.5 |
| 1984 | 109,651.40 | 110,891 | 116,484 | 1.0623 | 53,476 | 15.99 | 3,345 | 34.5 |
| 1985 | 995,540.48 | 983,562 | 1,033,166 | 1.0378 | 509,922 | 16.68 | 30,571 | 33.5 |
| 1986 | 217,049.82 | 209,266 | 219,820 | 1.0128 | 116,607 | 17.39 | 6,707 | 32.5 |
| 1987 | 174,683.41 | 164,174 | 172,454 | 0.9872 | 98,306 | 18.11 | 5,429 | 31.5 |
| 1988 | 110,089.22 | 100,741 | 105,821 | 0.9612 | 64,817 | 18.84 | 3,440 | 30.5 |
| 1989 | 61,216.79 | 54,476 | 57,224 | 0.9348 | 37,662 | 19.59 | 1,922 | 29.5 |
| 1990 | 88,993.70 | 76,915 | 80,794 | 0.9079 | 57,147 | 20.35 | 2,808 | 28.5 |
| 1991 | 219,197.68 | 183,736 | 193,002 | 0.8805 | 146,754 | 21.12 | 6,947 | 27.5 |
| 1992 | 200,426.18 | 162,701 | 170,906 | 0.8527 | 139,755 | 21.91 | 6,379 | 26.5 |

Account #: 376.0 - Distribution - Mains

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R3

ASL: 46

Net Salvage: -55%

| | | | | Accumulated | | ALG | | |
|------|---------------|-----------------------|---------------|--------------|------------|-------|---------|---------|
| | | alculated Accumulated | | Depreciation | Net Book R | _ | | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 1993 | 206,649.07 | 162,206 | 170,387 | 0.8245 | 149,919 | 22.71 | 6,603 | 25.5 |
| 1994 | 137,414.33 | 104,122 | 109,373 | 0.7959 | 103,619 | 23.51 | 4,407 | 24.5 |
| 1995 | 312,311.27 | 228,029 | 239,529 | 0.7670 | 244,553 | 24.33 | 10,051 | 23.5 |
| 1996 | 105,672.15 | 74,200 | 77,942 | 0.7376 | 85,849 | 25.16 | 3,412 | 22.5 |
| 1997 | 592,004.58 | 398,925 | 419,044 | 0.7078 | 498,563 | 26.00 | 19,174 | 21.5 |
| 1998 | 197,992.88 | 127,743 | 134,185 | 0.6777 | 172,704 | 26.85 | 6,432 | 20.5 |
| 1999 | 10,521.83 | 6,483 | 6,810 | 0.6473 | 9,498 | 27.71 | 343 | 19.5 |
| 2001 | 194,688.38 | 108,484 | 113,955 | 0.5853 | 187,812 | 29.46 | 6,374 | 17.5 |
| 2002 | 35,769.30 | 18,860 | 19,811 | 0.5539 | 35,632 | 30.35 | 1,174 | 16.5 |
| 2003 | 269,764.47 | 134,074 | 140,836 | 0.5221 | 277,299 | 31.25 | 8,874 | 15.5 |
| 2004 | 582,937.82 | 271,920 | 285,633 | 0.4900 | 617,920 | 32.16 | 19,216 | 14.5 |
| 2005 | 330,803.91 | 144,117 | 151,385 | 0.4576 | 361,361 | 33.07 | 10,927 | 13.5 |
| 2006 | 221,927.99 | 89,790 | 94,318 | 0.4250 | 249,670 | 33.99 | 7,345 | 12.5 |
| 2007 | 297,448.53 | 111,032 | 116,631 | 0.3921 | 344,414 | 34.92 | 9,862 | 11.5 |
| 2008 | 656,301.92 | 224,278 | 235,589 | 0.3590 | 781,679 | 35.86 | 21,799 | 10.5 |
| 2009 | 249,071.36 | 77,203 | 81,097 | 0.3256 | 304,964 | 36.80 | 8,287 | 9.5 |
| 2010 | 685,233.85 | 190,493 | 200,100 | 0.2920 | 862,012 | 37.75 | 22,835 | 8.5 |
| 2011 | 744,447.40 | 183,016 | 192,246 | 0.2582 | 961,647 | 38.70 | 24,846 | 7.5 |
| 2012 | 945,383.54 | 201,851 | 212,031 | 0.2243 | 1,253,314 | 39.66 | 31,599 | 6.5 |
| 2013 | 910,468.07 | 164,813 | 173,125 | 0.1901 | 1,238,101 | 40.63 | 30,474 | 5.5 |
| 2014 | 1,495,913.71 | 221,958 | 233,152 | 0.1559 | 2,085,515 | 41.60 | 50,137 | 4.5 |
| 2015 | 1,419,715.35 | 164,117 | 172,394 | 0.1214 | 2,028,165 | 42.57 | 47,644 | 3.5 |
| 2016 | 1,317,923.65 | 108,992 | 114,489 | 0.0869 | 1,928,293 | 43.55 | 44,282 | 2.5 |
| 2017 | 1,915,234.04 | 95,172 | 99,971 | 0.0522 | 2,868,641 | 44.53 | 64,427 | 1.5 |
| 2018 | 1,660,351.71 | 27,538 | 28,927 | 0.0174 | 2,544,618 | 45.51 | 55,916 | 0.5 |

Account #: 376.0 - Distribution - Mains

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R3

ASL: 46

Net Salvage: -55%

| Year TOTAL | Cal Original Cost 20,844,261.33 | culated Accumulated Depreciation 9,725,081 | Allocated Actual Booked Amount 10,215,541 | Factor | Net Book R Value 22,093,064 | ALG Remaining Life | Annual Accrual 663,973 | Age |
|---------------|---------------------------------------|--|---|--------|-----------------------------------|--------------------------|------------------------------|-----|
| COMPOSITE A | ANNUAL ACCRUAL R | ATE | | 3.19% | | | | |
| THEORETICAL | ACCUMULATED DE | PRECIATION FACTOR | | 0.49 | | | | |
| COMPOSITE A | AVERAGE AGE (YEAR | 25) | | 16.19 | | | | |
| DIRECTED WE | EIGHTED ALG COMP | OSITE REMAINING LIFE (YE | EARS) | 32.15 | | | | |

Account #: 379.0 - Distribution - Meas & Reg Station Equip - City Gate

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R3

ASL: 28

Net Salvage: -5%

| | | | | Accumulated | | ALG | | |
|-------|----------------------|------------------------|-------------------------|--------------|------------|-----------|---------|---------|
| | | Calculated Accumulated | Allocated Actual | Depreciation | Net Book F | Remaining | Annual | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 1977 | 260.06 | 259 | 231 | 0.8867 | 42 | 1.45 | 29 | 41.5 |
| 1985 | 30,649.26 | 28,088 | 25,018 | 0.8163 | 7,164 | 3.56 | 2,011 | 33.5 |
| 1995 | 285.91 | 213 | 190 | 0.6645 | 110 | 8.10 | 14 | 23.5 |
| 1997 | 31,122.11 | 21,715 | 19,342 | 0.6215 | 13,337 | 9.39 | 1,420 | 21.5 |
| 1998 | 59.59 | 40 | 36 | 0.5986 | 27 | 10.08 | 3 | 20.5 |
| 1999 | 18,075.06 | 11,667 | 10,392 | 0.5749 | 8,587 | 10.79 | 796 | 19.5 |
| 2004 | 32,490.96 | 16,265 | 14,488 | 0.4459 | 19,628 | 14.65 | 1,340 | 14.5 |
| 2009 | 6,781.83 | 2,298 | 2,047 | 0.3018 | 5,074 | 18.96 | 268 | 9.5 |
| 2011 | 24,489.78 | 6,619 | 5,896 | 0.2408 | 19,818 | 20.79 | 953 | 7.5 |
| 2012 | 200,929.99 | 47,282 | 42,115 | 0.2096 | 168,861 | 21.72 | 7,773 | 6.5 |
| 2015 | 92,705.87 | 11,879 | 10,581 | 0.1141 | 86,761 | 24.58 | 3,529 | 3.5 |
| 2017 | 51,799.19 | 2,861 | 2,548 | 0.0492 | 51,841 | 26.53 | 1,954 | 1.5 |
| TOTAL | 489,649.61 | 149,186 | 132,883 | | 381,249 | | 20,089 | |

| COMPOSITE ANNUAL ACCRUAL RATE | 4.10% |
|--|-------|
| THEORETICAL ACCUMULATED DEPRECIATION FACTOR | 0.27 |
| COMPOSITE AVERAGE AGE (YEARS) | 9.18 |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | 19.88 |

