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INDIANA UTILITY
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Cause No. 45029

VERIFIED DIRECT TESTIMONY

OF

ANN E. BULKLEY

ON BEHALF OF

INDIANAPOLIS POWER & LIGHT COMPANY

SPONSORING IPL WITNESS AEB ATTACHMENTS 1 THROUGH 6

**VERIFIED DIRECT TESTIMONY OF ANN E. BULKLEY
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I. INTRODUCTION

Q1. Please state your name, job title, affiliation, and business address.

A1. My name is Ann E. Bulkley, Vice President of Concentric Energy Advisors, Inc. (“Concentric”). My business address is 293 Boston Post Road West, Suite 500, Marlborough, Massachusetts, 01752.

Q2. On whose behalf are you submitting this direct testimony?

A2. I am submitting this testimony on behalf of Indianapolis Power & Light Company (“IPL” or the “Company”). Concentric was engaged by IPL to perform a study of the value of its electric generation, transmission, distribution, and general plant (collectively referred to as the “electric utility assets”).

Q3. Please describe the nature of the services provided by Concentric.

A3. Concentric provides consulting services to utilities, energy producers, major energy consumers, project developers, and governmental authorities throughout North America. The firm specializes in transaction-related financial advisory services, valuation studies, economic feasibility studies, energy market and regulatory strategies, market assessments, energy commodity contracting and procurement, regulatory and litigation support, and capital market analyses and negotiations.

Q4. Please describe your professional experience and educational background.

A4. I am an economic and financial consultant with more than 20 years of experience advising clients in the energy industry with emphasis on valuation. I am a certified

1 general appraiser and a specialist in asset valuation. My experience includes valuations of
2 public utility and industrial properties for ratemaking, purchase and sale considerations,
3 eminent domain / condemnation, ad valorem tax assessments, insurance, accounting and
4 financial purposes. I have provided expert testimony before several state utility
5 commissions and other administrative agencies throughout the United States. More
6 information on my professional experience and educational background is attached hereto
7 as IPL Witness AEB Attachment 1.

8 **II. PURPOSE AND OVERVIEW**

9 **Q5. What is the purpose of your testimony?**

10 A5. The purpose of my testimony is to estimate the current value of IPL's electric utility
11 assets and to describe the valuation study upon which my analysis and conclusions are
12 based.

13 **Q6. Have you previously testified before this Commission on the value of electric utility**
14 **assets?**

15 A6. Yes. I have.

16 **Q7. How did you carry out your appraisal work?**

17 A7. The appraisal procedure consisted of four steps: (1) the development of current costs of
18 the properties by trending the original costs; (2) a determination of physical and
19 functional depreciation involving field inspection, analysis of IPL's records and statistics,
20 and various other calculations; (3) the application of depreciation factors to the current
21 costs to result in the current value; and (4) the final assembly of the appraisal and
22 supporting data, including preparation for this proceeding.

1 **Q8. What are some of the records about the Company’s electric utility assets that you**
2 **reviewed in order to develop an opinion as to the current value?**

3 A8. I reviewed the Company’s continuing property records, FERC Form 1, capital budgets,
4 programmed maintenance guidelines and schedules, and proposed useful lives among
5 other relevant data.

6 **Q9. Have you physically inspected the assets?**

7 A9. Yes. As I discuss in greater detail in Section V of my Direct Testimony, I conducted a
8 site inspection of the Company’s facilities for the purposes of developing an estimated
9 valuation based on the general operating characteristics of the assets.

10 **Q10. Please describe IPL’s transmission assets.**

11 A10. IPL provides power to approximately 490,000 customers in the city of Indianapolis and
12 portions of the surrounding counties. As further described by IPL Witnesses Sadtler, the
13 IPL transmission system includes approximately 458 circuit miles of 345kV and 407
14 circuit miles of 138kV transmission lines. IPL has generation that is connected to the
15 345kV system at the Petersburg (“Pete”) Generating Station and generation that is
16 connected to the 138kV system at the Harding Street (“HS”) Station, and the Georgetown
17 Generating Station. In the Indianapolis area at the 345 kV level IPL has interconnections
18 with Duke Energy Indiana (“Duke”) and American Electric Power (“AEP”); at the 138
19 kV level IPL is interconnected with Duke. At Petersburg, IPL has 345kV connections to
20 AEP and Duke and 138 kV interconnections with Duke, Vectren, and Hoosier Energy.

1 **Q11. Please describe IPL's distribution assets.**

2 A11. As further discussed by IPL Witness Sadtler, as of June 30, 2017, IPL's distribution
3 system consisted of 409 distribution circuits, 68 distribution substations, approximately
4 6,112 circuit miles of overhead line (primary and secondary voltage), and approximately
5 4,904 circuit miles of underground cable (primary and secondary voltage).

6 **Q12. Please describe IPL's general plant assets.**

7 A12. IPL's general plant accounts include those assets that are not defined by the Federal
8 Energy Regulatory Commission ("FERC") Uniform System of Accounts as appropriate
9 to include in other plant accounts. More specifically, these accounts contain the following
10 categories of assets not elsewhere classified:

- 11 • Land and land rights;
- 12 • Structures and improvements;
- 13 • Transportation equipment including automobiles, trucks, and appurtenant
14 equipment;
- 15 • Stores, shop, and laboratory equipment;
- 16 • Power operated equipment that is self-propelled or mounted on moveable
17 equipment; and
- 18 • Communication equipment.

19 **Q13. What is the basis of your appraisal?**

20 A13. Except for production plant, my appraisal develops the value of IPL's electric utility
21 assets in service as of June 30, 2017, using a cost-based valuation methodology, the
22 Reproduction Cost New Less Depreciation ("RCNLD") approach. This analysis is
23 provided in IPL Witness AEB Attachments 2 through 6 which have been prepared by me
24 or under my direction. The Eagle Valley combined cycle gas turbine ("CCGT") and the

1 associated transmission and distribution investments are included in the valuation at the
2 construction cost. For production plant that is currently in service, I base my appraisal on
3 the analysis prepared by IPL Witness Reed.

4 **Q14. Is there support in Indiana for the use of the cost approach in determining the**
5 **current value of the assets?**

6 A14. Yes. Indiana Code § 8-1-2-6 discusses the valuation of public utility property. In the
7 referenced section, the code states that the Indiana Utility Regulatory Commission
8 (“IURC” or “Commission”) can take into account the reproduction cost of utility property
9 in determining the current value of the assets:

10 (a) The Commission shall value all property of every public utility
11 actually used and useful for the convenience of the public at its fair
12 value, giving such consideration as it deems appropriate in each case
13 to all bases of valuation which may be presented or which the
14 commission is authorized to consider by the following provisions of
15 this section. As one of the elements in such valuation the commission
16 shall give weight to the reasonable cost to bring the property to its then
17 state of efficiency. . . .

18 (b) . . . All public utility valuations shall be based upon tangible property,
19 that is, such property as has value by reason of construction costs,
20 either in materials purchased or in assembling of materials into
21 structures by the labor or (of) workers and the services of
22 superintendents, including engineers, legal and court costs, accounting
23 systems and transportation costs, and also including insurance and
24 interest charges on capital accounts during the construction period. As
25 an element in determining value the commission may also take into
26 account *reproduction costs at current prices, less depreciation*, based
27 on the items set forth in the last sentence hereof and shall not include
28 good will, going value or natural resources.¹

29 In Westfield Gas Corporation, Cause No. 43624, the Commission noted that the Indiana
30 Court of Appeals’ decision in Indianapolis Water Co., 484 N.E.2d 635, 640 (1985),

¹ Indiana Code § 8-1-2-6 (a)-(b) (emphasis added).

1 instructed that “reproduction cost new less depreciation cannot be disregarded in fixing a
2 valuation for rate making purposes.”²

3 **Q15. What adjustments have you made to the RCNLD to arrive at the Current Value of**
4 **the IPL electric system assets?**

5 A15. I included the pro forma plant additions adjustments that are proposed by the Company
6 for production, and transmission plant. In addition, the current value includes other rate
7 base items, specifically materials and supplies and fuel costs.

8 **Q16. What conclusion have you reached regarding the current value of IPL’s electric**
9 **utility assets?**

10 A16. The current value of IPL’s electric utility plant in service is summarized in Table 1
11 below.

² Westfield Gas Corporation, Cause No. 43624 (IURC 3/10/10), p. 16.

Table 1: Summary of Current Value

Account Description	Current Value June 30, 2017³	Pro forma Adjustments⁴	Current Value with Pro forma Adjustments
Intangible Plant (organization costs)	\$ 46,415		\$ 46,415
Systems Software	\$ 87,316,743		\$ 87,316,743
Production Plant ⁵	\$ 781,001,351	\$ 658,617,826	\$ 1,439,619,177
Transmission Plant	\$ 737,628,452	\$ 31,884,404	\$ 769,512,856
Distribution Plant	\$ 2,122,869,222		\$ 2,122,869,222
General Plant	\$ 259,629,214		\$ 259,629,214
Total Electric Plant In Service (RCNLD)	\$ 3,988,491,397	\$ 690,502,230	\$ 4,678,993,627
Other Rate Base Items			
Materials & Supplies	\$ 78,221,000		\$ 78,221,000
Fuel Inventory	\$ 32,814,000		\$ 32,814,000
Regulatory Assets	\$ 102,834,000		\$ 102,834,000
Total Other Related Rate Base Items	\$ 213,869,000		\$ 213,869,000
Total Current Value	\$ 4,202,360,397	\$ 690,502,230	\$ 4,892,862,627

2 **Q17. How is the remainder of your testimony organized?**

3 A17. The remainder of my testimony is organized in the following sections. Section III
4 provides an overview of cost-based valuation approaches. The next two sections explain
5 the development of each phase of the RCNLD analysis. Section IV explains the
6 development of the Reproduction Cost New (“RCN”) of the assets. Section V describes
7 the methodology used to establish the physical and functional depreciation of the assets.
8 Section VI discusses the value of systems software and intangible plant (organization
9 costs) and other related rate base items. Section VII discusses the valuation of production

³ As shown on IPL Witness AEB Attachment 3, the Current Value of the Electric Plant in Service takes into consideration the depreciation of the assets.

⁴ Pro forma adjustments are discussed in greater detail in Section VIII of my testimony.

⁵ The source of the valuation of production plant is the direct testimony of Petitioner’s Witness Reed.

1 plant, as prepared by Petitioner's Witness Reed. Section VIII describes the pro forma
2 plant additions adjustments proposed by the Company and other rate base items that were
3 included in the Current Value of the assets. Section IX summarizes my conclusions
4 regarding the Current Value of the assets.

5 **III. OVERVIEW OF THE COST APPROACH**

6 **Q18. What approach did you use to value IPL's transmission, distribution, and general**
7 **assets?**

8 A18. I determined the value of IPL's transmission, distribution, and general assets using the
9 Current Cost Approach. The Current Cost Approach values assets at the cost of replacing
10 them today, giving consideration to physical depreciation, functional depreciation and
11 current construction costs and technology.

12 **Q19. How did you apply the Current Cost Approach in valuing IPL's electric utility**
13 **assets?**

14 A19. I estimated the Reproduction Cost of IPL's transmission, distribution, and general assets.
15 The first step was to determine the cost to reproduce the assets today in substantially the
16 same form (RCN). Next, I determined the RCNLD by taking into consideration all forms
17 of depreciation, as appropriate.

18 **Q20. How do you define the Replacement and Reproduction cost methodologies?**

19 A20. The Replacement Cost methodology estimates the Current Value of the assets based on
20 how the assets would be constructed as of the valuation date, using technology and
21 equipment available at that time. The Reproduction Cost methodology estimates the cost

1 to build the assets as they currently exist, including the technology and equipment that
2 are currently in service.

3 **Q21. Is there a difference between the reproduction cost and replacement cost of the**
4 **T&D assets?**

5 A21. The IPL transmission and distribution system is a mature system that would be replaced
6 in a substantially similar manner using similar materials and technology as what is
7 currently in service. Under these circumstances, the replacement cost and reproduction
8 cost of the system are the same.

9 **IV. DEVELOPMENT OF THE REPRODUCTION COST NEW**

10 **Q22. Please explain how the Reproduction Cost Method is applied.**

11 A22. The Reproduction Cost Method takes the original cost, by vintage, of each electric utility
12 plant account and then applies an adjustment factor (or multiplier) to each vintage of each
13 account to determine the cost to reproduce those assets in today's dollars. This value is
14 commonly referred to as the RCN of the assets. The adjustment factor or multiplier is
15 utilized to estimate the cost of the electric utility assets if a third party were to reproduce
16 the electric utility system as it is currently constructed.

17 **Q23. To determine the Reproduction Cost New you need original cost information for**
18 **each plant account by vintage year. Does IPL have such plant account information**
19 **in sufficient detail?**

20 A23. Yes. IPL maintains its electric plant property records according to the FERC Uniform
21 System of Accounts, by vintage year. These records are the source of the original cost

1 information used in my valuation and were sufficient to conduct my Reproduction Cost
2 Study of IPL's electric utility assets.

3 **Q24. Please explain the development of the current cost amounts.**

4 A24. The current cost amounts have been developed using the trended original cost method.
5 This method consists of the development of adjustment factors from appropriate cost
6 indices for application to the original cost by years of installation to obtain the current
7 cost of IPL's electric transmission, distribution, and general plant in service as of June
8 30, 2017.

9 **Q25. What data did you rely on in your analysis?**

10 A25. I have relied on IPL's original cost balances by FERC account and vintage year of
11 installation as of June 30, 2017.

12 **Q26. How are the adjustment factors that are applied to the original costs, by vintage
13 year, in each account determined?**

14 A26. For the majority of IPL's electric utility asset accounts, I utilized the Handy-Whitman
15 Index of Public Utility Construction Costs ("Handy-Whitman Index") to determine the
16 present day reproduction costs for each vintage of assets. The Handy-Whitman Index is a
17 generally accepted industry standard cost index used for conducting reproduction cost
18 studies. The Handy-Whitman Index is considered an accurate and reliable resource for
19 valuation experts, has a long history of providing dependable data, and has been
20 published continuously since 1924 by Whitman, Requardt and Associates, an engineering
21 firm.

1 **Q27. For what purposes is the Handy-Whitman Index commonly used?**

2 A27. The Handy-Whitman Index has been used to reflect price inflation by escalating
3 construction costs from the investment year to current dollars. The Handy-Whitman
4 Index has been used and is generally accepted for rate setting purposes, as well as for
5 many other purposes. For example, it has been used to value utility property for sale
6 purposes, to perform stock valuations, and to make ad valorem tax calculations. In
7 addition, the Handy-Whitman Index has been used for insurance purposes and for
8 engineering estimates of new construction project costs.

9 **Q28. How long have you used the Handy-Whitman Index to value utility property?**

10 A28. I have utilized the Handy-Whitman Index throughout my career as part of my valuation
11 assignments. Based on my experience, the Handy-Whitman Index is a reliable tool to use
12 in valuing utility property, including IPL's electric utility system.

13 **Q29. How does the Handy-Whitman Index account for changes in construction costs over
14 time?**

15 A29. The Handy-Whitman Index has tracked utility labor, materials and equipment costs over
16 time and has developed indices that reflect the percentage change in the cost of goods in
17 most utility plant accounts for every year from 1912 through the present. Specifically, the
18 Handy-Whitman Index provides a cost index for every year for different types of utility
19 assets as compared to a base year of 1973.

1 **Q30. Please provide an example explaining how you used the Handy-Whitman Index to**
2 **calculate the Reproduction Cost New of the assets in Account No. 353 Station**
3 **Equipment.**

4 A30. Using the Handy-Whitman Index, the adjustment factor is calculated by dividing the
5 index for the most recent period by the index for the vintage of the property in question.
6 As shown in IPL Witness AEB Attachment 5, pages 3-4, IPL installed Account No. 353
7 transmission property in years spanning from 1914 through June 2017. The vintage and
8 original cost of this property is shown in columns (b) and (c), respectively. These figures
9 are taken directly from IPL's property records. The adjustment factor for each vintage of
10 each account is shown in column (g). Using Account No. 353 as an example, the
11 adjustment factors are calculated as follows: The Handy-Whitman Index provides a 1914
12 cost index for Account No. 353 property of 15 shown in column (e), and a January 1,
13 2017 cost index for the same property of 787 shown in column (f). The adjustment factor
14 (shown in column g) for Account No. 353 property installed in 1914 of 52.47 is
15 calculated by dividing the January 1, 2017 cost index in column (f) by the 1914 cost
16 index in column (e) (787 divided by 15). The Reproduction Cost New value for each
17 vintage of Account No. 352 is found in column (h) and is calculated by multiplying the
18 original cost by the adjustment factor.

19 **Q31. Do the adjustment factors from the Handy-Whitman Index apply to the area in**
20 **which IPL's electric utility assets are located?**

21 A31. Yes. The Handy-Whitman Index provides separate adjustment factors for various parts of
22 the United States in order to reflect the differences in regional cost changes. In my

1 analysis, I utilized the figures from the Handy-Whitman Index for the North Central
2 region of the United States, which includes Indiana.

3 **Q32. What is the date of the Handy-Whitman Index used in your study?**

4 A32. The data I used from the Handy-Whitman Index is as of January 1, 2017. The January 1,
5 2017 published numbers were the most recent data available at the time that my analysis
6 was prepared. Therefore, I adopted this index as being reflective of the price levels at
7 June 30, 2017.

8 **Q33. In your opinion is the Handy-Whitman Index reasonably applicable to IPL's**
9 **electric utility properties in service as of June 30, 2017?**

10 A33. Yes, for the reasons I explained above, the indices are applicable.

11 **Q34. Did you utilize the Handy-Whitman Index for all of IPL's accounts?**

12 A34. No. The Handy-Whitman Index does not have cost index information covering all of
13 IPL's general asset accounts. In those instances, I utilized the percent changes stated in
14 the Bureau of Labor Statistics' Producer Price Index ("PPI") as a proxy for the cost
15 changes in those assets over time. Similar to the Handy-Whitman Index, the Bureau of
16 Labor Statistics tracks price changes for various asset categories, including those assets
17 for which there is no information available from the Handy-Whitman Index. Because the
18 Bureau of Labor Statistics does not calculate PPI back far enough to cover all vintages of
19 IPL's assets, I used the PPI for the vintages for which there was data, and utilized the
20 percent changes in Gross Domestic Product ("GDP") as a proxy for those vintages for
21 which there was no PPI available from the Bureau of Labor Statistics.

1 **Q35. Did the use of the PPI and GDP to calculate the percent changes in the cost of**
2 **certain vintages of general plant assets, have a significant impact on the overall**
3 **results?**

4 A35. No. First, there were few accounts that the Handy-Whitman Index did not cover. Second,
5 the amount of dollars in the accounts for which I utilized PPI and/or GDP were small
6 compared to the amount of dollars in the accounts covered by the Handy-Whitman Index.
7 Therefore, these assumptions had a relatively small impact on the overall results of my
8 study.

9 **Q36. How did you address the value of IPL’s transmission and distribution land and**
10 **easements?**

11 A36. Transmission and distribution land and easements are included in the study at original
12 cost. I did not trend the value of these assets. As such, the RCNLD that I estimate could
13 be viewed as conservative.

14 **Q37. What are the results of the RCN analysis?**

15 A37. As shown in Table 2 below, the RCN of IPL’s transmission, distribution, and general
16 assets, which is the cost to reproduce the system assets in current dollars, is
17 approximately \$4.96 billion.

18 **Table 2: Reproduction Cost New**

Account Description	Original Cost	Replacement Cost New
Transmission Plant	\$ 361,117,688	\$ 1,090,208,411
Distribution Plant	\$ 1,459,054,770	\$ 3,478,998,163
General Plant	\$ 248,739,203	\$ 394,046,888
Total	\$ 2,068,911,661	\$ 4,963,253,462

19

1 V. DEPRECIATION OF THE TRANSMISSION AND DISTRIBUTION
2 SYSTEM

3 **Q38. Please explain how you considered the effect of depreciation on the assets.**

4 A38. In order to develop my estimate of depreciation, I considered the physical condition of
5 the assets, which I determined based on the condition of the assets as well as a review of
6 the Company's records and statistics and the average service life of the assets based on
7 the Company's most recent depreciation study.

8 **Q39. Did you conduct an inspection of the assets?**

9 A39. Yes, I did.

10 **Q40. What was the extent of your field inspection that led to the determination of**
11 **depreciation?**

12 A40. The field inspection involved a physical inspection of all of the Company's production
13 plant assets, a sampling of transmission lines, substations and transmission and
14 distribution lines throughout the system as well as a service center. This enabled me to
15 determine the current condition of the assets. During each of the inspection tours, I
16 conducted interviews with Company personnel regarding operating and maintenance
17 procedures as well as plans for ongoing and future system improvements.

18 **Q41. Please indicate when you inspected IPL's electric facilities and describe your**
19 **observations regarding the condition and usefulness of the facilities.**

20 A41. Physical inspections of the system were conducted during the week of July 11, 2016. In
21 addition, I conducted a second inspection of the incremental investments that were made
22 since that time during the week of August 14, 2017. It is my general conclusion that the
23 physical transmission and distribution system and properties in service are well designed,

1 and that the properties are being maintained and operated on a coordinated and efficient
2 basis. It is my conclusion that for the foreseeable future, the properties can continue to
3 operate effectively for the purposes for which they have been designed and constructed.

4 **Q42. Please explain your determination of depreciation for Transmission, Distribution,**
5 **and General Plant.**

6 A42. The adjustment to reflect the age and condition of the transmission, distribution, and
7 general plant assets was essentially conducted in three steps. The first step was to
8 determine the average service life for each asset account. I based the average service life
9 for each asset account on the depreciation study presented in this case by Petitioner's
10 Witness John J. Spanos.

11 The second step was to calculate the estimated remaining useful life of the assets in each
12 account. After obtaining the average service life for each account, I then calculated an
13 average weighted age of the assets in each account based on the present dollars of those
14 assets by vintage as calculated in the Reproduction Cost New Study described above.

15 For the third step, I determined the condition percent of the assets in each account. This
16 determination is based on the "Condition-Percent Tables for Depreciation of Unit and
17 Group Properties" by Robley Winfrey, published by Iowa State University. Robley
18 Winfrey was one of the foremost authorities in the depreciation field and one of the
19 originators of the Iowa survivor curves used in almost all depreciation rate studies. His
20 Condition-Percent Tables are well-accepted by valuation experts for purposes of
21 determining the physical and functional depreciation experienced by an asset. The
22 condition percent of the assets in each account is calculated by dividing the present value

1 of the benefits of those same assets based on their remaining useful life by the present
2 value of the benefits of the assets in each account based on their full average service life.

3 **Q43. Should the depreciation of the assets be based on IPL's book depreciation rates?**

4 A43. No. Book depreciation rates are used for accounting purposes. The estimation of the
5 appropriate depreciation of the IPL transmission, distribution, and general plant assets for
6 valuation purposes is not an accounting consideration. The depreciation of the assets for
7 valuation purposes is not based in ratemaking principles or the IURC's approval of the
8 rate of depreciation to include in customer rates. The Current Value of the assets is
9 estimated by calculating the cost to reproduce the assets as those assets currently exist,
10 then depreciating those assets to reflect the remaining useful life of the assets as of the
11 valuation date.

12 **Q44. Is there support for the position that accounting depreciation should not be relied
13 on for valuation purposes?**

14 A44. Yes. The American Society of Appraisers ("ASA") addresses this issue specifically in
15 *Valuing Machinery and Equipment: The Fundamentals of Appraising Machinery and
16 Technical Assets:*

17 Depreciation is another term that appraisers use differently from
18 nonappraisers such as accountants and the general public. The valuation
19 concept of depreciation differs from the accounting concept of
20 depreciation. Depreciation for valuation purposes is the estimated loss in
21 value of an asset, compared with a new asset; appraisal depreciation
22 measures value inferiority caused by a combination of physical
23 deterioration, functional obsolescence and economic (or external)
24 obsolescence.⁶

⁶ American Society of Appraisers, Valuing Machinery and Equipment: The Fundamentals of Appraising Machinery and Technical Assets, at 13.

1 The ASA further addresses accounting depreciation:

2 [T]he accounting depreciation process is one of cost allocation only, with
3 certain exceptions addressed in Chapter 9, *Valuing for Financial*
4 *Reporting*. It is not a method of valuation. Because a company's fixed
5 assets are not held for resale, there is no attempt to reflect any change in
6 the market value of the assets. As depreciation is calculated from period to
7 period, it is added to an accumulated depreciation account. Depreciation
8 for accounting purposes may be thought of as a mathematical procedure
9 for recovering the original cost of an asset in consistent installments over a
10 specified period.⁷

11 Finally, the ASA provides a concise summary of the differences between accounting and
12 valuation depreciation:

13 [T]he primary difference between the valuation and accounting concepts
14 of depreciation is that the appraisal depreciation measures value
15 inferiority, whereas accounting depreciation is a mathematical convention
16 for recovering an asset's cost.⁸

17 **Q45. Have you considered whether further adjustment is necessary to the cost that would**
18 **be incurred today in constructing IPL's Transmission Plant?**

19 A45. Yes, I have considered such a deduction. With respect to IPL's Transmission Plant, the
20 facilities are, in general, constructed with materials that are the current standard in the
21 industry. There are, however, a number of additional costs, which would be incurred if
22 the facilities were constructed under current conditions. Many existing transmission
23 routes would not be feasible under current regulations, and as a practical matter, it may
24 not be possible for some of the existing transmission lines to be constructed today. Many
25 of these lines are built in areas that are today classified as wetlands, environmentally
26 sensitive, or are densely populated. Even routes that are acceptable under current

⁷ *Id.*

⁸ American Society of Appraisers, Valuing Machinery and Equipment: The Fundamentals of Appraising Machinery and Technical Assets, at 14.

1 regulations would likely face local community opposition if the attempt was made to
2 establish them today. In general, transmission line rights-of-way purchased very
3 economically in the past would be orders of magnitude more costly today.

4 Transmission facilities that are constructed under current conditions face costs that were
5 not necessary when many of the existing lines were installed. In addition to the increased
6 costs of planning, environmental impact studies, permitting, and right-of-way acquisition
7 already outlined above, there are costs incurred because of the need to minimize the
8 environmental impact of construction. This was not a major consideration or cost in the
9 past. In particular, wetlands and other protected areas require special engineering and
10 construction techniques that lead to delays and increased cost. For example, construction
11 sites must take steps to guard against sediment runoff, erosion, and chemical spills. All of
12 these items add to the cost of constructing a transmission line today compared to the cost
13 of constructing a transmission line when many of IPL's lines were actually built. I have
14 concluded in my appraisal, therefore, that the RCNLD of IPL's Transmission Plant is
15 conservative and requires no further reduction due to current construction conditions or
16 piecemeal construction.

17 **Q46. In your analysis, have you considered whether any further adjustment is necessary**
18 **to reflect the cost that would be incurred today in constructing IPL's Distribution**
19 **Plant?**

20 A46. Yes, I have. However, many of the same problems that affect the construction of
21 transmission lines also afflict the construction of distribution plant, but to a lesser degree.
22 In addition, the design and construction of distribution plant today has its own areas of
23 increased cost related to rights-of-way and underground construction costs the Company

1 did not face when the existing system was originally constructed. Therefore, I concluded
2 that no further reduction in the RCNLD is necessary for IPL's Distribution Plant due to
3 current construction conditions or piecemeal construction.

4 **Q47. Please explain your determination of depreciation allowances for the various items**
5 **of General Plant.**

6 A47. The approach taken to determine the depreciation of the General Plant accounts is
7 consistent with the approach used to determine the depreciation of the Transmission and
8 Distribution property.

9 **Q48. How does the depreciation compare to the RCN by asset category?**

10 A48. The RCN and RCNLD are provided in Table 3 below and in IPL Witness AEB
11 Attachment 4. The total physical and functional depreciation for each asset category is
12 the difference between the RCN of that asset category and the RCNLD of that asset
13 category. As shown in Table 3 below, for example, the physical and functional
14 depreciation of Transmission Plant is \$352,579,959 or approximately 32 percent. The
15 total physical and functional depreciation for IPL's transmission, distribution, and general
16 assets is approximately \$1.8 billion or approximately 37 percent.

1

Table 3: Physical and Functional Depreciation

Description	Reproduction Cost New	% Depreciation	Depreciation	RCNLD
Transmission Plant	\$1,090,208,411	32.34%	\$352,579,959	\$737,628,452
Distribution Plant	\$3,478,998,163	38.98%	\$1,356,128,942	\$2,122,869,222
General Plant	\$394,046,888	34.11%	\$134,417,674	\$259,629,214
Total	\$4,963,253,462	37.14%	\$1,843,126,575	\$3,120,126,888

2

3

Q49. What are the results of your appraisal of the Company’s transmission, distribution, and general plant in Service as of June 30, 2017?

4

5

A49. The results of my cost study are shown in IPL Witness AEB Attachment 3. The Reproduction Cost New of IPL’s Transmission, Distribution, and General Plant in Service at June 30, 2017 is approximately \$4.96 billion. The RCNLD is approximately \$3.12 billion.

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VI. OTHER ELECTRIC UTILITY ASSETS

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Q50. Are there other assets that should be considered in the Current Value of IPL’s electric utility assets?

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12

A50. Yes. In addition to the transmission, distribution, and general plant, IPL also has systems software and intangible plant (organization costs), production plant, and other rate base items related to the electric plant in service assets.

13

14

15

Q51. Please describe the Systems Software and Intangible Plant (organization costs).

16

A51. As discussed previously, the Company’s plant accounting records are maintained according to the FERC Uniform System of Accounts. Based on that system of accounting, billing systems, customer information systems and other software are

17

18

1 recorded in Miscellaneous Intangible Plant Account 303 and organization costs are
2 included in Account 301. These FERC accounts do not include goodwill or going
3 concern value.

4 **Q52. How did you value the Systems Software and Intangible Plant?**

5 A52. I used the original cost as the estimate of the Current Value of these assets. As shown on
6 Table 1, the original cost of IPL's intangible plant (organization costs) is \$46,415 and the
7 original cost of systems software is \$87,316,743.

8 **VII. PRODUCTION PLANT**

9 **Q53. Your testimony estimates the Current Value of IPL's transmission, distribution, and**
10 **general assets. Have you considered the value of IPL's production plant assets?**

11 A53. Yes, I have reviewed the valuation of the production plant assets prepared by Petitioner's
12 Witness Reed. Mr. Reed's analysis estimates the value of IPL's production plant assets in
13 service as of June 30, 2017. As discussed in Mr. Reed's testimony, his analysis relies on
14 the income approach, specifically a discounted cash flow of the production plant assets,
15 assuming a third party, unregulated purchaser.

16 **Q54. How do the results of Petitioner's Witness Reed's analysis relate to the Current**
17 **Value of IPL's assets?**

18 A54. Petitioner's Witness Reed has estimated the value of the production plant assets using the
19 discounted cash flow methodology. This is a reasonable basis for estimating the value of
20 production plant. As shown in IPL Witness JJR Attachment 2, the value of the production
21 plant assets in service as of June 30, 2017 was approximately \$781 million. The analysis
22 presented in my testimony estimates the Current Value of the transmission, distribution,

1 and general assets using the cost approach, specifically the Replacement Cost New Less
2 Depreciation. In addition, the Current Value developed in my testimony includes the
3 value of pro forma plant additions since June 30, 2017 (discussed below) and other rate
4 base items; materials and supplies and fuel. Together, the results of Petitioner's Witness
5 Reed's analysis and my analysis form an estimate of the Current Value of IPL's regulated
6 utility assets; production, transmission, distribution, and general assets.

7 **VIII. PRO FORMA PLANT ADDITIONS**

8 **Q55. Please explain the nature of the pro forma plant additions.**

9 A55. As discussed in the testimony of Company witness Scott and presented in the schedules
10 presented by Company witness Forestal, the pro forma plant additions include production
11 plant and transmission plant assets. As shown on IPL Witness AEB Attachment 2, the
12 production plant addition of \$658.6 million is the construction cost of IPL's new 671
13 MW Eagle Valley CCGT generator. In addition to the production plant, IPL made
14 transmission-related investments of approximately \$31.9 million in system upgrades that
15 were required to connect the Eagle Valley CCGT to the IPL system and are included in
16 the pro forma plant additions. See IPL Exhibit 1-RB, Schedule RB4.

17 **Q56. How were these assets included in the Current Value?**

18 A56. The pro forma additions were included in the analysis at the original cost of the assets.

19 **Q57. Is it appropriate to rely on the original cost as the current value of the pro forma
20 additions?**

21 A57. Yes. The current value of the transmission assets was estimated based on the cost
22 approach; the reproduction cost new less depreciation. That valuation methodology

1 trends the original investment to current dollars and depreciates to reflect the age and
2 condition of the assets. Since the pro forma additions are new assets, the original cost and
3 the Current Value would be the same value for the transmission assets.

4 **Q58. Why did you rely on the cost approach for the Eagle Valley CCGT?**

5 A58. At the time that my analysis was prepared, the Eagle Valley CCGT was still under
6 construction. Therefore, it is difficult to predict the full cost structure of the facility and
7 its performance in the market. These unique characteristics of this plant make the cost
8 approach a reasonable methodology to use to value the generator.

9 **Q59. Did you conduct any analysis to determine if the construction cost of the Eagle
10 Valley CCGT was reasonable?**

11 A59. Yes. I reviewed the construction costs for the new construction of similar technology
12 generators and similar sized assets since 2010, as summarized in the FERC Form 1
13 filings of the utility operators.⁹ In addition, I considered the estimated cost of new
14 planned construction that is currently in an advanced stage of development or under
15 construction. In order to compare the costs of construction of each of these projects to the
16 current cost to construct the Eagle Valley CCGT, I escalated the construction costs of
17 these projects to current dollars using the Handy-Whitman Index. As shown on IPL
18 Witness AEB Attachment 6, the mean construction cost for combined cycle natural gas
19 generating assets that have been constructed since 2010 is \$1,065/kW in current dollars.
20 The estimated construction cost for the Eagle Valley CCGT (production plant) is

⁹ The analysis considered the construction cost of generating assets with an operating capacity of at least 500MW.

1 approximately \$656.6 million or \$979/kW which is below the mean construction cost for
2 the sample group.¹⁰

3 In addition, I reviewed the projected costs for new gas-fired combined cycle generators.
4 IPL Witness AEB Attachment 6, page 2 summarizes the projected costs to construct new
5 gas-fired combined cycle generators that are either in advanced stages of development or
6 are currently under construction. As shown on that attachment, the mean construction
7 cost for new construction projects is \$1,113/kW. The results of that analysis indicate a
8 range of value of \$884 to \$1,484/kW. The data for planned projects or projects under
9 development is not available at the level of detail necessary to determine whether or not
10 the projections include AFUDC or transmission upgrades. Therefore, in order to be
11 conservative, I compared the construction cost of the Eagle Valley CCGT and
12 transmission upgrades, \$711.9 million or \$1,061/kW to the range established by the
13 comparison group. The construction cost of the Eagle Valley CCGT, including
14 transmission upgrades and AFUDC is below the mean of the projected costs for projects
15 under development. Based on the results of these two analyses, I concluded that the
16 construction cost was a conservative estimate of the Current Value of the Eagle Valley
17 CCGT.

18 **Q60. What are the other rate base items that are included in your estimate of the Current**
19 **Value of IPL's electric utility assets?**

20 A60. I have included those other rate base items that relate to the production, transmission, and
21 distribution of electricity. Specifically, fuel inventory and materials and supplies.

¹⁰ In this analysis, Concentric compared the production plant reported for each new generating asset in the FERC Form 1 filings in the year that the plant went into service, adjusted to current dollars, with the production plant for the Eagle Valley CCGT. FERC Form 1 data would include AFUDC in the production plant accounts.

1 **Q61. How did you value the other rate base items?**

2 A61. I used the pro forma cost of fuel, materials and supplies, and regulatory assets as
3 provided in IPL Exhibit-RB, Schedule RB1. As shown in the referenced schedule, the pro
4 forma original cost of materials and supplies is \$78,221,000 and the pro forma original
5 cost of the fuel inventory is \$32,814,000. The pro forma original cost of the regulatory
6 assets is \$102,834,000. As shown on IPL Witness AEB Attachment 2, Other Rate Base
7 Adjustments total \$213,869,000.

8 **IX. CONCLUSIONS**

9 **Q62. Please summarize the Current Value of the IPL Electric Utility System.**

10 A62. The Current Value of the IPL Electric Utility Plant in Service is summarized on IPL
11 Witness AEB Attachment 2. As shown in that attachment, the Current Value of IPL's
12 electric plant in service including pro forma Adjustments is approximately \$4.68 billion.
13 The other rate base items total approximately \$213.9 million. The Current Value of these
14 electric utility assets is \$4.89 billion.

15 **Q63. Does this conclude your Verified Direct Testimony?**

16 A63. Yes, it does.

VERIFICATION

I, Ann E. Bulkley, Vice President of Concentric Energy Advisors, Inc., affirm under penalties of perjury that the foregoing representations are true and correct to the best of my knowledge, information and belief.


Ann E. Bulkley

Dated: December 20, 2017



Ann E. Bulkley
Senior Vice President

Ms. Bulkley more than two decades of management and economic consulting experience in the energy industry. Ms. Bulkley has extensive state and federal regulatory experience on both electric and natural gas issues including rate of return, cost of equity and capital structure issues. Ms. Bulkley has advised clients seeking to acquire utility assets, providing valuation services including an understanding of regulation, market expected returns, and the assessment of utility risk factors. Ms. Bulkley has assisted clients with valuations of public utility and industrial properties for ratemaking, purchase and sale considerations, ad valorem tax assessments, and accounting and financial purposes. In addition, Ms. Bulkley has experience in the areas of contract and business unit valuation, strategic alliances, market restructuring and regulatory and litigation support.

REPRESENTATIVE PROJECT EXPERIENCE

Regulatory Analysis and Ratemaking

Ms. Bulkley has provided a range of advisory services relating to regulatory policy analysis and many aspects of utility ratemaking. Specific services have included: cost of capital and return on equity testimony, cost of service and rate design analysis and testimony, development of ratemaking strategies; development of merchant function exit strategies; analysis and program development to address residual energy supply and/or provider of last resort obligations; stranded costs assessment and recovery; performance-based ratemaking analysis and design; and many aspects of traditional utility ratemaking (e.g., rate design, rate base valuation).

Cost of Capital

Ms. Bulkley has provided expert testimony on the cost of capital testimony before several state regulatory commissions. In addition, Ms. Bulkley has prepared and provided supporting analysis for at least forty Federal and State regulatory proceedings over the past seven years. Ms. Bulkley's expert testimony experience includes:

- Northern States Power Company: Before the North Dakota Public Service Commission, provided expert testimony on the cost of capital for the company's North Dakota electric utility operations.
- WE Energies: Before the Michigan Public Service Commission, provided expert testimony in support of the company's cost of capital for its electric utility operations.
- Atmos Energy: Provided expert testimony in support of the company's return on equity and capital structure before the Public Utilities Commission for the State of Colorado.
- UNS Electric: Provided expert testimony in support of the company's return on equity and capital structure before the Arizona Corporation Commission.
- Portland Natural Gas Transmission: Provided testimony strategy as well as analytical support for cost of capital testimony before the Federal Energy Regulatory Commission.



- In addition to the specific cases listed above, Ms. Bulkley has provided testimony strategy as well as analytical support on cost of capital in several cases in the following states: Arizona, Colorado, Connecticut, Massachusetts, Minnesota, New Mexico, New York, North Carolina, South Carolina, South Dakota, Virginia, and Utah.

Valuation

Ms. Bulkley has provided valuation services to utility clients, unregulated generators and private equity clients for a variety of purposes including ratemaking, fair value, ad valorem tax, litigation and damages, and acquisition. Ms. Bulkley's appraisal practices are consistent with the national standards established by the Uniform Standards of Professional Appraisal Practice. In addition, Ms. Bulkley has relied on other simulation based valuation methodologies.

Representative projects/clients have included:

- Northern Indiana Fuel and Light: Provided expert testimony regarding the fair value of the company's natural gas distribution system assets. Valuation relied on cost approach.
- Kokomo Gas: Provided expert testimony regarding the fair value of the company's natural gas distribution system assets. Valuation relied on cost approach.
- Prepared fair value rate base analyses for Northern Indiana Public Service Company for several electric rate proceedings. Valuation approaches used in this project included income, cost and comparable sales approaches.
- Confidential Utility Client: Prepared valuation of fossil and nuclear generation assets for financing purposes for regulated utility client.
- Prepared a valuation of a portfolio of generation assets for a large energy utility to be used for strategic planning purposes. Valuation approach included an income approach, a real options analysis and a risk analysis.
- Assisted clients in the restructuring of NUG contracts through the valuation of the underlying assets. Performed analysis to determine the option value of a plant in a competitively priced electricity market following the settlement of the NUG contract.
- Prepared market valuations of several purchase power contracts for large electric utilities in the sale of purchase power contracts. Assignment included an assessment of the regional power market, analysis of the underlying purchase power contracts, a traditional discounted cash flow valuation approach, as well as a risk analysis. Analyzed bids from potential acquirers using income and risk analysis approached. Prepared an assessment of the credit issues and value at risk for the selling utility.
- Prepared appraisal of a portfolio of generating facilities for a large electric utility to be used for financing purposes.
- Prepared an appraisal of a fleet of fossil generating assets for a large electric utility to establish the value of assets transferred from utility property.
- Conducted due diligence on an electric transmission and distribution system as part of a buy-side due diligence team.
- Provided analytical support for and prepared appraisal reports of generation assets to be used in ad valorem tax disputes.
- Provided analytical support and prepared testimony regarding the valuation of electric distribution system assets in five communities in a condemnation proceeding.



- Valued purchase power agreements in the transfer of assets to a deregulated electric market.

Rate-making

Ms. Bulkley has assisted several clients with analysis to support investor-owned and municipal utility clients in the preparation of rate cases. Sample engagements include:

- Assisted several investor-owned and municipal clients on cost allocation and rate design issues including the development of expert testimony supporting recommended rate alternatives.
- Worked with Canadian regulatory staff to establish filing requirements for a rate review of a newly regulated electric utility. Analyzed and evaluated rate application. Attended hearings and conducted investigation of rate application for regulatory staff. Prepared, supported and defended recommendations for revenue requirements and rates for the company. Developed rates for gas utility for transportation program and ancillary services.

Strategic and Financial Advisory Services

Ms. Bulkley has assisted several clients across North America with analytically based strategic planning, due diligence and financial advisory services.

Representative projects include:

- Preparation of feasibility studies for bond issuances for municipal and district steam clients.
- Assisted in the development of a generation strategy for an electric utility. Analyzed various NERC regions to identify potential market entry points. Evaluated potential competitors and alliance partners. Assisted in the development of gas and electric price forecasts. Developed a framework for the implementation of a risk management program.
- Assisted clients in identifying potential joint venture opportunities and alliance partners. Contacted interviewed, and evaluated potential alliance candidates based on company-established criteria for several LDCs and marketing companies. Worked with several LDCs and unregulated marketing companies to establish alliances to enter into the retail energy market. Prepared testimony in support of several merger cases and participated in the regulatory process to obtain approval for these mergers.
- Assisted clients in several buy-side due diligence efforts, providing regulatory insight and developing valuation recommendations for acquisitions of both electric and gas properties.

PROFESSIONAL HISTORY

Concentric Energy Advisors, Inc. (2002 – Present)

Senior Vice President

Vice President

Assistant Vice President

Project Manager



Navigant Consulting, Inc. (1995 – 2002)

Project Manager

Cahners Publishing Company (1995)

Economist

EDUCATION

M.A., Economics, Boston University, 1995

B.A., Economics and Finance, Simmons College, 1991

Certified General Appraiser licensed in the Commonwealth of Massachusetts and the State of New Hampshire



SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
Arizona Corporation Commission				
Tucson Electric Power Company	11/15	Tucson Electric Power Company	Docket No. E-01933A-15-0322	Return on Equity
UNS Electric	12/12	UNS Electric	Docket No. E-04204A-12-0504	Return on Equity
UNS Electric	05/15	UNS Electric	Docket No. E-04204A-15-0142	Return on Equity
Arkansas Public Service Commission				
Arkansas Oklahoma Gas Corporation	10/13	Arkansas Oklahoma Gas Corporation	Docket No. 13-078-U	Return on Equity
Colorado Public Utilities Commission				
Atmos Energy Corporation	05/13	Atmos Energy Corporation	Docket No. 13AL-0496G	Return on Equity
Atmos Energy Corporation	04/14	Atmos Energy Corporation	Docket No. 14AL-0300G	Return on Equity
Atmos Energy Corporation	05/15	Atmos Energy Corporation	Docket No. 15AL-0299G	Return on Equity
Connecticut Public Utilities Regulatory Authority				
The United Illuminating Company	07/16	The United Illuminating Company	Docket No. 16-06-04	Return on Equity
Federal Energy Regulatory Commission				
Tallgrass Interstate Gas Transmission	10/15	Tallgrass Interstate Gas Transmission	RP16-137	Return on Equity



SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
Indiana Utility Regulatory Commission				
Indianapolis Power and Light Company	09/15	Indianapolis Power and Light Company	Cause No. 44576 Cause No. 44602	Fair Value
Indianapolis Power and Light Company	12/16	Indianapolis Power and Light Company	Cause No.44893	Fair Value
Kokomo Gas and Fuel Company	09/10	Kokomo Gas and Fuel Company	Cause No. 43942	Fair Value
Northern Indiana Fuel and Light Company, Inc.	09/10	Northern Indiana Fuel and Light Company, Inc.	Cause No. 43943	Fair Value
Northern Indiana Public Service Company	10/15	Northern Indiana Public Service Company	Cause No. 44688	Fair Value
Kansas Corporation Commission				
Atmos Energy Corporation	08/15	Atmos Energy Corporation	Docket No. 16-ATMG-079-RTS	Return on Equity
Massachusetts Department of Public Utilities				
Unitil Corporation	01/04	Fitchburg Gas and Electric	DTE 03-52	Integrated Resource Plan; Gas Demand Forecast
Michigan Public Service Commission				
Wisconsin Electric Power Company	12/11	Wisconsin Electric Power Company	Case No. U-16830	Return on Equity
Michigan Tax Tribunal				
Covert Township	07/14	New Covert Generating Co., LLC.	Docket No. 399578	Valuation of Electric Generation Assets



SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
Minnesota Public Utilities Commission				
Minnesota Energy Resources Corporation	10/17	Minnesota Energy Resources Corporation	Docket No. G011/GR-17-563	Return on Equity
New Mexico Public Regulation Commission				
Southwestern Public Service Company	06/15	Southwestern Public Service Company	Case No. 15-001398-UT	Return on Equity
Southwestern Public Service Company	10/15	Southwestern Public Service Company	Case No. 15-00296-UT	Return on Equity
Southwestern Public Service Company	12/16	Southwestern Public Service Company	Case No. 16-00269-UT	Return on Equity
Southwestern Public Service Company	10/17	Southwestern Public Service Company	Case No. 17-00255-UT	Return on Equity
New York State Department of Public Service				
New York State Electric and Gas Company	05/15	New York State Electric and Gas Company	Case No. 15-G-0284	Return on Equity
Corning Natural Gas Corporation	06/16	Corning Natural Gas Corporation	Case No. 16-G-0369	Return on Equity
KeySpan Energy Delivery	01/16	KeySpan Energy Delivery	Case No. 15-G-0059	Return on Equity
National Fuel Gas Company	04/16	National Fuel Gas Company	Case No. 16-G-0257	Return on Equity
Niagara Mohawk Power Corporation	04/17	National Grid USA	Case No. C-17-E-0238	Return on Equity
Central Hudson Gas and Electric Corporation	07/17	Central Hudson Gas and Electric Corporation	Gas 17-G-0460 Electric 17-E-0459	Return on Equity



SPONSOR	DATE	CASE/APPLICANT	DOCKET /CASE NO.	SUBJECT
North Dakota Public Service Commission				
Northern States Power Company	12/10	Northern States Power Company	C-PU-10-657	Return on Equity
Northern States Power Company	12/12	Northern States Power Company	C-PU-12-813	Return on Equity
Oklahoma Corporation Commission				
Arkansas Oklahoma Gas Corporation	01/13	Arkansas Oklahoma Gas Corporation	Cause No. PUD 201200236	Return on Equity
Public Utility Commission of Pennsylvania				
American Water Works Company Inc.	04/17	Pennsylvania-American Water Company	Docket No. R-2017-2595853	Return on Equity
Public Utility Commission of Texas				
Southwestern Public Service Company	01/14	Southwestern Public Service Company	Docket No. 42004	Return on Equity
South Dakota Public Utilities Commission				
Northern States Power Company	06/14	Northern States Power Company	Docket No. EL14-058	Return on Equity

Summary
Reproduction Cost New Less Depreciation

Year ending 6-30-2017

Account Description	Original Cost	Current Value June 30, 2017	Pro Forma Adjustments	Current Value Including Pro Forma Adjustments
Intangible Plant	\$ 46,415	\$ 46,415	\$ -	\$ 46,415
Software	\$ 87,316,743	\$ 87,316,743	\$ -	\$ 87,316,743
Production Plant	\$ 2,906,886,250	\$ 781,001,351	\$ 658,617,826 [1]	\$ 1,439,619,177
Transmission Plant	\$ 361,117,688	\$ 737,628,452	\$ 31,884,404 [2]	\$ 769,512,856
Distribution Plant	\$ 1,459,054,770	\$ 2,122,869,222	\$ -	\$ 2,122,869,222
General Plant	\$ 248,739,203	\$ 259,629,214	\$ -	\$ 259,629,214
Total Electric Plant in Service	\$ 5,063,161,069 [3]	\$ 3,988,491,397	\$ 690,502,230	\$ 4,678,993,627
Other Rate Base Items: [4]				
Jurisdictional Materials & Supplies		\$ 78,221,000		\$ 78,221,000
Jurisdictional Fuel		\$ 32,814,000		\$ 32,814,000
Regulatory Assets		\$ 102,834,000		\$ 102,834,000
Adjustments		\$ 213,869,000		\$ 213,869,000
Current Value of Rate Base		\$ 4,202,360,397	\$ 690,502,230	\$ 4,892,862,627

[1] Source: RB4 and RB4 Support

[2] Source: RB4 Support

[3] The original cost was adjusted to reflect the removal of the ARO and non-jurisdictional assets (shown on RB-7 and RB-6 respectively)

[4] Source: IPL Financial Exhibit IPL-RB, Schedule RB-1

Summary
Reproduction Cost New Less Depreciation

Account Description	Original Cost	RCN	Depreciation	RCNLD	Current Value as of June 30, 2017
Transmission Plant	\$ 361,117,688	\$ 1,090,208,411	\$ 352,579,959	\$ 737,628,452	\$ 737,628,452
Distribution Plant	\$ 1,459,054,770	\$ 3,478,998,163	\$ 1,356,128,942	\$ 2,122,869,222	\$ 2,122,869,222
General Plant	\$ 248,739,203	\$ 394,046,888	\$ 134,417,674	\$ 259,629,214	\$ 259,629,214
Total Electric Plant in Service	\$ 2,068,911,661	\$ 4,963,253,462	\$ 1,843,126,575	\$ 3,120,126,888	\$ 3,120,126,888

Summary
Reproduction Cost New Less Depreciation

Account #	Account Description	Original Cost	Reproduction Cost New	Percent Condition	RCNLD
<u>Transmission Plant</u>					
350	Land	\$ 546,177	\$ 546,177	100%	\$ 546,177
350.5	Land Rights	\$ 17,948,583	\$ 17,948,583	100%	\$ 17,948,583
351	Energy Storage	\$ 14,088,049	\$ 14,357,131	90%	\$ 12,921,418
352	Structures and Improvements	\$ 12,955,339	\$ 22,141,560	82%	\$ 18,156,079
353	Station Equipment	\$ 166,852,971	\$ 489,308,569	65%	\$ 318,050,570
353.1	Station Equipment - MPP	\$ 732,477	\$ 893,090	77%	\$ 687,680
354	Towers & Fixtures	\$ 44,212,630	\$ 224,815,395	65%	\$ 146,130,007
355	Poles & Fixtures	\$ 54,260,153	\$ 107,445,643	79%	\$ 84,882,058
355.1	Poles & Fixtures - MPP	\$ 298,029	\$ 335,820	70%	\$ 235,074
356	Overhead Conductors	\$ 49,222,908	\$ 212,416,059	65%	\$ 138,070,438
357	Underground Conduit	\$ 373	\$ 384	96%	\$ 368
Total, Transmission Plant		\$ 361,117,688	\$ 1,090,208,411	68%	\$ 737,628,452
<u>Distribution Plant</u>					
360	Land	\$ 3,610,913	\$ 3,610,913	100%	\$ 3,610,913
360.5	Land Rights	\$ 391,444	\$ 391,444	100%	\$ 391,444
361	Structures and Improvements	\$ 11,404,896.08	\$ 41,508,733	56%	\$ 23,244,890
362	Station Equipment	\$ 166,357,968.05	\$ 505,754,650	63%	\$ 318,625,430
364	Poles, Towers & Fixtures	\$ 153,142,294.76	\$ 329,583,824	64%	\$ 210,933,647
365	Overhead Conductors	\$ 205,300,901.98	\$ 530,683,372	56%	\$ 297,182,688
366	Underground Conduit	\$ 114,917,196.51	\$ 253,691,854	65%	\$ 164,899,705
367	Underground Conductors & Devices	\$ 260,596,322.44	\$ 503,336,105	59%	\$ 296,968,302
368	Line Transformers	\$ 228,315,454.56	\$ 723,159,509	67%	\$ 484,516,871
369	Services	\$ 132,155,678.32	\$ 255,960,268	61%	\$ 156,135,764
370	Meters	\$ 54,373,116.72	\$ 87,351,054	47%	\$ 41,054,995
370.1	Smart Meters	\$ 24,564,685.16	\$ 24,569,630	70%	\$ 17,198,741
371	Installations on Customer's Premises	\$ 39,869,113.95	\$ 60,139,510	50%	\$ 30,069,755
373	Street Lighting & Signaling Systems	\$ 64,054,784.26	\$ 159,257,297	49%	\$ 78,036,075
Total, Distribution Plant		\$ 1,459,054,770	\$ 3,478,998,163	61%	\$ 2,122,869,222
<u>General Plant</u>					
389	Land and Land Rights	\$ 3,777,830	\$ 3,777,830	100%	\$ 3,777,830
390	Structures and Improvements	\$ 92,398,601	\$ 205,512,798	76%	\$ 156,189,727
391	Office Furniture & Equipment	\$ 19,952,918	\$ 29,736,647	52%	\$ 15,463,056
391.6	Computer Equipment	\$ 29,679,908	\$ 31,308,182	50%	\$ 15,654,091
392	Transportation Equipment	\$ 42,208,194	\$ 45,852,524	47%	\$ 21,550,686
393	Stores Equipment	\$ 2,915,369	\$ 5,094,548	52%	\$ 2,649,165
394	Tools, Shop & Garage Equipment	\$ 17,587,610	\$ 24,594,694	54%	\$ 13,281,135
395	Laboratory Equipment	\$ 10,089,959	\$ 14,294,769	48%	\$ 6,861,489
396	Power Operated Equipment	\$ 2,682,985	\$ 4,680,277	30%	\$ 1,404,083
397	Communication Equipment	\$ 23,662,243	\$ 23,032,020	84%	\$ 19,346,897
398	Miscellaneous Equipment	\$ 3,783,587	\$ 6,162,600	56%	\$ 3,451,056
Total, General Plant		\$ 248,739,203	\$ 394,046,888	66%	\$ 259,629,214
Total Transmission & Distribution		\$ 2,068,911,661	\$ 4,963,253,462		\$ 3,120,126,888

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
301	Organization Costs, Electric	1942	\$ 46,415	None	1	1	1.00	\$ 46,415	76	\$ 3,504,337
301.0 Total		Total	\$ 46,415		0.00	0.00		\$ 46,415	76	\$ 3,504,337
303	Intangible Property, Electric	1989	\$ 5,405,681	None	1	1	1.00	\$ 5,405,681	29	\$ 154,061,916
		1992	\$ 2,237,807	None	1	1	1.00	\$ 2,237,807	26	\$ 57,064,077
		1993	\$ 602,376	None	1	1	1.00	\$ 602,376	25	\$ 14,758,203
		1995	\$ 344,512	None	1	1	1.00	\$ 344,512	23	\$ 7,751,520
		1997	\$ 3,934,130	None	1	1	1.00	\$ 3,934,130	21	\$ 80,649,669
		1998	\$ 12,558,329	None	1	1	1.00	\$ 12,558,329	20	\$ 244,887,414
		1999	\$ 8,582,788	None	1	1	1.00	\$ 8,582,788	19	\$ 158,781,583
		2000	\$ 415,079	None	1	1	1.00	\$ 415,079	18	\$ 7,263,879
		2001	\$ 486,498	None	1	1	1.00	\$ 486,498	17	\$ 8,027,218
		2002	\$ 2,056,479	None	1	1	1.00	\$ 2,056,479	16	\$ 31,875,431
		2003	\$ 6,884,192	None	1	1	1.00	\$ 6,884,192	15	\$ 99,820,782
		2004	\$ 930,685	None	1	1	1.00	\$ 930,685	14	\$ 12,564,251
		2005	\$ 502,788	None	1	1	1.00	\$ 502,788	13	\$ 6,284,848
		2006	\$ 492,656	None	1	1	1.00	\$ 492,656	12	\$ 5,665,539
		2007	\$ 3,006,916	None	1	1	1.00	\$ 3,006,916	11	\$ 31,572,613
		2008	\$ 958,658	None	1	1	1.00	\$ 958,658	10	\$ 9,107,248
		2009	\$ 7,473,791	None	1	1	1.00	\$ 7,473,791	9	\$ 63,527,221
		2010	\$ 4,072,141	None	1	1	1.00	\$ 4,072,141	8	\$ 30,541,060
		2011	\$ 6,641,539	None	1	1	1.00	\$ 6,641,539	7	\$ 43,170,006
		2012	\$ 4,517,150	None	1	1	1.00	\$ 4,517,150	6	\$ 24,844,323
		2013	\$ 5,884,280	None	1	1	1.00	\$ 5,884,280	5	\$ 26,479,258
		2014	\$ 1,401,818	None	1	1	1.00	\$ 1,401,818	4	\$ 4,906,364
		2015	\$ 2,854,812	None	1	1	1.00	\$ 2,854,812	3	\$ 7,137,031
		2016	\$ 4,119,605	None	1	1	1.00	\$ 4,119,605	2	\$ 6,179,408
		2017	\$ 952,033	None	1	1	1.00	\$ 952,033	0	\$ 238,008
303.0 Total		Total	\$ 87,316,743		0.00	0.00		\$ 87,316,743	13	\$ 1,137,158,871
350	Land	1930	\$ 2,282	none	1	1	1.00	\$ 2,282	88	\$ 199,712
		1931	\$ 1,991	none	1	1	1.00	\$ 1,991	87	\$ 172,195
		1950	\$ 5,119	none	1	1	1.00	\$ 5,119	68	\$ 345,565
		1958	\$ 2,043	none	1	1	1.00	\$ 2,043	60	\$ 121,561
		1961	\$ 101,853	none	1	1	1.00	\$ 101,853	57	\$ 5,754,702
		1963	\$ 97,390	none	1	1	1.00	\$ 97,390	55	\$ 5,307,780
		1964	\$ 28,805	none	1	1	1.00	\$ 28,805	54	\$ 1,541,062
		1966	\$ 13,326	none	1	1	1.00	\$ 13,326	52	\$ 686,286
		1968	\$ 108,558	none	1	1	1.00	\$ 108,558	50	\$ 5,373,619
		1969	\$ 133,612	none	1	1	1.00	\$ 133,612	49	\$ 6,480,167
		1970	\$ 49,469	none	1	1	1.00	\$ 49,469	48	\$ 2,349,799
		1971	\$ 668	none	1	1	1.00	\$ 668	47	\$ 31,060
		1972	\$ 1,060	none	1	1	1.00	\$ 1,060	46	\$ 48,221
350.0 Total		Total	\$ 546,177		0.00	0.00		\$ 546,177	52	\$ 28,411,730
350.5	Land Rights	1930	\$ 418,506	none	1	1	1.00	\$ 418,506	88	\$ 36,619,272
		1931	\$ 152,840	none	1	1	1.00	\$ 152,840	87	\$ 13,220,679
		1932	\$ 82	none	1	1	1.00	\$ 82	86	\$ 7,039
		1938	\$ 301	none	1	1	1.00	\$ 301	80	\$ 23,937
		1944	\$ 2	none	1	1	1.00	\$ 2	74	\$ 147
		1946	\$ 1,395	none	1	1	1.00	\$ 1,395	72	\$ 99,732
		1948	\$ 4,116	none	1	1	1.00	\$ 4,116	70	\$ 286,045
		1949	\$ 127,195	none	1	1	1.00	\$ 127,195	69	\$ 8,712,887
		1950	\$ 19,957	none	1	1	1.00	\$ 19,957	68	\$ 1,347,125
		1951	\$ 15	none	1	1	1.00	\$ 15	67	\$ 998
		1952	\$ 89,195	none	1	1	1.00	\$ 89,195	66	\$ 5,842,244
		1953	\$ 275,533	none	1	1	1.00	\$ 275,533	65	\$ 17,771,900
		1954	\$ 6	none	1	1	1.00	\$ 6	64	\$ 380
		1955	\$ 427	none	1	1	1.00	\$ 427	63	\$ 26,688

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1956	\$ 34,918	none	1	1	1.00	\$ 34,918	62	\$ 2,147,427
		1957	\$ 6,697	none	1	1	1.00	\$ 6,697	61	\$ 405,192
		1959	\$ 43,365	none	1	1	1.00	\$ 43,365	59	\$ 2,536,858
		1960	\$ 4,868	none	1	1	1.00	\$ 4,868	58	\$ 279,936
		1961	\$ 90,449	none	1	1	1.00	\$ 90,449	57	\$ 5,110,383
		1962	\$ 730,331	none	1	1	1.00	\$ 730,331	56	\$ 40,533,364
		1963	\$ 133,623	none	1	1	1.00	\$ 133,623	55	\$ 7,282,441
		1964	\$ 278,862	none	1	1	1.00	\$ 278,862	54	\$ 14,919,139
		1965	\$ 77,553	none	1	1	1.00	\$ 77,553	53	\$ 4,071,551
		1966	\$ 5,185	none	1	1	1.00	\$ 5,185	52	\$ 267,040
		1967	\$ 162,249	none	1	1	1.00	\$ 162,249	51	\$ 8,193,562
		1968	\$ 399,687	none	1	1	1.00	\$ 399,687	50	\$ 19,784,516
		1969	\$ 70,660	none	1	1	1.00	\$ 70,660	49	\$ 3,427,018
		1970	\$ 1,277,155	none	1	1	1.00	\$ 1,277,155	48	\$ 60,664,884
		1971	\$ 604,039	none	1	1	1.00	\$ 604,039	47	\$ 28,087,794
		1972	\$ 1,201,974	none	1	1	1.00	\$ 1,201,974	46	\$ 54,689,810
		1973	\$ 586,361	none	1	1	1.00	\$ 586,361	45	\$ 26,093,044
		1974	\$ 686,475	none	1	1	1.00	\$ 686,475	44	\$ 29,861,669
		1975	\$ 1,209,350	none	1	1	1.00	\$ 1,209,350	43	\$ 51,397,375
		1976	\$ 424,534	none	1	1	1.00	\$ 424,534	42	\$ 17,618,176
		1977	\$ 323,198	none	1	1	1.00	\$ 323,198	41	\$ 13,089,517
		1978	\$ 34,632	none	1	1	1.00	\$ 34,632	40	\$ 1,367,974
		1979	\$ 46,378	none	1	1	1.00	\$ 46,378	39	\$ 1,785,548
		1980	\$ 22,171	none	1	1	1.00	\$ 22,171	38	\$ 831,415
		1981	\$ 365	none	1	1	1.00	\$ 365	37	\$ 13,323
		1982	\$ 98,040	none	1	1	1.00	\$ 98,040	36	\$ 3,480,406
		1983	\$ 3,421,992	none	1	1	1.00	\$ 3,421,992	35	\$ 118,058,724
		1984	\$ 5,882	none	1	1	1.00	\$ 5,882	34	\$ 197,049
		1985	\$ 10,213	none	1	1	1.00	\$ 10,213	33	\$ 331,923
		1986	\$ 3,437,050	none	1	1	1.00	\$ 3,437,050	32	\$ 108,267,072
		1987	\$ 622	none	1	1	1.00	\$ 622	31	\$ 18,971
		1988	\$ 8,602	none	1	1	1.00	\$ 8,602	30	\$ 253,749
		1989	\$ 1,285	none	1	1	1.00	\$ 1,285	29	\$ 36,608
		1990	\$ 215	none	1	1	1.00	\$ 215	28	\$ 5,913
		1991	\$ 125,366	none	1	1	1.00	\$ 125,366	27	\$ 3,322,199
		1992	\$ 13,558	none	1	1	1.00	\$ 13,558	26	\$ 345,729
		1993	\$ 13,916	none	1	1	1.00	\$ 13,916	25	\$ 340,942
		1994	\$ 263,922	none	1	1	1.00	\$ 263,922	24	\$ 6,202,167
		1995	\$ 3,575	none	1	1	1.00	\$ 3,575	23	\$ 80,440
		1996	\$ 18,942	none	1	1	1.00	\$ 18,942	22	\$ 407,259
		1997	\$ 10,639	none	1	1	1.00	\$ 10,639	21	\$ 218,102
		1998	\$ 16	none	1	1	1.00	\$ 16	20	\$ 312
		2002	\$ 30,243	none	1	1	1.00	\$ 30,243	16	\$ 468,759
		2003	\$ 9,800	none	1	1	1.00	\$ 9,800	15	\$ 142,100
		2005	\$ 141	none	1	1	1.00	\$ 141	13	\$ 1,768
		2007	\$ 900	none	1	1	1.00	\$ 900	11	\$ 9,446
		2008	\$ 8	none	1	1	1.00	\$ 8	10	\$ 73
		2010	\$ 590,592	none	1	1	1.00	\$ 590,592	8	\$ 4,429,438
		2011	\$ 646	none	1	1	1.00	\$ 646	7	\$ 4,196
		2015	\$ 337,769	none	1	1	1.00	\$ 337,769	3	\$ 844,421
350.5 Total		Total	\$ 17,948,583		0.00	0.00		\$ 17,948,583	40	\$ 725,885,793
351	Energy Storage	2016	\$ 14,088,049	HW_E3_53	772.25	787.00	1.02	\$ 14,357,131	2	\$ 21,535,697
351.0 Total		Total	\$ 14,088,049		0.00	0.00		\$ 14,357,131	2	\$ 21,535,697
352	Structures & Improvements	1963	\$ 170,845	HW_B3_4	61.00	540.00	8.85	\$ 1,512,399	55	\$ 82,425,720
		1967	\$ 244,211	HW_B3_4	64.00	540.00	8.44	\$ 2,060,529	51	\$ 104,056,738
		1968	\$ 14,727	HW_B3_4	68.00	540.00	7.94	\$ 116,950	50	\$ 5,789,026
		1969	\$ 206,038	HW_B3_4	72.00	540.00	7.50	\$ 1,545,282	49	\$ 74,946,188