Account #: 380.0 - Distribution - Services

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R3

ASL: 39

Net Salvage: -75%

| | | | | Accumulated | | ALG | | |
|------|---------------|-----------------------|---------------|--------------|------------|-------|---------|---------|
| | | alculated Accumulated | | Depreciation | Net Book R | | | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 1966 | 138,135.89 | 220,989 | 241,738 | 1.7500 | 0 | 3.35 | 0 | 52.5 |
| 1967 | 347,586.73 | 552,019 | 608,277 | 1.7500 | 0 | 3.61 | 0 | 51.5 |
| 1968 | 43,351.96 | 68,342 | 75,866 | 1.7500 | 0 | 3.87 | 0 | 50.5 |
| 1969 | 49,268.53 | 77,075 | 86,220 | 1.7500 | 0 | 4.14 | 0 | 49.5 |
| 1970 | 73,241.60 | 113,673 | 127,179 | 1.7364 | 994 | 4.41 | 225 | 48.5 |
| 1971 | 54,978.22 | 84,619 | 94,672 | 1.7220 | 1,540 | 4.70 | 328 | 47.5 |
| 1972 | 69,506.35 | 106,042 | 118,641 | 1.7069 | 2,995 | 5.00 | 599 | 46.5 |
| 1973 | 64,525.59 | 97,527 | 109,114 | 1.6910 | 3,805 | 5.32 | 716 | 45.5 |
| 1974 | 43,650.05 | 65,320 | 73,081 | 1.6742 | 3,307 | 5.65 | 585 | 44.5 |
| 1975 | 37,037.14 | 54,836 | 61,351 | 1.6565 | 3,464 | 6.00 | 577 | 43.5 |
| 1976 | 34,445.09 | 50,419 | 56,409 | 1.6376 | 3,870 | 6.38 | 607 | 42.5 |
| 1977 | 18,007.46 | 26,037 | 29,131 | 1.6177 | 2,382 | 6.78 | 351 | 41.5 |
| 1978 | 71,259.46 | 101,689 | 113,771 | 1.5966 | 10,933 | 7.20 | 1,519 | 40.5 |
| 1979 | 140,813.28 | 198,133 | 221,674 | 1.5742 | 24,750 | 7.64 | 3,238 | 39.5 |
| 1980 | 144,575.60 | 200,383 | 224,191 | 1.5507 | 28,816 | 8.11 | 3,552 | 38.5 |
| 1981 | 148,862.32 | 203,028 | 227,150 | 1.5259 | 33,360 | 8.61 | 3,877 | 37.5 |
| 1982 | 97,025.32 | 130,073 | 145,527 | 1.4999 | 24,268 | 9.12 | 2,660 | 36.5 |
| 1983 | 91,559.83 | 120,520 | 134,839 | 1.4727 | 25,391 | 9.67 | 2,627 | 35.5 |
| 1984 | 108,587.43 | 140,175 | 156,829 | 1.4443 | 33,199 | 10.23 | 3,245 | 34.5 |
| 1985 | 328,371.77 | 415,227 | 464,560 | 1.4147 | 110,090 | 10.82 | 10,175 | 33.5 |
| 1986 | 194,613.17 | 240,755 | 269,360 | 1.3841 | 71,213 | 11.43 | 6,230 | 32.5 |
| 1987 | 182,639.41 | 220,768 | 246,997 | 1.3524 | 72,622 | 12.06 | 6,021 | 31.5 |
| 1988 | 178,115.71 | 210,091 | 235,052 | 1.3197 | 76,650 | 12.71 | 6,029 | 30.5 |
| 1989 | 181,975.84 | 209,165 | 234,016 | 1.2860 | 84,442 | 13.38 | 6,309 | 29.5 |
| 1990 | 193,042.90 | 215,918 | 241,572 | 1.2514 | 96,253 | 14.07 | 6,839 | 28.5 |
| 1991 | 208,220.14 | 226,289 | 253,175 | 1.2159 | 111,211 | 14.78 | 7,524 | 27.5 |
| 1992 | 209,227.82 | 220,598 | 246,807 | 1.1796 | 119,341 | 15.50 | 7,698 | 26.5 |
| 1993 | 236,889.30 | 241,903 | 270,643 | 1.1425 | 143,913 | 16.24 | 8,860 | 25.5 |

Account #: 380.0 - Distribution - Services

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R3

ASL: 39

Net Salvage: -75%

| | | | | Accumulated | | ALG | | |
|------|---------------|------------------------|---------------|--------------|------------|-------|---------|---------|
| | | Calculated Accumulated | | Depreciation | Net Book F | _ | | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 1994 | 230,568.46 | 227,645 | 254,692 | 1.1046 | 148,803 | 17.00 | 8,755 | 24.5 |
| 1995 | 220,806.22 | 210,387 | 235,383 | 1.0660 | 151,028 | 17.77 | 8,501 | 23.5 |
| 1996 | 228,073.50 | 209,295 | 234,161 | 1.0267 | 164,967 | 18.55 | 8,893 | 22.5 |
| 1997 | 288,056.50 | 254,040 | 284,222 | 0.9867 | 219,877 | 19.35 | 11,365 | 21.5 |
| 1998 | 352,436.88 | 297,999 | 333,404 | 0.9460 | 283,360 | 20.16 | 14,058 | 20.5 |
| 1999 | 95,410.35 | 77,150 | 86,316 | 0.9047 | 80,652 | 20.98 | 3,844 | 19.5 |
| 2001 | 184,559.24 | 135,287 | 151,360 | 0.8201 | 171,618 | 22.66 | 7,572 | 17.5 |
| 2002 | 201,742.18 | 140,095 | 156,740 | 0.7769 | 196,309 | 23.52 | 8,345 | 16.5 |
| 2003 | 189,367.94 | 124,096 | 138,839 | 0.7332 | 192,554 | 24.40 | 7,893 | 15.5 |
| 2004 | 181,134.37 | 111,526 | 124,776 | 0.6889 | 192,209 | 25.28 | 7,604 | 14.5 |
| 2005 | 206,441.65 | 118,832 | 132,950 | 0.6440 | 228,323 | 26.17 | 8,724 | 13.5 |
| 2006 | 172,419.77 | 92,259 | 103,221 | 0.5987 | 198,514 | 27.08 | 7,332 | 12.5 |
| 2007 | 165,174.01 | 81,613 | 91,310 | 0.5528 | 197,745 | 27.99 | 7,065 | 11.5 |
| 2008 | 261,506.93 | 118,392 | 132,458 | 0.5065 | 325,179 | 28.91 | 11,248 | 10.5 |
| 2009 | 173,960.70 | 71,491 | 79,985 | 0.4598 | 224,447 | 29.84 | 7,521 | 9.5 |
| 2010 | 343,711.20 | 126,775 | 141,837 | 0.4127 | 459,658 | 30.78 | 14,934 | 8.5 |
| 2011 | 370,713.33 | 120,996 | 135,371 | 0.3652 | 513,377 | 31.73 | 16,181 | 7.5 |
| 2012 | 1,034,990.04 | 293,551 | 328,428 | 0.3173 | 1,482,805 | 32.68 | 45,375 | 6.5 |
| 2013 | 967,574.55 | 232,791 | 260,449 | 0.2692 | 1,432,807 | 33.64 | 42,595 | 5.5 |
| 2014 | 1,389,654.78 | 274,175 | 306,750 | 0.2207 | 2,125,146 | 34.60 | 61,415 | 4.5 |
| 2015 | 1,390,604.71 | 213,849 | 239,257 | 0.1721 | 2,194,302 | 35.57 | 61,685 | 3.5 |
| 2016 | 1,607,638.04 | 176,926 | 197,946 | 0.1231 | 2,615,420 | 36.55 | 71,562 | 2.5 |
| 2017 | 1,687,763.83 | 111,644 | 124,909 | 0.0740 | 2,828,678 | 37.53 | 75,380 | 1.5 |
| 2018 | 1,356,768.71 | 29,961 | 33,520 | 0.0247 | 2,340,825 | 38.51 | 60,788 | 0.5 |

Account #: 380.0 - Distribution - Services

ALG - Remaining Life Survivor Curve: R3

ASL: 39

Net Salvage: -75%

Truncation Year:

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

| | | . Ista I Assault Ista I | Allered Adams | Accumulated | No. Dec. L. D | ALG | | |
|--------------|------------------|--------------------------|------------------|-------------|---------------|------|---------|-----|
| Varia | | culated Accumulated | Allocated Actual | | Net Book R | | Annual | 0 |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| TOTAL | 16,990,591.80 | 8,662,388 | 9,676,121 | _ | 20,057,414 | | 669,027 | |
| COMPOSITE A | NNUAL ACCRUAL R | ATE | | 3.94% | | | | |
| THEORETICAL | ACCUMULATED DE | PRECIATION FACTOR | | 0.57 | | | | |
| COMPOSITE A | VERAGE AGE (YEAR | S) | | 13.27 | | | | |
| DIRECTED WEI | GHTED ALG COMPO | OSITE REMAINING LIFE (YE | ARS) | 27.64 | | | | |

Account #: 385.0 - Distribution - Industrial Meas. & Reg. Station Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: S4

ASL: 40

Net Salvage: 0%

| | | | <i>I</i> | Accumulated | | ALG | | |
|-------|----------------------|----------------------|----------------------|--------------|------------|-----------|----------|---------|
| | Ca | Iculated Accumulated | Allocated Actual | Depreciation | Net Book F | Remaining | Annual A | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 1985 | 4,977.47 | 3,892 | 3,811 | 0.7656 | 1,167 | 8.72 | 134 | 33.5 |
| 2000 | 110.66 | 51 | 50 | 0.4526 | 61 | 21.51 | 3 | 18.5 |
| 2014 | 21,162.64 | 2,381 | 2,331 | 0.1102 | 18,831 | 35.50 | 530 | 4.5 |
| 2015 | 136,533.64 | 11,947 | 11,698 | 0.0857 | 124,836 | 36.50 | 3,420 | 3.5 |
| TOTAL | 162,784.41 | 18,270 | 17,890 | | 144,895 | | 4,087 | |

| COMPOSITE ANNUAL ACCRUAL RATE | 2.51% |
|--|-------|
| THEORETICAL ACCUMULATED DEPRECIATION FACTOR | 0.11 |
| COMPOSITE AVERAGE AGE (YEARS) | 4.56 |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | 35.51 |

Account #: 387.1 - Cathodic Protection Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R3

ASL: 25

Net Salvage: 0%

| | | | | Accumulated | | ALG | | |
|--|----------------------|----------------------|-------------------------|--------------|------------|-----------|----------|---------|
| | Ca | Iculated Accumulated | Allocated Actual | Depreciation | Net Book I | Remaining | Annual A | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 2000 | 5,307.90 | 3,426 | 3,164 | 0.5962 | 2,144 | 8.86 | 242 | 18.5 |
| 2015 | 3,927.21 | 536 | 495 | 0.1261 | 3,432 | 21.59 | 159 | 3.5 |
| TOTAL | 9,235.11 | 3,962 | 3,659 | | 5,576 | | 401 | |
| | | | | | | | | |
| COMPOSIT | E ANNUAL ACCRUAL R | ATE | | 4.34% | | | | |
| THEORETIC | AL ACCUMULATED DE | PRECIATION FACTOR | | 0.40 | | | | |
| COMPOSITE AVERAGE AGE (YEARS) | | | | 12.12 | | | | |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | | | EARS) | 14.27 | | | | |

Account #: 387.2 - Other Equipment

Survivor Curve: R3 ASL: 30

ALG - Remaining Life

Net Salvage: 0%

Truncation Year:

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

| | | | | Accumulated | | ALG | | |
|-------|----------------------|------------------------|-------------------------|--------------|----------|-----------|---------|---------|
| | | Calculated Accumulated | Allocated Actual | Depreciation | Net Book | Remaining | Annual | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 1972 | 51.96 | 50 | 52 | 1.0000 | 0 | 1.07 | 0 | 46.5 |
| 1985 | 11,446.52 | 9,688 | 11,447 | 1.0000 | 0 | 4.61 | 0 | 33.5 |
| TOTAL | 11,498.48 | 9,738 | 11,498 | | 0 | | 0 | |

| COMPOSITE ANNUAL ACCRUAL RATE | 0.00% |
|--|-------|
| THEORETICAL ACCUMULATED DEPRECIATION FACTOR | 1.00 |
| COMPOSITE AVERAGE AGE (YEARS) | 33.56 |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | 4.59 |

Account #: 390.0 - General Structures & Improvements

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R4

ASL: 45

Net Salvage: 0%

| | | | | Accumulated | | ALG | | |
|------|---------------|------------------------|---------------|--------------|------------|-------|---------|---------|
| | | Calculated Accumulated | | Depreciation | Net Book I | _ | | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 1966 | 162.04 | 148 | 162 | 1.0000 | 0 | 3.89 | 0 | 52.5 |
| 1967 | 63,684.77 | 57,764 | 63,685 | 1.0000 | 0 | 4.18 | 0 | 51.5 |
| 1971 | 1,043.27 | 915 | 1,043 | 1.0000 | 0 | 5.54 | 0 | 47.5 |
| 1972 | 3,961.15 | 3,439 | 3,961 | 1.0000 | 0 | 5.93 | 0 | 46.5 |
| 1973 | 5,277.90 | 4,531 | 5,278 | 1.0000 | 0 | 6.36 | 0 | 45.5 |
| 1974 | 15,038.59 | 12,756 | 15,039 | 1.0000 | 0 | 6.83 | 0 | 44.5 |
| 1975 | 1,406.22 | 1,177 | 1,406 | 1.0000 | 0 | 7.33 | 0 | 43.5 |
| 1978 | 450.00 | 360 | 446 | 0.9905 | 4 | 9.04 | 0 | 40.5 |
| 1980 | 394.59 | 304 | 377 | 0.9549 | 18 | 10.34 | 2 | 38.5 |
| 1982 | 3,395.31 | 2,512 | 3,114 | 0.9173 | 281 | 11.70 | 24 | 36.5 |
| 1983 | 1,470.36 | 1,065 | 1,320 | 0.8979 | 150 | 12.41 | 12 | 35.5 |
| 1985 | 71,695.66 | 49,603 | 61,489 | 0.8576 | 10,206 | 13.87 | 736 | 33.5 |
| 1989 | 71,935.28 | 44,783 | 55,515 | 0.7717 | 16,421 | 16.99 | 967 | 29.5 |
| 1990 | 97,496.83 | 58,918 | 73,036 | 0.7491 | 24,461 | 17.81 | 1,374 | 28.5 |
| 1991 | 5,549.42 | 3,250 | 4,029 | 0.7261 | 1,520 | 18.64 | 82 | 27.5 |
| 1993 | 3,055.00 | 1,673 | 2,073 | 0.6787 | 982 | 20.36 | 48 | 25.5 |
| 1995 | 2,965.78 | 1,507 | 1,868 | 0.6298 | 1,098 | 22.14 | 50 | 23.5 |
| 1996 | 8,137.66 | 3,971 | 4,923 | 0.6049 | 3,215 | 23.04 | 140 | 22.5 |
| 2000 | 124,502.78 | 50,444 | 62,532 | 0.5023 | 61,971 | 26.77 | 2,315 | 18.5 |
| 2001 | 17,578.74 | 6,750 | 8,367 | 0.4760 | 9,211 | 27.72 | 332 | 17.5 |
| 2002 | 9,172.24 | 3,326 | 4,123 | 0.4495 | 5,049 | 28.68 | 176 | 16.5 |
| 2003 | 1,099.87 | 375 | 465 | 0.4229 | 635 | 29.65 | 21 | 15.5 |
| 2004 | 6,757.20 | 2,159 | 2,677 | 0.3962 | 4,080 | 30.62 | 133 | 14.5 |
| 2006 | 236,333.38 | 65,252 | 80,888 | 0.3423 | 155,445 | 32.58 | 4,772 | 12.5 |
| 2008 | 954,062.70 | 221,634 | 274,745 | 0.2880 | 679,318 | 34.55 | 19,664 | 10.5 |
| 2010 | 76,867.95 | 14,473 | 17,942 | 0.2334 | 58,926 | 36.53 | 1,613 | 8.5 |
| 2012 | 218,292.29 | 31,459 | 38,997 | 0.1786 | 179,295 | 38.51 | 4,655 | 6.5 |
| 2014 | 38,164.50 | 3,810 | 4,723 | 0.1238 | 33,441 | 40.51 | 826 | |

Account #: 390.0 - General Structures & Improvements

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R4

ASL: 45

Net Salvage: 0%

| | | | | Accumulated | | ALG | | |
|-------|----------------------|------------------------|----------------------|--------------|------------|-----------|----------|---------|
| | | Calculated Accumulated | Allocated Actual | Depreciation | Net Book F | Remaining | Annual A | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 2015 | 18,348.29 | 1,425 | 1,767 | 0.0963 | 16,582 | 41.50 | 400 | 3.5 |
| 2016 | 4,336.44 | 241 | 298 | 0.0688 | 4,038 | 42.50 | 95 | 2.5 |
| 2017 | 363,738.11 | 12,111 | 15,013 | 0.0413 | 348,725 | 43.50 | 8,016 | 1.5 |
| 2018 | 78,332.27 | 869 | 1,078 | 0.0138 | 77,255 | 44.50 | 1,736 | 0.5 |
| TOTAL | 2,504,706.59 | 663,003 | 812,380 | | 1,692,327 | | 48,189 | |

| COMPOSITE ANNUAL ACCRUAL RATE | 1.92% |
|--|-------|
| THEORETICAL ACCUMULATED DEPRECIATION FACTOR | 0.32 |
| COMPOSITE AVERAGE AGE (YEARS) | 12.47 |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | 33.09 |

Account #: 391.1 - Office Furniture & Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: SQ

ASL: 16

Net Salvage: 0%

| | | | | Accumulated | | ALG | | |
|-------|----------------------|------------------------|-------------------------|--------------|------------|-----------|----------|---------|
| | C | Calculated Accumulated | Allocated Actual | Depreciation | Net Book R | Remaining | Annual A | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 2003 | 8,738.97 | 8,466 | 8,406 | 0.9619 | 333 | 0.50 | 333 | 15.5 |
| 2004 | 548.36 | 497 | 493 | 0.8998 | 55 | 1.50 | 37 | 14.5 |
| 2005 | 8,405.76 | 7,092 | 7,042 | 0.8378 | 1,364 | 2.50 | 546 | 13.5 |
| 2006 | 1,020.83 | 798 | 792 | 0.7757 | 229 | 3.50 | 65 | 12.5 |
| 2007 | 29,164.21 | 20,962 | 20,813 | 0.7137 | 8,351 | 4.50 | 1,856 | 11.5 |
| 2008 | 15,785.78 | 10,359 | 10,286 | 0.6516 | 5,500 | 5.50 | 1,000 | 10.5 |
| 2009 | 1,449.56 | 861 | 855 | 0.5895 | 595 | 6.50 | 92 | 9.5 |
| 2010 | 2,389.63 | 1,269 | 1,260 | 0.5275 | 1,129 | 7.50 | 151 | 8.5 |
| 2011 | 5,149.75 | 2,414 | 2,397 | 0.4654 | 2,753 | 8.50 | 324 | 7.5 |
| 2012 | 5,179.29 | 2,104 | 2,089 | 0.4034 | 3,090 | 9.50 | 325 | 6.5 |
| 2014 | 8,457.23 | 2,379 | 2,362 | 0.2793 | 6,095 | 11.50 | 530 | 4.5 |
| 2017 | 1,440.54 | 135 | 134 | 0.0931 | 1,306 | 14.50 | 90 | 1.5 |
| 2018 | 1,575.24 | 49 | 49 | 0.0310 | 1,526 | 15.50 | 98 | 0.5 |
| TOTAL | 89,305.15 | 57,385 | 56,978 | | 32,327 | | 5,446 | |

| COMPOSITE ANNUAL ACCRUAL RATE | 6.10% |
|--|-------|
| THEORETICAL ACCUMULATED DEPRECIATION FACTOR | 0.64 |
| COMPOSITE AVERAGE AGE (YEARS) | 10.28 |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | 5.72 |

Account #: 391.3 - Computer & Electronic Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: SQ

ASL: 4

Net Salvage: 0%

| | C | alculated Accumulated | Allocated Actual | Accumulated | Net Book F | ALG | Annual A | ∆verage |
|-------|---------------|-----------------------|------------------|-------------|------------|------|----------|---------|
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 2013 | 0.00 | 0 | 0 | 0.9247 | 0 | 0.00 | 0 | 6.5 |
| 2014 | 40,270.58 | 40,271 | 37,240 | 0.9247 | 3,031 | 0.00 | 3,031 | 5.5 |
| 2015 | 61,616.92 | 53,915 | 49,857 | 0.8091 | 11,760 | 0.50 | 11,760 | 3.5 |
| 2017 | 3,179.47 | 1,192 | 1,103 | 0.3468 | 2,077 | 2.50 | 831 | 1.5 |
| TOTAL | 105,066.97 | 95,378 | 88,199 | | 16,868 | | 15,622 | |

| COMPOSITE ANNUAL ACCRUAL RATE | 14.87% |
|--|--------|
| THEORETICAL ACCUMULATED DEPRECIATION FACTOR | 0.84 |
| COMPOSITE AVERAGE AGE (YEARS) | 4.21 |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | 0.37 |

Account #: 392.1 - Transportation Equipment - Trailers

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: R1

ASL: 12

Net Salvage: 10%

| | | | | Accumulated | | ALG | | |
|-------|----------------------|-------------------------------|-------------------------|--------------|------------|-----------|----------|---------|
| | | Calculated Accumulated | Allocated Actual | Depreciation | Net Book 1 | Remaining | Annual A | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 1992 | 700.00 | 630 | 630 | 0.9000 | 0 | 0.00 | 0 | 27.5 |
| 1999 | 6,925.30 | 5,455 | 6,233 | 0.9000 | 0 | 1.50 | 0 | 19.5 |
| 2008 | 6,263.88 | 3,206 | 5,637 | 0.9000 | 0 | 5.18 | 0 | 10.5 |
| 2011 | 8,459.68 | 3,242 | 7,614 | 0.9000 | 0 | 6.89 | 0 | 7.5 |
| TOTAL | 22,348.86 | 12,533 | 20,114 | | 0 | | 0 | |