Summary
 Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1970	\$ 66,554	HW_B3_4	76.00	540.00	7.11	\$ 472,883	48	\$ 22,461,951
		1971	\$ 155,458	HW_B3_4	83.00	540.00	6.51	\$ 1,011,413	47	\$ 47,030,715
		1972	\$ 73,253	HW_B3_4	89.00	540.00	6.07	\$ 444,457	46	\$ 20,222,775
		1973	\$ 153,185	HW_B3_4	100.00	540.00	5.40	\$ 827,199	45	\$ 36,810,334
		1974	\$ 5,865	HW_B3_4	139.75	540.00	3.86	\$ 22,661	44	\$ 985,753
		1975	\$ 3,511	HW_B3_4	161.25	540.00	3.35	\$ 11,757	43	\$ 499,657
		1976	\$ 179,795	HW_B3_4	152.00	540.00	3.55	\$ 638,745	42	\$ 26,507,928
		1977	\$ 375,829	HW_B3_4	153.25	540.00	3.52	\$ 1,324,290	41	\$ 53,633,757
		1982	\$ 14,814	HW_B3_4	201.50	540.00	2.68	\$ 39,700	36	\$ 1,409,352
		1983	\$ 30,504	HW_B3_4	200.25	540.00	2.70	\$ 82,259	35	\$ 2,837,934
		1985	\$ 34,804	HW_B3_4	236.25	540.00	2.29	\$ 79,551	33	\$ 2,585,416
		1986	\$ 12,911	HW_B3_4	244.00	540.00	2.21	\$ 28,574	32	\$ 900,082
		1987	\$ 48,158	HW_B3_4	251.25	540.00	2.15	\$ 103,503	31	\$ 3,156,835
		1988	\$ 6,146	HW_B3_4	267.75	540.00	2.02	\$ 12,394	30	\$ 365,634
		1990	\$ 46,235	HW_B3_4	278.00	540.00	1.94	\$ 89,808	28	\$ 2,469,727
		1991	\$ 92,305	HW_B3_4	251.25	540.00	2.15	\$ 198,386	27	\$ 5,257,241
		1992	\$ 1,411	HW_B3_4	249.00	540.00	2.17	\$ 3,061	26	\$ 78,054
		1993	\$ 23,154	HW_B3_4	267.00	540.00	2.02	\$ 46,828	25	\$ 1,147,291
		1994	\$ 164,162	HW_B3_4	293.25	540.00	1.84	\$ 302,294	24	\$ 7,103,905
		1995	\$ 20,440	HW_B3_4	305.50	540.00	1.77	\$ 36,130	23	\$ 812,925
		1996	\$ 61,350	HW_B3_4	319.00	540.00	1.69	\$ 103,853	22	\$ 2,232,833
		1997	\$ 2,394	HW_B3_4	322.00	540.00	1.68	\$ 4,014	21	\$ 82,295
		1999	\$ 67,181	HW_B3_4	331.75	540.00	1.63	\$ 109,352	19	\$ 2,023,009
		2001	\$ 42,902	HW_B3_4	361.75	540.00	1.49	\$ 64,041	17	\$ 1,056,685
		2003	\$ 2,760	HW_B3_4	374.25	540.00	1.44	\$ 3,982	15	\$ 57,744
		2004	\$ 96,831	HW_B3_4	421.50	540.00	1.28	\$ 124,054	14	\$ 1,674,730
		2005	\$ 4,270	HW_B3_4	438.25	540.00	1.23	\$ 5,262	13	\$ 65,772
		2006	\$ 53,544	HW_B3_4	457.25	540.00	1.18	\$ 63,234	12	\$ 727,191
		2007	\$ 6,873	HW_B3_4	510.51	540.00	1.06	\$ 7,270	11	\$ 76,331
		2009	\$ 3,095	HW_B3_4	501.50	540.00	1.08	\$ 3,333	9	\$ 28,329
		2010	\$ 52,346	HW_B3_4	492.75	540.00	1.10	\$ 57,366	8	\$ 430,242
		2011	\$ 10,984	HW_B3_4	512.75	540.00	1.05	\$ 11,568	7	\$ 75,191
		2012	\$ 14,254	HW_B3_4	524.00	540.00	1.03	\$ 14,689	6	\$ 80,788
		2013	\$ 57,922	HW_B3_4	530.75	540.00	1.02	\$ 58,932	5	\$ 265,192
		2015	\$ 72,053	HW_B3_4	531.75	540.00	1.02	\$ 73,171	3	\$ 182,928
		2016	\$ 10,262,267	HW_B3_4	531.50	540.00	1.02	\$ 10,426,386	2	\$ 15,639,579
		Total	\$ 12,955,339		0.00	0.00		\$ 22,141,560	24	\$ 528,193,777
352.0 Total										
353	Station Equipment	1914	\$ 22	HW_E3_53	15.00	787.00	52.47	\$ 1,130	104	\$ 116,969
		1916	\$ 516	HW_E3_53	17.00	787.00	46.29	\$ 23,880	102	\$ 2,423,809
		1921	\$ 609	HW_E3_53	31.00	787.00	25.39	\$ 15,461	97	\$ 1,492,011
		1923	\$ 14	HW_E3_53	29.00	787.00	27.14	\$ 371	95	\$ 35,083
		1927	\$ 15	HW_E3_53	30.00	787.00	26.23	\$ 387	91	\$ 35,066
		1928	\$ 158	HW_E3_53	30.00	787.00	26.23	\$ 4,146	90	\$ 371,083
		1929	\$ 559	HW_E3_53	31.00	787.00	25.39	\$ 14,180	89	\$ 1,254,972
		1931	\$ 44	HW_E3_53	30.00	787.00	26.23	\$ 1,164	87	\$ 100,684
		1932	\$ 650,708	HW_E3_53	28.00	787.00	28.11	\$ 18,289,555	86	\$ 1,563,756,911
		1935	\$ 186	HW_E3_53	33.00	787.00	23.85	\$ 4,428	83	\$ 365,345
		1937	\$ 384	HW_E3_53	36.00	787.00	21.86	\$ 8,401	81	\$ 676,246
		1938	\$ 209	HW_E3_53	36.00	787.00	21.86	\$ 4,572	80	\$ 363,459
		1939	\$ 2,248	HW_E3_53	36.00	787.00	21.86	\$ 49,141	79	\$ 3,857,598
		1940	\$ 3,633	HW_E3_53	36.00	787.00	21.86	\$ 79,432	78	\$ 6,155,990
		1941	\$ 11,164	HW_E3_53	37.00	787.00	21.27	\$ 237,456	77	\$ 18,165,350
		1942	\$ 68,530	HW_E3_53	38.00	787.00	20.71	\$ 1,419,284	76	\$ 107,155,964
		1943	\$ 28,171	HW_E3_53	37.00	787.00	21.27	\$ 599,198	75	\$ 44,640,249
		1944	\$ 1,391	HW_E3_53	35.00	787.00	22.49	\$ 31,273	74	\$ 2,298,575
		1945	\$ 46,684	HW_E3_53	35.00	787.00	22.49	\$ 1,049,722	73	\$ 76,104,875
		1946	\$ 17,608	HW_E3_53	40.00	787.00	19.68	\$ 346,439	72	\$ 24,770,401

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1947	\$ 41,402	HW_E3_53	48.00	787.00	16.40	\$ 678,826	71	\$ 47,857,200
		1948	\$ 115,948	HW_E3_53	50.00	787.00	15.74	\$ 1,825,016	70	\$ 126,838,602
		1949	\$ 102,775	HW_E3_53	53.00	787.00	14.85	\$ 1,526,105	69	\$ 104,538,200
		1950	\$ 44,474	HW_E3_53	57.00	787.00	13.81	\$ 614,050	68	\$ 41,448,374
		1951	\$ 369,414	HW_E3_53	64.00	787.00	12.30	\$ 4,542,635	67	\$ 302,085,257
		1952	\$ 823,517	HW_E3_53	66.00	787.00	11.92	\$ 9,819,819	66	\$ 643,198,119
		1953	\$ 355,982	HW_E3_53	69.00	787.00	11.41	\$ 4,060,264	65	\$ 261,887,031
		1954	\$ 5,538	HW_E3_53	71.00	787.00	11.08	\$ 61,382	64	\$ 3,897,729
		1955	\$ 60,110	HW_E3_53	72.00	787.00	10.93	\$ 657,033	63	\$ 41,064,533
		1956	\$ 440,391	HW_E3_53	78.00	787.00	10.09	\$ 4,443,430	62	\$ 273,270,948
		1957	\$ 86,673	HW_E3_53	82.00	787.00	9.60	\$ 831,854	61	\$ 50,327,168
		1958	\$ 776,124	HW_E3_53	86.00	787.00	9.15	\$ 7,102,437	60	\$ 422,594,973
		1959	\$ 78,665	HW_E3_53	84.00	787.00	9.37	\$ 737,014	59	\$ 43,115,312
		1960	\$ 12,711	HW_E3_53	78.00	787.00	10.09	\$ 128,247	58	\$ 7,374,179
		1961	\$ 179,641	HW_E3_53	70.00	787.00	11.24	\$ 2,019,681	57	\$ 114,111,984
		1962	\$ 518,887	HW_E3_53	69.00	787.00	11.41	\$ 5,918,323	56	\$ 328,466,954
		1963	\$ 753,660	HW_E3_53	65.00	787.00	12.11	\$ 9,125,088	55	\$ 497,317,289
		1964	\$ 492,799	HW_E3_53	69.00	787.00	11.41	\$ 5,620,764	54	\$ 300,710,876
		1965	\$ 439,346	HW_E3_53	72.00	787.00	10.93	\$ 4,802,291	53	\$ 252,120,303
		1966	\$ 271,271	HW_E3_53	75.00	787.00	10.49	\$ 2,846,532	52	\$ 146,596,387
		1967	\$ 2,041,928	HW_E3_53	79.00	787.00	9.96	\$ 20,341,739	51	\$ 1,027,257,801
		1968	\$ 1,393,679	HW_E3_53	82.00	787.00	9.60	\$ 13,375,921	50	\$ 662,108,109
		1969	\$ 2,911,735	HW_E3_53	86.00	787.00	9.15	\$ 26,645,763	49	\$ 1,292,319,492
		1970	\$ 1,109,248	HW_E3_53	90.00	787.00	8.74	\$ 9,699,755	48	\$ 460,738,341
		1971	\$ 2,522,654	HW_E3_53	92.00	787.00	8.55	\$ 21,579,657	47	\$ 1,003,454,036
		1972	\$ 1,178,770	HW_E3_53	94.00	787.00	8.37	\$ 9,869,063	46	\$ 449,042,350
		1973	\$ 3,215,144	HW_E3_53	100.00	787.00	7.87	\$ 25,303,182	45	\$ 1,125,991,579
		1974	\$ 518,628	HW_E3_53	125.00	787.00	6.30	\$ 3,265,279	44	\$ 142,039,631
		1975	\$ 982,959	HW_E3_53	148.00	787.00	5.32	\$ 5,226,950	43	\$ 222,145,382
		1976	\$ 3,130,260	HW_E3_53	152.00	787.00	5.18	\$ 16,207,335	42	\$ 672,604,389
		1977	\$ 2,713,583	HW_E3_53	164.00	787.00	4.80	\$ 13,021,890	41	\$ 527,386,548
		1978	\$ 733,650	HW_E3_53	175.00	787.00	4.50	\$ 3,299,329	40	\$ 130,323,513
		1979	\$ 423,531	HW_E3_53	189.00	787.00	4.16	\$ 1,763,592	39	\$ 67,898,295
		1980	\$ 493,115	HW_E3_53	205.00	787.00	3.84	\$ 1,893,082	38	\$ 70,990,584
		1981	\$ 654,064	HW_E3_53	222.00	787.00	3.55	\$ 2,318,686	37	\$ 84,632,054
		1982	\$ 3,156,618	HW_E3_53	236.00	787.00	3.33	\$ 10,526,517	36	\$ 373,691,350
		1983	\$ 1,485,150	HW_E3_53	237.00	787.00	3.32	\$ 4,931,701	35	\$ 170,143,683
		1984	\$ 1,156,469	HW_E3_53	241.00	787.00	3.27	\$ 3,776,519	34	\$ 126,513,381
		1985	\$ 3,811,903	HW_E3_53	245.00	787.00	3.21	\$ 12,244,765	33	\$ 397,954,854
		1986	\$ 2,985,515	HW_E3_53	247.00	787.00	3.19	\$ 9,512,553	32	\$ 299,645,430
		1987	\$ 2,774,913	HW_E3_53	255.00	787.00	3.09	\$ 8,564,143	31	\$ 261,206,362
		1988	\$ 740,177	HW_E3_53	267.25	787.00	2.94	\$ 2,179,678	30	\$ 64,300,497
		1989	\$ 2,796,656	HW_E3_53	281.75	787.00	2.79	\$ 7,811,776	29	\$ 222,635,616
		1990	\$ 2,229,969	HW_E3_53	298.75	787.00	2.63	\$ 5,874,428	28	\$ 161,546,776
		1991	\$ 5,263,672	HW_E3_53	300.75	787.00	2.62	\$ 13,773,933	27	\$ 365,009,216
		1992	\$ 3,312,629	HW_E3_53	309.75	787.00	2.54	\$ 8,416,591	26	\$ 214,623,080
		1993	\$ 4,212,211	HW_E3_53	320.75	787.00	2.45	\$ 10,335,182	25	\$ 253,211,969
		1994	\$ 2,888,122	HW_E3_53	336.75	787.00	2.34	\$ 6,749,671	24	\$ 158,617,274
		1995	\$ 2,529,425	HW_E3_53	350.25	787.00	2.25	\$ 5,683,534	23	\$ 127,879,506
		1996	\$ 572,625	HW_E3_53	352.25	787.00	2.23	\$ 1,279,364	22	\$ 27,506,321
		1997	\$ 582,706	HW_E3_53	357.25	787.00	2.20	\$ 1,283,666	21	\$ 26,315,154
		1998	\$ 401,436	HW_E3_53	367.25	787.00	2.14	\$ 860,259	20	\$ 16,775,043
		1999	\$ 924,261	HW_E3_53	372.75	787.00	2.11	\$ 1,951,425	19	\$ 36,101,361
		2000	\$ 3,032,862	HW_E3_53	393.50	787.00	2.00	\$ 6,065,724	18	\$ 106,150,163
		2001	\$ 5,754,953	HW_E3_53	411.50	787.00	1.91	\$ 11,006,436	17	\$ 181,606,188
		2002	\$ 2,222,439	HW_E3_53	422.75	787.00	1.86	\$ 4,137,338	16	\$ 64,128,740
		2003	\$ 1,015,761	HW_E3_53	425.75	787.00	1.85	\$ 1,877,637	15	\$ 27,225,732

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		2004	\$ 195,680	HW_E3_53	460.50	787.00	1.71	\$ 334,420	14	\$ 4,514,667
		2005	\$ 1,170,033	HW_E3_53	497.50	787.00	1.58	\$ 1,850,886	13	\$ 23,136,074
		2006	\$ 922,653	HW_E3_53	537.50	787.00	1.46	\$ 1,350,936	12	\$ 15,535,765
		2007	\$ 2,009,007	HW_E3_53	584.43	787.00	1.35	\$ 2,705,373	11	\$ 28,406,413
		2008	\$ 415,076	HW_E3_53	624.50	787.00	1.26	\$ 523,082	10	\$ 4,969,280
		2009	\$ 585,309	HW_E3_53	645.00	787.00	1.22	\$ 714,167	9	\$ 6,070,421
		2010	\$ 2,475,209	HW_E3_53	667.50	787.00	1.18	\$ 2,918,337	8	\$ 21,887,526
		2011	\$ 828,369	HW_E3_53	697.25	787.00	1.13	\$ 934,997	7	\$ 6,077,478
		2012	\$ 2,626,889	HW_E3_53	720.25	787.00	1.09	\$ 2,870,339	6	\$ 15,786,864
		2013	\$ 3,795,001	HW_E3_53	731.75	787.00	1.08	\$ 4,081,538	5	\$ 18,366,923
		2014	\$ 5,681,437	HW_E3_53	746.50	787.00	1.05	\$ 5,989,673	4	\$ 20,963,856
		2015	\$ 16,797,477	HW_E3_53	763.25	787.00	1.03	\$ 17,320,163	3	\$ 43,300,408
		2016	\$ 44,238,289	HW_E3_53	772.25	787.00	1.02	\$ 45,083,242	2	\$ 67,624,863
		2017	\$ 436,944	HW_E3_53	787.00	787.00	1.00	\$ 436,944	0	\$ 109,236
353.0 Total		Total	\$ 166,852,971		0.00	0.00		\$ 489,308,569	36	\$ 17,761,431,631
353.1	Station Equipment - MPP	2007	\$ 304,396	HW_E3_53	584.43	787.00	1.35	\$ 409,907	11	\$ 4,304,023
		2011	\$ 428,081	HW_E3_53	697.25	787.00	1.13	\$ 483,184	7	\$ 3,140,693
353.1 Total		Total	\$ 732,477		0.00	0.00		\$ 893,090	8	\$ 7,444,715
354	Towers & Fixtures	1932	\$ 647,143	HW_E3_54	13.00	595.00	45.77	\$ 29,619,233	86	\$ 2,532,444,438
		1939	\$ 1,223	HW_E3_54	17.00	595.00	35.00	\$ 42,819	79	\$ 3,361,292
		1940	\$ 2,531	HW_E3_54	17.00	595.00	35.00	\$ 88,582	78	\$ 6,865,121
		1942	\$ 259	HW_E3_54	19.00	595.00	31.32	\$ 8,096	76	\$ 611,253
		1943	\$ 531	HW_E3_54	19.00	595.00	31.32	\$ 16,618	75	\$ 1,238,067
		1949	\$ 565,751	HW_E3_54	31.00	595.00	19.19	\$ 10,858,770	69	\$ 743,825,716
		1950	\$ 101,457	HW_E3_54	33.00	595.00	18.03	\$ 1,829,307	68	\$ 123,478,231
		1951	\$ 5,610	HW_E3_54	36.00	595.00	16.53	\$ 92,717	67	\$ 6,165,672
		1952	\$ 29,487	HW_E3_54	37.00	595.00	16.08	\$ 474,189	66	\$ 31,059,387
		1953	\$ 37,100	HW_E3_54	40.00	595.00	14.88	\$ 551,864	65	\$ 35,595,218
		1956	\$ 4,665	HW_E3_54	45.00	595.00	13.22	\$ 61,678	62	\$ 3,793,170
		1957	\$ 19,821	HW_E3_54	47.00	595.00	12.66	\$ 250,927	61	\$ 15,181,095
		1958	\$ 14,109	HW_E3_54	49.00	595.00	12.14	\$ 171,329	60	\$ 10,194,085
		1959	\$ 3,838	HW_E3_54	51.00	595.00	11.67	\$ 44,781	59	\$ 2,619,681
		1960	\$ 1,994	HW_E3_54	52.00	595.00	11.44	\$ 22,814	58	\$ 1,311,832
		1961	\$ 30,143	HW_E3_54	53.00	595.00	11.23	\$ 338,399	57	\$ 19,119,554
		1962	\$ 30,758	HW_E3_54	54.00	595.00	11.02	\$ 338,913	56	\$ 18,809,671
		1963	\$ 17,886	HW_E3_54	55.00	595.00	10.82	\$ 193,494	55	\$ 10,545,417
		1964	\$ 35,942	HW_E3_54	57.00	595.00	10.44	\$ 375,182	54	\$ 20,072,245
		1965	\$ 51,290	HW_E3_54	60.00	595.00	9.92	\$ 508,621	53	\$ 26,702,596
		1967	\$ 3,900,736	HW_E3_54	66.00	595.00	9.02	\$ 35,165,723	51	\$ 1,775,869,007
		1968	\$ 1,621,778	HW_E3_54	69.00	595.00	8.62	\$ 13,984,900	50	\$ 692,252,537
		1970	\$ 2,134,245	HW_E3_54	81.00	595.00	7.35	\$ 15,677,482	48	\$ 744,680,402
		1971	\$ 887,076	HW_E3_54	87.00	595.00	6.84	\$ 6,066,785	47	\$ 282,105,510
		1972	\$ 2,093,018	HW_E3_54	93.00	595.00	6.40	\$ 13,390,816	46	\$ 609,282,149
		1973	\$ 154,272	HW_E3_54	100.00	595.00	5.95	\$ 917,920	45	\$ 40,847,424
		1975	\$ 2,065,897	HW_E3_54	140.00	595.00	4.25	\$ 8,780,061	43	\$ 373,152,610
		1976	\$ 391,966	HW_E3_54	140.00	595.00	4.25	\$ 1,665,855	42	\$ 69,132,964
		1977	\$ 9,568,521	HW_E3_54	145.00	595.00	4.10	\$ 39,263,932	41	\$ 1,590,189,227
		1978	\$ 74,411	HW_E3_54	159.00	595.00	3.74	\$ 278,454	40	\$ 10,998,953
		1980	\$ 84,952	HW_E3_54	196.00	595.00	3.04	\$ 257,890	38	\$ 9,670,877
		1981	\$ 8,055	HW_E3_54	204.00	595.00	2.92	\$ 23,495	37	\$ 857,562
		1983	\$ 3,941,436	HW_E3_54	214.00	595.00	2.78	\$ 10,958,666	35	\$ 378,073,979
		1985	\$ 682,969	HW_E3_54	236.00	595.00	2.52	\$ 1,721,892	33	\$ 55,961,490
		1986	\$ 7,583,593	HW_E3_54	243.00	595.00	2.45	\$ 18,568,879	32	\$ 584,919,704
		1987	\$ 48,464	HW_E3_54	251.00	595.00	2.37	\$ 114,884	31	\$ 3,503,954
		1988	\$ 596,220	HW_E3_54	261.00	595.00	2.28	\$ 1,359,198	30	\$ 40,096,339
		1989	\$ 480,764	HW_E3_54	268.00	595.00	2.22	\$ 1,067,367	29	\$ 30,419,954
		1990	\$ 42,382	HW_E3_54	270.75	595.00	2.20	\$ 93,139	28	\$ 2,561,311

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1991	\$ 707,645	HW_E3_54	264.50	595.00	2.25	\$ 1,591,866	27	\$ 42,184,461
		1992	\$ 118,395	HW_E3_54	268.75	595.00	2.21	\$ 262,121	26	\$ 6,684,089
		1993	\$ 662,335	HW_E3_54	281.25	595.00	2.12	\$ 1,401,207	25	\$ 34,329,564
		1994	\$ 507,720	HW_E3_54	298.25	595.00	1.99	\$ 1,012,886	24	\$ 23,802,820
		1996	\$ 45,829	HW_E3_54	320.00	595.00	1.86	\$ 85,213	22	\$ 1,832,088
		1999	\$ 176,588	HW_E3_54	346.00	595.00	1.72	\$ 303,670	19	\$ 5,617,888
		2002	\$ 555,833	HW_E3_54	383.50	595.00	1.55	\$ 862,375	16	\$ 13,366,815
		2006	\$ 874,613	HW_E3_54	459.00	595.00	1.30	\$ 1,133,757	12	\$ 13,038,206
		2007	\$ 67,744	HW_E3_54	492.48	595.00	1.21	\$ 81,847	11	\$ 859,389
		2010	\$ 1,241,721	HW_E3_54	510.50	595.00	1.17	\$ 1,447,255	8	\$ 10,854,415
		2011	\$ 11	HW_E3_54	528.75	595.00	1.13	\$ 12	7	\$ 80
		2013	\$ 1,291,904	HW_E3_54	554.00	595.00	1.07	\$ 1,387,514	5	\$ 6,243,813
		Total	\$ 44,212,630		0.00	0.00		\$ 224,815,395	49	\$ 11,066,383,322
354.0 Total		1950	\$ 18,582	HW_E3_55	34.00	604.00	17.76	\$ 330,112	68	\$ 22,282,580
355	Poles & Fixtures	1951	\$ 92	HW_E3_55	37.00	604.00	16.32	\$ 1,494	67	\$ 99,384
		1952	\$ 164,176	HW_E3_55	38.00	604.00	15.89	\$ 2,609,537	66	\$ 170,924,685
		1953	\$ 506,852	HW_E3_55	41.00	604.00	14.73	\$ 7,466,794	65	\$ 481,608,212
		1954	\$ 209	HW_E3_55	42.00	604.00	14.38	\$ 3,006	64	\$ 190,912
		1955	\$ 87	HW_E3_55	43.00	604.00	14.05	\$ 1,227	63	\$ 76,668
		1956	\$ 41,480	HW_E3_55	46.00	604.00	13.13	\$ 544,652	62	\$ 33,496,115
		1957	\$ 286	HW_E3_55	49.00	604.00	12.33	\$ 3,531	61	\$ 213,651
		1958	\$ 2,066	HW_E3_55	50.00	604.00	12.08	\$ 24,963	60	\$ 1,485,289
		1959	\$ 209	HW_E3_55	50.00	604.00	12.08	\$ 2,520	59	\$ 147,406
		1960	\$ 2,071	HW_E3_55	52.00	604.00	11.62	\$ 24,061	58	\$ 1,383,490
		1961	\$ 89,093	HW_E3_55	53.00	604.00	11.40	\$ 1,015,319	57	\$ 57,365,523
		1962	\$ 573,186	HW_E3_55	54.00	604.00	11.19	\$ 6,411,188	56	\$ 355,820,945
		1963	\$ 47,976	HW_E3_55	55.00	604.00	10.98	\$ 526,860	55	\$ 28,713,851
		1964	\$ 78,808	HW_E3_55	56.00	604.00	10.79	\$ 850,005	54	\$ 45,475,279
		1965	\$ 347	HW_E3_55	58.00	604.00	10.41	\$ 3,611	53	\$ 189,588
		1966	\$ 7,611	HW_E3_55	60.00	604.00	10.07	\$ 76,618	52	\$ 3,945,843
		1967	\$ 199,647	HW_E3_55	63.00	604.00	9.59	\$ 1,914,079	51	\$ 96,660,988
		1968	\$ 93,564	HW_E3_55	65.00	604.00	9.29	\$ 869,426	50	\$ 43,036,570
		1969	\$ 286,214	HW_E3_55	71.00	604.00	8.51	\$ 2,434,833	49	\$ 118,089,383
		1970	\$ 15,802	HW_E3_55	78.00	604.00	7.74	\$ 122,364	48	\$ 5,812,274
		1971	\$ 664,190	HW_E3_55	83.00	604.00	7.28	\$ 4,833,383	47	\$ 224,752,317
		1972	\$ 502,235	HW_E3_55	87.00	604.00	6.94	\$ 3,486,781	46	\$ 158,648,532
		1973	\$ 391,699	HW_E3_55	100.00	604.00	6.04	\$ 2,365,859	45	\$ 105,280,731
		1974	\$ 493,855	HW_E3_55	126.00	604.00	4.79	\$ 2,367,369	44	\$ 102,980,549
		1975	\$ 81,615	HW_E3_55	143.00	604.00	4.22	\$ 344,725	43	\$ 14,650,795
		1976	\$ 51,140	HW_E3_55	143.00	604.00	4.22	\$ 216,005	42	\$ 8,964,201
		1977	\$ 2,282,413	HW_E3_55	149.00	604.00	4.05	\$ 9,252,198	41	\$ 374,714,005
		1978	\$ 88,488	HW_E3_55	158.00	604.00	3.82	\$ 338,269	40	\$ 13,361,629
		1979	\$ 20,401	HW_E3_55	174.00	604.00	3.47	\$ 70,818	39	\$ 2,726,482
		1980	\$ 453,730	HW_E3_55	190.00	604.00	3.18	\$ 1,442,385	38	\$ 54,089,422
		1981	\$ 8,417	HW_E3_55	210.00	604.00	2.88	\$ 24,208	37	\$ 883,604
		1982	\$ 137,329	HW_E3_55	223.00	604.00	2.71	\$ 371,958	36	\$ 13,204,507
		1983	\$ 351,945	HW_E3_55	228.00	604.00	2.65	\$ 932,346	35	\$ 32,165,947
		1984	\$ 5,237	HW_E3_55	234.00	604.00	2.58	\$ 13,517	34	\$ 452,828
		1985	\$ 354,615	HW_E3_55	237.00	604.00	2.55	\$ 903,745	33	\$ 29,371,728
		1986	\$ 128,650	HW_E3_55	243.00	604.00	2.49	\$ 319,773	32	\$ 10,072,849
		1987	\$ 751,826	HW_E3_55	247.00	604.00	2.45	\$ 1,838,473	31	\$ 56,073,418
		1988	\$ 331,824	HW_E3_55	266.50	604.00	2.27	\$ 752,052	30	\$ 22,185,539
		1989	\$ 1,290,334	HW_E3_55	286.25	604.00	2.11	\$ 2,722,661	29	\$ 77,595,828
		1990	\$ 199,068	HW_E3_55	298.00	604.00	2.03	\$ 403,479	28	\$ 11,095,676
		1991	\$ 105,494	HW_E3_55	318.00	604.00	1.90	\$ 200,371	27	\$ 5,309,841
		1992	\$ 1,733,250	HW_E3_55	334.50	604.00	1.81	\$ 3,129,695	26	\$ 79,807,234
		1993	\$ 563,881	HW_E3_55	342.25	604.00	1.76	\$ 995,132	25	\$ 24,380,746