^{**} Actual Booked Reserve Exceeds Original Cost Adjusted for Net Salvage **

| COMPOSITE ANNUAL ACCRUAL RATE | 0.00% |
|--|-------|
| THEORETICAL ACCUMULATED DEPRECIATION FACTOR | 1.04 |
| COMPOSITE AVERAGE AGE (YEARS) | 12.69 |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | 4.52 |

Account #: 392.2 - Transportation Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: L2

ASL: 7

Net Salvage: 20%

| | | | | Accumulated | | ALG | | |
|-------|---------------|-------------------------------|-------------------------|--------------|----------|-----------|---------|---------|
| | | Calculated Accumulated | Allocated Actual | Depreciation | Net Book | Remaining | Annual | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 2001 | 4,102.12 | 3,006 | 3,282 | 0.8000 | 0 | 0.59 | 0 | 17.5 |
| 2002 | 4,633.79 | 3,325 | 3,707 | 0.8000 | 0 | 0.72 | 0 | 16.5 |
| 2006 | 2,792.17 | 1,773 | 2,234 | 0.8000 | 0 | 1.44 | 0 | 12.5 |
| 2008 | 6,139.41 | 3,583 | 4,587 | 0.7472 | 324 | 1.89 | 171 | 10.5 |
| 2009 | 55,523.57 | 30,850 | 39,498 | 0.7114 | 4,921 | 2.14 | 2,301 | 9.5 |
| 2010 | 113,646.46 | 59,919 | 76,716 | 0.6750 | 14,201 | 2.39 | 5,950 | 8.5 |
| 2011 | 80,684.95 | 40,308 | 51,608 | 0.6396 | 12,940 | 2.63 | 4,923 | 7.5 |
| 2012 | 168,795.26 | 79,717 | 102,064 | 0.6047 | 32,972 | 2.87 | 11,498 | 6.5 |
| 2013 | 160,107.38 | 70,756 | 90,591 | 0.5658 | 37,495 | 3.13 | 11,967 | 5.5 |
| 2014 | 40,184.30 | 16,148 | 20,675 | 0.5145 | 11,472 | 3.48 | 3,293 | 4.5 |
| 2015 | 343,742.27 | 118,100 | 151,207 | 0.4399 | 123,787 | 3.99 | 30,995 | 3.5 |
| 2016 | 183,547.73 | 48,102 | 61,586 | 0.3355 | 85,252 | 4.71 | 18,112 | 2.5 |
| 2017 | 68,665.13 | 11,312 | 14,483 | 0.2109 | 40,449 | 5.56 | 7,277 | 1.5 |
| 2018 | 235,463.77 | 13,375 | 17,124 | 0.0727 | 171,247 | 6.50 | 26,334 | 0.5 |
| TOTAL | 1,468,028.31 | 500,274 | 639,362 | | 535,060 | | 122,821 | |

| COMPOSITE ANNUAL ACCRUAL RATE | 8.37% |
|--|-------|
| THEORETICAL ACCUMULATED DEPRECIATION FACTOR | 0.44 |
| COMPOSITE AVERAGE AGE (YEARS) | 4.35 |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | 4.02 |

Account #: 394.0 - Tools, Shop, & Garage Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: SQ

ASL: 20

Net Salvage: 0%

| | | | | Accumulated | | ALG | | |
|-------|----------------------|----------------------|-------------------------|--------------|----------|-----------|---------|---------|
| | Ca | Iculated Accumulated | Allocated Actual | Depreciation | Net Book | Remaining | Annual | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 2000 | 53,370.43 | 49,368 | 48,698 | 0.9125 | 4,672 | 1.50 | 3,115 | 18.5 |
| 2001 | 19,329.73 | 16,914 | 16,684 | 0.8631 | 2,646 | 2.50 | 1,058 | 17.5 |
| 2002 | 22,549.99 | 18,604 | 18,352 | 0.8138 | 4,198 | 3.50 | 1,199 | 16.5 |
| 2003 | 43,960.29 | 34,069 | 33,607 | 0.7645 | 10,353 | 4.50 | 2,301 | 15.5 |
| 2004 | 16,735.02 | 12,133 | 11,968 | 0.7152 | 4,767 | 5.50 | 867 | 14.5 |
| 2005 | 33,532.87 | 22,635 | 22,328 | 0.6658 | 11,205 | 6.50 | 1,724 | 13.5 |
| 2006 | 17,480.80 | 10,926 | 10,777 | 0.6165 | 6,703 | 7.50 | 894 | 12.5 |
| 2007 | 13,031.67 | 7,493 | 7,392 | 0.5672 | 5,640 | 8.50 | 664 | 11.5 |
| 2008 | 13,260.15 | 6,962 | 6,867 | 0.5179 | 6,393 | 9.50 | 673 | 10.5 |
| 2009 | 10,100.22 | 4,798 | 4,733 | 0.4686 | 5,368 | 10.50 | 511 | 9.5 |
| 2010 | 17,250.11 | 7,331 | 7,232 | 0.4192 | 10,018 | 11.50 | 871 | 8.5 |
| 2011 | 33,124.55 | 12,422 | 12,253 | 0.3699 | 20,871 | 12.50 | 1,670 | 7.5 |
| 2012 | 61,302.98 | 19,923 | 19,653 | 0.3206 | 41,650 | 13.50 | 3,085 | 6.5 |
| 2013 | 12,834.35 | 3,529 | 3,482 | 0.2713 | 9,353 | 14.50 | 645 | 5.5 |
| 2014 | 51,798.37 | 11,655 | 11,497 | 0.2219 | 40,302 | 15.50 | 2,600 | 4.5 |
| 2015 | 20,004.03 | 3,501 | 3,453 | 0.1726 | 16,551 | 16.50 | 1,003 | 3.5 |
| 2016 | 56,019.22 | 7,002 | 6,907 | 0.1233 | 49,112 | 17.50 | 2,806 | 2.5 |
| 2017 | 132,584.87 | 9,944 | 9,809 | 0.0740 | 122,776 | 18.50 | 6,637 | 1.5 |
| 2018 | 129,526.61 | 3,238 | 3,194 | 0.0247 | 126,332 | 19.50 | 6,479 | 0.5 |
| TOTAL | 757,796.26 | 262,445 | 258,887 | | 498,909 | | 38,801 | |

| COMPOSITE ANNUAL ACCRUAL RATE | 5.12% |
|--|-------|
| THEORETICAL ACCUMULATED DEPRECIATION FACTOR | 0.34 |
| COMPOSITE AVERAGE AGE (YEARS) | 6.93 |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | 13.07 |

Account #: 396.1 - Power Operated Equipment - Trailers

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: LO

ASL: 6

Net Salvage: 65%

| | | | | Accumulated | | ALG | | |
|-------|----------------------|------------------------|-------------------------|--------------|------------|-----------|---------|---------|
| | | Calculated Accumulated | Allocated Actual | Depreciation | Net Book I | Remaining | Annual | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 2000 | 7,412.60 | 2,145 | 2,594 | 0.3500 | 0 | 1.04 | 0 | 18.5 |
| 2004 | 9,301.37 | 2,381 | 3,255 | 0.3500 | 0 | 1.61 | 0 | 14.5 |
| 2007 | 7,804.77 | 1,755 | 2,732 | 0.3500 | 0 | 2.14 | 0 | 11.5 |
| 2014 | 37,278.87 | 4,497 | 10,604 | 0.2845 | 2,443 | 3.93 | 621 | 4.5 |
| 2015 | 34,284.94 | 3,441 | 8,114 | 0.2367 | 3,885 | 4.28 | 908 | 3.5 |
| 2016 | 19,241.60 | 1,505 | 3,550 | 0.1845 | 3,184 | 4.66 | 683 | 2.5 |
| 2017 | 29,786.93 | 1,577 | 3,719 | 0.1248 | 6,707 | 5.09 | 1,317 | 1.5 |
| 2018 | 12,915.93 | 274 | 646 | 0.0500 | 3,875 | 5.64 | 687 | 0.5 |
| TOTAL | 158,027.01 | 17,575 | 35,215 | | 20,095 | ' | 4,217 | |

| COMPOSITE ANNUAL ACCRUAL RATE | 2.67% |
|--|-------|
| THEORETICAL ACCUMULATED DEPRECIATION FACTOR | 0.22 |
| COMPOSITE AVERAGE AGE (YEARS) | 4.74 |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | 4.09 |

Account #: 396.2 - Power Operated Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: LO

ASL: 6

Net Salvage: 65%

| | | | | Accumulated | | ALG | | |
|-------|----------------------|-----------------------|-------------------------|--------------|------------|-----------|---------|---------|
| | Ca | alculated Accumulated | Allocated Actual | Depreciation | Net Book F | Remaining | Annual | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 2000 | 21,036.03 | 6,086 | 7,363 | 0.3500 | 0 | 1.04 | 0 | 18.5 |
| 2002 | 63,703.74 | 17,432 | 22,296 | 0.3500 | 0 | 1.31 | 0 | 16.5 |
| 2003 | 31,682.86 | 8,398 | 11,089 | 0.3500 | 0 | 1.46 | 0 | 15.5 |
| 2008 | 1,288.66 | 275 | 451 | 0.3500 | 0 | 2.35 | 0 | 10.5 |
| 2010 | 94,653.37 | 17,688 | 33,129 | 0.3500 | 0 | 2.80 | 0 | 8.5 |
| 2013 | 40,246.50 | 5,604 | 14,086 | 0.3500 | 0 | 3.61 | 0 | 5.5 |
| 2014 | 116,998.71 | 14,113 | 40,950 | 0.3500 | 0 | 3.93 | 0 | 4.5 |
| 2015 | 5,530.18 | 555 | 1,936 | 0.3500 | 0 | 4.28 | 0 | 3.5 |
| 2016 | 82,156.30 | 6,428 | 23,258 | 0.2831 | 5,497 | 4.66 | 1,180 | 2.5 |
| 2017 | 303,700.32 | 16,079 | 58,176 | 0.1916 | 48,119 | 5.09 | 9,449 | 1.5 |
| 2018 | 402,909.96 | 8,542 | 30,908 | 0.0767 | 110,111 | 5.64 | 19,535 | 0.5 |
| TOTAL | 1,163,906.63 | 101,201 | 243,640 | | 163,727 | | 30,164 | |

| COMPOSITE ANNUAL ACCRUAL RATE | 2.59% |
|--|-------|
| THEORETICAL ACCUMULATED DEPRECIATION FACTOR | 0.21 |
| COMPOSITE AVERAGE AGE (YEARS) | 3.76 |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | 4.51 |

Account #: 397.0 - Communications Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: SQ

ASL: 18

Net Salvage: 0%

| | | | | Accumulated | | ALG | | |
|-------|----------------------|------------------------|-------------------------|--------------|------------|-----------|----------|---------|
| | (| Calculated Accumulated | Allocated Actual | Depreciation | Net Book F | Remaining | Annual A | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 2000 | 0.00 | 0 | 0 | 1.0000 | 0 | 0.00 | 0 | 19.5 |
| 2001 | 7,624.07 | 7,412 | 7,443 | 0.9762 | 182 | 0.50 | 182 | 17.5 |
| 2002 | 11,369.56 | 10,422 | 10,465 | 0.9204 | 905 | 1.50 | 603 | 16.5 |
| 2003 | 5,701.24 | 4,909 | 4,929 | 0.8646 | 772 | 2.50 | 309 | 15.5 |
| 2004 | 183,273.60 | 147,637 | 148,240 | 0.8088 | 35,034 | 3.50 | 10,010 | 14.5 |
| 2008 | 15,081.38 | 8,797 | 8,833 | 0.5857 | 6,248 | 7.50 | 833 | 10.5 |
| 2010 | 9,894.78 | 4,673 | 4,692 | 0.4742 | 5,203 | 9.50 | 548 | 8.5 |
| 2012 | 65,462.99 | 23,639 | 23,736 | 0.3626 | 41,727 | 11.50 | 3,628 | 6.5 |
| 2015 | 25,684.88 | 4,994 | 5,015 | 0.1952 | 20,670 | 14.50 | 1,426 | 3.5 |
| 2016 | 10,732.81 | 1,491 | 1,497 | 0.1395 | 9,236 | 15.50 | 596 | 2.5 |
| 2018 | 22,857.33 | 635 | 638 | 0.0279 | 22,220 | 17.50 | 1,270 | 0.5 |
| TOTAL | 357,682.64 | 214,610 | 215,486 | | 142,196 | | 19,404 | |

| COMPOSITE ANNUAL ACCRUAL RATE | 5.42% |
|--|-------|
| THEORETICAL ACCUMULATED DEPRECIATION FACTOR | 0.60 |
| COMPOSITE AVERAGE AGE (YEARS) | 10.80 |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | 7.20 |

Account #: 398.0 - Miscellaneous Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF DECEMBER 31, 2018

ALG - Remaining Life

Survivor Curve: SQ

ASL: 25

Net Salvage: 0%

| | | | A | Accumulated | | ALG | | |
|-------|----------------------|----------------------|----------------------|--------------|------------|----------|----------|---------|
| | Ca | Iculated Accumulated | Allocated Actual [| Depreciation | Net Book R | emaining | Annual A | Average |
| Year | Original Cost | Depreciation | Booked Amount | Factor | Value | Life | Accrual | Age |
| 2006 | 8,332.68 | 4,166 | 3,837 | 0.4605 | 4,495 | 12.50 | 360 | 12.5 |
| 2008 | 43,005.89 | 18,062 | 16,636 | 0.3868 | 26,370 | 14.50 | 1,819 | 10.5 |
| 2018 | 2,320.86 | 46 | 43 | 0.0184 | 2,278 | 24.50 | 93 | 0.5 |
| TOTAL | 53,659.43 | 22,275 | 20,516 | | 33,143 | | 2,271 | |

| COMPOSITE ANNUAL ACCRUAL RATE | 4.23% |
|--|-------|
| THEORETICAL ACCUMULATED DEPRECIATION FACTOR | 0.38 |
| COMPOSITE AVERAGE AGE (YEARS) | 10.38 |
| DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) | 14.62 |



5.1 GPNG Supplemental Tables

Table 2 - 2018 Gas Plant in Service Activity

| Row Labels | Sum of beginning_balance | Sum of additions | Sum of retirements | Sum of total transfers | Sum of ending_balance |
|-------------------------------------|--------------------------|------------------|--------------------|------------------------|---|
| Gas Distribution | | | | | |
| 374-G-Land | 2,978.43 | - | - | - | 2,978.4 |
| 374-G-Land Rights | 17,653.59 | - | - | - | 17,653.59 |
| 375-G-Structures & Improvements | 32,251.03 | 2,608.80 | - | - | 34,859.83 |
| 376-G-Mains | 19,426,616.47 | 1,589,215.57 | (171,570.69) | - | 20,844,261.35 |
| 378-G-Measure/Regulation Distributi | 511,305.30 | | (12,082.28) | 10,807.57 | |
| 379-G-Measure/Regulation City Gate | 484,883.13 | 4,766.48 | - | | 489,649.61 |
| 380-G-Services | 15,937,760.04 | 1,305,372.77 | (252,541.01) | - | 16,990,591.80 |
| 381-G-Meters | 6,438,021.48 | 331,131.19 | (65,745.27) | | |
| 382-G-Meter Set Installation | - | - | - | - | - |
| 383-G-Service Regulators | 774,938.60 | 91,919.80 | (68,558.25) | 167,129.26 | |
| 385-G-Industrial Meas. & Reg Stn Eq | 162,784.41 | - | - | - | 162,784.41 |
| 387-G-Cathodic Protection Equipment | 9,235.11 | - | - | - | 9,235.11 |
| 387-G-Other Distribution Equipment | 11,498.48 | _ | _ | _ | 11,498.48 |
| Gas Distribution Total | 43,809,926.07 | 3,330,522.79 | (570,497.50) | 702,963.05 | |
| Gas General | 45,565,525.67 | 3,030,322.73 | (570)-157150) | 702,300103 | 47)272,52444 |
| 389-G-Land & Land Rights | 48.658.66 | - | - | - | 48,658.66 |
| 390-G-Structures & Improvements | 2,528,697.41 | 78,332.27 | (102,323.09) | | 2,504,706.59 |
| 391-G-Comp Equip-Server & Workstati | 61.616.92 | | (102,523.09) | | |
| 391-G-Comp. Equip-Mainframe & Other | 01,010.92 | 5,1/9.4/ | (10,309.20) | 50,059.00 | 105,006.97 |
| 391-G-Office Furn & Equip | 95.317.30 | 1.629.39 | (7,641.54) | | 89,305.15 |
| 392-G-Trailers | 31,167.46 | 1,029.59 | (8,818.60) | - | 22,348.86 |
| 392-G-Transportation Equipment | 1,380,893,11 | 238.713.78 | (151,578.58) | | 1,468,028.31 |
| 393-G-Stores Equipment | 1,380,893.11 | 238,/13./8 | (151,578.58) | - | 1,468,028.3 |
| | 628.269.65 | 129.526.61 | - | - | 757,796.26 |
| 394-G-Tools,Shop,Garage Equip | 628,269.65 | 129,526.61 | - | - | · |
| 395-G-Laboratory Equipment | | | | | - |
| 396-G-Power Operated Equipment | 1,101,925.10 | | (314,068.15) | | 1,163,906.63 |
| 396-G-Trailers-Work Equipment | 151,442.09 | 12,915.93 | (6,331.01) | - | 158,027.01 |
| 397-G-Network Equipment | 100,500.50 | - | · · | | 100,500.50 |
| 397-G-Radio Comm Equip-Fixed | 116,257.41 | 22,857.33 | (3,457.13) | | 135,657.61 |
| 397-G-Radio Comm Equip-Mobile | 59,341.35 | | - | 10,732.81 | • |
| 397-G-Scada System | - | - | - | - | · . |
| 397-G-Telephone & Telex Equip | 27,483.58 | - | (1,718.09) | | |
| 398-G-Miscellaneous Equipment | 51,338.57 | - | = | 2,320.86 | |
| Gas General Total | 6,382,909.11 | 863,204.46 | (614,525.47) | 97,598.41 | 6,729,186.51 |
| Gas Intangible | | | | | |
| 301-G-Organization | 5,006.20 | - | - | - | 5,006.20 |
| 302-G-Franchises | 73,680.11 | - | - | - | 73,680.11 |
| 303-G-Misc. Intangible Plant | 2,783,783.00 | 969.48 | - | - | 2,784,752.48 |
| Gas Intangible Total | 2,862,469.31 | 969.48 | - | - | 2,863,438.79 |
| Gas Manuf. Production | | | | | |
| 304-G-Gas-Land and Land Rights | - | - | - | - | - |
| 305-G-Structures And Improvements | - | - | = | - | - |
| 311-G-Liquified Petro. Propane | | - | - | - | - |
| 320-G-Other Gas Production | = | = | = | = | - |
| Gas Manuf. Production Total | - | - | - | - | - |
| Gas Transmission | | | | | |
| 365-G-Land | 5,584.70 | - | - | - | 5,584.70 |
| 365-G-Land Rights | 158,152.03 | - | - | - | 158,152.03 |
| 366-G-Structures | - | 16,682.51 | - | | 16,682.53 |
| 367-G-Mains | 1,541,178.78 | 4,556,013.47 | - | - | 6,097,192.25 |
| 369-G-Measuring/Regulating Equipmen | 855,907.98 | 31,570.22 | - | (10,807.57 | |
| Gas Transmission Total | 2,560,823.49 | 4,604,266.20 | | (10,807.57 | · |
| Non-Utility | 2,300,023.43 | -,,00-,,200.20 | | (10,007.57 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| 394-N-Tools,Shop,Garage Equip | | | | | |
| Non-Utility Total | <u>-</u> | - | | | |
| 10101 | | | (1,185,022.97) | | |