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1994	\$ 1,952,038	HW_E3_55	363.25	604.00	1.66	\$ 3,245,784	24	\$ 76,275,925
		1995	\$ 289,673	HW_E3_55	375.75	604.00	1.61	\$ 465,635	23	\$ 10,476,780
		1996	\$ 780,221	HW_E3_55	392.25	604.00	1.54	\$ 1,201,411	22	\$ 25,830,328
		1997	\$ 287,077	HW_E3_55	406.25	604.00	1.49	\$ 426,817	21	\$ 8,749,748
		1998	\$ 98,593	HW_E3_55	410.25	604.00	1.47	\$ 145,156	20	\$ 2,830,547
		1999	\$ 591,862	HW_E3_55	403.00	604.00	1.50	\$ 887,059	19	\$ 16,410,583
		2000	\$ 314,798	HW_E3_55	406.75	604.00	1.48	\$ 467,456	18	\$ 8,180,484
		2001	\$ 393,056	HW_E3_55	424.50	604.00	1.42	\$ 559,259	17	\$ 9,227,780
		2002	\$ 496,908	HW_E3_55	436.50	604.00	1.38	\$ 687,589	16	\$ 10,657,632
		2003	\$ 471,306	HW_E3_55	445.75	604.00	1.36	\$ 638,629	15	\$ 9,260,120
		2004	\$ 101,200	HW_E3_55	460.75	604.00	1.31	\$ 132,664	14	\$ 1,790,965
		2005	\$ 151,761	HW_E3_55	491.00	604.00	1.23	\$ 186,688	13	\$ 2,333,595
		2006	\$ 52,536	HW_E3_55	514.50	604.00	1.17	\$ 61,675	12	\$ 709,264
		2007	\$ 194,486	HW_E3_55	536.03	604.00	1.13	\$ 219,147	11	\$ 2,301,047
		2008	\$ 119,893	HW_E3_55	571.00	604.00	1.06	\$ 126,822	10	\$ 1,204,807
		2009	\$ 302,766	HW_E3_55	588.25	604.00	1.03	\$ 310,872	9	\$ 2,642,414
		2010	\$ 3,676,151	HW_E3_55	581.25	604.00	1.04	\$ 3,820,034	8	\$ 28,650,258
		2011	\$ 92,005	HW_E3_55	584.25	604.00	1.03	\$ 95,115	7	\$ 618,249
		2012	\$ 1,353,250	HW_E3_55	591.25	604.00	1.02	\$ 1,382,433	6	\$ 7,603,379
		2013	\$ 2,407,631	HW_E3_55	595.50	604.00	1.01	\$ 2,441,997	5	\$ 10,988,986
		2014	\$ 4,197,747	HW_E3_55	594.00	604.00	1.02	\$ 4,268,416	4	\$ 14,939,455
		2015	\$ 4,095,127	HW_E3_55	594.75	604.00	1.02	\$ 4,158,818	3	\$ 10,397,045
		2016	\$ 18,665,639	HW_E3_55	596.50	604.00	1.01	\$ 18,900,329	2	\$ 28,350,493
		2017	\$ 54,435	HW_E3_55	604.00	604.00	1.00	\$ 54,435	0	\$ 13,609
355.0 Total		Total	\$ 54,260,153		0.00	0.00	\$	107,445,643	30	\$ 3,180,230,536
355.1	Poles & Fixtures - MPP	2007	\$ 298,029	HW_E3_55	536.03	604.00	1.13	\$ 335,820	11	\$ 3,526,114
355.1 Total		Total	\$ 298,029		0.00	0.00	\$	335,820	11	\$ 3,526,114
356	Overhead Conductors & Devices	1932	\$ 37,070	HW_E3_56	20.00	708.00	35.40	\$ 1,312,277	86	\$ 112,199,678
		1948	\$ 65	HW_E3_56	40.00	708.00	17.70	\$ 1,148	70	\$ 79,788
		1949	\$ 100,523	HW_E3_56	40.00	708.00	17.70	\$ 1,779,266	69	\$ 121,879,705
		1950	\$ 31,097	HW_E3_56	42.00	708.00	16.86	\$ 524,210	68	\$ 35,384,205
		1951	\$ 14,047	HW_E3_56	46.00	708.00	15.39	\$ 216,199	67	\$ 14,377,205
		1952	\$ 145,331	HW_E3_56	49.00	708.00	14.45	\$ 2,099,890	66	\$ 137,542,804
		1953	\$ 420,376	HW_E3_56	52.00	708.00	13.62	\$ 5,723,580	65	\$ 369,170,899
		1956	\$ 278,684	HW_E3_56	62.00	708.00	11.42	\$ 3,182,391	62	\$ 195,717,020
		1957	\$ 15,307	HW_E3_56	65.00	708.00	10.89	\$ 166,724	61	\$ 10,086,774
		1958	\$ 31,174	HW_E3_56	64.00	708.00	11.06	\$ 344,866	60	\$ 20,519,509
		1959	\$ 11	HW_E3_56	62.00	708.00	11.42	\$ 121	59	\$ 7,088
		1960	\$ 1,317	HW_E3_56	63.00	708.00	11.24	\$ 14,802	58	\$ 851,143
		1961	\$ 173,342	HW_E3_56	63.00	708.00	11.24	\$ 1,948,029	57	\$ 110,063,636
		1962	\$ 373,485	HW_E3_56	65.00	708.00	10.89	\$ 4,068,110	56	\$ 225,780,114
		1963	\$ 78,984	HW_E3_56	60.00	708.00	11.80	\$ 932,014	55	\$ 50,794,745
		1964	\$ 148,887	HW_E3_56	64.00	708.00	11.06	\$ 1,647,063	54	\$ 88,117,864
		1965	\$ 270,107	HW_E3_56	66.00	708.00	10.73	\$ 2,897,513	53	\$ 152,119,430
		1966	\$ 3,250	HW_E3_56	69.00	708.00	10.26	\$ 33,350	52	\$ 1,717,519
		1967	\$ 3,888,957	HW_E3_56	71.00	708.00	9.97	\$ 38,780,024	51	\$ 1,958,391,218
		1968	\$ 1,532,052	HW_E3_56	72.00	708.00	9.83	\$ 15,065,174	50	\$ 745,726,092
		1969	\$ 367,249	HW_E3_56	81.00	708.00	8.74	\$ 3,210,027	49	\$ 155,686,309
		1970	\$ 968,750	HW_E3_56	91.00	708.00	7.78	\$ 7,537,089	48	\$ 358,011,739
		1971	\$ 1,530,118	HW_E3_56	100.00	708.00	7.08	\$ 10,833,238	47	\$ 503,745,553
		1972	\$ 2,158,481	HW_E3_56	99.00	708.00	7.15	\$ 15,436,407	46	\$ 702,356,525
		1973	\$ 525,134	HW_E3_56	100.00	708.00	7.08	\$ 3,717,949	45	\$ 165,448,737
		1974	\$ 425,466	HW_E3_56	118.00	708.00	6.00	\$ 2,552,796	44	\$ 111,046,639
		1975	\$ 1,410,549	HW_E3_56	146.00	708.00	4.85	\$ 6,840,196	43	\$ 290,708,332
		1976	\$ 183,142	HW_E3_56	167.00	708.00	4.24	\$ 776,436	42	\$ 32,222,089
		1977	\$ 7,448,885	HW_E3_56	180.00	708.00	3.93	\$ 29,298,947	41	\$ 1,186,607,373
		1978	\$ 265,435	HW_E3_56	172.00	708.00	4.12	\$ 1,092,605	40	\$ 43,157,904

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1979	\$ 24,897	HW_E3_56	184.00	708.00	3.85	\$ 95,799	39	\$ 3,688,280
		1980	\$ 606,068	HW_E3_56	207.00	708.00	3.42	\$ 2,072,930	38	\$ 77,734,861
		1981	\$ 13,006	HW_E3_56	232.00	708.00	3.05	\$ 39,692	37	\$ 1,448,743
		1982	\$ 280,140	HW_E3_56	259.00	708.00	2.73	\$ 765,788	36	\$ 27,185,487
		1983	\$ 3,498,196	HW_E3_56	279.00	708.00	2.54	\$ 8,877,143	35	\$ 306,261,421
		1984	\$ 3,519	HW_E3_56	268.00	708.00	2.64	\$ 9,297	34	\$ 311,463
		1985	\$ 956,941	HW_E3_56	267.00	708.00	2.65	\$ 2,537,506	33	\$ 82,468,930
		1986	\$ 2,438,601	HW_E3_56	270.00	708.00	2.62	\$ 6,394,554	32	\$ 201,428,457
		1987	\$ 617,081	HW_E3_56	259.00	708.00	2.73	\$ 1,686,846	31	\$ 51,448,813
		1988	\$ 690,795	HW_E3_56	343.75	708.00	2.06	\$ 1,422,787	30	\$ 41,972,224
		1989	\$ 443,034	HW_E3_56	353.50	708.00	2.00	\$ 887,322	29	\$ 25,288,667
		1990	\$ 75,826	HW_E3_56	355.75	708.00	1.99	\$ 150,907	28	\$ 4,149,935
		1991	\$ 1,165,491	HW_E3_56	366.00	708.00	1.93	\$ 2,254,555	27	\$ 59,745,719
		1992	\$ 1,511,481	HW_E3_56	344.25	708.00	2.06	\$ 3,108,579	26	\$ 79,268,758
		1993	\$ 667,479	HW_E3_56	355.25	708.00	1.99	\$ 1,330,261	25	\$ 32,591,385
		1994	\$ 2,987,932	HW_E3_56	370.00	708.00	1.91	\$ 5,717,448	24	\$ 134,360,033
		1995	\$ 475,793	HW_E3_56	403.50	708.00	1.75	\$ 834,849	23	\$ 18,784,096
		1996	\$ 506,189	HW_E3_56	410.25	708.00	1.73	\$ 873,570	22	\$ 18,781,758
		1997	\$ 305,954	HW_E3_56	415.00	708.00	1.71	\$ 521,965	21	\$ 10,700,274
		1998	\$ 4,843	HW_E3_56	428.00	708.00	1.65	\$ 8,011	20	\$ 156,211
		1999	\$ 495,901	HW_E3_56	393.00	708.00	1.80	\$ 893,379	19	\$ 16,527,514
		2000	\$ 191,315	HW_E3_56	423.50	708.00	1.67	\$ 319,838	18	\$ 5,597,158
		2001	\$ 255,035	HW_E3_56	446.25	708.00	1.59	\$ 404,627	17	\$ 6,676,341
		2002	\$ 516,955	HW_E3_56	445.50	708.00	1.59	\$ 821,558	16	\$ 12,734,151
		2003	\$ 468,941	HW_E3_56	449.50	708.00	1.58	\$ 738,621	15	\$ 10,709,999
		2004	\$ 111,324	HW_E3_56	485.00	708.00	1.46	\$ 162,510	14	\$ 2,193,880
		2005	\$ 137,174	HW_E3_56	550.00	708.00	1.29	\$ 176,581	13	\$ 2,207,257
		2006	\$ 731,721	HW_E3_56	642.25	708.00	1.10	\$ 806,631	12	\$ 9,276,255
		2007	\$ 121,759	HW_E3_56	705.03	708.00	1.00	\$ 122,272	11	\$ 1,283,859
		2008	\$ 166,594	HW_E3_56	810.00	708.00	0.87	\$ 145,616	10	\$ 1,383,351
		2009	\$ 511,812	HW_E3_56	665.00	708.00	1.06	\$ 544,907	9	\$ 4,631,707
		2010	\$ 2,438,133	HW_E3_56	671.25	708.00	1.05	\$ 2,571,618	8	\$ 19,287,132
		2011	\$ 26,235	HW_E3_56	690.50	708.00	1.03	\$ 26,900	7	\$ 174,849
		2012	\$ 1,028,777	HW_E3_56	659.75	708.00	1.07	\$ 1,104,015	6	\$ 6,072,085
		2013	\$ 924,086	HW_E3_56	686.00	708.00	1.03	\$ 953,721	5	\$ 4,291,746
		2014	\$ 577,901	HW_E3_56	698.00	708.00	1.01	\$ 586,181	4	\$ 2,051,632
		2015	\$ 141,663	HW_E3_56	709.50	708.00	1.00	\$ 141,364	3	\$ 353,409
		2016	\$ 262,449	HW_E3_56	717.75	708.00	0.99	\$ 258,884	2	\$ 388,326
		2017	\$ 14,590	HW_E3_56	708.00	708.00	1.00	\$ 14,590	0	\$ 3,648
356.0 Total		Total	\$ 49,222,908		0.00	0.00		\$ 212,416,059	43	\$ 9,183,137,447
357	Underground Conduit	2012	\$ 16	HW_E3_57	567.75	610.00	1.07	\$ 17	6	\$ 96
		2013	\$ 24	HW_E3_57	573.50	610.00	1.06	\$ 25	5	\$ 114
		2014	\$ 91	HW_E3_57	590.75	610.00	1.03	\$ 94	4	\$ 329
		2015	\$ 173	HW_E3_57	592.75	610.00	1.03	\$ 178	3	\$ 445
		2016	\$ 9	HW_E3_57	595.25	610.00	1.02	\$ 9	2	\$ 14
		2017	\$ 59	HW_E3_57	610.00	610.00	1.00	\$ 59	0	\$ 15
357.0 Total		Total	\$ 373		0.00	0.00		\$ 384	3	\$ 1,014
360	Land	1902	\$ 7,302	none	1	1	1.00	\$ 7,302	116	\$ 843,324
		1905	\$ 4,005	none	1	1	1.00	\$ 4,005	113	\$ 450,523
		1906	\$ 7,687	none	1	1	1.00	\$ 7,687	112	\$ 857,111
		1907	\$ 10,828	none	1	1	1.00	\$ 10,828	111	\$ 1,196,450
		1910	\$ 1,312	none	1	1	1.00	\$ 1,312	108	\$ 140,987
		1913	\$ 1,434	none	1	1	1.00	\$ 1,434	105	\$ 149,834
		1920	\$ 17,996	none	1	1	1.00	\$ 17,996	98	\$ 1,754,587
		1921	\$ 8,897	none	1	1	1.00	\$ 8,897	97	\$ 858,578
		1922	\$ 2,681	none	1	1	1.00	\$ 2,681	96	\$ 256,018
		1925	\$ 4,000	none	1	1	1.00	\$ 4,000	93	\$ 370,000

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1927	\$ 11,186	none	1	1	1.00	\$ 11,186	91	\$ 1,012,348
		1930	\$ 46,467	none	1	1	1.00	\$ 46,467	88	\$ 4,065,894
		1931	\$ 22,460	none	1	1	1.00	\$ 22,460	87	\$ 1,942,807
		1937	\$ 21,455	none	1	1	1.00	\$ 21,455	81	\$ 1,727,111
		1939	\$ 2,787	none	1	1	1.00	\$ 2,787	79	\$ 218,807
		1940	\$ 1,592	none	1	1	1.00	\$ 1,592	78	\$ 123,378
		1941	\$ 568	none	1	1	1.00	\$ 568	77	\$ 43,444
		1942	\$ 390	none	1	1	1.00	\$ 390	76	\$ 29,474
		1946	\$ 15,975	none	1	1	1.00	\$ 15,975	72	\$ 1,142,208
		1947	\$ 6,066	none	1	1	1.00	\$ 6,066	71	\$ 427,659
		1948	\$ 14,068	none	1	1	1.00	\$ 14,068	70	\$ 977,744
		1949	\$ 5,505	none	1	1	1.00	\$ 5,505	69	\$ 377,069
		1950	\$ 36,040	none	1	1	1.00	\$ 36,040	68	\$ 2,432,703
		1951	\$ 7,467	none	1	1	1.00	\$ 7,467	67	\$ 496,549
		1953	\$ 10,273	none	1	1	1.00	\$ 10,273	65	\$ 662,578
		1954	\$ 5,510	none	1	1	1.00	\$ 5,510	64	\$ 349,867
		1955	\$ 5,420	none	1	1	1.00	\$ 5,420	63	\$ 338,723
		1958	\$ 14,558	none	1	1	1.00	\$ 14,558	60	\$ 866,230
		1959	\$ 74,846	none	1	1	1.00	\$ 74,846	59	\$ 4,378,483
		1960	\$ 28,850	none	1	1	1.00	\$ 28,850	58	\$ 1,658,855
		1962	\$ 62,822	none	1	1	1.00	\$ 62,822	56	\$ 3,486,599
		1963	\$ 40,055	none	1	1	1.00	\$ 40,055	55	\$ 2,182,973
		1964	\$ 33,034	none	1	1	1.00	\$ 33,034	54	\$ 1,767,308
		1966	\$ 47,575	none	1	1	1.00	\$ 47,575	52	\$ 2,450,128
		1967	\$ 31,732	none	1	1	1.00	\$ 31,732	51	\$ 1,602,444
		1968	\$ 437,114	none	1	1	1.00	\$ 437,114	50	\$ 21,637,166
		1969	\$ 445,256	none	1	1	1.00	\$ 445,256	49	\$ 21,594,892
		1970	\$ 174,164	none	1	1	1.00	\$ 174,164	48	\$ 8,272,810
		1971	\$ 61,100	none	1	1	1.00	\$ 61,100	47	\$ 2,841,132
		1972	\$ 117,535	none	1	1	1.00	\$ 117,535	46	\$ 5,347,831
		1975	\$ 71,817	none	1	1	1.00	\$ 71,817	43	\$ 3,052,234
		1976	\$ 119,411	none	1	1	1.00	\$ 119,411	42	\$ 4,955,574
		1981	\$ 113,093	none	1	1	1.00	\$ 113,093	37	\$ 4,127,895
		1982	\$ 30,466	none	1	1	1.00	\$ 30,466	36	\$ 1,081,556
		1983	\$ 172,646	none	1	1	1.00	\$ 172,646	35	\$ 5,956,289
		1988	\$ 26,603	none	1	1	1.00	\$ 26,603	30	\$ 784,793
		1990	\$ 15,095	none	1	1	1.00	\$ 15,095	28	\$ 415,120
		1991	\$ 369,360	none	1	1	1.00	\$ 369,360	27	\$ 9,788,028
		1992	\$ 111,598	none	1	1	1.00	\$ 111,598	26	\$ 2,845,760
		1994	\$ 31,806	none	1	1	1.00	\$ 31,806	24	\$ 747,451
		1998	\$ 494,591	none	1	1	1.00	\$ 494,591	20	\$ 9,644,517
		2000	\$ 97,633	none	1	1	1.00	\$ 97,633	18	\$ 1,708,574
		2001	\$ 108,785	none	1	1	1.00	\$ 108,785	17	\$ 1,794,949
		Total	\$ 3,610,913		0.00	0.00		\$ 3,610,913	41	\$ 148,235,366
360.0 Total										
360.5	Land Rights	1905	\$ 30	none	1	1	1.00	\$ 30	113	\$ 3,411
		1916	\$ 40	none	1	1	1.00	\$ 40	102	\$ 4,060
		1918	\$ 2	none	1	1	1.00	\$ 2	100	\$ 149
		1919	\$ 2	none	1	1	1.00	\$ 2	99	\$ 197
		1920	\$ 250	none	1	1	1.00	\$ 250	98	\$ 24,375
		1921	\$ 16	none	1	1	1.00	\$ 16	97	\$ 1,496
		1922	\$ 29	none	1	1	1.00	\$ 29	96	\$ 2,722
		1923	\$ 418	none	1	1	1.00	\$ 418	95	\$ 39,504
		1924	\$ 5,165	none	1	1	1.00	\$ 5,165	94	\$ 482,927
		1925	\$ 4,050	none	1	1	1.00	\$ 4,050	93	\$ 374,625
		1926	\$ 165	none	1	1	1.00	\$ 165	92	\$ 15,098
		1927	\$ 198	none	1	1	1.00	\$ 198	91	\$ 17,958
		1928	\$ 73	none	1	1	1.00	\$ 73	90	\$ 6,489

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1929	\$ 9	none	1	1	1.00	\$ 9	89	\$ 752
		1930	\$ 132	none	1	1	1.00	\$ 132	88	\$ 11,551
		1931	\$ 3,356	none	1	1	1.00	\$ 3,356	87	\$ 290,314
		1932	\$ 7,418	none	1	1	1.00	\$ 7,418	86	\$ 634,221
		1933	\$ 86	none	1	1	1.00	\$ 86	85	\$ 7,252
		1934	\$ 1,167	none	1	1	1.00	\$ 1,167	84	\$ 97,431
		1935	\$ 834	none	1	1	1.00	\$ 834	83	\$ 68,769
		1936	\$ 108	none	1	1	1.00	\$ 108	82	\$ 8,769
		1937	\$ 142	none	1	1	1.00	\$ 142	81	\$ 11,431
		1938	\$ 39	none	1	1	1.00	\$ 39	80	\$ 3,061
		1939	\$ 181	none	1	1	1.00	\$ 181	79	\$ 14,193
		1940	\$ 881	none	1	1	1.00	\$ 881	78	\$ 68,258
		1941	\$ 687	none	1	1	1.00	\$ 687	77	\$ 52,522
		1942	\$ 2,686	none	1	1	1.00	\$ 2,686	76	\$ 202,816
		1943	\$ 373	none	1	1	1.00	\$ 373	75	\$ 27,811
		1944	\$ 319	none	1	1	1.00	\$ 319	74	\$ 23,441
		1945	\$ 313	none	1	1	1.00	\$ 313	73	\$ 22,656
		1946	\$ 1,393	none	1	1	1.00	\$ 1,393	72	\$ 99,600
		1947	\$ 113	none	1	1	1.00	\$ 113	71	\$ 7,967
		1948	\$ 540	none	1	1	1.00	\$ 540	70	\$ 37,551
		1949	\$ 2,173	none	1	1	1.00	\$ 2,173	69	\$ 148,878
		1950	\$ 10,485	none	1	1	1.00	\$ 10,485	68	\$ 707,752
		1951	\$ 301	none	1	1	1.00	\$ 301	67	\$ 19,990
		1952	\$ 2,426	none	1	1	1.00	\$ 2,426	66	\$ 158,890
		1953	\$ 1,212	none	1	1	1.00	\$ 1,212	65	\$ 78,155
		1954	\$ 1,250	none	1	1	1.00	\$ 1,250	64	\$ 79,350
		1955	\$ 469	none	1	1	1.00	\$ 469	63	\$ 29,300
		1956	\$ 671	none	1	1	1.00	\$ 671	62	\$ 41,258
		1957	\$ 6,685	none	1	1	1.00	\$ 6,685	61	\$ 404,416
		1958	\$ 897	none	1	1	1.00	\$ 897	60	\$ 53,377
		1959	\$ 847	none	1	1	1.00	\$ 847	59	\$ 49,569
		1960	\$ 1,239	none	1	1	1.00	\$ 1,239	58	\$ 71,231
		1961	\$ 1,100	none	1	1	1.00	\$ 1,100	57	\$ 62,145
		1962	\$ 1,042	none	1	1	1.00	\$ 1,042	56	\$ 57,820
		1963	\$ 3,312	none	1	1	1.00	\$ 3,312	55	\$ 180,526
		1964	\$ 7,878	none	1	1	1.00	\$ 7,878	54	\$ 421,449
		1965	\$ 2,288	none	1	1	1.00	\$ 2,288	53	\$ 120,104
		1966	\$ 3,009	none	1	1	1.00	\$ 3,009	52	\$ 154,973
		1967	\$ 19,546	none	1	1	1.00	\$ 19,546	51	\$ 987,077
		1968	\$ 15,707	none	1	1	1.00	\$ 15,707	50	\$ 777,501
		1969	\$ 40,749	none	1	1	1.00	\$ 40,749	49	\$ 1,976,327
		1970	\$ 4,435	none	1	1	1.00	\$ 4,435	48	\$ 210,671
		1971	\$ 18,251	none	1	1	1.00	\$ 18,251	47	\$ 848,668
		1972	\$ 15,890	none	1	1	1.00	\$ 15,890	46	\$ 723,015
		1973	\$ 5,049	none	1	1	1.00	\$ 5,049	45	\$ 224,692
		1974	\$ 5,723	none	1	1	1.00	\$ 5,723	44	\$ 248,950
		1975	\$ 60,961	none	1	1	1.00	\$ 60,961	43	\$ 2,590,854
		1976	\$ 1,376	none	1	1	1.00	\$ 1,376	42	\$ 57,102
		1977	\$ 4,474	none	1	1	1.00	\$ 4,474	41	\$ 181,197
		1978	\$ 887	none	1	1	1.00	\$ 887	40	\$ 35,037
		1979	\$ 748	none	1	1	1.00	\$ 748	39	\$ 28,798
		1980	\$ 3,305	none	1	1	1.00	\$ 3,305	38	\$ 123,942
		1981	\$ 583	none	1	1	1.00	\$ 583	37	\$ 21,269
		1982	\$ 575	none	1	1	1.00	\$ 575	36	\$ 20,395
		1983	\$ 1,405	none	1	1	1.00	\$ 1,405	35	\$ 48,455
		1984	\$ 3,255	none	1	1	1.00	\$ 3,255	34	\$ 109,043
		1985	\$ 8,442	none	1	1	1.00	\$ 8,442	33	\$ 274,351

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1986	\$ 2,995	none	1	1	1.00	\$ 2,995	32	\$ 94,354
		1987	\$ 2,042	none	1	1	1.00	\$ 2,042	31	\$ 62,281
		1988	\$ 1,756	none	1	1	1.00	\$ 1,756	30	\$ 51,787
		1989	\$ 1,422	none	1	1	1.00	\$ 1,422	29	\$ 40,527
		1990	\$ 2,399	none	1	1	1.00	\$ 2,399	28	\$ 65,959
		1991	\$ 12,100	none	1	1	1.00	\$ 12,100	27	\$ 320,637
		1992	\$ 11,353	none	1	1	1.00	\$ 11,353	26	\$ 289,506
		1993	\$ 4,834	none	1	1	1.00	\$ 4,834	25	\$ 118,433
		1994	\$ 16,264	none	1	1	1.00	\$ 16,264	24	\$ 382,201
		1995	\$ 15,467	none	1	1	1.00	\$ 15,467	23	\$ 348,001
		1996	\$ 1,710	none	1	1	1.00	\$ 1,710	22	\$ 36,765
		1997	\$ 1,471	none	1	1	1.00	\$ 1,471	21	\$ 30,156
		1998	\$ 1,792	none	1	1	1.00	\$ 1,792	20	\$ 34,944
		2000	\$ 30	none	1	1	1.00	\$ 30	18	\$ 533
		2001	\$ 1,922	none	1	1	1.00	\$ 1,922	17	\$ 31,715
		2002	\$ 5,510	none	1	1	1.00	\$ 5,510	16	\$ 85,398
		2004	\$ 1,447	none	1	1	1.00	\$ 1,447	14	\$ 19,536
		2005	\$ 3,386	none	1	1	1.00	\$ 3,386	13	\$ 42,319
		2006	\$ 1,635	none	1	1	1.00	\$ 1,635	12	\$ 18,803
		2007	\$ 1,631	none	1	1	1.00	\$ 1,631	11	\$ 17,129
		2008	\$ 13	none	1	1	1.00	\$ 13	10	\$ 126
		2011	\$ 4,887	none	1	1	1.00	\$ 4,887	7	\$ 31,766
		2013	\$ 5,525	none	1	1	1.00	\$ 5,525	5	\$ 24,861
360.5 Total		Total	\$ 391,444		0.00	0.00		\$ 391,444	44	\$ 17,137,635
361	Structures & Improvements	1914	\$ 20,450	HW_B3_4	8.00	540.00	67.50	\$ 1,380,366	104	\$ 142,867,904
		1915	\$ 2,654	HW_B3_4	8.00	540.00	67.50	\$ 179,146	103	\$ 18,362,432
		1918	\$ 180	HW_B3_4	26.00	540.00	20.77	\$ 3,737	100	\$ 371,832
		1921	\$ 108	HW_B3_4	15.00	540.00	36.00	\$ 3,876	97	\$ 374,046
		1923	\$ 4,119	HW_B3_4	19.00	540.00	28.42	\$ 117,079	95	\$ 11,063,949
		1924	\$ 13	HW_B3_4	18.00	540.00	30.00	\$ 387	94	\$ 36,156
		1925	\$ 33,417	HW_B3_4	17.00	540.00	31.76	\$ 1,061,471	93	\$ 98,186,098
		1927	\$ 14,241	HW_B3_4	15.00	540.00	36.00	\$ 512,693	91	\$ 46,398,742
		1928	\$ 10,756	HW_B3_4	15.00	540.00	36.00	\$ 387,215	90	\$ 34,655,735
		1929	\$ 6,068	HW_B3_4	16.00	540.00	33.75	\$ 204,811	89	\$ 18,125,731
		1931	\$ 8,769	HW_B3_4	13.00	540.00	41.54	\$ 364,259	87	\$ 31,508,410
		1932	\$ 80,652	HW_B3_4	12.00	540.00	45.00	\$ 3,629,361	86	\$ 310,310,340
		1935	\$ 38	HW_B3_4	14.00	540.00	38.57	\$ 1,480	83	\$ 122,131
		1937	\$ 40	HW_B3_4	16.00	540.00	33.75	\$ 1,357	81	\$ 109,218
		1938	\$ 2,097	HW_B3_4	15.00	540.00	36.00	\$ 75,509	80	\$ 6,002,959
		1939	\$ 2,230	HW_B3_4	15.00	540.00	36.00	\$ 80,294	79	\$ 6,303,082
		1940	\$ 250	HW_B3_4	15.00	540.00	36.00	\$ 8,999	78	\$ 697,388
		1941	\$ 2,636	HW_B3_4	18.00	540.00	30.00	\$ 79,074	77	\$ 6,049,161
		1942	\$ 921	HW_B3_4	20.00	540.00	27.00	\$ 24,862	76	\$ 1,877,112
		1943	\$ 2,025	HW_B3_4	20.00	540.00	27.00	\$ 54,665	75	\$ 4,072,543
		1944	\$ 463	HW_B3_4	20.00	540.00	27.00	\$ 12,494	74	\$ 918,288
		1945	\$ 1,101	HW_B3_4	20.00	540.00	27.00	\$ 29,720	73	\$ 2,154,718
		1946	\$ 1,561	HW_B3_4	24.00	540.00	22.50	\$ 35,112	72	\$ 2,510,535
		1947	\$ 1,855	HW_B3_4	29.00	540.00	18.62	\$ 34,533	71	\$ 2,434,590
		1948	\$ 5,295	HW_B3_4	36.00	540.00	15.00	\$ 79,423	70	\$ 5,519,871
		1949	\$ 26,433	HW_B3_4	38.00	540.00	14.21	\$ 375,633	69	\$ 25,730,838
		1950	\$ 4,108	HW_B3_4	40.00	540.00	13.50	\$ 55,462	68	\$ 3,743,707
		1951	\$ 43,936	HW_B3_4	41.00	540.00	13.17	\$ 578,671	67	\$ 38,481,594
		1952	\$ 62,845	HW_B3_4	42.00	540.00	12.86	\$ 808,013	66	\$ 52,924,864
		1953	\$ 70,156	HW_B3_4	46.00	540.00	11.74	\$ 823,574	65	\$ 53,120,535
		1954	\$ 5,169	HW_B3_4	46.00	540.00	11.74	\$ 60,681	64	\$ 3,853,219
		1955	\$ 1,978	HW_B3_4	49.00	540.00	11.02	\$ 21,797	63	\$ 1,362,302
		1956	\$ 25,675	HW_B3_4	58.00	540.00	9.31	\$ 239,045	62	\$ 14,701,248

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1957	\$ 9,625	HW_B3_4	64.00	540.00	8.44	\$ 81,210	61	\$ 4,913,175
		1958	\$ 35,706	HW_B3_4	65.00	540.00	8.31	\$ 296,634	60	\$ 17,649,696
		1959	\$ 19,471	HW_B3_4	66.00	540.00	8.18	\$ 159,309	59	\$ 9,319,577
		1960	\$ 37,516	HW_B3_4	64.00	540.00	8.44	\$ 316,540	58	\$ 18,201,064
		1961	\$ 3,185	HW_B3_4	60.00	540.00	9.00	\$ 28,667	57	\$ 1,619,669
		1962	\$ 51,484	HW_B3_4	60.00	540.00	9.00	\$ 463,355	56	\$ 25,716,213
		1963	\$ 10,142	HW_B3_4	61.00	540.00	8.85	\$ 89,785	55	\$ 4,893,302
		1964	\$ 31,515	HW_B3_4	61.00	540.00	8.85	\$ 278,989	54	\$ 14,925,924
		1965	\$ 81,863	HW_B3_4	62.00	540.00	8.71	\$ 713,003	53	\$ 37,432,640
		1966	\$ 63,775	HW_B3_4	63.00	540.00	8.57	\$ 546,645	52	\$ 28,152,195
		1967	\$ 43,302	HW_B3_4	64.00	540.00	8.44	\$ 365,357	51	\$ 18,450,533
		1968	\$ 179,155	HW_B3_4	68.00	540.00	7.94	\$ 1,422,700	50	\$ 70,423,640
		1969	\$ 262,098	HW_B3_4	72.00	540.00	7.50	\$ 1,965,739	49	\$ 95,338,322
		1970	\$ 114,499	HW_B3_4	76.00	540.00	7.11	\$ 813,548	48	\$ 38,643,551
		1971	\$ 430,691	HW_B3_4	83.00	540.00	6.51	\$ 2,802,087	47	\$ 130,297,049
		1972	\$ 145,967	HW_B3_4	89.00	540.00	6.07	\$ 885,642	46	\$ 40,296,719
		1973	\$ 245,212	HW_B3_4	100.00	540.00	5.40	\$ 1,324,144	45	\$ 58,924,396
		1974	\$ 35,832	HW_B3_4	139.75	540.00	3.86	\$ 138,458	44	\$ 6,022,902
		1975	\$ 209,502	HW_B3_4	161.25	540.00	3.35	\$ 701,587	43	\$ 29,817,456
		1976	\$ 307,386	HW_B3_4	152.00	540.00	3.55	\$ 1,092,028	42	\$ 45,319,175
		1977	\$ 463,814	HW_B3_4	153.25	540.00	3.52	\$ 1,634,318	41	\$ 66,189,897
		1978	\$ 12,898	HW_B3_4	169.25	540.00	3.19	\$ 41,153	40	\$ 1,625,541
		1979	\$ 309,338	HW_B3_4	193.50	540.00	2.79	\$ 863,268	39	\$ 33,235,834
		1980	\$ 295,301	HW_B3_4	224.50	540.00	2.41	\$ 710,302	38	\$ 26,636,320
		1981	\$ 38,977	HW_B3_4	226.25	540.00	2.39	\$ 93,029	37	\$ 3,395,542
		1982	\$ 209,792	HW_B3_4	201.50	540.00	2.68	\$ 562,222	36	\$ 19,958,870
		1983	\$ 244,788	HW_B3_4	200.25	540.00	2.70	\$ 660,103	35	\$ 22,773,547
		1984	\$ 27,601	HW_B3_4	222.25	540.00	2.43	\$ 67,062	34	\$ 2,246,570
		1985	\$ 114,404	HW_B3_4	236.25	540.00	2.29	\$ 261,496	33	\$ 8,498,608
		1986	\$ 46,669	HW_B3_4	244.00	540.00	2.21	\$ 103,283	32	\$ 3,253,428
		1987	\$ 218,002	HW_B3_4	251.25	540.00	2.15	\$ 468,543	31	\$ 14,290,548
		1988	\$ 226,727	HW_B3_4	267.75	540.00	2.02	\$ 457,265	30	\$ 13,489,306
		1989	\$ 42,310	HW_B3_4	278.75	540.00	1.94	\$ 81,964	29	\$ 2,335,961
		1990	\$ 390,625	HW_B3_4	278.00	540.00	1.94	\$ 758,767	28	\$ 20,866,094
		1991	\$ 244,757	HW_B3_4	251.25	540.00	2.15	\$ 526,045	27	\$ 13,940,179
		1992	\$ 627,773	HW_B3_4	249.00	540.00	2.17	\$ 1,361,435	26	\$ 34,716,596
		1993	\$ 261,531	HW_B3_4	267.00	540.00	2.02	\$ 528,939	25	\$ 12,959,004
		1994	\$ 322,104	HW_B3_4	293.25	540.00	1.84	\$ 593,133	24	\$ 13,938,615
		1995	\$ 97,156	HW_B3_4	305.50	540.00	1.77	\$ 171,733	23	\$ 3,863,988
		1996	\$ 132,887	HW_B3_4	319.00	540.00	1.69	\$ 224,951	22	\$ 4,836,438
		1997	\$ 2,165	HW_B3_4	322.00	540.00	1.68	\$ 3,632	21	\$ 74,447
		1998	\$ 10,975	HW_B3_4	323.50	540.00	1.67	\$ 18,319	20	\$ 357,224
		1999	\$ 673,649	HW_B3_4	331.75	540.00	1.63	\$ 1,096,519	19	\$ 20,285,606
		2000	\$ 330,127	HW_B3_4	350.25	540.00	1.54	\$ 508,975	18	\$ 8,907,054
		2001	\$ 183,819	HW_B3_4	361.75	540.00	1.49	\$ 274,394	17	\$ 4,527,506
		2002	\$ 101,960	HW_B3_4	363.25	540.00	1.49	\$ 151,571	16	\$ 2,349,355
		2003	\$ 749,756	HW_B3_4	374.25	540.00	1.44	\$ 1,081,813	15	\$ 15,686,282
		2004	\$ 45,967	HW_B3_4	421.50	540.00	1.28	\$ 58,890	14	\$ 795,020
		2005	\$ 35,791	HW_B3_4	438.25	540.00	1.23	\$ 44,101	13	\$ 551,265
		2006	\$ 39,174	HW_B3_4	457.25	540.00	1.18	\$ 46,263	12	\$ 532,025
		2007	\$ 70,551	HW_B3_4	510.51	540.00	1.06	\$ 74,626	11	\$ 783,574
		2008	\$ 213,363	HW_B3_4	540.75	540.00	1.00	\$ 213,068	10	\$ 2,024,142
		2009	\$ 74,254	HW_B3_4	501.50	540.00	1.08	\$ 79,954	9	\$ 679,610
		2010	\$ 823,231	HW_B3_4	492.75	540.00	1.10	\$ 902,171	8	\$ 6,766,285
		2011	\$ 31,563	HW_B3_4	512.75	540.00	1.05	\$ 33,240	7	\$ 216,063
		2012	\$ 61,297	HW_B3_4	524.00	540.00	1.03	\$ 63,169	6	\$ 347,430
		2013	\$ 82,631	HW_B3_4	530.75	540.00	1.02	\$ 84,071	5	\$ 378,320

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		2014	\$ 310,515	HW_B3_4	539.25	540.00	1.00	\$ 310,947	4	\$ 1,088,314
		2015	\$ 26,813	HW_B3_4	531.75	540.00	1.02	\$ 27,229	3	\$ 68,073
		2016	\$ 430,002	HW_B3_4	531.50	540.00	1.02	\$ 436,879	2	\$ 655,319
		2017	\$ 19,669	HW_B3_4	540.00	540.00	1.00	\$ 19,669	0	\$ 4,917
361.0 Total		Total	\$ 11,404,896		0.00	0.00		\$ 41,508,733	49	\$ 2,031,437,191
362	Station Equipment	1916	\$ 98	HW_E3_62	18.00	716.00	39.78	\$ 3,898	102	\$ 395,670
		1919	\$ 141	HW_E3_62	27.00	716.00	26.52	\$ 3,748	99	\$ 369,191
		1920	\$ 574	HW_E3_62	31.00	716.00	23.10	\$ 13,249	98	\$ 1,291,778
		1921	\$ 2,893	HW_E3_62	31.00	716.00	23.10	\$ 66,828	97	\$ 6,448,855
		1923	\$ 6,050	HW_E3_62	30.00	716.00	23.87	\$ 144,405	95	\$ 13,646,253
		1924	\$ 31,903	HW_E3_62	32.00	716.00	22.38	\$ 713,830	94	\$ 66,743,091
		1925	\$ 21	HW_E3_62	32.00	716.00	22.38	\$ 461	93	\$ 42,615
		1926	\$ 3	HW_E3_62	30.00	716.00	23.87	\$ 66	92	\$ 6,005
		1927	\$ 11,597	HW_E3_62	30.00	716.00	23.87	\$ 276,791	91	\$ 25,049,568
		1928	\$ 3,295	HW_E3_62	30.00	716.00	23.87	\$ 78,643	90	\$ 7,038,532
		1929	\$ 711	HW_E3_62	31.00	716.00	23.10	\$ 16,412	89	\$ 1,452,430
		1930	\$ 71	HW_E3_62	31.00	716.00	23.10	\$ 1,644	88	\$ 143,893
		1931	\$ 12,492	HW_E3_62	32.00	716.00	22.38	\$ 279,505	87	\$ 24,177,176
		1932	\$ 70,755	HW_E3_62	30.00	716.00	23.87	\$ 1,688,682	86	\$ 144,382,347
		1933	\$ 204	HW_E3_62	30.00	716.00	23.87	\$ 4,869	85	\$ 411,414
		1935	\$ 2,346	HW_E3_62	33.00	716.00	21.70	\$ 50,892	83	\$ 4,198,552
		1936	\$ 2,119	HW_E3_62	33.00	716.00	21.70	\$ 45,980	82	\$ 3,747,335
		1937	\$ 3,583	HW_E3_62	35.00	716.00	20.46	\$ 73,304	81	\$ 5,900,978
		1938	\$ 29,614	HW_E3_62	36.00	716.00	19.89	\$ 588,992	80	\$ 46,824,891
		1939	\$ 1,936	HW_E3_62	36.00	716.00	19.89	\$ 38,498	79	\$ 3,022,119
		1940	\$ 3,255	HW_E3_62	36.00	716.00	19.89	\$ 64,748	78	\$ 5,017,976
		1941	\$ 75,012	HW_E3_62	37.00	716.00	19.35	\$ 1,451,575	77	\$ 111,045,492
		1942	\$ 2,488	HW_E3_62	37.00	716.00	19.35	\$ 48,148	76	\$ 3,635,152
		1943	\$ 16,518	HW_E3_62	37.00	716.00	19.35	\$ 319,649	75	\$ 23,813,829
		1944	\$ 748	HW_E3_62	35.00	716.00	20.46	\$ 15,305	74	\$ 1,124,948
		1945	\$ 22,555	HW_E3_62	36.00	716.00	19.89	\$ 448,598	73	\$ 32,523,360
		1946	\$ 2,747	HW_E3_62	40.00	716.00	17.90	\$ 49,171	72	\$ 3,515,722
		1947	\$ 16,009	HW_E3_62	45.00	716.00	15.91	\$ 254,725	71	\$ 17,958,087
		1948	\$ 213,794	HW_E3_62	47.00	716.00	15.23	\$ 3,256,945	70	\$ 226,357,650
		1949	\$ 660,877	HW_E3_62	49.00	716.00	14.61	\$ 9,656,900	69	\$ 661,497,665
		1950	\$ 290,684	HW_E3_62	52.00	716.00	13.77	\$ 4,002,497	68	\$ 270,168,566
		1951	\$ 355,278	HW_E3_62	57.00	716.00	12.56	\$ 4,462,785	67	\$ 296,775,230
		1952	\$ 595,665	HW_E3_62	59.00	716.00	12.14	\$ 7,228,753	66	\$ 473,483,321
		1953	\$ 216,831	HW_E3_62	62.00	716.00	11.55	\$ 2,504,048	65	\$ 161,511,117
		1954	\$ 408,397	HW_E3_62	64.00	716.00	11.19	\$ 4,568,938	64	\$ 290,127,540
		1955	\$ 553,988	HW_E3_62	66.00	716.00	10.85	\$ 6,009,930	63	\$ 375,620,611
		1956	\$ 317,790	HW_E3_62	72.00	716.00	9.94	\$ 3,160,245	62	\$ 194,355,092
		1957	\$ 379,735	HW_E3_62	76.00	716.00	9.42	\$ 3,577,506	61	\$ 216,439,122
		1958	\$ 845,918	HW_E3_62	78.00	716.00	9.18	\$ 7,765,090	60	\$ 462,022,879
		1959	\$ 428,107	HW_E3_62	79.00	716.00	9.06	\$ 3,880,055	59	\$ 226,983,208
		1960	\$ 579,572	HW_E3_62	77.00	716.00	9.30	\$ 5,389,267	58	\$ 309,882,847
		1961	\$ 37,562	HW_E3_62	71.00	716.00	10.08	\$ 378,797	57	\$ 21,402,023
		1962	\$ 272,496	HW_E3_62	72.00	716.00	9.94	\$ 2,709,824	56	\$ 150,395,239
		1963	\$ 152,159	HW_E3_62	70.00	716.00	10.23	\$ 1,556,369	55	\$ 84,822,094
		1964	\$ 141,298	HW_E3_62	72.00	716.00	9.94	\$ 1,405,135	54	\$ 75,174,716
		1965	\$ 523,367	HW_E3_62	73.00	716.00	9.81	\$ 5,133,300	53	\$ 269,498,266
		1966	\$ 911,799	HW_E3_62	75.00	716.00	9.55	\$ 8,704,640	52	\$ 448,288,969
		1967	\$ 676,747	HW_E3_62	78.00	716.00	9.18	\$ 6,212,191	51	\$ 313,715,667
		1968	\$ 2,207,735	HW_E3_62	81.00	716.00	8.84	\$ 19,515,285	50	\$ 966,006,596
		1969	\$ 978,381	HW_E3_62	87.00	716.00	8.23	\$ 8,051,965	49	\$ 390,520,306
		1970	\$ 1,343,413	HW_E3_62	91.00	716.00	7.87	\$ 10,570,150	48	\$ 502,082,125
		1971	\$ 3,661,735	HW_E3_62	92.00	716.00	7.78	\$ 28,497,850	47	\$ 1,325,150,026

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1972	\$ 2,388,202	HW_E3_62	94.00	716.00	7.62	\$ 18,190,986	46	\$ 827,689,852
		1973	\$ 2,076,658	HW_E3_62	100.00	716.00	7.16	\$ 14,868,871	45	\$ 661,664,782
		1974	\$ 1,753,655	HW_E3_62	122.00	716.00	5.87	\$ 10,291,943	44	\$ 447,699,530
		1975	\$ 925,444	HW_E3_62	141.00	716.00	5.08	\$ 4,699,417	43	\$ 199,725,214
		1976	\$ 2,265,106	HW_E3_62	145.00	716.00	4.94	\$ 11,184,937	42	\$ 464,174,901
		1977	\$ 3,275,008	HW_E3_62	160.00	716.00	4.48	\$ 14,655,659	41	\$ 593,554,190
		1978	\$ 994,668	HW_E3_62	171.00	716.00	4.19	\$ 4,164,808	40	\$ 164,509,932
		1979	\$ 3,322,605	HW_E3_62	181.00	716.00	3.96	\$ 13,143,563	39	\$ 506,027,163
		1980	\$ 3,401,980	HW_E3_62	195.00	716.00	3.67	\$ 12,491,372	38	\$ 468,426,458
		1981	\$ 962,192	HW_E3_62	213.00	716.00	3.36	\$ 3,234,410	37	\$ 118,055,970
		1982	\$ 993,719	HW_E3_62	234.00	716.00	3.06	\$ 3,040,610	36	\$ 107,941,650
		1983	\$ 2,964,506	HW_E3_62	236.00	716.00	3.03	\$ 8,994,011	35	\$ 310,293,374
		1984	\$ 1,098,029	HW_E3_62	235.00	716.00	3.05	\$ 3,345,483	34	\$ 112,073,693
		1985	\$ 1,171,392	HW_E3_62	239.00	716.00	3.00	\$ 3,509,274	33	\$ 114,051,405
		1986	\$ 1,199,267	HW_E3_62	242.00	716.00	2.96	\$ 3,548,244	32	\$ 111,769,700
		1987	\$ 4,549,854	HW_E3_62	250.00	716.00	2.86	\$ 13,030,781	31	\$ 397,438,826
		1988	\$ 2,476,702	HW_E3_62	274.50	716.00	2.61	\$ 6,460,176	30	\$ 190,575,206
		1989	\$ 562,252	HW_E3_62	299.00	716.00	2.39	\$ 1,346,396	29	\$ 38,372,274
		1990	\$ 3,070,504	HW_E3_62	320.25	716.00	2.24	\$ 6,864,889	28	\$ 188,784,456
		1991	\$ 5,710,234	HW_E3_62	321.75	716.00	2.23	\$ 12,707,156	27	\$ 336,739,637
		1992	\$ 8,484,644	HW_E3_62	322.00	716.00	2.22	\$ 18,866,475	26	\$ 481,095,120
		1993	\$ 4,686,420	HW_E3_62	325.25	716.00	2.20	\$ 10,316,608	25	\$ 252,756,899
		1994	\$ 10,128,507	HW_E3_62	336.25	716.00	2.13	\$ 21,567,319	24	\$ 506,831,998
		1995	\$ 2,816,366	HW_E3_62	354.50	716.00	2.02	\$ 5,688,345	23	\$ 127,987,765
		1996	\$ 4,153,258	HW_E3_62	352.50	716.00	2.03	\$ 8,436,121	22	\$ 181,376,594
		1997	\$ 445,004	HW_E3_62	358.75	716.00	2.00	\$ 888,146	21	\$ 18,207,003
		1998	\$ 117,830	HW_E3_62	373.25	716.00	1.92	\$ 226,032	20	\$ 4,407,630
		1999	\$ 9,266,931	HW_E3_62	376.50	716.00	1.90	\$ 17,623,167	19	\$ 326,028,585
		2000	\$ 7,157,208	HW_E3_62	380.25	716.00	1.88	\$ 13,476,820	18	\$ 235,844,353
		2001	\$ 1,691,680	HW_E3_62	386.25	716.00	1.85	\$ 3,135,904	17	\$ 51,742,419
		2002	\$ 1,997,948	HW_E3_62	385.25	716.00	1.86	\$ 3,713,254	16	\$ 57,555,434
		2003	\$ 6,736,838	HW_E3_62	387.50	716.00	1.85	\$ 12,447,938	15	\$ 180,495,108
		2004	\$ 2,930,081	HW_E3_62	432.50	716.00	1.66	\$ 4,850,723	14	\$ 65,484,760
		2005	\$ 2,963,543	HW_E3_62	469.25	716.00	1.53	\$ 4,521,890	13	\$ 56,523,620
		2006	\$ 1,502,829	HW_E3_62	508.75	716.00	1.41	\$ 2,115,038	12	\$ 24,322,936
		2007	\$ 1,369,995	HW_E3_62	554.75	716.00	1.29	\$ 1,768,209	11	\$ 18,566,192
		2008	\$ 8,029,544	HW_E3_62	592.25	716.00	1.21	\$ 9,707,309	10	\$ 92,219,436
		2009	\$ 1,844,978	HW_E3_62	612.75	716.00	1.17	\$ 2,155,861	9	\$ 18,324,820
		2010	\$ 8,093,070	HW_E3_62	639.00	716.00	1.12	\$ 9,068,292	8	\$ 68,012,188
		2011	\$ 1,327,391	HW_E3_62	661.50	716.00	1.08	\$ 1,436,753	7	\$ 9,338,894
		2012	\$ 4,969,816	HW_E3_62	675.50	716.00	1.06	\$ 5,267,784	6	\$ 28,972,813
		2013	\$ 3,535,458	HW_E3_62	684.50	716.00	1.05	\$ 3,698,156	5	\$ 16,641,702
		2014	\$ 2,674,000	HW_E3_62	697.00	716.00	1.03	\$ 2,746,893	4	\$ 9,614,125
		2015	\$ 2,825,090	HW_E3_62	698.75	716.00	1.02	\$ 2,894,833	3	\$ 7,237,081
		2016	\$ 2,332,569	HW_E3_62	701.50	716.00	1.02	\$ 2,380,783	2	\$ 3,571,175
		2017	\$ 2,041,928	HW_E3_62	716.00	716.00	1.00	\$ 2,041,928	0	\$ 510,482
		Total	\$ 166,357,968		0.00	0.00		\$ 505,754,650	37	\$ 18,469,445,478
362.0 Total		1942	\$ 102,923	HW_E3_64	18.00	584.00	32.44	\$ 3,339,273	76	\$ 252,115,117
364	Poles, Towers & Fixtures	1943	\$ 856	HW_E3_64	19.00	584.00	30.74	\$ 26,314	75	\$ 1,960,356
		1944	\$ 436	HW_E3_64	21.00	584.00	27.81	\$ 12,135	74	\$ 891,940
		1945	\$ 4,617	HW_E3_64	23.00	584.00	25.39	\$ 117,232	73	\$ 8,499,313
		1946	\$ 12,309	HW_E3_64	24.00	584.00	24.33	\$ 299,531	72	\$ 21,416,461
		1947	\$ 10,501	HW_E3_64	29.00	584.00	20.14	\$ 211,472	71	\$ 14,908,779
		1948	\$ 16,476	HW_E3_64	32.00	584.00	18.25	\$ 300,690	70	\$ 20,897,975
		1949	\$ 23,718	HW_E3_64	32.00	584.00	18.25	\$ 432,850	69	\$ 29,650,252
		1950	\$ 43,355	HW_E3_64	34.00	584.00	17.18	\$ 744,677	68	\$ 50,265,717
		1951	\$ 47,294	HW_E3_64	36.00	584.00	16.22	\$ 767,217	67	\$ 51,019,921

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1952	\$ 102,154	HW_E3_64	38.00	584.00	15.37	\$ 1,569,953	66	\$ 102,831,905
		1953	\$ 155,540	HW_E3_64	40.00	584.00	14.60	\$ 2,270,888	65	\$ 146,472,282
		1954	\$ 142,571	HW_E3_64	41.00	584.00	14.24	\$ 2,030,773	64	\$ 128,954,084
		1955	\$ 286,881	HW_E3_64	42.00	584.00	13.90	\$ 3,989,016	63	\$ 249,313,519
		1956	\$ 137,516	HW_E3_64	45.00	584.00	12.98	\$ 1,784,654	62	\$ 109,756,231
		1957	\$ 290,026	HW_E3_64	48.00	584.00	12.17	\$ 3,528,655	61	\$ 213,483,651
		1958	\$ 162,856	HW_E3_64	49.00	584.00	11.92	\$ 1,940,974	60	\$ 115,487,963
		1959	\$ 402,604	HW_E3_64	49.00	584.00	11.92	\$ 4,798,379	59	\$ 280,705,180
		1960	\$ 305,723	HW_E3_64	51.00	584.00	11.45	\$ 3,500,828	58	\$ 201,297,601
		1961	\$ 342,245	HW_E3_64	52.00	584.00	11.23	\$ 3,843,678	57	\$ 217,167,793
		1962	\$ 554,099	HW_E3_64	53.00	584.00	11.02	\$ 6,105,548	56	\$ 338,857,920
		1963	\$ 162,323	HW_E3_64	54.00	584.00	10.81	\$ 1,755,492	55	\$ 95,674,326
		1964	\$ 370,505	HW_E3_64	55.00	584.00	10.62	\$ 3,934,093	54	\$ 210,473,990
		1965	\$ 307,049	HW_E3_64	57.00	584.00	10.25	\$ 3,145,908	53	\$ 165,160,181
		1966	\$ 384,680	HW_E3_64	59.00	584.00	9.90	\$ 3,807,683	52	\$ 196,095,693
		1967	\$ 130,206	HW_E3_64	61.00	584.00	9.57	\$ 1,246,567	51	\$ 62,951,617
		1968	\$ 311,428	HW_E3_64	64.00	584.00	9.13	\$ 2,841,783	50	\$ 140,668,234
		1969	\$ 543,589	HW_E3_64	70.00	584.00	8.34	\$ 4,535,084	49	\$ 219,951,576
		1970	\$ 726,367	HW_E3_64	78.00	584.00	7.49	\$ 5,438,441	48	\$ 258,325,962
		1971	\$ 628,311	HW_E3_64	84.00	584.00	6.95	\$ 4,368,258	47	\$ 203,124,000
		1972	\$ 920,357	HW_E3_64	89.00	584.00	6.56	\$ 6,039,197	46	\$ 274,783,482
		1973	\$ 1,033,613	HW_E3_64	100.00	584.00	5.84	\$ 6,036,299	45	\$ 268,615,300
		1974	\$ 1,520,808	HW_E3_64	124.00	584.00	4.71	\$ 7,162,517	44	\$ 311,569,472
		1975	\$ 1,495,961	HW_E3_64	142.00	584.00	4.11	\$ 6,152,403	43	\$ 261,477,143
		1976	\$ 1,134,642	HW_E3_64	142.00	584.00	4.11	\$ 4,666,415	42	\$ 193,656,219
		1977	\$ 1,526,986	HW_E3_64	150.00	584.00	3.89	\$ 5,945,065	41	\$ 240,775,127
		1978	\$ 1,231,436	HW_E3_64	161.00	584.00	3.63	\$ 4,466,825	40	\$ 176,439,585
		1979	\$ 1,641,969	HW_E3_64	181.00	584.00	3.23	\$ 5,297,845	39	\$ 203,967,017
		1980	\$ 1,684,757	HW_E3_64	197.00	584.00	2.96	\$ 4,994,408	38	\$ 187,290,293
		1981	\$ 2,068,202	HW_E3_64	216.00	584.00	2.70	\$ 5,591,805	37	\$ 204,100,887
		1982	\$ 1,939,973	HW_E3_64	228.00	584.00	2.56	\$ 4,969,053	36	\$ 176,401,393
		1983	\$ 2,422,826	HW_E3_64	232.00	584.00	2.52	\$ 6,098,837	35	\$ 210,409,869
		1984	\$ 2,041,037	HW_E3_64	236.00	584.00	2.47	\$ 5,050,703	34	\$ 169,198,543
		1985	\$ 2,285,397	HW_E3_64	240.00	584.00	2.43	\$ 5,561,132	33	\$ 180,736,795
		1986	\$ 2,504,517	HW_E3_64	245.00	584.00	2.38	\$ 5,969,952	32	\$ 188,053,476
		1987	\$ 2,767,564	HW_E3_64	248.00	584.00	2.35	\$ 6,517,166	31	\$ 198,773,560
		1988	\$ 2,366,389	HW_E3_64	256.50	584.00	2.28	\$ 5,387,801	30	\$ 158,940,133
		1989	\$ 2,370,999	HW_E3_64	265.25	584.00	2.20	\$ 5,220,220	29	\$ 148,776,265
		1990	\$ 2,773,622	HW_E3_64	275.25	584.00	2.12	\$ 5,884,814	28	\$ 161,832,391
		1991	\$ 1,814,552	HW_E3_64	286.25	584.00	2.04	\$ 3,702,003	27	\$ 98,103,092
		1992	\$ 2,318,449	HW_E3_64	301.25	584.00	1.94	\$ 4,494,520	26	\$ 114,610,269
		1993	\$ 3,579,396	HW_E3_64	310.25	584.00	1.88	\$ 6,737,686	25	\$ 165,073,318
		1994	\$ 6,859,526	HW_E3_64	330.25	584.00	1.77	\$ 12,130,092	24	\$ 285,057,170
		1995	\$ 5,276,305	HW_E3_64	344.00	584.00	1.70	\$ 8,957,448	23	\$ 201,542,570
		1996	\$ 4,915,330	HW_E3_64	353.75	584.00	1.65	\$ 8,114,637	22	\$ 174,464,698
		1997	\$ 3,926,918	HW_E3_64	363.50	584.00	1.61	\$ 6,308,996	21	\$ 129,334,414
		1998	\$ 3,743,023	HW_E3_64	368.00	584.00	1.59	\$ 5,940,015	20	\$ 115,830,301
		1999	\$ 3,043,905	HW_E3_64	372.25	584.00	1.57	\$ 4,775,395	19	\$ 88,344,805
		2000	\$ 7,166,369	HW_E3_64	379.75	584.00	1.54	\$ 11,020,828	18	\$ 192,864,482
		2001	\$ 3,324,992	HW_E3_64	393.25	584.00	1.49	\$ 4,937,813	17	\$ 81,473,922
		2002	\$ 6,902,108	HW_E3_64	410.00	584.00	1.42	\$ 9,831,296	16	\$ 152,385,088
		2003	\$ 2,311,728	HW_E3_64	422.50	584.00	1.38	\$ 3,195,383	15	\$ 46,333,049
		2004	\$ 3,005,242	HW_E3_64	436.50	584.00	1.34	\$ 4,020,759	14	\$ 54,280,242
		2005	\$ 1,980,745	HW_E3_64	459.25	584.00	1.27	\$ 2,518,791	13	\$ 31,484,894
		2006	\$ 1,862,122	HW_E3_64	481.50	584.00	1.21	\$ 2,258,523	12	\$ 25,973,019
		2007	\$ 2,818,371	HW_E3_64	500.09	584.00	1.17	\$ 3,291,233	11	\$ 34,557,943
		2008	\$ 2,526,194	HW_E3_64	524.50	584.00	1.11	\$ 2,812,769	10	\$ 26,721,306

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		2009	\$ 3,248,739	HW_E3_64	540.00	584.00	1.08	\$ 3,513,451	9	\$ 29,864,334
		2010	\$ 5,404,761	HW_E3_64	546.25	584.00	1.07	\$ 5,778,271	8	\$ 43,337,031
		2011	\$ 3,872,212	HW_E3_64	552.50	584.00	1.06	\$ 4,092,981	7	\$ 26,604,374
		2012	\$ 3,333,241	HW_E3_64	562.25	584.00	1.04	\$ 3,462,184	6	\$ 19,042,010
		2013	\$ 4,962,698	HW_E3_64	568.75	584.00	1.03	\$ 5,095,764	5	\$ 22,930,939
		2014	\$ 5,506,212	HW_E3_64	570.75	584.00	1.02	\$ 5,634,039	4	\$ 19,719,138
		2015	\$ 7,709,342	HW_E3_64	572.75	584.00	1.02	\$ 7,860,769	3	\$ 19,651,923
		2016	\$ 6,535,681	HW_E3_64	574.50	584.00	1.02	\$ 6,643,756	2	\$ 9,965,634
		2017	\$ 2,753,917	HW_E3_64	584.00	584.00	1.00	\$ 2,753,917	0	\$ 688,479
364.0 Total		Total	\$ 153,142,295		0.00	0.00		\$ 329,583,824	31	\$ 10,234,414,932
365	Overhead Conductors & Devices	1942	\$ 35,042	HW_E3_65	21.00	807.00	38.43	\$ 1,346,625	76	\$ 101,670,169
		1943	\$ 3,541	HW_E3_65	21.00	807.00	38.43	\$ 136,059	75	\$ 10,136,399
		1944	\$ 1,454	HW_E3_65	21.00	807.00	38.43	\$ 55,861	74	\$ 4,105,750
		1945	\$ 1,051	HW_E3_65	22.00	807.00	36.68	\$ 38,534	73	\$ 2,793,733
		1946	\$ 8,734	HW_E3_65	25.00	807.00	32.28	\$ 281,935	72	\$ 20,158,362
		1947	\$ 29,770	HW_E3_65	29.00	807.00	27.83	\$ 828,430	71	\$ 58,404,317
		1948	\$ 51,576	HW_E3_65	31.00	807.00	26.03	\$ 1,342,627	70	\$ 93,312,576
		1949	\$ 104,480	HW_E3_65	31.00	807.00	26.03	\$ 2,719,854	69	\$ 186,309,979
		1950	\$ 78,273	HW_E3_65	33.00	807.00	24.45	\$ 1,914,131	68	\$ 129,203,851
		1951	\$ 125,373	HW_E3_65	37.00	807.00	21.81	\$ 2,734,478	67	\$ 181,842,762
		1952	\$ 132,765	HW_E3_65	39.00	807.00	20.69	\$ 2,747,208	66	\$ 179,942,153
		1953	\$ 200,687	HW_E3_65	41.00	807.00	19.68	\$ 3,950,107	65	\$ 254,781,898
		1954	\$ 136,552	HW_E3_65	42.00	807.00	19.21	\$ 2,623,747	64	\$ 166,607,924
		1955	\$ 185,832	HW_E3_65	46.00	807.00	17.54	\$ 3,260,147	63	\$ 203,759,211
		1956	\$ 95,317	HW_E3_65	50.00	807.00	16.14	\$ 1,538,421	62	\$ 94,612,895
		1957	\$ 205,463	HW_E3_65	49.00	807.00	16.47	\$ 3,383,848	61	\$ 204,722,784
		1958	\$ 171,911	HW_E3_65	49.00	807.00	16.47	\$ 2,831,263	60	\$ 168,460,167
		1959	\$ 449,844	HW_E3_65	50.00	807.00	16.14	\$ 7,260,481	59	\$ 424,738,159
		1960	\$ 215,499	HW_E3_65	51.00	807.00	15.82	\$ 3,409,949	58	\$ 196,072,053
		1961	\$ 299,286	HW_E3_65	52.00	807.00	15.52	\$ 4,644,683	57	\$ 262,424,567
		1962	\$ 540,108	HW_E3_65	54.00	807.00	14.94	\$ 8,071,609	56	\$ 447,974,320
		1963	\$ 256,405	HW_E3_65	54.00	807.00	14.94	\$ 3,831,834	55	\$ 208,834,970
		1964	\$ 442,198	HW_E3_65	56.00	807.00	14.41	\$ 6,372,392	54	\$ 340,922,991
		1965	\$ 300,636	HW_E3_65	59.00	807.00	13.68	\$ 4,112,082	53	\$ 215,884,322
		1966	\$ 573,769	HW_E3_65	61.00	807.00	13.23	\$ 7,590,680	52	\$ 390,920,005
		1967	\$ 314,518	HW_E3_65	65.00	807.00	12.42	\$ 3,904,856	51	\$ 197,195,227
		1968	\$ 972,119	HW_E3_65	69.00	807.00	11.70	\$ 11,369,569	50	\$ 562,793,687
		1969	\$ 1,322,840	HW_E3_65	79.00	807.00	10.22	\$ 13,513,064	49	\$ 655,383,580
		1970	\$ 1,397,021	HW_E3_65	89.00	807.00	9.07	\$ 12,667,368	48	\$ 601,699,994
		1971	\$ 1,052,431	HW_E3_65	98.00	807.00	8.23	\$ 8,666,443	47	\$ 402,989,611
		1972	\$ 1,493,949	HW_E3_65	99.00	807.00	8.15	\$ 12,177,945	46	\$ 554,096,515
		1973	\$ 1,376,944	HW_E3_65	100.00	807.00	8.07	\$ 11,111,937	45	\$ 494,481,180
		1974	\$ 1,865,220	HW_E3_65	116.00	807.00	6.96	\$ 12,976,145	44	\$ 564,462,321
		1975	\$ 1,676,691	HW_E3_65	143.00	807.00	5.84	\$ 9,462,168	43	\$ 402,142,121
		1976	\$ 1,003,843	HW_E3_65	161.00	807.00	5.01	\$ 5,031,687	42	\$ 208,815,013
		1977	\$ 1,664,738	HW_E3_65	174.00	807.00	4.64	\$ 7,720,942	41	\$ 312,698,160
		1978	\$ 1,480,065	HW_E3_65	170.00	807.00	4.75	\$ 7,025,954	40	\$ 277,525,194
		1979	\$ 1,695,178	HW_E3_65	182.00	807.00	4.43	\$ 7,516,531	39	\$ 289,386,456
		1980	\$ 1,478,481	HW_E3_65	201.00	807.00	4.01	\$ 5,935,991	38	\$ 222,599,672
		1981	\$ 1,767,186	HW_E3_65	220.00	807.00	3.67	\$ 6,482,360	37	\$ 236,606,134
		1982	\$ 1,711,620	HW_E3_65	231.00	807.00	3.49	\$ 5,979,557	36	\$ 212,274,280
		1983	\$ 1,891,607	HW_E3_65	244.00	807.00	3.31	\$ 6,256,256	35	\$ 215,840,842
		1984	\$ 2,552,992	HW_E3_65	246.00	807.00	3.28	\$ 8,375,058	34	\$ 280,564,442
		1985	\$ 2,598,934	HW_E3_65	247.00	807.00	3.27	\$ 8,491,253	33	\$ 275,965,717
		1986	\$ 2,659,516	HW_E3_65	249.00	807.00	3.24	\$ 8,619,396	32	\$ 271,510,987
		1987	\$ 2,576,713	HW_E3_65	248.00	807.00	3.25	\$ 8,384,707	31	\$ 255,733,551
		1988	\$ 2,141,831	HW_E3_65	292.50	807.00	2.76	\$ 5,909,258	30	\$ 174,323,113