GPNG ACCOUNT #1082 & 1112-Base Reserve Only* TABLE 3 - SCHEDULE OF ACCUMULATED PROVISION FOR DEPRECIATION FOR THE 12 MONTH PERIOD ENDED DECEMBER 31, 2018

| RC | Account Description | Balance 01-01-18 | Reclass/ Transfers | Original Cost of Retirements | Removal Cost | Salvage | Deprec. Provision | Reimb. | ARO Depr Reg Asset | Gain/ Loss | Adjs. | GPNG 12/31/2018 |
|----------------------|-------------------------------------|---------------------|-----------------------|------------------------------|-----------------|--------------|----------------------|--------|-----------------------|---------------|-------|--------------------|
| | | | | | | | | | | | | |
| 301 Organiz | zation Intangible Plant | (5,006.20) | | - | | - | | - | | | | (5,006. |
| 302 Franchi | ises and Consents Intangible Plant | (73,680.11) | - | - | - | - | - | - | - | - | - | (73,680 |
| | aneous Intangible Plant | (528,285.78) | | | - | - | (175,684.58) | - | | | | (703,970 |
| | GAS INTANGIBLE PLANT | (606,972.09) | - | | | - | (175,684.58) | - | - | | | (782,656 |
| | | | | | | | | | | | | |
| | res & Improvements | (0.00) | - | - | - | - | - | - | - | - | - | (0 |
| | d Petro. Propane | (0.00) | | | - | | - | - | | - | | (0 |
| | Gas Production | 0.00 | - | | - | - | - | - | | - | | 0 |
| TOTAL | GAS PRODUCTION PLANT | (0.00) | - | - | - | - | - | - | - | - | - | (0 |
| 3652 Land Ri | ights | (124,000.90) | - | - | - | - | (1,290.27) | - | - | - | - | (125,291 |
| 366 Structu | res & Improvements | - | - | - | - | - | (36.50) | - | - | - | - | (36 |
| 3671 Mains | | (1,164,039.48) | | | - | - | (20,321.79) | - | - | - | - | (1,184,361 |
| 3691 Meas. 8 | & Reg. Station Eqiup. | (215,507.28) | 6,475.15 | - | - | - | (18,699.97) | - | - | - | - | (227,732 |
| TOTAL | GAS TRANSMISSION PLANT | (1,503,547.66) | 6,475.15 | - | - | - | (40,348.53) | - | - | - | - | (1,537,421 |
| 3742 Land Ri | ights | (8,791.07) | - | | - | | (372.48) | - | - | | | (9,163 |
| 375 Structu | ires & Improvements | (25,819.79) | | | - | - | (867.60) | - | | | | (26,687 |
| 376 Mains | | (6,778,294.00) | | 171,570.69 | - | - | (364,872.18) | | - | | - | (6,971,595 |
| | & Reg. Station EqiupGeneral | (308,691.99) | (6,475.15) | 12,082.28 | - | | (44,972.40) | | | | | (348,057 |
| | & Reg. Station EqupCity Gate | (136,558.97) | - | - | - | - | (16,226.92) | - | | | | (152,785 |
| 380 Service | | (5,280,475.77) | | 252,541.01 | - | - | (359,413.60) | | | | | (5,387,348 |
| 381 Meters | | (3,460,968.37) | (90,096.57) | 65,745.27 | | _ | (481,274.57) | | | | | (3,966,594 |
| 383 Service | | (439,509.10) | (15,691.34) | 68,558.25 | 3,294.50 | - | (59,740.22) | | | - | | (443,087 |
| | ial Meas. & Reg. Station Equipment | (13,803.94) | (10,001.04) | 00,000.20 | 0,204.00 | | (4,085.88) | | | | | (17,889 |
| | lic Protection Equipment | (3,249.35) | | | | | (410.04) | | | | | (3,659 |
| | Distribution Equipment | (11,498.48) | - | - | - | - | (410.04) | | - | - | - | (11,498 |
| | . GAS DISTRIBUTION PLANT | (16,467,660.83) | (112,263.06) | 570,497.50 | 3,294.50 | - | (1,332,235.89) | | - | - | - | (17,338,367 |
| | | | (112,203.00) | • | | | | | - | - | | • |
| | res & Improvements | (973,231.71) | - | 102,323.09 | 100,052.40 | - | (41,523.48) | - | - | - | - | (812,379 |
| 3911 Office F | Furniture & Equipment | (58,979.23) | | 7,641.54 | - | - | (5,640.79) | - | | | | (56,978 |
| 3913 Compu | ter Equipment-PC | (25,653.35) | (45,376.93) | 18,589.28 | - | - | (35,758.41) | - | - | - | - | (88,199 |
| 3915 Other (| Computer Equipment | (0.26) | - | | - | - | - | - | - | - | - | (0 |
| 3921 Transp | ortation Equipment- Trailers | (25,946.76) | - | 8,818.60 | - | (5,999.00) | (207.73) | - | - | - | - | (23,334 |
| 3922 Transpo | ortation Equipment- Vehicles | (648,859.61) | - | 151,578.58 | - | (34,879.50) | (107,201.62) | - | - | | - | (639,362 |
| 3941 Miscell | aneous Tools | (222,311.88) | - | - | | - | (36,575.27) | - | - | - | - | (258,887 |
| 3961 Work E | quipment Trailers | (33,224.14) | | 6,331.01 | - | (4,400.00) | (3,921.59) | - | - | - | | (35,214 |
| 3962 Power | Operated Equipment | (300,744.96) | | 314,068.15 | - | (245,164.92) | (11,798.49) | - | | - | | (243,640 |
| 3971 Commi | unications Equipment-Fixed Radios | (77,389.29) | | 3,457.13 | - | - | (6,459.42) | - | | - | | (80,391 |
| | unications Equipment-Mobile Radios | (18,050.68) | (1,350.90) | | | - | (3,599.12) | - | - | | - | (23,000 |
| | I Telephone Communication Equipment | (25,205.97) | (6,832.34) | 1,718.09 | - | - | (2,370.86) | - | | | | (32,691 |
| 3977 SCADA | | - | - | | - | - | - | - | | | | |
| | rk Equipment | (73,734.75) | - | | | - | (5,668.20) | | - | | | (79,402 |
| | aneous Equipment | (18,341.01) | 32.48 | | - | - | (2,207.69) | | - | | - | (20,516 |
| | GAS GENERAL PLANT | (2,501,673.60) | (53,527.69) | 614,525.47 | 100,052.40 | (290,443.42) | (262,932.67) | - | - | - | - | (2,393,999 |
| TO | OTAL GAS PLANT IN SERVICE | (21,079,854.18) | (159,315.60) | 1,185,022.97 | 103,346.90 | (290,443.42) | (1,811,201.67) | - | - | - | - | (22,052,445 |
| | | | | | | | | | | | | |
| | | | (158,832.04) | | 351,102.94 | | (2,540,871.17) | | | | | (30,488,57) |
| | COR + SALV T TO TOTAL RESERVE | (29,034,558.51) | (158,832.04) | 1,185,022.97 | 351,102.94 | (290,443.42) | (2,540,871.17) | | | | | (30,488,579 |

^{*} Base Reserve includes COR and Salvage for accounts in which separate COR and Salvage depreciation rates are not maintained