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1989	\$ 2,504,990	HW_E3_65	303.50	807.00	2.66	\$ 6,660,715	29	\$ 189,830,388
		1990	\$ 2,789,447	HW_E3_65	305.75	807.00	2.64	\$ 7,362,497	28	\$ 202,468,657
		1991	\$ 1,652,040	HW_E3_65	312.75	807.00	2.58	\$ 4,262,819	27	\$ 112,964,697
		1992	\$ 1,888,195	HW_E3_65	305.00	807.00	2.65	\$ 4,995,979	26	\$ 127,397,474
		1993	\$ 2,866,693	HW_E3_65	316.25	807.00	2.55	\$ 7,315,166	25	\$ 179,221,567
		1994	\$ 8,535,361	HW_E3_65	330.25	807.00	2.44	\$ 20,857,037	24	\$ 490,140,369
		1995	\$ 4,914,543	HW_E3_65	354.50	807.00	2.28	\$ 11,187,689	23	\$ 251,723,011
		1996	\$ 6,926,330	HW_E3_65	362.50	807.00	2.23	\$ 15,419,444	22	\$ 331,518,042
		1997	\$ 5,127,219	HW_E3_65	370.25	807.00	2.18	\$ 11,175,329	21	\$ 229,094,237
		1998	\$ 3,886,425	HW_E3_65	379.75	807.00	2.13	\$ 8,258,974	20	\$ 161,049,988
		1999	\$ 3,229,085	HW_E3_65	369.50	807.00	2.18	\$ 7,052,426	19	\$ 130,469,887
		2000	\$ 6,368,125	HW_E3_65	393.25	807.00	2.05	\$ 13,068,219	18	\$ 228,693,824
		2001	\$ 5,111,774	HW_E3_65	414.50	807.00	1.95	\$ 9,952,236	17	\$ 164,211,887
		2002	\$ 11,939,509	HW_E3_65	428.75	807.00	1.88	\$ 22,472,731	16	\$ 348,327,330
		2003	\$ 4,205,654	HW_E3_65	443.00	807.00	1.82	\$ 7,661,316	15	\$ 111,089,079
		2004	\$ 5,727,068	HW_E3_65	468.50	807.00	1.72	\$ 9,864,981	14	\$ 133,177,246
		2005	\$ 4,678,095	HW_E3_65	517.00	807.00	1.56	\$ 7,302,171	13	\$ 91,277,138
		2006	\$ 3,972,800	HW_E3_65	580.50	807.00	1.39	\$ 5,522,911	12	\$ 63,513,474
		2007	\$ 5,501,837	HW_E3_65	631.53	807.00	1.28	\$ 7,030,561	11	\$ 73,820,894
		2008	\$ 5,481,056	HW_E3_65	706.25	807.00	1.14	\$ 6,262,955	10	\$ 59,498,076
		2009	\$ 3,779,100	HW_E3_65	653.75	807.00	1.23	\$ 4,664,985	9	\$ 39,652,370
		2010	\$ 6,624,626	HW_E3_65	678.50	807.00	1.19	\$ 7,879,252	8	\$ 59,094,394
		2011	\$ 7,606,030	HW_E3_65	713.25	807.00	1.13	\$ 8,605,771	7	\$ 55,937,513
		2012	\$ 8,204,943	HW_E3_65	712.00	807.00	1.13	\$ 9,299,704	6	\$ 51,148,370
		2013	\$ 8,155,037	HW_E3_65	743.50	807.00	1.09	\$ 8,851,533	5	\$ 39,831,898
		2014	\$ 11,533,393	HW_E3_65	771.50	807.00	1.05	\$ 12,064,094	4	\$ 42,224,329
		2015	\$ 9,323,464	HW_E3_65	791.50	807.00	1.02	\$ 9,506,046	3	\$ 23,765,116
		2016	\$ 8,187,179	HW_E3_65	798.00	807.00	1.01	\$ 8,279,516	2	\$ 12,419,274
		2017	\$ 3,240,884	HW_E3_65	807.00	807.00	1.00	\$ 3,240,884	0	\$ 810,221
365.0 Total		Total	\$ 205,300,902		0.00	0.00		\$ 530,683,372	31	\$ 16,222,054,861
366	Underground Conduits	1912	\$ 148,481	HW_E3_66	8.00	574.00	71.75	\$ 10,653,540	106	\$ 1,123,948,517
		1915	\$ 6,707	HW_E3_66	9.00	574.00	63.78	\$ 427,742	103	\$ 43,843,515
		1916	\$ 2,473	HW_E3_66	9.00	574.00	63.78	\$ 157,747	102	\$ 16,011,353
		1918	\$ 1,653	HW_E3_66	15.00	574.00	38.27	\$ 63,255	100	\$ 6,293,853
		1920	\$ 567	HW_E3_66	19.00	574.00	30.21	\$ 17,118	98	\$ 1,669,053
		1922	\$ 6,173	HW_E3_66	19.00	574.00	30.21	\$ 186,492	96	\$ 17,809,957
		1923	\$ 120	HW_E3_66	19.00	574.00	30.21	\$ 3,633	95	\$ 343,273
		1924	\$ 557	HW_E3_66	19.00	574.00	30.21	\$ 16,842	94	\$ 1,574,733
		1925	\$ 2,731	HW_E3_66	19.00	574.00	30.21	\$ 82,505	93	\$ 7,631,708
		1927	\$ 815	HW_E3_66	19.00	574.00	30.21	\$ 24,634	91	\$ 2,229,374
		1928	\$ 497	HW_E3_66	19.00	574.00	30.21	\$ 15,021	90	\$ 1,344,404
		1929	\$ 668	HW_E3_66	19.00	574.00	30.21	\$ 20,186	89	\$ 1,786,440
		1930	\$ 13,034	HW_E3_66	19.00	574.00	30.21	\$ 393,757	88	\$ 34,453,768
		1931	\$ 5,653	HW_E3_66	19.00	574.00	30.21	\$ 170,795	87	\$ 14,773,760
		1932	\$ 788	HW_E3_66	17.00	574.00	33.76	\$ 26,607	86	\$ 2,274,921
		1933	\$ 98	HW_E3_66	17.00	574.00	33.76	\$ 3,324	85	\$ 280,889
		1934	\$ 276	HW_E3_66	18.00	574.00	31.89	\$ 8,785	84	\$ 733,580
		1935	\$ 381,732	HW_E3_66	18.00	574.00	31.89	\$ 12,173,020	83	\$ 1,004,274,112
		1936	\$ 2,509	HW_E3_66	19.00	574.00	30.21	\$ 75,810	82	\$ 6,178,514
		1937	\$ 4,333	HW_E3_66	19.00	574.00	30.21	\$ 130,903	81	\$ 10,537,677
		1938	\$ 4,869	HW_E3_66	20.00	574.00	28.70	\$ 139,740	80	\$ 11,109,354
		1939	\$ 3,380	HW_E3_66	20.00	574.00	28.70	\$ 97,008	79	\$ 7,615,106
		1940	\$ 3,601	HW_E3_66	20.00	574.00	28.70	\$ 103,354	78	\$ 8,009,969
		1941	\$ 6,495	HW_E3_66	21.00	574.00	27.33	\$ 177,536	77	\$ 13,581,526
		1942	\$ 5,245	HW_E3_66	22.00	574.00	26.09	\$ 136,841	76	\$ 10,331,521
		1943	\$ 720	HW_E3_66	22.00	574.00	26.09	\$ 18,789	75	\$ 1,399,769
		1944	\$ 6,293	HW_E3_66	22.00	574.00	26.09	\$ 164,199	74	\$ 12,068,605

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1945	\$ 6,496	HW_E3_66	23.00	574.00	24.96	\$ 162,126	73	\$ 11,754,139
		1946	\$ 3,974	HW_E3_66	26.00	574.00	22.08	\$ 87,737	72	\$ 6,273,212
		1947	\$ 25,236	HW_E3_66	29.00	574.00	19.79	\$ 499,502	71	\$ 35,214,872
		1948	\$ 135,255	HW_E3_66	33.00	574.00	17.39	\$ 2,352,620	70	\$ 163,507,118
		1949	\$ 93,800	HW_E3_66	34.00	574.00	16.88	\$ 1,583,568	69	\$ 108,474,379
		1950	\$ 200,674	HW_E3_66	36.00	574.00	15.94	\$ 3,199,633	68	\$ 215,975,210
		1951	\$ 108,601	HW_E3_66	38.00	574.00	15.11	\$ 1,640,446	67	\$ 109,089,644
		1952	\$ 128,954	HW_E3_66	40.00	574.00	14.35	\$ 1,850,486	66	\$ 121,206,825
		1953	\$ 84,984	HW_E3_66	41.00	574.00	14.00	\$ 1,189,779	65	\$ 76,740,724
		1954	\$ 64,436	HW_E3_66	43.00	574.00	13.35	\$ 860,139	64	\$ 54,618,835
		1955	\$ 38,812	HW_E3_66	45.00	574.00	12.76	\$ 495,075	63	\$ 30,942,180
		1956	\$ 79,077	HW_E3_66	47.00	574.00	12.21	\$ 965,746	62	\$ 59,393,377
		1957	\$ 125,482	HW_E3_66	49.00	574.00	11.71	\$ 1,469,937	61	\$ 88,931,205
		1958	\$ 108,721	HW_E3_66	51.00	574.00	11.25	\$ 1,223,640	60	\$ 72,806,562
		1959	\$ 105,799	HW_E3_66	52.00	574.00	11.04	\$ 1,167,859	59	\$ 68,319,769
		1960	\$ 137,830	HW_E3_66	54.00	574.00	10.63	\$ 1,465,080	58	\$ 84,242,084
		1961	\$ 18,915	HW_E3_66	56.00	574.00	10.25	\$ 193,880	57	\$ 10,954,201
		1962	\$ 52,893	HW_E3_66	57.00	574.00	10.07	\$ 532,646	56	\$ 29,561,876
		1963	\$ 94,409	HW_E3_66	59.00	574.00	9.73	\$ 918,486	55	\$ 50,057,461
		1964	\$ 131,591	HW_E3_66	60.00	574.00	9.57	\$ 1,258,889	54	\$ 67,350,580
		1965	\$ 132,785	HW_E3_66	61.00	574.00	9.41	\$ 1,249,485	53	\$ 65,597,957
		1966	\$ 95,799	HW_E3_66	62.00	574.00	9.26	\$ 886,916	52	\$ 45,676,193
		1967	\$ 143,495	HW_E3_66	64.00	574.00	8.97	\$ 1,286,966	51	\$ 64,991,803
		1968	\$ 293,251	HW_E3_66	67.00	574.00	8.57	\$ 2,512,326	50	\$ 124,360,126
		1969	\$ 450,610	HW_E3_66	74.00	574.00	7.76	\$ 3,495,268	49	\$ 169,520,519
		1970	\$ 401,078	HW_E3_66	81.00	574.00	7.09	\$ 2,842,210	48	\$ 135,004,977
		1971	\$ 872,549	HW_E3_66	88.00	574.00	6.52	\$ 5,691,400	47	\$ 264,650,106
		1972	\$ 419,270	HW_E3_66	93.00	574.00	6.17	\$ 2,587,754	46	\$ 117,742,822
		1973	\$ 337,465	HW_E3_66	100.00	574.00	5.74	\$ 1,937,050	45	\$ 86,198,703
		1974	\$ 683,132	HW_E3_66	111.00	574.00	5.17	\$ 3,532,595	44	\$ 153,667,877
		1975	\$ 601,544	HW_E3_66	121.00	574.00	4.74	\$ 2,853,605	43	\$ 121,278,232
		1976	\$ 784,669	HW_E3_66	126.00	574.00	4.56	\$ 3,574,602	42	\$ 148,345,964
		1977	\$ 519,889	HW_E3_66	136.00	574.00	4.22	\$ 2,194,237	41	\$ 88,866,603
		1978	\$ 321,125	HW_E3_66	148.00	574.00	3.88	\$ 1,245,444	40	\$ 49,195,053
		1979	\$ 577,353	HW_E3_66	161.00	574.00	3.57	\$ 2,058,388	39	\$ 79,247,936
		1980	\$ 1,584,629	HW_E3_66	172.00	574.00	3.34	\$ 5,288,238	38	\$ 198,308,925
		1981	\$ 1,090,785	HW_E3_66	185.00	574.00	3.10	\$ 3,384,382	37	\$ 123,529,960
		1982	\$ 1,521,296	HW_E3_66	197.00	574.00	2.91	\$ 4,432,609	36	\$ 157,357,603
		1983	\$ 856,001	HW_E3_66	210.00	574.00	2.73	\$ 2,339,736	35	\$ 80,720,890
		1984	\$ 1,611,195	HW_E3_66	218.00	574.00	2.63	\$ 4,242,320	34	\$ 142,117,732
		1985	\$ 1,525,796	HW_E3_66	221.00	574.00	2.60	\$ 3,962,928	33	\$ 128,795,157
		1986	\$ 1,591,666	HW_E3_66	225.00	574.00	2.55	\$ 4,060,517	32	\$ 127,906,285
		1987	\$ 1,967,507	HW_E3_66	232.00	574.00	2.47	\$ 4,867,884	31	\$ 148,470,464
		1988	\$ 2,545,948	HW_E3_66	248.50	574.00	2.31	\$ 5,880,782	30	\$ 173,483,056
		1989	\$ 2,011,527	HW_E3_66	269.00	574.00	2.13	\$ 4,292,254	29	\$ 122,329,243
		1990	\$ 2,163,229	HW_E3_66	267.75	574.00	2.14	\$ 4,637,511	28	\$ 127,531,555
		1991	\$ 1,219,634	HW_E3_66	262.00	574.00	2.19	\$ 2,672,023	27	\$ 70,808,615
		1992	\$ 972,949	HW_E3_66	264.25	574.00	2.17	\$ 2,113,425	26	\$ 53,892,326
		1993	\$ 1,381,060	HW_E3_66	271.25	574.00	2.12	\$ 2,922,502	25	\$ 71,601,302
		1994	\$ 4,448,554	HW_E3_66	284.00	574.00	2.02	\$ 8,991,091	24	\$ 211,290,650
		1995	\$ 2,206,942	HW_E3_66	292.25	574.00	1.96	\$ 4,334,592	23	\$ 97,528,330
		1996	\$ 2,387,230	HW_E3_66	298.00	574.00	1.93	\$ 4,598,222	22	\$ 98,861,776
		1997	\$ 1,732,344	HW_E3_66	306.25	574.00	1.87	\$ 3,246,907	21	\$ 66,561,597
		1998	\$ 145,164	HW_E3_66	314.50	574.00	1.83	\$ 264,941	20	\$ 5,166,356
		1999	\$ 3,560,423	HW_E3_66	325.25	574.00	1.76	\$ 6,283,421	19	\$ 116,243,298
		2000	\$ 3,435,262	HW_E3_66	337.50	574.00	1.70	\$ 5,842,490	18	\$ 102,243,572
		2001	\$ 2,368,780	HW_E3_66	350.50	574.00	1.64	\$ 3,879,257	17	\$ 64,007,734

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		2002	\$ 5,821,953	HW_E3_66	371.75	574.00	1.54	\$ 8,989,377	16	\$ 139,335,346
		2003	\$ 2,948,472	HW_E3_66	384.00	574.00	1.49	\$ 4,407,351	15	\$ 63,906,589
		2004	\$ 3,276,071	HW_E3_66	400.75	574.00	1.43	\$ 4,692,364	14	\$ 63,346,910
		2005	\$ 2,846,624	HW_E3_66	428.25	574.00	1.34	\$ 3,815,440	13	\$ 47,692,996
		2006	\$ 2,657,538	HW_E3_66	455.50	574.00	1.26	\$ 3,348,906	12	\$ 38,512,418
		2007	\$ 2,756,915	HW_E3_66	473.48	574.00	1.21	\$ 3,342,222	11	\$ 35,093,326
		2008	\$ 2,532,402	HW_E3_66	496.50	574.00	1.16	\$ 2,927,691	10	\$ 27,813,067
		2009	\$ 2,421,883	HW_E3_66	506.00	574.00	1.13	\$ 2,747,353	9	\$ 23,352,500
		2010	\$ 4,725,999	HW_E3_66	506.50	574.00	1.13	\$ 5,355,821	8	\$ 40,168,656
		2011	\$ 5,136,274	HW_E3_66	522.50	574.00	1.10	\$ 5,642,529	7	\$ 36,676,440
		2012	\$ 2,614,467	HW_E3_66	539.00	574.00	1.06	\$ 2,784,237	6	\$ 15,313,304
		2013	\$ 5,031,537	HW_E3_66	545.25	574.00	1.05	\$ 5,296,840	5	\$ 23,835,782
		2014	\$ 5,716,638	HW_E3_66	557.50	574.00	1.03	\$ 5,885,830	4	\$ 20,600,404
		2015	\$ 3,555,551	HW_E3_66	561.50	574.00	1.02	\$ 3,634,704	3	\$ 9,086,759
		2016	\$ 8,799,366	HW_E3_66	563.00	574.00	1.02	\$ 8,971,290	2	\$ 13,456,934
		2017	\$ 2,757,163	HW_E3_66	574.00	574.00	1.00	\$ 2,757,163	0	\$ 689,291
366.0 Total		Total	\$ 114,917,197		0.00	0.00		\$ 253,691,854	34	\$ 8,629,505,521
367	Underground Conductors & Devices	1935	\$ 138,578	HW_E3_67	22.00	689.50	31.34	\$ 4,343,153	83	\$ 358,310,121
		1936	\$ 6,132	HW_E3_67	23.00	689.50	29.98	\$ 183,825	82	\$ 14,981,754
		1937	\$ 12,478	HW_E3_67	26.00	689.50	26.52	\$ 330,917	81	\$ 26,638,779
		1938	\$ 16,351	HW_E3_67	23.00	689.50	29.98	\$ 490,165	80	\$ 38,968,114
		1939	\$ 13,175	HW_E3_67	23.00	689.50	29.98	\$ 394,949	79	\$ 31,003,536
		1940	\$ 6,945	HW_E3_67	24.00	689.50	28.73	\$ 199,513	78	\$ 15,462,291
		1941	\$ 11,027	HW_E3_67	27.00	689.50	25.54	\$ 281,594	77	\$ 21,541,949
		1942	\$ 5,847	HW_E3_67	28.00	689.50	24.63	\$ 143,980	76	\$ 10,870,521
		1943	\$ 305	HW_E3_67	28.00	689.50	24.63	\$ 7,520	75	\$ 560,239
		1944	\$ 5,055	HW_E3_67	27.00	689.50	25.54	\$ 129,083	74	\$ 9,487,625
		1945	\$ 12,075	HW_E3_67	27.00	689.50	25.54	\$ 308,359	73	\$ 22,356,024
		1946	\$ 6,368	HW_E3_67	32.00	689.50	21.55	\$ 137,207	72	\$ 9,810,304
		1947	\$ 19,685	HW_E3_67	38.00	689.50	18.14	\$ 357,171	71	\$ 25,180,567
		1948	\$ 26,192	HW_E3_67	45.00	689.50	15.32	\$ 401,322	70	\$ 27,891,854
		1949	\$ 37,944	HW_E3_67	50.00	689.50	13.79	\$ 523,243	69	\$ 35,842,122
		1950	\$ 38,845	HW_E3_67	53.00	689.50	13.01	\$ 505,354	68	\$ 34,111,399
		1951	\$ 33,181	HW_E3_67	66.00	689.50	10.45	\$ 346,640	67	\$ 23,051,564
		1952	\$ 36,056	HW_E3_67	68.00	689.50	10.14	\$ 365,595	66	\$ 23,946,453
		1953	\$ 54,180	HW_E3_67	67.00	689.50	10.29	\$ 557,567	65	\$ 35,963,049
		1954	\$ 60,841	HW_E3_67	69.00	689.50	9.99	\$ 607,965	64	\$ 38,605,786
		1955	\$ 41,022	HW_E3_67	72.00	689.50	9.58	\$ 392,838	63	\$ 24,552,395
		1956	\$ 37,231	HW_E3_67	71.00	689.50	9.71	\$ 361,558	62	\$ 22,235,839
		1957	\$ 65,493	HW_E3_67	62.00	689.50	11.12	\$ 728,346	61	\$ 44,064,946
		1958	\$ 74,228	HW_E3_67	61.00	689.50	11.30	\$ 839,018	60	\$ 49,921,555
		1959	\$ 57,011	HW_E3_67	64.00	689.50	10.77	\$ 614,202	59	\$ 35,930,796
		1960	\$ 68,521	HW_E3_67	65.00	689.50	10.61	\$ 726,848	58	\$ 41,793,735
		1961	\$ 29,414	HW_E3_67	64.00	689.50	10.77	\$ 316,890	57	\$ 17,904,309
		1962	\$ 21,082	HW_E3_67	64.00	689.50	10.77	\$ 227,121	56	\$ 12,605,196
		1963	\$ 82,727	HW_E3_67	65.00	689.50	10.61	\$ 877,546	55	\$ 47,826,260
		1964	\$ 65,318	HW_E3_67	70.00	689.50	9.85	\$ 643,379	54	\$ 34,420,769
		1965	\$ 86,300	HW_E3_67	75.00	689.50	9.19	\$ 793,387	53	\$ 41,652,820
		1966	\$ 107,466	HW_E3_67	76.00	689.50	9.07	\$ 974,969	52	\$ 50,210,883
		1967	\$ 103,722	HW_E3_67	78.00	689.50	8.84	\$ 916,880	51	\$ 46,302,433
		1968	\$ 370,250	HW_E3_67	76.00	689.50	9.07	\$ 3,359,044	50	\$ 166,272,676
		1969	\$ 416,992	HW_E3_67	83.00	689.50	8.31	\$ 3,464,046	49	\$ 168,006,215
		1970	\$ 484,806	HW_E3_67	88.00	689.50	7.84	\$ 3,798,566	48	\$ 180,431,876
		1971	\$ 337,046	HW_E3_67	88.00	689.50	7.84	\$ 2,640,828	47	\$ 122,798,521
		1972	\$ 509,635	HW_E3_67	99.00	689.50	6.96	\$ 3,549,425	46	\$ 161,498,842
		1973	\$ 379,304	HW_E3_67	100.00	689.50	6.90	\$ 2,615,298	45	\$ 116,380,754
		1974	\$ 655,785	HW_E3_67	125.00	689.50	5.52	\$ 3,617,312	44	\$ 157,353,069

Summary
 Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1975	\$ 829,941	HW_E3_67	129.00	689.50	5.34	\$ 4,436,001	43	\$ 188,530,051
		1976	\$ 1,082,705	HW_E3_67	133.00	689.50	5.18	\$ 5,612,969	42	\$ 232,938,216
		1977	\$ 852,407	HW_E3_67	142.00	689.50	4.86	\$ 4,138,977	41	\$ 167,628,571
		1978	\$ 736,002	HW_E3_67	151.00	689.50	4.57	\$ 3,360,750	40	\$ 132,749,644
		1979	\$ 994,366	HW_E3_67	185.00	689.50	3.73	\$ 3,706,029	39	\$ 142,682,131
		1980	\$ 1,141,082	HW_E3_67	209.00	689.50	3.30	\$ 3,764,478	38	\$ 141,167,927
		1981	\$ 1,582,971	HW_E3_67	214.00	689.50	3.22	\$ 5,100,272	37	\$ 186,159,922
		1982	\$ 1,258,242	HW_E3_67	211.00	689.50	3.27	\$ 4,111,649	36	\$ 145,963,527
		1983	\$ 1,494,093	HW_E3_67	213.00	689.50	3.24	\$ 4,836,511	35	\$ 166,859,627
		1984	\$ 1,295,808	HW_E3_67	212.00	689.50	3.25	\$ 4,214,431	34	\$ 141,183,423
		1985	\$ 2,774,144	HW_E3_67	218.00	689.50	3.16	\$ 8,774,185	33	\$ 285,160,997
		1986	\$ 2,594,418	HW_E3_67	229.00	689.50	3.01	\$ 7,811,576	32	\$ 246,064,648
		1987	\$ 3,145,284	HW_E3_67	234.00	689.50	2.95	\$ 9,267,836	31	\$ 282,668,984
		1988	\$ 3,391,629	HW_E3_67	238.75	689.50	2.89	\$ 9,794,882	30	\$ 288,949,023
		1989	\$ 3,960,052	HW_E3_67	254.50	689.50	2.71	\$ 10,728,707	29	\$ 305,768,158
		1990	\$ 4,053,847	HW_E3_67	265.50	689.50	2.60	\$ 10,527,787	28	\$ 289,514,136
		1991	\$ 2,855,282	HW_E3_67	271.50	689.50	2.54	\$ 7,251,259	27	\$ 192,158,354
		1992	\$ 3,050,722	HW_E3_67	274.50	689.50	2.51	\$ 7,662,926	26	\$ 195,404,607
		1993	\$ 2,683,791	HW_E3_67	277.50	689.50	2.48	\$ 6,668,375	25	\$ 163,375,178
		1994	\$ 10,011,761	HW_E3_67	280.75	689.50	2.46	\$ 24,588,100	24	\$ 577,820,344
		1995	\$ 4,626,893	HW_E3_67	293.00	689.50	2.35	\$ 10,888,200	23	\$ 244,984,504
		1996	\$ 6,743,244	HW_E3_67	299.75	689.50	2.30	\$ 15,511,149	22	\$ 333,489,710
		1997	\$ 4,395,257	HW_E3_67	302.50	689.50	2.28	\$ 10,018,279	21	\$ 205,374,718
		1998	\$ 878,878	HW_E3_67	307.50	689.50	2.24	\$ 1,970,688	20	\$ 38,428,413
		1999	\$ 11,911,066	HW_E3_67	314.00	689.50	2.20	\$ 26,155,032	19	\$ 483,868,098
		2000	\$ 7,280,075	HW_E3_67	322.00	689.50	2.14	\$ 15,588,856	18	\$ 272,804,972
		2001	\$ 6,953,025	HW_E3_67	323.00	689.50	2.13	\$ 14,842,448	17	\$ 244,900,391
		2002	\$ 20,628,728	HW_E3_67	328.75	689.50	2.10	\$ 43,265,424	16	\$ 670,614,078
		2003	\$ 8,207,711	HW_E3_67	335.00	689.50	2.06	\$ 16,893,185	15	\$ 244,951,178
		2004	\$ 9,380,381	HW_E3_67	356.75	689.50	1.93	\$ 18,129,706	14	\$ 244,751,036
		2005	\$ 8,880,401	HW_E3_67	397.75	689.50	1.73	\$ 15,394,183	13	\$ 192,427,289
		2006	\$ 8,037,541	HW_E3_67	446.50	689.50	1.54	\$ 12,411,835	12	\$ 142,736,101
		2007	\$ 11,683,602	HW_E3_67	522.27	689.50	1.32	\$ 15,424,698	11	\$ 161,959,331
		2008	\$ 7,770,289	HW_E3_67	593.13	689.50	1.16	\$ 9,032,858	10	\$ 85,812,152
		2009	\$ 7,007,046	HW_E3_67	629.24	689.50	1.10	\$ 7,678,116	9	\$ 65,263,983
		2010	\$ 8,264,413	HW_E3_67	607.69	689.50	1.13	\$ 9,377,045	8	\$ 70,327,838
		2011	\$ 10,599,007	HW_E3_67	656.13	689.50	1.05	\$ 11,138,145	7	\$ 72,397,944
		2012	\$ 9,796,852	HW_E3_67	698.25	689.50	0.99	\$ 9,674,084	6	\$ 53,207,462
		2013	\$ 12,798,617	HW_E3_67	713.00	689.50	0.97	\$ 12,376,783	5	\$ 55,695,522
		2014	\$ 13,245,315	HW_E3_67	724.00	689.50	0.95	\$ 12,614,150	4	\$ 44,149,526
		2015	\$ 10,225,694	HW_E3_67	723.88	689.50	0.95	\$ 9,740,101	3	\$ 24,350,254
		2016	\$ 11,107,167	HW_E3_67	700.75	689.50	0.98	\$ 10,928,850	2	\$ 16,393,274
		2017	\$ 5,851,969	HW_E3_67	689.50	689.50	1.00	\$ 5,851,969	0	\$ 1,462,992
		Total	\$ 260,596,322		0.00	0.00		\$ 503,336,105	21	\$ 10,789,846,172
367.0 Total		1941	\$ 5,014	HW_E3_68	63.00	876.00	13.90	\$ 69,713	77	\$ 5,333,038
368	Line Transformers	1942	\$ 695	HW_E3_68	63.00	876.00	13.90	\$ 9,668	76	\$ 729,933
		1943	\$ 703	HW_E3_68	59.00	876.00	14.85	\$ 10,437	75	\$ 777,558
		1944	\$ 626	HW_E3_68	59.00	876.00	14.85	\$ 9,297	74	\$ 683,365
		1945	\$ 5,514	HW_E3_68	59.00	876.00	14.85	\$ 81,868	73	\$ 5,935,408
		1946	\$ 6,195	HW_E3_68	66.00	876.00	13.27	\$ 82,223	72	\$ 5,878,922
		1947	\$ 21,397	HW_E3_68	82.00	876.00	10.68	\$ 228,578	71	\$ 16,114,779
		1948	\$ 30,179	HW_E3_68	85.00	876.00	10.31	\$ 311,020	70	\$ 21,615,889
		1949	\$ 65,747	HW_E3_68	87.00	876.00	10.07	\$ 662,006	69	\$ 45,347,403
		1950	\$ 38,185	HW_E3_68	92.00	876.00	9.52	\$ 363,591	68	\$ 24,542,389
		1951	\$ 65,969	HW_E3_68	103.00	876.00	8.50	\$ 561,056	67	\$ 37,310,239
		1952	\$ 76,070	HW_E3_68	104.00	876.00	8.42	\$ 640,746	66	\$ 41,968,879
		1953	\$ 76,820	HW_E3_68	110.00	876.00	7.96	\$ 611,763	65	\$ 39,458,742

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1954	\$ 173,823	HW_E3_68	112.00	876.00	7.82	\$ 1,359,545	64	\$ 86,331,110
		1955	\$ 451,836	HW_E3_68	112.00	876.00	7.82	\$ 3,534,004	63	\$ 220,875,222
		1956	\$ 561,670	HW_E3_68	115.00	876.00	7.62	\$ 4,278,464	62	\$ 263,125,516
		1957	\$ 373,463	HW_E3_68	122.00	876.00	7.18	\$ 2,681,588	61	\$ 162,236,048
		1958	\$ 209,006	HW_E3_68	119.00	876.00	7.36	\$ 1,538,565	60	\$ 91,544,606
		1959	\$ 241,225	HW_E3_68	114.00	876.00	7.68	\$ 1,853,627	59	\$ 108,437,206
		1960	\$ 408,149	HW_E3_68	113.00	876.00	7.75	\$ 3,164,058	58	\$ 181,933,311
		1961	\$ 386,945	HW_E3_68	109.00	876.00	8.04	\$ 3,109,764	57	\$ 175,701,639
		1962	\$ 248,559	HW_E3_68	100.00	876.00	8.76	\$ 2,177,377	56	\$ 120,844,405
		1963	\$ 217,151	HW_E3_68	93.00	876.00	9.42	\$ 2,045,419	55	\$ 111,475,316
		1964	\$ 333,513	HW_E3_68	93.00	876.00	9.42	\$ 3,141,477	54	\$ 168,069,020
		1965	\$ 66,705	HW_E3_68	95.00	876.00	9.22	\$ 615,087	53	\$ 32,292,053
		1966	\$ 457,496	HW_E3_68	96.00	876.00	9.13	\$ 4,174,654	52	\$ 214,994,691
		1967	\$ 443,556	HW_E3_68	100.00	876.00	8.76	\$ 3,885,551	51	\$ 196,220,348
		1968	\$ 591,377	HW_E3_68	103.00	876.00	8.50	\$ 5,029,578	50	\$ 248,964,110
		1969	\$ 991,454	HW_E3_68	101.00	876.00	8.67	\$ 8,599,147	49	\$ 417,058,607
		1970	\$ 994,973	HW_E3_68	102.00	876.00	8.59	\$ 8,545,060	48	\$ 405,890,334
		1971	\$ 733,611	HW_E3_68	102.00	876.00	8.59	\$ 6,300,427	47	\$ 292,969,842
		1972	\$ 757,290	HW_E3_68	100.00	876.00	8.76	\$ 6,633,859	46	\$ 301,840,580
		1973	\$ 1,269,738	HW_E3_68	100.00	876.00	8.76	\$ 11,122,908	45	\$ 494,969,392
		1974	\$ 1,841,528	HW_E3_68	109.00	876.00	8.04	\$ 14,799,800	44	\$ 643,791,288
		1975	\$ 937,427	HW_E3_68	130.00	876.00	6.74	\$ 6,316,813	43	\$ 268,464,568
		1976	\$ 946,790	HW_E3_68	134.00	876.00	6.54	\$ 6,189,465	42	\$ 256,862,790
		1977	\$ 1,617,067	HW_E3_68	145.00	876.00	6.04	\$ 9,769,312	41	\$ 395,657,155
		1978	\$ 2,151,762	HW_E3_68	155.00	876.00	5.65	\$ 12,160,928	40	\$ 480,356,655
		1979	\$ 1,444,287	HW_E3_68	164.00	876.00	5.34	\$ 7,714,607	39	\$ 297,012,370
		1980	\$ 1,496,839	HW_E3_68	164.00	876.00	5.34	\$ 7,995,312	38	\$ 299,824,217
		1981	\$ 2,213,817	HW_E3_68	192.00	876.00	4.56	\$ 10,100,538	37	\$ 368,669,629
		1982	\$ 1,776,293	HW_E3_68	207.00	876.00	4.23	\$ 7,517,066	36	\$ 266,855,843
		1983	\$ 1,903,117	HW_E3_68	210.00	876.00	4.17	\$ 7,938,716	35	\$ 273,885,718
		1984	\$ 4,257,959	HW_E3_68	212.00	876.00	4.13	\$ 17,594,207	34	\$ 589,405,931
		1985	\$ 4,299,630	HW_E3_68	214.00	876.00	4.09	\$ 17,600,355	33	\$ 572,011,530
		1986	\$ 4,153,710	HW_E3_68	215.00	876.00	4.07	\$ 16,923,954	32	\$ 533,104,559
		1987	\$ 4,498,731	HW_E3_68	214.00	876.00	4.09	\$ 18,415,366	31	\$ 561,668,666
		1988	\$ 4,368,280	HW_E3_68	216.25	876.00	4.05	\$ 17,695,322	30	\$ 522,012,011
		1989	\$ 5,762,938	HW_E3_68	224.50	876.00	3.90	\$ 22,487,008	29	\$ 640,879,739
		1990	\$ 3,842,667	HW_E3_68	227.75	876.00	3.85	\$ 14,780,137	28	\$ 406,453,774
		1991	\$ 4,805,481	HW_E3_68	227.50	876.00	3.85	\$ 18,503,741	27	\$ 490,349,137
		1992	\$ 4,740,294	HW_E3_68	232.00	876.00	3.78	\$ 17,898,698	26	\$ 456,416,799
		1993	\$ 5,227,800	HW_E3_68	233.25	876.00	3.76	\$ 19,633,666	25	\$ 481,024,815
		1994	\$ 5,029,194	HW_E3_68	237.75	876.00	3.68	\$ 18,530,279	24	\$ 435,461,547
		1995	\$ 6,005,211	HW_E3_68	234.25	876.00	3.74	\$ 22,457,055	23	\$ 505,283,731
		1996	\$ 3,116,173	HW_E3_68	230.00	876.00	3.81	\$ 11,868,554	22	\$ 255,173,909
		1997	\$ 5,555,149	HW_E3_68	221.00	876.00	3.96	\$ 22,019,505	21	\$ 451,399,850
		1998	\$ 5,080,327	HW_E3_68	225.25	876.00	3.89	\$ 19,757,453	20	\$ 385,270,339
		1999	\$ 346,548	HW_E3_68	226.50	876.00	3.87	\$ 1,340,291	19	\$ 24,795,378
		2000	\$ 12,807,157	HW_E3_68	227.50	876.00	3.85	\$ 49,314,593	18	\$ 863,005,370
		2001	\$ 1,177,173	HW_E3_68	236.25	876.00	3.71	\$ 4,364,881	17	\$ 72,020,535
		2002	\$ 12,588,158	HW_E3_68	245.75	876.00	3.56	\$ 44,871,726	16	\$ 695,511,750
		2003	\$ 3,600,052	HW_E3_68	249.50	876.00	3.51	\$ 12,639,861	15	\$ 183,277,984
		2004	\$ 4,734,697	HW_E3_68	261.75	876.00	3.35	\$ 15,845,635	14	\$ 213,916,066
		2005	\$ 5,590,885	HW_E3_68	290.25	876.00	3.02	\$ 16,873,784	13	\$ 210,922,294
		2006	\$ 4,784,264	HW_E3_68	362.50	876.00	2.42	\$ 11,561,421	12	\$ 132,956,337
		2007	\$ 7,972,643	HW_E3_68	460.30	876.00	1.90	\$ 15,172,787	11	\$ 159,314,265
		2008	\$ 10,487,665	HW_E3_68	536.50	876.00	1.63	\$ 17,124,315	10	\$ 162,680,990
		2009	\$ 5,251,077	HW_E3_68	555.75	876.00	1.58	\$ 8,277,001	9	\$ 70,354,511
		2010	\$ 4,614,113	HW_E3_68	603.25	876.00	1.45	\$ 6,700,311	8	\$ 50,252,333