GPNG

ACCOUNT #1082 SALVAGE*

TABLE 3 - SCHEDULE OF ACCUMULATED PROVISION FOR DEPRECIATION FOR THE 12 MONTH PERIOD ENDED DECEMBER 31, 2018

| 301 Organization Intangible Plant 302 Franchises and Consents Intangible 303 Miscellaneous Intangible Plant TOTAL GAS INTANGIBLE PLANT 305 Structures & Improvements 3111 Liquified Petro. Propane 320 Other Gas Production TOTAL GAS PRODUCTION PLAN 3652 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. TOTAL GAS TRANSMISSION PLAN 3742 Land Rights | Plant | | Transfers | of Retirements | | Salvage | Provision | Reimb. | | - | |
|---|--------|------------|-----------|------------------|-------------|---------|-------------|-------------|---|---|------------|
| 302 Franchises and Consents Intangible 303 Miscellaneous Intangible Plant TOTAL GAS INTANGIBLE PLANT 305 Structures & Improvements 3111 Liquified Petro. Propane 320 Other Gas Production TOTAL GAS PRODUCTION PLAN 3652 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. TOTAL GAS TRANSMISSION PLA | it | - | - | - - - - | - | - | - | - | - | - | - |
| 303 Miscellaneous Intangible Plant TOTAL GAS INTANGIBLE PLANT 305 Structures & Improvements 3111 Liquified Petro. Propane 320 Other Gas Production TOTAL GAS PRODUCTION PLAN 3652 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. TOTAL GAS TRANSMISSION PLA | it | - | - | - - - - | - | - | - | - | - | - | - |
| 305 Structures & Improvements 3111 Liquified Petro. Propane 320 Other Gas Production TOTAL GAS PRODUCTION PLAN 3652 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. TOTAL GAS TRANSMISSION PLA | IT | - | | - | - - - | - | - - - | - - - | - | - | - |
| 305 Structures & Improvements 3111 Liquified Petro. Propane 320 Other Gas Production TOTAL GAS PRODUCTION PLAN 3652 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. TOTAL GAS TRANSMISSION PLA | IT | - | | - | - - - | - | - | - | - | - | - |
| 3111 Liquified Petro. Propane 320 Other Gas Production TOTAL GAS PRODUCTION PLAN 3652 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. TOTAL GAS TRANSMISSION PLA | (| - | - | - | - | - | - | - | - | - | - |
| 3111 Liquified Petro. Propane 320 Other Gas Production TOTAL GAS PRODUCTION PLAN 3652 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. TOTAL GAS TRANSMISSION PLA | (| - | - | - | - | - | - | - | - | - | |
| 320 Other Gas Production TOTAL GAS PRODUCTION PLAN 3652 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. TOTAL GAS TRANSMISSION PL | (| - | | - | - | - | | - | - | - | _ |
| TOTAL GAS PRODUCTION PLAN 3652 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. TOTAL GAS TRANSMISSION PLA | (| - | | | - | | | | | | |
| 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. TOTAL GAS TRANSMISSION PL | | - | | | | | - | - | - | - | - |
| 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. TOTAL GAS TRANSMISSION PL | | | - | | | - | - | | - | - | - |
| 3671 Mains 3691 Meas. & Reg. Station Eqiup. TOTAL GAS TRANSMISSION PL | | (8,446.18) | | _ | _ | _ | - | _ | | | _ |
| 3691 Meas. & Reg. Station Eqiup. TOTAL GAS TRANSMISSION PL | | (0,440.10) | _ | | | | 803.48 | | | | (7,642.70 |
| TOTAL GAS TRANSMISSION PLA | ANT (| _ | | - | - | | - 000.40 | | | | (1,042.10 |
| | | (8,446.18) | - | | | | 803.48 | | | | (7,642.70 |
| 3742 Land Rights | | (0,110.10) | | | | | 000.10 | | | | (1,012.10 |
| | | - | - | - | - | - | - | - | - | - | - |
| 375 Structures & Improvements | | - | - | - | - | - | - | - | - | - | - |
| 376 Mains | (| (2,388.67) | - | - | - | - | - | - | - | - | (2,388.67 |
| 378 Meas. & Reg. Station EqiupGenera | al | - | - | - | - | - | - | - | - | - | - |
| 379 Meas. & Reg. Station EqiupCity Ga | ite | - | - | - | - | - | - | - | - | - | - |
| 380 Services | | (41.87) | - | - | - | - | - | - | - | - | (41.87 |
| 381 Meters | | 4,940.56 | - | - | - | - | (1,369.14) | - | - | - | 3,571.42 |
| 383 Service Regulators | | - | - | - | - | - | - | - | - | - | - |
| 385 Industrial Meas. & Reg. Station Equ | ipment | - | - | - | - | - | - | - | - | - | - |
| 3871 Cathodic Protection Equipment | | - | - | - | - | - | - | - | - | - | - |
| 3872 Other Distribution Equipment | | - | - | - | - | - | - | - | - | - | - |
| TOTAL GAS DISTRIBUTION PLA | NT | 2,510.02 | - | - | - | - | (1,369.14) | - | - | - | 1,140.88 |
| 390 Structures & Improvements | | - | - | - | - | - | - | - | - | - | - |
| 3911 Office Furniture & Equipment | | - | - | - | - | - | - | - | - | - | - |
| 3913 Computer Equipment-PC | | - | - | - | - | - | - | - | - | - | - |
| 3915 Other Computer Equipment | | - | - | - | - | - | - | - | - | - | |
| 3921 Transportation Equipment- Trailers | | - | - | - | - | - | - | - | - | - | - |
| 3922 Transportation Equipment- Vehicle | | - | - | - | - | - | - | - | - | - | - |
| 393 Stores Equipment | | - | - | - | - | - | - | - | - | - | - |
| 3941 Miscellaneous Tools | | - | - | - | - | - | - | - | - | - | - |
| 395 Laboratory Equipment | | - | - | - | - | - | - | - | - | - | - |
| 3961 Work Equipment Trailers | | - | - | - | - | - | - | - | - | - | - |
| 3962 Power Operated Equipment | | - | - | - | - | - | - | - | - | - | - |
| 3971 Communications Equipment-Fixed | Radios | - | - | - | - | - | - | - | - | - | - |
| 3972 Communications Equipment-Mobil | | - | - | - | - | - | - | - | - | - | - |
| 3973 General Telephone Communication | | - | - | - | - | - | - | - | - | - | - |
| 3978 Network Equipment | | - | - | - | - | - | - | - | - | - | - |
| 398 Miscellaneous Equipment | | - | - | - | - | - | - | - | - | - | |
| TOTAL GAS GENERAL PLANT | _ | - | - | - | - | - | - | - | - | - | - |
| TOTAL GAS PLANT IN SERVICE | : | (5,936.16) | - | | - | - | (565.66) | - | - | - | (6,501.82) |

^{*} In May 2014 all salvage was reclassified from the 1087 account to the 1082 account

GPNG ACCOUNT #1087 COST OF REMOVAL TABLE 3 - SCHEDULE OF ACCUMULATED PROVISION FOR DEPRECIATION FOR THE 12 MONTH PERIOD ENDED DECEMBER 31, 2018

| 301 Organization Intangible Plant 302 Franchises and Consents Intangible Plant 303 Miscellaneous Intangible Plant TOTAL GAS INTANGIBLE PLANT 305 Structures & Improvements 3111 Liquified Petro. Propane 320 Other Gas Production TOTAL GAS PRODUCTION PLANT 3662 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. | - - - - - (289,105.81) 9,373.50 (279,732.31) | | - - - - - - - - | : : : : | - - - - - - - | | - | - | - - - - - | - - - - - - |
|--|---|------------|--------------------------------------|------------------|---------------------------------|--------------|----------------|---|-----------------------|----------------------------|
| 302 Franchises and Consents Intangible Plant 303 Miscellaneous Intangible Plant TOTAL GAS INTANGIBLE PLANT 305 Structures & Improvements 3111 Liquified Petro. Propane 320 Other Gas Production TOTAL GAS PRODUCTION PLANT 3652 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. | - - - - (289,105.81) 9,373.50 | | - | : | : | - | - | - | - | - |
| 303 Miscellaneous Intangible Plant TOTAL GAS INTANGIBLE PLANT 305 Structures & Improvements 1111 Liquified Petro. Propane 320 Other Gas Production TOTAL GAS PRODUCTION PLANT 3865 Land Rights 386 Structures & Improvements 3871 Mains 3881 Meas. & Reg. Station Eqiup. | - - - - (289,105.81) 9,373.50 | | - | : | : | - | - | - | - | - |
| TOTAL GAS INTANGIBLE PLANT 305 Structures & Improvements 1111 Liquified Petro. Propane 320 Other Gas Production TOTAL GAS PRODUCTION PLANT 3652 Land Rights 368 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. | - - - - (289,105.81) 9,373.50 | | - | : | | - - - | - | - | - | - |
| 305 Structures & Improvements 3111 Liquified Petro. Propane 320 Other Gas Production TOTAL GAS PRODUCTION PLANT 3652 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. | - - - - (289,105.81) 9,373.50 | | : | - - - - | | | - | | - | |
| 3311 Liquified Petro. Propane 320 Other Gas Production TOTAL GAS PRODUCTION PLANT 3662 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. | - - - (289,105.81) 9,373.50 | - | - | - | - | - | - - - | _ | : : | - |
| 3311 Liquified Petro. Propane 320 Other Gas Production TOTAL GAS PRODUCTION PLANT 3662 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. | - - - (289,105.81) 9,373.50 | - | - | - | - | - | - | _ | | - |
| 320 Other Gas Production TOTAL GAS PRODUCTION PLANT 3652 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. | - - - (289,105.81) 9,373.50 | - | - | - | - | | | _ | - | - |
| TOTAL GAS PRODUCTION PLANT 3652 Land Rights 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. | - - (289,105.81) 9,373.50 | - | - | | | - | | | | |
| 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. | - (289,105.81) 9,373.50 | - | - | - | | | | | | - |
| 366 Structures & Improvements 3671 Mains 3691 Meas. & Reg. Station Eqiup. | (289,105.81) 9,373.50 | - | - | | - | - | - | - | _ | - |
| 3671 Mains 3691 Meas. & Reg. Station Eqiup. | 9,373.50 | - (004.40) | | - | | (2.04) | - | | | (2.0 |
| 3691 Meas. & Reg. Station Eqiup. | 9,373.50 | (004.40) | _ | 28.854.14 | _ | 3,263.38 | _ | _ | _ | (256,988.2 |
| | | | - | 20,034.14 | - | (3,107.06) | - | - | - | 5,372.0 |
| TOTAL GAS TRANSMISSION PLANT | (270,702.01) | (894.43) | | 28,854.14 | | 154.28 | - - | | | (251,618.3 |
| | | (00 1110) | | | | | | | | (==:,=:== |
| 3742 Land Rights | - | - | - | - | - | - | - | - | - | - |
| 375 Structures & Improvements | (1,265.05) | - | - | - | - | (48.36) | - | - | - | (1,313.4 |
| 376 Mains | (3,086,787.88) | - | - | 97,071.96 | - | (251,841.12) | - | - | - | (3,241,557.0 |
| 378 Meas. & Reg. Station EqiupGeneral | (42,587.17) | 894.43 | - | 7,581.00 | - | (19,237.39) | - | - | - | (53,349.1 |
| 379 Meas. & Reg. Station EqiupCity Gate | 22,580.37 | - | | 792.94 | | (3,470.18) | - | - | - | 19,903.1 |
| 380 Services | (4,111,926.88) | - | - | 82,061.08 | - | (258,865.13) | - | - | - | (4,288,730.9 |
| 381 Meters | (449,049.25) | 483.56 | | 31,394.92 | | (195,795.94) | - | - | - | (612,966.7 |
| 383 Service Regulators | - | - | - | - | - | - | - | - | - | - |
| 385 Industrial Meas. & Reg. Station Equipment | - | - | - | - | - | - | - | _ | - | _ |
| 3871 Cathodic Protection Equipment | - | - | | - | - | | - | - | | - |
| 3872 Other Distribution Equipment | - | - | - | - | - | | - | - | - | - |
| TOTAL GAS DISTRIBUTION PLANT | (7,669,035.86) | 1,377.99 | - | 218,901.90 | - | (729,258.12) | | - | - | (8,178,014.0 |
| 390 Structures & Improvements | - | - | - | | - | - | - | - | - | |
| 3911 Office Furniture & Equipment | - | - | - | - | - | - | - | - | - | - |
| 3913 Computer Equipment-PC | - | - | - | - | - | | - | - | - | - |
| 3915 Other Computer Equipment | - | - | | - | - | | - | - | | |
| 3921 Transportation Equipment- Trailers | - | - | - | - | - | | - | - | - | - |
| 3922 Transportation Equipment- Vehicles | - | - | | - | - | | - | - | | |
| 393 Stores Equipment | - | - | - | - | - | - | - | _ | - | - |
| 3941 Miscellaneous Tools | | | | - | - | - | - | - | - | |
| 395 Laboratory Equipment | - | - | - | - | - | | - | - | - | _ |
| 3961 Work Equipment Trailers | | | | | | | - | | | |
| 3962 Power Operated Equipment | | _ | | - | | | - | _ | _ | _ |
| 3971 Communications Equipment-Fixed Radios | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 3972 Communications Equipment-Mobile Radios | | _ | | - | | | - | _ | _ | _ |
| 3973 General Telephone Communication Equipment | | | _ | _ | | _ | _ | _ | _ | _ |
| 3978 Network Equipment | | - | | | | - | | _ | | |
| 398 Miscellaneous Equipment | | _ | | | _ | - | | _ | _ | _ |
| TOTAL GAS GENERAL PLANT | - | - | - | - | - | - | - | - | - | - |
| TOTAL GAS PLANT IN SERVICE | (7,948,768.17) | 483.56 | | 247,756.04 | - | (729,103.84) | | | | (8,429,632.4 |