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		2011	\$ 5,854,263	HW_E3_68	638.50	876.00	1.37	\$ 8,031,848	7	\$ 52,207,011
		2012	\$ 9,436,916	HW_E3_68	679.50	876.00	1.29	\$ 12,165,914	6	\$ 66,912,528
		2013	\$ 6,973,185	HW_E3_68	736.50	876.00	1.19	\$ 8,293,972	5	\$ 37,322,873
		2014	\$ 9,121,433	HW_E3_68	790.75	876.00	1.11	\$ 10,104,806	4	\$ 35,366,821
		2015	\$ 6,468,088	HW_E3_68	826.25	876.00	1.06	\$ 6,857,543	3	\$ 17,143,858
		2016	\$ 13,235,765	HW_E3_68	851.00	876.00	1.03	\$ 13,624,595	2	\$ 20,436,892
		2017	\$ 5,894,246	HW_E3_68	876.00	876.00	1.00	\$ 5,894,246	0	\$ 1,473,562
368.0 Total		Total	\$ 228,315,455		0.00	0.00		\$ 723,159,509	26	\$ 18,448,637,827
369	Services	1912	\$ 249	HW_E3_69O	12.00	558.00	46.50	\$ 11,556	106	\$ 1,219,128
		1935	\$ 19,977	HW_E3_69O	16.00	558.00	34.88	\$ 696,700	83	\$ 57,477,719
		1936	\$ 258	HW_E3_69O	16.00	558.00	34.88	\$ 9,009	82	\$ 734,255
		1937	\$ 901	HW_E3_69O	18.00	558.00	31.00	\$ 27,937	81	\$ 2,248,945
		1938	\$ 70	HW_E3_69O	17.00	558.00	32.82	\$ 2,304	80	\$ 183,133
		1939	\$ 311	HW_E3_69O	17.00	558.00	32.82	\$ 10,203	79	\$ 800,951
		1940	\$ 541	HW_E3_69O	17.00	558.00	32.82	\$ 17,749	78	\$ 1,375,573
		1941	\$ 437	HW_E3_69O	17.00	558.00	32.82	\$ 14,341	77	\$ 1,097,081
		1942	\$ 186	HW_E3_69O	18.00	558.00	31.00	\$ 5,764	76	\$ 435,193
		1943	\$ 279	HW_E3_69O	19.00	558.00	29.37	\$ 8,196	75	\$ 610,634
		1944	\$ 400	HW_E3_69O	19.00	558.00	29.37	\$ 11,734	74	\$ 862,482
		1945	\$ 331	HW_E3_69O	19.00	558.00	29.37	\$ 9,731	73	\$ 705,493
		1946	\$ 578	HW_E3_69O	22.00	558.00	25.36	\$ 14,649	72	\$ 1,047,387
		1947	\$ 1,447	HW_E3_69O	26.00	558.00	21.46	\$ 31,062	71	\$ 2,189,881
		1948	\$ 5,242	HW_E3_69O	28.00	558.00	19.93	\$ 104,469	70	\$ 7,260,607
		1949	\$ 915	HW_E3_69O	28.00	558.00	19.93	\$ 18,235	69	\$ 1,249,114
		1950	\$ 1,418	HW_E3_69O	30.00	558.00	18.60	\$ 26,377	68	\$ 1,780,450
		1951	\$ 3,968	HW_E3_69O	35.00	558.00	15.94	\$ 63,265	67	\$ 4,207,139
		1952	\$ 4,134	HW_E3_69O	37.00	558.00	15.08	\$ 62,346	66	\$ 4,083,659
		1953	\$ 6,425	HW_E3_69O	39.00	558.00	14.31	\$ 91,928	65	\$ 5,929,370
		1954	\$ 6,469	HW_E3_69O	40.00	558.00	13.95	\$ 90,249	64	\$ 5,730,818
		1955	\$ 11,580	HW_E3_69O	43.00	558.00	12.98	\$ 150,274	63	\$ 9,392,113
		1956	\$ 13,260	HW_E3_69O	46.00	558.00	12.13	\$ 160,845	62	\$ 9,891,987
		1957	\$ 8,691	HW_E3_69O	44.00	558.00	12.68	\$ 110,216	61	\$ 6,668,085
		1958	\$ 23,044	HW_E3_69O	44.00	558.00	12.68	\$ 292,239	60	\$ 17,388,216
		1959	\$ 229,043	HW_E3_69O	46.00	558.00	12.13	\$ 2,778,391	59	\$ 162,535,862
		1960	\$ 238,557	HW_E3_69O	48.00	558.00	11.63	\$ 2,773,227	58	\$ 159,460,525
		1961	\$ 254,678	HW_E3_69O	49.00	558.00	11.39	\$ 2,900,213	57	\$ 163,862,007
		1962	\$ 281,584	HW_E3_69O	50.00	558.00	11.16	\$ 3,142,474	56	\$ 174,407,306
		1963	\$ 212,100	HW_E3_69O	50.00	558.00	11.16	\$ 2,367,036	55	\$ 129,003,456
		1964	\$ 194,292	HW_E3_69O	52.00	558.00	10.73	\$ 2,084,899	54	\$ 111,542,100
		1965	\$ 174,691	HW_E3_69O	55.00	558.00	10.15	\$ 1,772,321	53	\$ 93,046,832
		1966	\$ 159,401	HW_E3_69O	57.00	558.00	9.79	\$ 1,560,455	52	\$ 80,363,449
		1967	\$ 177,299	HW_E3_69O	61.00	558.00	9.15	\$ 1,621,853	51	\$ 81,903,562
		1968	\$ 217,694	HW_E3_69O	65.00	558.00	8.58	\$ 1,868,816	50	\$ 92,506,396
		1969	\$ 350,347	HW_E3_69O	75.00	558.00	7.44	\$ 2,606,580	49	\$ 126,419,125
		1970	\$ 292,225	HW_E3_69O	87.00	558.00	6.41	\$ 1,874,273	48	\$ 89,027,970
		1971	\$ 309,829	HW_E3_69O	94.00	558.00	5.94	\$ 1,839,198	47	\$ 85,522,700
		1972	\$ 341,457	HW_E3_69O	97.00	558.00	5.75	\$ 1,964,256	46	\$ 89,373,635
		1973	\$ 309,007	HW_E3_69O	100.00	558.00	5.58	\$ 1,724,260	45	\$ 76,729,565
		1974	\$ 473,354	HW_E3_69O	108.00	558.00	5.17	\$ 2,445,663	44	\$ 106,386,320
		1975	\$ 568,619	HW_E3_69O	119.00	558.00	4.69	\$ 2,666,299	43	\$ 113,317,689
		1976	\$ 712,456	HW_E3_69O	127.00	558.00	4.39	\$ 3,130,319	42	\$ 129,908,241
		1977	\$ 881,196	HW_E3_69O	139.00	558.00	4.01	\$ 3,537,462	41	\$ 143,267,230
		1978	\$ 943,064	HW_E3_69O	150.00	558.00	3.72	\$ 3,508,198	40	\$ 138,573,827
		1979	\$ 1,147,364	HW_E3_69O	163.00	558.00	3.42	\$ 3,927,785	39	\$ 151,219,728
		1980	\$ 1,260,555	HW_E3_69O	181.00	558.00	3.08	\$ 3,886,132	38	\$ 145,729,939
		1981	\$ 1,804,050	HW_E3_69O	195.00	558.00	2.86	\$ 5,162,357	37	\$ 188,426,036
		1982	\$ 1,274,499	HW_E3_69O	205.00	558.00	2.72	\$ 3,469,124	36	\$ 123,153,900

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1983	\$ 1,717,083	HW_E3_69O	210.00	558.00	2.66	\$ 4,562,534	35	\$ 157,407,424
		1984	\$ 1,844,141	HW_E3_69O	224.00	558.00	2.49	\$ 4,593,886	34	\$ 153,895,185
		1985	\$ 2,131,423	HW_E3_69O	223.00	558.00	2.50	\$ 5,333,335	33	\$ 173,333,396
		1986	\$ 2,177,802	HW_E3_69O	225.00	558.00	2.48	\$ 5,400,949	32	\$ 170,129,884
		1987	\$ 2,527,361	HW_E3_69O	231.00	558.00	2.42	\$ 6,105,053	31	\$ 186,204,124
		1988	\$ 2,723,575	HW_E3_69O	249.50	558.00	2.24	\$ 6,091,202	30	\$ 179,690,468
		1989	\$ 2,813,328	HW_E3_69O	263.50	558.00	2.12	\$ 5,957,635	29	\$ 169,792,601
		1990	\$ 2,589,943	HW_E3_69O	264.50	558.00	2.11	\$ 5,463,850	28	\$ 150,255,863
		1991	\$ 2,024,325	HW_E3_69O	266.50	558.00	2.09	\$ 4,238,549	27	\$ 112,321,550
		1992	\$ 1,531,370	HW_E3_69O	266.25	558.00	2.10	\$ 3,209,407	26	\$ 81,839,878
		1993	\$ 2,104,189	HW_E3_69O	272.50	558.00	2.05	\$ 4,308,761	25	\$ 105,564,655
		1994	\$ 4,541,321	HW_E3_69O	283.50	558.00	1.97	\$ 8,938,474	24	\$ 210,054,134
		1995	\$ 3,338,072	HW_E3_69O	298.50	558.00	1.87	\$ 6,240,013	23	\$ 140,400,296
		1996	\$ 3,697,716	HW_E3_69O	302.25	558.00	1.85	\$ 6,826,553	22	\$ 146,770,898
		1997	\$ 4,489,287	HW_E3_69O	306.25	558.00	1.82	\$ 8,179,663	21	\$ 167,683,098
		1998	\$ 2,844,573	HW_E3_69O	312.25	558.00	1.79	\$ 5,083,336	20	\$ 99,125,048
		1999	\$ 4,713,881	HW_E3_69O	315.00	558.00	1.77	\$ 8,350,304	19	\$ 154,480,623
		2000	\$ 4,382,110	HW_E3_69O	325.00	558.00	1.72	\$ 7,523,747	18	\$ 131,665,564
		2001	\$ 4,580,226	HW_E3_69O	337.50	558.00	1.65	\$ 7,572,641	17	\$ 124,948,574
		2002	\$ 4,855,772	HW_E3_69O	351.00	558.00	1.59	\$ 7,719,432	16	\$ 119,651,190
		2003	\$ 1,826,691	HW_E3_69O	364.25	558.00	1.53	\$ 2,798,336	15	\$ 40,575,867
		2004	\$ 2,618,511	HW_E3_69O	380.50	558.00	1.47	\$ 3,840,024	14	\$ 51,840,323
		2005	\$ 6,971,154	HW_E3_69O	406.75	558.00	1.37	\$ 9,563,377	13	\$ 119,542,215
		2006	\$ 4,923,505	HW_E3_69O	433.75	558.00	1.29	\$ 6,333,869	12	\$ 72,839,493
		2007	\$ 5,188,728	HW_E3_69O	457.27	558.00	1.22	\$ 6,331,728	11	\$ 66,483,144
		2008	\$ 4,553,307	HW_E3_69O	484.00	558.00	1.15	\$ 5,249,474	10	\$ 49,870,004
		2009	\$ 1,578,201	HW_E3_69O	470.50	558.00	1.19	\$ 1,871,703	9	\$ 15,909,474
		2010	\$ 5,848,509	HW_E3_69O	488.75	558.00	1.14	\$ 6,677,172	8	\$ 50,078,794
		2011	\$ 2,410,766	HW_E3_69O	518.75	558.00	1.08	\$ 2,593,171	7	\$ 16,855,611
		2012	\$ 1,874,439	HW_E3_69O	511.50	558.00	1.09	\$ 2,044,843	6	\$ 11,246,635
		2013	\$ 988,267	HW_E3_69O	519.50	558.00	1.07	\$ 1,061,507	5	\$ 4,776,781
		2014	\$ 7,453,129	HW_E3_69O	539.50	558.00	1.03	\$ 7,708,705	4	\$ 26,980,466
		2015	\$ 4,215,843	HW_E3_69O	553.25	558.00	1.01	\$ 4,252,038	3	\$ 10,630,096
		2016	\$ 5,383,837	HW_E3_69O	545.50	558.00	1.02	\$ 5,507,206	2	\$ 8,260,809
		2017	\$ 1,774,823	HW_E3_69O	558.00	558.00	1.00	\$ 1,774,823	0	\$ 443,706
		Total	\$ 132,155,678		0.00	0.00		\$ 255,960,268	26	\$ 6,581,804,684
369.0 Total		1931	\$ 74	HW_E3_70	43.00	349.00	8.12	\$ 600	87	\$ 51,938
370 Meters		1937	\$ 11	HW_E3_70	48.00	349.00	7.27	\$ 78	81	\$ 6,292
		1940	\$ 4	HW_E3_70	48.00	349.00	7.27	\$ 32	78	\$ 2,508
		1941	\$ 9	HW_E3_70	49.00	349.00	7.12	\$ 66	77	\$ 5,040
		1943	\$ 145	HW_E3_70	49.00	349.00	7.12	\$ 1,030	75	\$ 76,707
		1944	\$ 134	HW_E3_70	49.00	349.00	7.12	\$ 954	74	\$ 70,118
		1945	\$ 239	HW_E3_70	49.00	349.00	7.12	\$ 1,704	73	\$ 123,523
		1946	\$ 9	HW_E3_70	55.00	349.00	6.35	\$ 54	72	\$ 3,856
		1947	\$ 134	HW_E3_70	62.00	349.00	5.63	\$ 755	71	\$ 53,205
		1948	\$ 134	HW_E3_70	65.00	349.00	5.37	\$ 721	70	\$ 50,082
		1949	\$ 94	HW_E3_70	71.00	349.00	4.92	\$ 461	69	\$ 31,557
		1950	\$ 36	HW_E3_70	71.00	349.00	4.92	\$ 179	68	\$ 12,087
		1951	\$ 119	HW_E3_70	71.00	349.00	4.92	\$ 585	67	\$ 38,935
		1952	\$ 233	HW_E3_70	70.00	349.00	4.99	\$ 1,162	66	\$ 76,119
		1953	\$ 1,019,127	HW_E3_70	73.00	349.00	4.78	\$ 4,872,262	65	\$ 314,260,931
		1954	\$ 155	HW_E3_70	75.00	349.00	4.65	\$ 723	64	\$ 45,907
		1955	\$ 188	HW_E3_70	72.00	349.00	4.85	\$ 913	63	\$ 57,067
		1956	\$ 94	HW_E3_70	75.00	349.00	4.65	\$ 438	62	\$ 26,961
		1957	\$ 426	HW_E3_70	79.00	349.00	4.42	\$ 1,882	61	\$ 113,890
		1958	\$ 1,447	HW_E3_70	81.00	349.00	4.31	\$ 6,235	60	\$ 370,972
		1959	\$ 459	HW_E3_70	83.00	349.00	4.20	\$ 1,929	59	\$ 112,825

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1960	\$ 4,803	HW_E3_70	84.00	349.00	4.15	\$ 19,957	58	\$ 1,147,522
		1961	\$ 21,779	HW_E3_70	83.00	349.00	4.20	\$ 91,578	57	\$ 5,174,137
		1962	\$ 21,726	HW_E3_70	83.00	349.00	4.20	\$ 91,354	56	\$ 5,070,137
		1963	\$ 27,195	HW_E3_70	83.00	349.00	4.20	\$ 114,349	55	\$ 6,232,030
		1964	\$ 28,488	HW_E3_70	83.00	349.00	4.20	\$ 119,788	54	\$ 6,408,659
		1965	\$ 25,556	HW_E3_70	83.00	349.00	4.20	\$ 107,456	53	\$ 5,641,454
		1966	\$ 60,583	HW_E3_70	83.00	349.00	4.20	\$ 254,742	52	\$ 13,119,213
		1967	\$ 49,399	HW_E3_70	84.00	349.00	4.15	\$ 205,243	51	\$ 10,364,752
		1968	\$ 10,777	HW_E3_70	87.00	349.00	4.01	\$ 43,232	50	\$ 2,140,004
		1969	\$ 66,767	HW_E3_70	91.00	349.00	3.84	\$ 256,061	49	\$ 12,418,954
		1970	\$ 99,957	HW_E3_70	95.00	349.00	3.67	\$ 367,211	48	\$ 17,442,535
		1971	\$ 147,418	HW_E3_70	100.00	349.00	3.49	\$ 514,490	47	\$ 23,923,808
		1972	\$ 165,777	HW_E3_70	101.00	349.00	3.46	\$ 572,832	46	\$ 26,063,875
		1973	\$ 197,160	HW_E3_70	100.00	349.00	3.49	\$ 688,090	45	\$ 30,620,001
		1974	\$ 282,408	HW_E3_70	108.00	349.00	3.23	\$ 912,597	44	\$ 39,697,986
		1975	\$ 167,244	HW_E3_70	124.00	349.00	2.81	\$ 470,712	43	\$ 20,005,264
		1976	\$ 135,008	HW_E3_70	133.00	349.00	2.62	\$ 354,269	42	\$ 14,702,153
		1977	\$ 206,980	HW_E3_70	140.00	349.00	2.49	\$ 515,971	41	\$ 20,896,816
		1978	\$ 195,882	HW_E3_70	144.00	349.00	2.42	\$ 474,743	40	\$ 18,752,347
		1979	\$ 284,910	HW_E3_70	148.00	349.00	2.36	\$ 671,849	39	\$ 25,866,201
		1980	\$ 477,436	HW_E3_70	146.00	349.00	2.39	\$ 1,141,269	38	\$ 42,797,594
		1981	\$ 777,419	HW_E3_70	163.00	349.00	2.14	\$ 1,664,535	37	\$ 60,755,516
		1982	\$ 832,155	HW_E3_70	190.00	349.00	1.84	\$ 1,528,537	36	\$ 54,263,055
		1983	\$ 569,161	HW_E3_70	203.00	349.00	1.72	\$ 978,508	35	\$ 33,758,533
		1984	\$ 1,156,056	HW_E3_70	204.00	349.00	1.71	\$ 1,977,762	34	\$ 66,255,019
		1985	\$ 1,332,183	HW_E3_70	206.00	349.00	1.69	\$ 2,256,950	33	\$ 73,350,888
		1986	\$ 1,088,902	HW_E3_70	211.00	349.00	1.65	\$ 1,801,075	32	\$ 56,733,847
		1987	\$ 1,838,414	HW_E3_70	211.00	349.00	1.65	\$ 3,040,788	31	\$ 92,744,044
		1988	\$ 1,413,989	HW_E3_70	197.50	349.00	1.77	\$ 2,498,643	30	\$ 73,709,971
		1989	\$ 1,350,046	HW_E3_70	188.00	349.00	1.86	\$ 2,506,203	29	\$ 71,426,780
		1990	\$ 1,649,675	HW_E3_70	188.50	349.00	1.85	\$ 3,054,305	28	\$ 83,993,380
		1991	\$ 1,498,085	HW_E3_70	202.75	349.00	1.72	\$ 2,578,701	27	\$ 68,335,584
		1992	\$ 1,589,261	HW_E3_70	202.25	349.00	1.73	\$ 2,742,409	26	\$ 69,931,420
		1993	\$ 880,061	HW_E3_70	205.00	349.00	1.70	\$ 1,498,250	25	\$ 36,707,119
		1994	\$ 697,662	HW_E3_70	194.75	349.00	1.79	\$ 1,250,238	24	\$ 29,380,597
		1995	\$ 2,672,608	HW_E3_70	192.00	349.00	1.82	\$ 4,858,021	23	\$ 109,305,472
		1996	\$ 849,404	HW_E3_70	196.25	349.00	1.78	\$ 1,510,532	22	\$ 32,476,429
		1997	\$ 1,362,136	HW_E3_70	210.50	349.00	1.66	\$ 2,258,363	21	\$ 46,296,444
		1998	\$ 1,773,816	HW_E3_70	216.75	349.00	1.61	\$ 2,856,110	20	\$ 55,694,138
		1999	\$ 3,159,203	HW_E3_70	209.25	349.00	1.67	\$ 5,269,112	19	\$ 97,478,579
		2000	\$ 2,745,605	HW_E3_70	206.75	349.00	1.69	\$ 4,634,661	18	\$ 81,106,568
		2001	\$ 1,438,999	HW_E3_70	235.50	349.00	1.48	\$ 2,132,530	17	\$ 35,186,739
		2002	\$ 2,114,655	HW_E3_70	269.50	349.00	1.29	\$ 2,738,458	16	\$ 42,446,103
		2003	\$ 160,916	HW_E3_70	291.25	349.00	1.20	\$ 192,822	15	\$ 2,795,926
		2004	\$ 3,178,992	HW_E3_70	315.75	349.00	1.11	\$ 3,513,755	14	\$ 47,435,691
		2005	\$ 1,641,320	HW_E3_70	307.00	349.00	1.14	\$ 1,865,865	13	\$ 23,323,315
		2006	\$ 540,834	HW_E3_70	315.25	349.00	1.11	\$ 598,735	12	\$ 6,885,448
		2007	\$ 1,066,212	HW_E3_70	325.15	349.00	1.07	\$ 1,144,436	11	\$ 12,016,579
		2008	\$ 1,120,951	HW_E3_70	332.00	349.00	1.05	\$ 1,178,349	10	\$ 11,194,320
		2009	\$ 901,540	HW_E3_70	337.00	349.00	1.04	\$ 933,643	9	\$ 7,935,961
		2010	\$ 310,678	HW_E3_70	345.00	349.00	1.01	\$ 314,280	8	\$ 2,357,099
		2011	\$ 2,448,976	HW_E3_70	337.50	349.00	1.03	\$ 2,532,422	7	\$ 16,460,744
		2012	\$ 1,022,275	HW_E3_70	337.25	349.00	1.03	\$ 1,057,892	6	\$ 5,818,406
		2013	\$ 1,695,681	HW_E3_70	344.00	349.00	1.01	\$ 1,720,328	5	\$ 7,741,476
		2014	\$ 1,697,373	HW_E3_70	351.00	349.00	0.99	\$ 1,687,701	4	\$ 5,906,953
		2015	\$ 484,329	HW_E3_70	354.25	349.00	0.99	\$ 477,151	3	\$ 1,192,878
		2016	\$ 1,503,556	HW_E3_70	347.75	349.00	1.00	\$ 1,508,960	2	\$ 2,263,440

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		2017	\$ 109,467	HW_E3_70	349.00	349.00	1.00	\$ 109,467	0	\$ 27,367
370.0 Total		Total	\$ 54,373,117		0.00	0.00		\$ 87,351,054	25	\$ 2,188,767,786
370.1	Meters	2012	\$ 223,686	HW_E3_70	337.25	349.00	1.03	\$ 231,479	6	\$ 1,273,136
		2013	\$ 712,309	HW_E3_70	344.00	349.00	1.01	\$ 722,662	5	\$ 3,251,979
		2014	\$ 4,579,687	HW_E3_70	351.00	349.00	0.99	\$ 4,553,592	4	\$ 15,937,571
		2015	\$ 2,814,555	HW_E3_70	354.25	349.00	0.99	\$ 2,772,843	3	\$ 6,932,107
		2016	\$ 15,191,216	HW_E3_70	347.75	349.00	1.00	\$ 15,245,821	2	\$ 22,868,732
		2017	\$ 1,043,233	HW_E3_70	349.00	349.00	1.00	\$ 1,043,233	0	\$ 260,808
370.1 Total		Total	\$ 24,564,685		0.00	0.00		\$ 24,569,630	2	\$ 50,524,334
371	Installations on Customer Premises	1964	\$ 1	HW_E3_70	83.00	349.00	4.20	\$ 5	54	\$ 265
		1968	\$ 9	HW_E3_70	87.00	349.00	4.01	\$ 38	50	\$ 1,884
		1971	\$ 49,440	HW_E3_70	100.00	349.00	3.49	\$ 172,547	47	\$ 8,023,445
		1973	\$ 148	HW_E3_70	100.00	349.00	3.49	\$ 517	45	\$ 22,998
		1974	\$ 403	HW_E3_70	108.00	349.00	3.23	\$ 1,304	44	\$ 56,707
		1975	\$ 509	HW_E3_70	124.00	349.00	2.81	\$ 1,434	43	\$ 60,939
		1976	\$ 20,634	HW_E3_70	133.00	349.00	2.62	\$ 54,145	42	\$ 2,247,001
		1977	\$ 58,553	HW_E3_70	140.00	349.00	2.49	\$ 145,963	41	\$ 5,911,511
		1978	\$ 192,665	HW_E3_70	144.00	349.00	2.42	\$ 466,946	40	\$ 18,444,374
		1979	\$ 422,590	HW_E3_70	148.00	349.00	2.36	\$ 996,513	39	\$ 38,365,761
		1980	\$ 676,151	HW_E3_70	146.00	349.00	2.39	\$ 1,616,279	38	\$ 60,610,467
		1981	\$ 815,031	HW_E3_70	163.00	349.00	2.14	\$ 1,745,066	37	\$ 63,694,902
		1982	\$ 825,291	HW_E3_70	190.00	349.00	1.84	\$ 1,515,929	36	\$ 53,815,495
		1983	\$ 851,210	HW_E3_70	203.00	349.00	1.72	\$ 1,463,411	35	\$ 50,487,675
		1984	\$ 791,393	HW_E3_70	204.00	349.00	1.71	\$ 1,353,902	34	\$ 45,355,719
		1985	\$ 875,214	HW_E3_70	206.00	349.00	1.69	\$ 1,482,766	33	\$ 48,189,902
		1986	\$ 721,673	HW_E3_70	211.00	349.00	1.65	\$ 1,193,668	32	\$ 37,600,553
		1987	\$ 917,921	HW_E3_70	211.00	349.00	1.65	\$ 1,518,268	31	\$ 46,307,165
		1988	\$ 646,138	HW_E3_70	197.50	349.00	1.77	\$ 1,141,783	30	\$ 33,682,598
		1989	\$ 664,681	HW_E3_70	188.00	349.00	1.86	\$ 1,233,903	29	\$ 35,166,234
		1990	\$ 538,618	HW_E3_70	188.50	349.00	1.85	\$ 997,230	28	\$ 27,423,821
		1991	\$ 519,405	HW_E3_70	202.75	349.00	1.72	\$ 894,069	27	\$ 23,692,822
		1992	\$ 552,793	HW_E3_70	202.25	349.00	1.73	\$ 953,892	26	\$ 24,324,259
		1993	\$ 714,330	HW_E3_70	205.00	349.00	1.70	\$ 1,216,103	25	\$ 29,794,527
		1994	\$ 1,255,247	HW_E3_70	194.75	349.00	1.79	\$ 2,249,455	24	\$ 52,862,187
		1995	\$ 1,192,944	HW_E3_70	192.00	349.00	1.82	\$ 2,168,424	23	\$ 48,789,536
		1996	\$ 1,429,049	HW_E3_70	196.25	349.00	1.78	\$ 2,541,341	22	\$ 54,638,838
		1997	\$ 2,541,099	HW_E3_70	210.50	349.00	1.66	\$ 4,213,034	21	\$ 86,367,187
		1998	\$ 1,999,363	HW_E3_70	216.75	349.00	1.61	\$ 3,219,274	20	\$ 62,775,837
		1999	\$ 967,564	HW_E3_70	209.25	349.00	1.67	\$ 1,613,763	19	\$ 29,854,618
		2000	\$ 3,406,359	HW_E3_70	206.75	349.00	1.69	\$ 5,750,034	18	\$ 100,625,587
		2001	\$ 1,138,139	HW_E3_70	235.50	349.00	1.48	\$ 1,686,668	17	\$ 27,830,024
		2002	\$ 1,144,941	HW_E3_70	269.50	349.00	1.29	\$ 1,482,687	16	\$ 22,981,655
		2003	\$ 3,366,233	HW_E3_70	291.25	349.00	1.20	\$ 4,033,701	15	\$ 58,488,662
		2004	\$ 755,995	HW_E3_70	315.75	349.00	1.11	\$ 835,605	14	\$ 11,280,669
		2005	\$ 734,285	HW_E3_70	307.00	349.00	1.14	\$ 834,741	13	\$ 10,434,266
		2006	\$ 833,693	HW_E3_70	315.25	349.00	1.11	\$ 922,947	12	\$ 10,613,886
		2007	\$ 968,450	HW_E3_70	325.15	349.00	1.07	\$ 1,039,502	11	\$ 10,914,769
		2008	\$ 744,855	HW_E3_70	332.00	349.00	1.05	\$ 782,995	10	\$ 7,438,450
		2009	\$ 613,418	HW_E3_70	337.00	349.00	1.04	\$ 635,261	9	\$ 5,399,720
		2010	\$ 625,362	HW_E3_70	345.00	349.00	1.01	\$ 632,613	8	\$ 4,744,596
		2011	\$ 650,196	HW_E3_70	337.50	349.00	1.03	\$ 672,351	7	\$ 4,370,279
		2012	\$ 705,631	HW_E3_70	337.25	349.00	1.03	\$ 730,215	6	\$ 4,016,185
		2013	\$ 423,887	HW_E3_70	344.00	349.00	1.01	\$ 430,049	5	\$ 1,935,219
		2014	\$ 1,502,805	HW_E3_70	351.00	349.00	0.99	\$ 1,494,242	4	\$ 5,229,846
		2015	\$ 898,893	HW_E3_70	354.25	349.00	0.99	\$ 885,572	3	\$ 2,213,929
		2016	\$ 961,597	HW_E3_70	347.75	349.00	1.00	\$ 965,054	2	\$ 1,447,581
		2017	\$ 154,302	HW_E3_70	349.00	349.00	1.00	\$ 154,302	0	\$ 38,576