GREAT PLAINS NATURAL GAS TABLE 3 - SCHEDULE OF ACCUMULATED PROVISION FOR DEPRECIATION-GAS FOR THE 12 MONTH PERIOD ENDED DECEMBER 31, 2018

| FERC Account | Account Description | Beg Reserve Balance | Reclass/ Transfers | Original Cost of Retirements | Cost of Removal Cap Ex | Salvage Cap Ex | Cost of Removal Closes | Salvage Closes | Deprec. Provision | Gain/ Loss | Transf. to Reg. Asset/Liab. | Ending Reserve Balance |
|-----------------|---|------------------------------|-----------------------|------------------------------|---------------------------|-------------------|---------------------------|-------------------|----------------------|---------------|--------------------------------|---------------------------|
| 305 | Structures & Improvements | | | | | | | | | | | |
| | Liquefied Petro. Propane | | | | | | | | | | | |
| | Other Gas Production | | | | | | | | | | | |
| 020 | TOTAL GAS PRODUCTION | | - | | | - | | | - | - | - | |
| | - | | | | | | | | | | | |
| | Land Rights | (124,000.90) | - | | | | | | (1,290.27) | | | (125,291.17 |
| | Structures & Improvements | - | - | | | | | | (38.54) | | | (38.54 |
| | Mains | (1,461,591.47) | - | | | | 28,854.14 | | (16,254.93) | | | (1,448,992.26 |
| 3691 | Meas. & Reg. Station Equip. | (206,133.78) | 5,580.72 | | | | | | (21,807.03) | | | (222,360.09 |
| | TOTAL GAS TRANSMISSION | (1,791,726.15) | 5,580.72 | | | | 28,854.14 | - | (39,390.77) | - | - | (1,796,682.06 |
| 3742 | Land Rights | (8,791.07) | | | | | | | (372.48) | | | (9,163.55 |
| | Structures & Improvements | (27,084.84) | | | | | | | (915.96) | | | (28,000.80 |
| | Mains | (9,867,470.55) | | 171,570.69 | | | 97,071.96 | | (616,713.30) | | | (10,215,541.20 |
| | Meas. & Reg. Station EquipGeneral | (351,279.16) | (5,580.72) | 12,082.28 | | | 7,581.00 | - | (64,209.79) | | - | (401,406.39 |
| | Meas. & Reg. Station EquipCity Gate | (113,978.60) | - | | | | 792.94 | - | (19,697.10) | - | - | (132,882.76 |
| | Services | (9,392,444.52) | - | 252,541.01 | | | 82,061.08 | - | (618,278.73) | | - | (9,676,121.16 |
| | Meters | (3,905,077.06) | (89,613.01) | 65,745.27 | | | 31,394.92 | - | (678,439.65) | | | (4,575,989.53 |
| | Service Regulators | (439,509.10) | (15,691.34) | 68,558.25 | | | 3,294.50 | | (59,740.22) | | - | (443,087.91 |
| | Industrial Meas. & Reg. Station Equipment | (13,803.94) | - | | | | | | (4,085.88) | | - | (17,889.82 |
| | Cathodic Protection Equipment Other Distribution Equipment | (3,249.35) (11,498.48) | - | | | | | | (410.04) | - | | (3,659.39 |
| | TOTAL GAS DISTRIBUTION | (24,134,186.67) | (110,885.07) | 570,497.50 | | | 222,196.40 | - : | (2,062,863.15) | - | | (25,515,240.99 |
| | TOTAL GAS DISTRIBUTION | (24,134,100.07) | (110,005.07) | 570,497.50 | - | | 222,190.40 | - | (2,002,003.15) | - | - | (25,515,240.99 |
| 390 | Structures & Improvements | (973,231.71) | - | 102.323.09 | | | 100.052.40 | | (41.523.48) | - | | (812,379.70 |
| 3911 | Office Furniture & Equipment | (58,979.23) | - | 7,641.54 | | | - | - | (5,640.79) | - | | (56,978.48 |
| 3913 | Computer Equipment-PC | (25,653.35) | (45,376.93) | 18,589.28 | | | - | | (35,758.41) | - | | (88,199.41 |
| | Other Computer Equipment | (0.26) | | | | | | | | | | (0.26 |
| | Transportation Equipment- Trailers | (25,946.76) | - | 8,818.60 | | | | (5,999.00) | (207.73) | | | (23,334.89 |
| | Transportation Equipment- Vehicles | (648,859.61) | - | 151,578.58 | | | - | (34,879.50) | (107,201.62) | | - | (639,362.15 |
| | Miscellaneous Tools | (222,311.88) | - | | | | | - | (36,575.27) | | - | (258,887.15 |
| | Work Equipment Trailers | (33,224.14) | - | 6,331.01 314,068.15 | | | | (4,400.00) | (3,921.59) | | | (35,214.72 |
| | Power Operated Equipment Communications Equipment-Fixed Radios | (300,744.96) | • | 314,068.15 | | | • | (245,164.92) | (11,798.49) | | - : | (243,640.22 |
| | Communications Equipment-Fixed Radios Communications Equipment-Mobile Radios | (18,050.68) | (1,350.90) | 3,457.13 | | | • | - | (3,599.12) | | | (23,000.70 |
| | General Telephone Communication Equipment | (25,205.97) | (6,832.34) | 1,718.09 | | | | | (2,370.86) | | - : | (32,691.08 |
| | Scada System | (25,205.51) | (0,002.04) | 1,7 10.03 | | | | - | (2,070.00) | _ | - | (02,031.00 |
| | Network Equipment | (73,734.75) | | | | | | | (5,668.20) | - | | (79,402.95 |
| | Miscellaneous Equipment | (18,341.01) | 32.48 | | | | | | (2,207.69) | | | (20,516.22 |
| | TOTAL GAS GENERAL | (2,501,673.60) | (53,527.69) | 614,525.47 | - | - | 100,052.40 | (290,443.42) | (262,932.67) | - | - | (2,393,999.51 |
| | SUBTOTAL (1082, 1087 & 1088) | (28,427,586.42) | (158,832.04) | 1,185,022.97 | | - | 351,102.94 | (290,443.42) | (2,365,186.59) | - | | (29,705,922.56 |
| | | | | | | | | | | | | |
| | Organization Intangible Plant | (5,006.20) | | | | | | | | | | (5,006.20 |
| | Franchises and Consents Intangible Plant | (73,680.11) | | | | | | | //== 00 / =0 | | | (73,680.11 |
| 303 | Miscellaneous Intangible Plant TOTAL GAS INTANGIBLE | (528,285.78) (606,972.09) | | | | | | | (175,684.58) | | | (703,970.36 |
| | SUBTOTAL (1082, 1087, 1088 & 1112) | (29,034,558.51) | (158,832.04) | 1,185,022.97 | | | 351,102.94 | (290,443.42) | (2,540,871.17) | | | (30,488,579.23 |
| | 30B101AL (1002, 1007, 1000 & 1112) | (29,034,330.31) | (130,032.04) | 1,105,022.51 | | | 331,102.54 | (290,443.42) | (2,340,071.17) | - | | (30,466,379.23 |
| | RWIP-Production | | | | | - | | | | | | |
| | RWIP-Transmission | 12.149.31 | | | 16,704.83 | - | (28,854.14) | | | | | |
| | RWIP-Distribution | 74,567.95 | | | 165,614.88 | (123.50 | | - | | | | 17,862.93 |
| | RWIP-General | (133,631.33) | | | 92.44 | (282,712.19 | | 290,443.42 | | | | (225,860.06 |
| | RWIP-Intangible | | | | - | - | | | | | | |
| | TOTAL RWIP | (46,914.07) | - | | 182,412.15 | (282,835.69 | | 290,443.42 | | - | - | (207,997.13 |
| | TOTAL GAS RESERVE INCL RWIP | (29,081,472.58) | (158,832.04) | 1,185,022.97 | 182,412.15 | (282,835.69 | - | - | (2,540,871.17) | - | - | (30,696,576.36 |
| | Total Reserve Including RWIP By Function | | | | | | | | | | | |
| | Production | | - | _ | | | - | | | | - | |
| | Transmission | (1,779,576.84) | 5,580.72 | | 16,704.83 | | - : | | (39,390.77) | | | (1,796,682.06 |
| | Distribution Excluding ARO | (24,059,618.72) | (110,885.07) | 570,497.50 | 165,614.88 | (123.50 | | - | (2,062,863.15) | | - | (25,497,378.06 |
| | | (2,635,304.93) | (53,527.69) | 614,525.47 | 92.44 | (282,712.19 | | | (262,932.67) | | | (2,619,859.57 |
| | General | | | | | | | | | | | |
| | General Intangible | (606,972.09) | - | - | | - | - | - | (175,684.58) | | | (782,656.67 |
| | | | (158,832.04) | 1,185,022.97 | 182,412.15 | (282,835.69 | | - | (2,540,871.17) | - | - | |

Great Plains Natural Gas Co. Annual Depreciation Study Update - 2018 Analysis of Account 390 Retirements

Great Plains had \$102,323.09 of retirements in Account 390 - General Structures and Improvements during 2018. The retirements consisted of the following:

- Marshall Warehouse Replacement
 - Retirement of \$101,934.20.
 - o Remaining NBV of \$0.
 - The existing warehouse, formerly the peak shaving plant building, was retired and repurposed to become the welding shop.
 - o A new warehouse/shop was constructed and placed into service in 2018.
 - The plant balance for the Marshall Warehouse was included in the 2000 vintage year on page 5-20 of the 2018 Depreciation Study. At the time of the acquisition of Great Plains by Montana-Dakota, Great Plain's plant balances were added to the electronic general ledger as a beginning balance asset with a vintage year of 2000. The actual vintage data of plant prior to 2000 can be found in paper based general ledgers. In reviewing the property retirement report for this asset, the majority of the structural components were placed into service in 1971 and 1972.
- Marshall Office Door Replacement
 - Retirement of \$388.89.
 - o Remaining NBV of \$287.88.
 - The existing front door of the Marshall office was retired and replaced with a steel door.