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
371.0 Total		Total	\$ 39,869,114		0.00	0.00		\$ 60,139,510	21	\$ 1,278,573,123
373	Street Lighting/Signal Systems	1935	\$ 39,260	HW_E3_73O	23.00	754.00	32.78	\$ 1,287,046	83	\$ 106,181,285
		1936	\$ 19	HW_E3_73O	24.00	754.00	31.42	\$ 593	82	\$ 48,316
		1937	\$ 28	HW_E3_73O	25.00	754.00	30.16	\$ 837	81	\$ 67,349
		1938	\$ 3	HW_E3_73O	24.00	754.00	31.42	\$ 96	80	\$ 7,643
		1939	\$ 149	HW_E3_73O	24.00	754.00	31.42	\$ 4,692	79	\$ 368,353
		1940	\$ 150	HW_E3_73O	24.00	754.00	31.42	\$ 4,719	78	\$ 365,706
		1941	\$ 39	HW_E3_73O	26.00	754.00	29.00	\$ 1,145	77	\$ 87,564
		1942	\$ 5,070	HW_E3_73O	26.00	754.00	29.00	\$ 147,044	76	\$ 11,101,838
		1943	\$ 894	HW_E3_73O	26.00	754.00	29.00	\$ 25,927	75	\$ 1,931,573
		1944	\$ 3,230	HW_E3_73O	26.00	754.00	29.00	\$ 93,657	74	\$ 6,883,786
		1945	\$ 715	HW_E3_73O	26.00	754.00	29.00	\$ 20,721	73	\$ 1,502,257
		1946	\$ 1,949	HW_E3_73O	29.00	754.00	26.00	\$ 50,670	72	\$ 3,622,894
		1947	\$ 1,673	HW_E3_73O	36.00	754.00	20.94	\$ 35,047	71	\$ 2,470,826
		1948	\$ 5,269	HW_E3_73O	39.00	754.00	19.33	\$ 101,874	70	\$ 7,080,210
		1949	\$ 8,488	HW_E3_73O	42.00	754.00	17.95	\$ 152,388	69	\$ 10,438,558
		1950	\$ 15,002	HW_E3_73O	44.00	754.00	17.14	\$ 257,082	68	\$ 17,353,032
		1951	\$ 19,492	HW_E3_73O	49.00	754.00	15.39	\$ 299,945	67	\$ 19,946,366
		1952	\$ 31,795	HW_E3_73O	50.00	754.00	15.08	\$ 479,465	66	\$ 31,404,986
		1953	\$ 21,493	HW_E3_73O	51.00	754.00	14.78	\$ 317,763	65	\$ 20,495,729
		1954	\$ 20,306	HW_E3_73O	54.00	754.00	13.96	\$ 283,531	64	\$ 18,004,206
		1955	\$ 32,239	HW_E3_73O	55.00	754.00	13.71	\$ 441,969	63	\$ 27,623,064
		1956	\$ 31,522	HW_E3_73O	58.00	754.00	13.00	\$ 409,791	62	\$ 25,202,143
		1957	\$ 71,921	HW_E3_73O	62.00	754.00	12.16	\$ 874,652	61	\$ 52,916,419
		1958	\$ 69,516	HW_E3_73O	66.00	754.00	11.42	\$ 794,169	60	\$ 47,253,076
		1959	\$ 45,435	HW_E3_73O	65.00	754.00	11.60	\$ 527,047	59	\$ 30,832,232
		1960	\$ 173,021	HW_E3_73O	65.00	754.00	11.60	\$ 2,007,038	58	\$ 115,404,674
		1961	\$ 101,923	HW_E3_73O	65.00	754.00	11.60	\$ 1,182,309	57	\$ 66,800,465
		1962	\$ 265,584	HW_E3_73O	65.00	754.00	11.60	\$ 3,080,776	56	\$ 170,983,069
		1963	\$ 195,765	HW_E3_73O	66.00	754.00	11.42	\$ 2,236,463	55	\$ 121,887,255
		1964	\$ 100,039	HW_E3_73O	67.00	754.00	11.25	\$ 1,125,815	54	\$ 60,231,076
		1965	\$ 127,467	HW_E3_73O	67.00	754.00	11.25	\$ 1,434,480	53	\$ 75,310,197
		1966	\$ 139,698	HW_E3_73O	69.00	754.00	10.93	\$ 1,526,559	52	\$ 78,617,805
		1967	\$ 190,603	HW_E3_73O	73.00	754.00	10.33	\$ 1,968,689	51	\$ 99,418,807
		1968	\$ 402,538	HW_E3_73O	75.00	754.00	10.05	\$ 4,046,846	50	\$ 200,318,866
		1969	\$ 238,084	HW_E3_73O	82.00	754.00	9.20	\$ 2,189,213	49	\$ 106,176,821
		1970	\$ 162,337	HW_E3_73O	90.00	754.00	8.38	\$ 1,360,023	48	\$ 64,601,095
		1971	\$ 148,155	HW_E3_73O	94.00	754.00	8.02	\$ 1,188,389	47	\$ 55,260,097
		1972	\$ 275,002	HW_E3_73O	98.00	754.00	7.69	\$ 2,115,834	46	\$ 96,270,445
		1973	\$ 501,096	HW_E3_73O	100.00	754.00	7.54	\$ 3,778,267	45	\$ 168,132,889
		1974	\$ 344,719	HW_E3_73O	122.00	754.00	6.18	\$ 2,130,475	44	\$ 92,675,669
		1975	\$ 848,500	HW_E3_73O	148.00	754.00	5.09	\$ 4,322,762	43	\$ 183,717,402
		1976	\$ 797,187	HW_E3_73O	156.00	754.00	4.83	\$ 3,853,069	42	\$ 159,902,380
		1977	\$ 805,562	HW_E3_73O	169.00	754.00	4.46	\$ 3,594,044	41	\$ 145,558,795
		1978	\$ 630,640	HW_E3_73O	185.00	754.00	4.08	\$ 2,570,285	40	\$ 101,526,259
		1979	\$ 924,638	HW_E3_73O	205.00	754.00	3.68	\$ 3,400,863	39	\$ 130,933,210
		1980	\$ 909,820	HW_E3_73O	224.00	754.00	3.37	\$ 3,062,520	38	\$ 114,844,485
		1981	\$ 650,817	HW_E3_73O	245.00	754.00	3.08	\$ 2,002,922	37	\$ 73,106,645
		1982	\$ 863,737	HW_E3_73O	261.00	754.00	2.89	\$ 2,495,239	36	\$ 88,580,981
		1983	\$ 1,250,271	HW_E3_73O	262.00	754.00	2.88	\$ 3,598,107	35	\$ 124,134,693
		1984	\$ 1,302,345	HW_E3_73O	273.00	754.00	2.76	\$ 3,596,954	34	\$ 120,497,957
		1985	\$ 1,113,337	HW_E3_73O	283.00	754.00	2.66	\$ 2,966,277	33	\$ 96,403,991
		1986	\$ 548,244	HW_E3_73O	283.00	754.00	2.66	\$ 1,460,692	32	\$ 46,011,802
		1987	\$ 720,164	HW_E3_73O	271.00	754.00	2.78	\$ 2,003,704	31	\$ 61,112,986
		1988	\$ 852,173	HW_E3_73O	274.25	754.00	2.75	\$ 2,342,893	30	\$ 69,115,337
		1989	\$ 1,462,418	HW_E3_73O	283.50	754.00	2.66	\$ 3,889,464	29	\$ 110,849,719
		1990	\$ 1,317,743	HW_E3_73O	291.75	754.00	2.58	\$ 3,405,580	28	\$ 93,653,456

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1991	\$ 1,523,994	HW_E3_73O	301.75	754.00	2.50	\$ 3,808,090	27	\$ 100,914,387
		1992	\$ 1,393,047	HW_E3_73O	312.75	754.00	2.41	\$ 3,358,457	26	\$ 85,640,648
		1993	\$ 1,789,293	HW_E3_73O	325.50	754.00	2.32	\$ 4,144,782	25	\$ 101,547,164
		1994	\$ 2,439,113	HW_E3_73O	341.75	754.00	2.21	\$ 5,381,393	24	\$ 126,462,727
		1995	\$ 2,011,402	HW_E3_73O	357.50	754.00	2.11	\$ 4,242,229	23	\$ 95,450,144
		1996	\$ 2,984,673	HW_E3_73O	376.75	754.00	2.00	\$ 5,973,307	22	\$ 128,426,101
		1997	\$ 940,420	HW_E3_73O	386.50	754.00	1.95	\$ 1,834,610	21	\$ 37,609,500
		1998	\$ 1,140,477	HW_E3_73O	388.75	754.00	1.94	\$ 2,212,012	20	\$ 43,134,241
		1999	\$ 2,717,107	HW_E3_73O	394.00	754.00	1.91	\$ 5,199,742	19	\$ 96,195,235
		2000	\$ 1,633,864	HW_E3_73O	402.00	754.00	1.88	\$ 3,064,511	18	\$ 53,628,941
		2001	\$ 2,130,991	HW_E3_73O	415.50	754.00	1.81	\$ 3,867,069	17	\$ 63,806,635
		2002	\$ 1,942,396	HW_E3_73O	443.50	754.00	1.70	\$ 3,302,293	16	\$ 51,185,542
		2003	\$ 1,258,742	HW_E3_73O	470.75	754.00	1.60	\$ 2,016,126	15	\$ 29,233,827
		2004	\$ 1,556,976	HW_E3_73O	483.25	754.00	1.56	\$ 2,429,301	14	\$ 32,795,563
		2005	\$ 1,547,472	HW_E3_73O	510.25	754.00	1.48	\$ 2,286,710	13	\$ 28,583,875
		2006	\$ 2,252,124	HW_E3_73O	582.75	754.00	1.29	\$ 2,913,945	12	\$ 33,510,364
		2007	\$ 2,307,121	HW_E3_73O	627.83	754.00	1.20	\$ 2,770,752	11	\$ 29,092,894
		2008	\$ 1,600,113	HW_E3_73O	680.75	754.00	1.11	\$ 1,772,288	10	\$ 16,836,741
		2009	\$ 1,687,197	HW_E3_73O	752.75	754.00	1.00	\$ 1,689,999	9	\$ 14,364,992
		2010	\$ 1,361,623	HW_E3_73O	735.25	754.00	1.03	\$ 1,396,347	8	\$ 10,472,601
		2011	\$ 1,630,874	HW_E3_73O	752.00	754.00	1.00	\$ 1,635,211	7	\$ 10,628,875
		2012	\$ 1,685,000	HW_E3_73O	775.75	754.00	0.97	\$ 1,637,757	6	\$ 9,007,666
		2013	\$ 621,973	HW_E3_73O	771.00	754.00	0.98	\$ 608,259	5	\$ 2,737,165
		2014	\$ 1,947,503	HW_E3_73O	743.50	754.00	1.01	\$ 1,975,006	4	\$ 6,912,521
		2015	\$ 1,155,608	HW_E3_73O	751.25	754.00	1.00	\$ 1,159,839	3	\$ 2,899,596
		2016	\$ 1,449,069	HW_E3_73O	742.50	754.00	1.02	\$ 1,471,512	2	\$ 2,207,268
		2017	\$ 557,330	HW_E3_73O	754.00	754.00	1.00	\$ 557,330	0	\$ 139,332
		Total	\$ 64,054,784		0.00	0.00		\$ 159,257,297	31	\$ 4,948,653,283
373.0 Total										
389	Land	1902	\$ 10,403	none	1	1	1.00	\$ 10,403	116	\$ 1,201,571
		1923	\$ 20,922	none	1	1	1.00	\$ 20,922	95	\$ 1,977,141
		1925	\$ 48,902	none	1	1	1.00	\$ 48,902	93	\$ 4,523,475
		1935	\$ 220	none	1	1	1.00	\$ 220	83	\$ 18,150
		1946	\$ 14,800	none	1	1	1.00	\$ 14,800	72	\$ 1,058,169
		1947	\$ 6,787	none	1	1	1.00	\$ 6,787	71	\$ 478,470
		1953	\$ 78,721	none	1	1	1.00	\$ 78,721	65	\$ 5,077,495
		1957	\$ 6,576	none	1	1	1.00	\$ 6,576	61	\$ 397,833
		1962	\$ 1,156,244	none	1	1	1.00	\$ 1,156,244	56	\$ 64,171,555
		1964	\$ 12,815	none	1	1	1.00	\$ 12,815	54	\$ 685,598
		1967	\$ 2,971	none	1	1	1.00	\$ 2,971	51	\$ 150,042
		1968	\$ 422,868	none	1	1	1.00	\$ 422,868	50	\$ 20,931,970
		1969	\$ 767	none	1	1	1.00	\$ 767	49	\$ 37,202
		1973	\$ 12,745	none	1	1	1.00	\$ 12,745	45	\$ 567,143
		1975	\$ 5,742	none	1	1	1.00	\$ 5,742	43	\$ 244,038
		1976	\$ 11,445	none	1	1	1.00	\$ 11,445	42	\$ 474,988
		1978	\$ 87,966	none	1	1	1.00	\$ 87,966	40	\$ 3,474,675
		1981	\$ 30,010	none	1	1	1.00	\$ 30,010	37	\$ 1,095,347
		1985	\$ 14,213	none	1	1	1.00	\$ 14,213	33	\$ 461,926
		1989	\$ 27,680	none	1	1	1.00	\$ 27,680	29	\$ 788,880
		1990	\$ 56,604	none	1	1	1.00	\$ 56,604	28	\$ 1,556,600
		1992	\$ 877,056	none	1	1	1.00	\$ 877,056	26	\$ 22,364,926
		1994	\$ 590,119	none	1	1	1.00	\$ 590,119	24	\$ 13,867,793
		1995	\$ 132,551	none	1	1	1.00	\$ 132,551	23	\$ 2,982,398
		1996	\$ 15,000	none	1	1	1.00	\$ 15,000	22	\$ 322,500
		2001	\$ 77,026	none	1	1	1.00	\$ 77,026	17	\$ 1,270,927
		2003	\$ 9,311	none	1	1	1.00	\$ 9,311	15	\$ 135,015
		2012	\$ 22,236	none	1	1	1.00	\$ 22,236	6	\$ 122,297
		2015	\$ 15,115	none	1	1	1.00	\$ 15,115	3	\$ 37,787

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		2016	\$ 10,015	none	1	1	1.00	\$ 10,015	2	\$ 15,022
389.0 Total		Total	\$ 3,777,830		0.00	0.00		\$ 3,777,830	40	\$ 150,490,932
390	Structures & Improvements	1912	\$ 504	HW_B3_4	8.00	540.00	67.50	\$ 34,025	106	\$ 3,589,680
		1920	\$ 778	HW_B3_4	22.00	540.00	24.55	\$ 19,100	98	\$ 1,862,254
		1925	\$ 127	HW_B3_4	17.00	540.00	31.76	\$ 4,025	93	\$ 372,333
		1926	\$ 3,725	HW_B3_4	16.00	540.00	33.75	\$ 125,706	92	\$ 11,502,123
		1927	\$ 39,157	HW_B3_4	15.00	540.00	36.00	\$ 1,409,655	91	\$ 127,573,734
		1928	\$ 181,182	HW_B3_4	15.00	540.00	36.00	\$ 6,522,560	90	\$ 583,769,081
		1929	\$ 5,516	HW_B3_4	16.00	540.00	33.75	\$ 186,152	89	\$ 16,474,438
		1930	\$ 39	HW_B3_4	14.00	540.00	38.57	\$ 1,520	88	\$ 132,975
		1931	\$ 7	HW_B3_4	13.00	540.00	41.54	\$ 296	87	\$ 25,583
		1932	\$ 436	HW_B3_4	12.00	540.00	45.00	\$ 19,620	86	\$ 1,677,510
		1935	\$ 73,607	HW_B3_4	14.00	540.00	38.57	\$ 2,839,130	83	\$ 234,228,212
		1937	\$ 933	HW_B3_4	16.00	540.00	33.75	\$ 31,493	81	\$ 2,535,198
		1938	\$ 105,442	HW_B3_4	15.00	540.00	36.00	\$ 3,795,912	80	\$ 301,775,004
		1939	\$ 372	HW_B3_4	15.00	540.00	36.00	\$ 13,404	79	\$ 1,052,233
		1940	\$ 21,063	HW_B3_4	15.00	540.00	36.00	\$ 758,264	78	\$ 58,765,463
		1941	\$ 705	HW_B3_4	18.00	540.00	30.00	\$ 21,142	77	\$ 1,617,332
		1942	\$ 523	HW_B3_4	20.00	540.00	27.00	\$ 14,119	76	\$ 1,065,952
		1943	\$ 306	HW_B3_4	20.00	540.00	27.00	\$ 8,249	75	\$ 614,574
		1944	\$ 1,915	HW_B3_4	20.00	540.00	27.00	\$ 51,704	74	\$ 3,800,258
		1945	\$ 134	HW_B3_4	20.00	540.00	27.00	\$ 3,626	73	\$ 262,912
		1946	\$ 2,007	HW_B3_4	24.00	540.00	22.50	\$ 45,167	72	\$ 3,229,453
		1947	\$ 2,441	HW_B3_4	29.00	540.00	18.62	\$ 45,444	71	\$ 3,203,827
		1948	\$ 40,914	HW_B3_4	36.00	540.00	15.00	\$ 613,708	70	\$ 42,652,678
		1949	\$ 7,764	HW_B3_4	38.00	540.00	14.21	\$ 110,337	69	\$ 7,558,069
		1950	\$ 1,370	HW_B3_4	40.00	540.00	13.50	\$ 18,496	68	\$ 1,248,504
		1951	\$ 39,128	HW_B3_4	41.00	540.00	13.17	\$ 515,343	67	\$ 34,270,297
		1952	\$ 43,219	HW_B3_4	42.00	540.00	12.86	\$ 555,672	66	\$ 36,396,538
		1953	\$ 158,347	HW_B3_4	46.00	540.00	11.74	\$ 1,858,857	65	\$ 119,896,286
		1954	\$ 11,684	HW_B3_4	46.00	540.00	11.74	\$ 137,155	64	\$ 8,709,339
		1955	\$ 1,361,522	HW_B3_4	49.00	540.00	11.02	\$ 15,004,528	63	\$ 937,783,024
		1956	\$ 109,381	HW_B3_4	58.00	540.00	9.31	\$ 1,018,376	62	\$ 62,630,109
		1957	\$ 88,597	HW_B3_4	64.00	540.00	8.44	\$ 747,538	61	\$ 45,226,071
		1958	\$ 28,714	HW_B3_4	65.00	540.00	8.31	\$ 238,545	60	\$ 14,193,423
		1959	\$ 8,289	HW_B3_4	66.00	540.00	8.18	\$ 67,818	59	\$ 3,967,359
		1960	\$ 35,051	HW_B3_4	64.00	540.00	8.44	\$ 295,743	58	\$ 17,005,197
		1961	\$ 9,764	HW_B3_4	60.00	540.00	9.00	\$ 87,876	57	\$ 4,965,019
		1962	\$ 63,474	HW_B3_4	60.00	540.00	9.00	\$ 571,262	56	\$ 31,705,058
		1963	\$ 94,298	HW_B3_4	61.00	540.00	8.85	\$ 834,767	55	\$ 45,494,780
		1964	\$ 28,173	HW_B3_4	61.00	540.00	8.85	\$ 249,400	54	\$ 13,342,903
		1965	\$ 12,620	HW_B3_4	62.00	540.00	8.71	\$ 109,918	53	\$ 5,770,720
		1966	\$ 2,651,670	HW_B3_4	63.00	540.00	8.57	\$ 22,728,597	52	\$ 1,170,522,728
		1967	\$ 22,878	HW_B3_4	64.00	540.00	8.44	\$ 193,032	51	\$ 9,748,134
		1968	\$ 2,160,028	HW_B3_4	68.00	540.00	7.94	\$ 17,153,165	50	\$ 849,081,665
		1969	\$ 345,960	HW_B3_4	72.00	540.00	7.50	\$ 2,594,701	49	\$ 125,843,015
		1970	\$ 341,598	HW_B3_4	76.00	540.00	7.11	\$ 2,427,147	48	\$ 115,289,463
		1971	\$ 59,872	HW_B3_4	83.00	540.00	6.51	\$ 389,526	47	\$ 18,112,947
		1972	\$ 532,125	HW_B3_4	89.00	540.00	6.07	\$ 3,228,624	46	\$ 146,902,393
		1973	\$ 50,650	HW_B3_4	100.00	540.00	5.40	\$ 273,512	45	\$ 12,171,303
		1974	\$ 140,260	HW_B3_4	139.75	540.00	3.86	\$ 541,971	44	\$ 23,575,739
		1975	\$ 2,270,723	HW_B3_4	161.25	540.00	3.35	\$ 7,604,281	43	\$ 323,181,947
		1976	\$ 77,159	HW_B3_4	152.00	540.00	3.55	\$ 274,117	42	\$ 11,375,860
		1977	\$ 119,919	HW_B3_4	153.25	540.00	3.52	\$ 422,554	41	\$ 17,113,440
		1978	\$ 149,380	HW_B3_4	169.25	540.00	3.19	\$ 476,604	40	\$ 18,825,866
		1979	\$ 251,573	HW_B3_4	193.50	540.00	2.79	\$ 702,066	39	\$ 27,029,524
		1980	\$ 364,765	HW_B3_4	224.50	540.00	2.41	\$ 877,385	38	\$ 32,901,929

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1981	\$ 343,614	HW_B3_4	226.25	540.00	2.39	\$ 820,118	37	\$ 29,934,299
		1982	\$ 223,428	HW_B3_4	201.50	540.00	2.68	\$ 598,765	36	\$ 21,256,173
		1983	\$ 243,560	HW_B3_4	200.25	540.00	2.70	\$ 656,792	35	\$ 22,659,330
		1984	\$ 867,918	HW_B3_4	222.25	540.00	2.43	\$ 2,108,778	34	\$ 70,644,049
		1985	\$ 906,122	HW_B3_4	236.25	540.00	2.29	\$ 2,071,137	33	\$ 67,311,937
		1986	\$ 663,011	HW_B3_4	244.00	540.00	2.21	\$ 1,467,320	32	\$ 46,220,583
		1987	\$ 1,104,414	HW_B3_4	251.25	540.00	2.15	\$ 2,373,666	31	\$ 72,396,801
		1988	\$ 1,559,783	HW_B3_4	267.75	540.00	2.02	\$ 3,145,780	30	\$ 92,800,518
		1989	\$ 1,900,349	HW_B3_4	278.75	540.00	1.94	\$ 3,681,394	29	\$ 104,919,727
		1990	\$ 2,841,923	HW_B3_4	278.00	540.00	1.94	\$ 5,520,283	28	\$ 151,807,772
		1991	\$ 1,231,890	HW_B3_4	251.25	540.00	2.15	\$ 2,647,644	27	\$ 70,162,557
		1992	\$ 3,761,031	HW_B3_4	249.00	540.00	2.17	\$ 8,156,452	26	\$ 207,989,530
		1993	\$ 1,662,570	HW_B3_4	267.00	540.00	2.02	\$ 3,362,500	25	\$ 82,381,258
		1994	\$ 797,186	HW_B3_4	293.25	540.00	1.84	\$ 1,467,964	24	\$ 34,497,159
		1995	\$ 2,363,708	HW_B3_4	305.50	540.00	1.77	\$ 4,178,076	23	\$ 94,006,713
		1996	\$ 480,194	HW_B3_4	319.00	540.00	1.69	\$ 812,867	22	\$ 17,476,642
		1997	\$ 473,616	HW_B3_4	322.00	540.00	1.68	\$ 794,264	21	\$ 16,282,402
		1998	\$ 430,148	HW_B3_4	323.50	540.00	1.67	\$ 718,021	20	\$ 14,001,411
		1999	\$ 395,145	HW_B3_4	331.75	540.00	1.63	\$ 643,190	19	\$ 11,899,013
		2000	\$ 370,233	HW_B3_4	350.25	540.00	1.54	\$ 570,808	18	\$ 9,989,146
		2001	\$ 993,512	HW_B3_4	361.75	540.00	1.49	\$ 1,483,058	17	\$ 24,470,459
		2002	\$ 1,698,451	HW_B3_4	363.25	540.00	1.49	\$ 2,524,882	16	\$ 39,135,677
		2003	\$ 903,526	HW_B3_4	374.25	540.00	1.44	\$ 1,303,685	15	\$ 18,903,430
		2004	\$ 577,701	HW_B3_4	421.50	540.00	1.28	\$ 740,116	14	\$ 9,991,562
		2005	\$ 243,763	HW_B3_4	438.25	540.00	1.23	\$ 300,358	13	\$ 3,754,472
		2006	\$ 625,927	HW_B3_4	457.25	540.00	1.18	\$ 739,203	12	\$ 8,500,829
		2007	\$ 1,790,314	HW_B3_4	510.51	540.00	1.06	\$ 1,893,716	11	\$ 19,884,013
		2008	\$ 2,439,314	HW_B3_4	540.75	540.00	1.00	\$ 2,435,931	10	\$ 23,141,342
		2009	\$ 2,296,917	HW_B3_4	501.50	540.00	1.08	\$ 2,473,250	9	\$ 21,022,628
		2010	\$ 1,518,070	HW_B3_4	492.75	540.00	1.10	\$ 1,663,639	8	\$ 12,477,291
		2011	\$ 2,020,585	HW_B3_4	512.75	540.00	1.05	\$ 2,127,968	7	\$ 13,831,793
		2012	\$ 1,360,451	HW_B3_4	524.00	540.00	1.03	\$ 1,401,991	6	\$ 7,710,951
		2013	\$ 6,854,832	HW_B3_4	530.75	540.00	1.02	\$ 6,974,299	5	\$ 31,384,347
		2014	\$ 2,275,148	HW_B3_4	539.25	540.00	1.00	\$ 2,278,313	4	\$ 7,974,094
		2015	\$ 3,873,325	HW_B3_4	531.75	540.00	1.02	\$ 3,933,419	3	\$ 9,833,548
		2016	\$ 24,079,049	HW_B3_4	531.50	540.00	1.02	\$ 24,464,133	2	\$ 36,696,199
		2017	\$ 4,106,085	HW_B3_4	540.00	540.00	1.00	\$ 4,106,085	0	\$ 1,026,521
		Total	\$ 92,398,601		0.00	0.00		\$ 205,512,798	35	\$ 7,221,997,636
390.0 Total		1923	\$ 121	BLS_PPI_PCU3372	9.80	139.20	14.20	\$ 1,723	95	\$ 162,781
391	Office Furniture & Equip, Electric	1930	\$ 67	BLS_PPI_PCU3372	10.99	139.20	12.66	\$ 848	88	\$ 74,233
		1938	\$ 134	BLS_PPI_PCU3372	9.35	139.20	14.89	\$ 1,995	80	\$ 158,613
		1940	\$ 108	BLS_PPI_PCU3372	9.37	139.20	14.85	\$ 1,599	78	\$ 123,939
		1942	\$ 180	BLS_PPI_PCU3372	10.80	139.20	12.89	\$ 2,320	76	\$ 175,130
		1947	\$ 302	BLS_PPI_PCU3372	14.86	139.20	9.37	\$ 2,832	71	\$ 199,688
		1949	\$ 252	BLS_PPI_PCU3372	15.66	139.20	8.89	\$ 2,241	69	\$ 153,496
		1952	\$ 420	BLS_PPI_PCU3372	17.26	139.20	8.06	\$ 3,387	66	\$ 221,863
		1954	\$ 1,155	BLS_PPI_PCU3372	17.64	139.20	7.89	\$ 9,114	64	\$ 578,765
		1955	\$ 1,015	BLS_PPI_PCU3372	17.94	139.20	7.76	\$ 7,874	63	\$ 492,133
		1956	\$ 5,409	BLS_PPI_PCU3372	18.55	139.20	7.50	\$ 40,584	62	\$ 2,495,920
		1957	\$ 1,843	BLS_PPI_PCU3372	19.17	139.20	7.26	\$ 13,385	61	\$ 809,815
		1958	\$ 295	BLS_PPI_PCU3372	19.60	139.20	7.10	\$ 2,094	60	\$ 124,622
		1960	\$ 398	BLS_PPI_PCU3372	20.15	139.20	6.91	\$ 2,748	58	\$ 158,005
		1961	\$ 447	BLS_PPI_PCU3372	20.37	139.20	6.83	\$ 3,056	57	\$ 172,656
		1962	\$ 942	BLS_PPI_PCU3372	20.62	139.20	6.75	\$ 6,356	56	\$ 352,760
		1963	\$ 3,969	BLS_PPI_PCU3372	20.85	139.20	6.67	\$ 26,495	55	\$ 1,443,951
		1964	\$ 165	BLS_PPI_PCU3372	21.17	139.20	6.57	\$ 1,087	54	\$ 58,136
		1965	\$ 391	BLS_PPI_PCU3372	21.56	139.20	6.46	\$ 2,524	53	\$ 132,520

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1966	\$ 3,533	BLS_PPI_PCU3372	22.17	139.20	6.28	\$ 22,186	52	\$ 1,142,554
		1967	\$ 2,059	BLS_PPI_PCU3372	22.81	139.20	6.10	\$ 12,566	51	\$ 634,608
		1968	\$ 3,842	BLS_PPI_PCU3372	23.78	139.20	5.85	\$ 22,487	50	\$ 1,113,082
		1969	\$ 949	BLS_PPI_PCU3372	24.95	139.20	5.58	\$ 5,292	49	\$ 256,659
		1970	\$ 3,554	BLS_PPI_PCU3372	26.27	139.20	5.30	\$ 18,832	48	\$ 894,498
		1971	\$ 3,678	BLS_PPI_PCU3372	27.60	139.20	5.04	\$ 18,547	47	\$ 862,416
		1972	\$ 3,580	BLS_PPI_PCU3372	28.80	139.20	4.83	\$ 17,305	46	\$ 787,363
		1973	\$ 2,736	BLS_PPI_PCU3372	30.36	139.20	4.58	\$ 12,541	45	\$ 558,083
		1974	\$ 4,243	BLS_PPI_PCU3372	33.09	139.20	4.21	\$ 17,850	44	\$ 776,456
		1975	\$ 40,287	BLS_PPI_PCU3372	36.16	139.20	3.85	\$ 155,101	43	\$ 6,591,781
		1976	\$ 46,456	BLS_PPI_PCU3372	38.14	139.20	3.65	\$ 169,541	42	\$ 7,035,958
		1977	\$ 93,827	BLS_PPI_PCU3372	40.51	139.20	3.44	\$ 322,421	41	\$ 13,058,064
		1978	\$ 88,427	BLS_PPI_PCU3372	43.35	139.20	3.21	\$ 283,928	40	\$ 11,215,142
		1979	\$ 99,444	BLS_PPI_PCU3372	46.93	139.20	2.97	\$ 294,954	39	\$ 11,355,724
		1980	\$ 274,071	BLS_PPI_PCU3372	51.16	139.20	2.72	\$ 745,656	38	\$ 27,962,112
		1981	\$ 369,247	BLS_PPI_PCU3372	55.94	139.20	2.49	\$ 918,818	37	\$ 33,536,855
		1982	\$ 207,663	BLS_PPI_PCU3372	59.41	139.20	2.34	\$ 486,555	36	\$ 17,272,692
		1983	\$ 165,233	BLS_PPI_PCU3372	61.76	139.20	2.25	\$ 372,433	35	\$ 12,848,951
		1984	\$ 167,523	BLS_PPI_PCU3372	63.95	139.20	2.18	\$ 364,654	34	\$ 12,215,898
		1985	\$ 343,021	BLS_PPI_PCU3372	65.99	139.20	2.11	\$ 723,527	33	\$ 23,514,636
		1986	\$ 165,814	BLS_PPI_PCU3372	67.33	139.20	2.07	\$ 342,830	32	\$ 10,799,136
		1987	\$ 307,381	BLS_PPI_PCU3372	69.04	139.20	2.02	\$ 619,716	31	\$ 18,901,341
		1988	\$ 627,172	BLS_PPI_PCU3372	71.46	139.20	1.95	\$ 1,221,672	30	\$ 36,039,336
		1989	\$ 454,289	BLS_PPI_PCU3372	74.24	139.20	1.88	\$ 851,792	29	\$ 24,276,069
		1990	\$ 965,565	BLS_PPI_PCU3372	76.99	139.20	1.81	\$ 1,745,879	28	\$ 48,011,665
		1991	\$ 514,765	BLS_PPI_PCU3372	79.55	139.20	1.75	\$ 900,780	27	\$ 23,870,674
		1992	\$ 863,998	BLS_PPI_PCU3372	81.36	139.20	1.71	\$ 1,478,197	26	\$ 37,694,014
		1993	\$ 591,411	BLS_PPI_PCU3372	83.30	139.20	1.67	\$ 988,319	25	\$ 24,213,822
		1994	\$ 521,663	BLS_PPI_PCU3372	85.07	139.20	1.64	\$ 853,601	24	\$ 20,059,635
		1995	\$ 501,790	BLS_PPI_PCU3372	86.84	139.20	1.60	\$ 804,308	23	\$ 18,096,922
		1996	\$ 647,650	BLS_PPI_PCU3372	88.43	139.20	1.57	\$ 1,019,493	22	\$ 21,919,105
		1997	\$ 339,382	BLS_PPI_PCU3372	89.94	139.20	1.55	\$ 525,244	21	\$ 10,767,497
		1998	\$ 549,478	BLS_PPI_PCU3372	90.92	139.20	1.53	\$ 841,264	20	\$ 16,404,653
		1999	\$ 41,730	BLS_PPI_PCU3372	92.31	139.20	1.51	\$ 62,927	19	\$ 1,164,157
		2000	\$ 591,154	BLS_PPI_PCU3372	94.41	139.20	1.47	\$ 871,605	18	\$ 15,253,082
		2001	\$ 378,108	BLS_PPI_PCU3372	96.56	139.20	1.44	\$ 545,060	17	\$ 8,993,493
		2002	\$ 630,161	BLS_PPI_PCU3372	98.04	139.20	1.42	\$ 894,678	16	\$ 13,867,513
		2003	\$ 161,007	BLS_PPI_PCU3372	100.00	139.20	1.39	\$ 224,122	15	\$ 3,249,773
		2004	\$ 186,237	BLS_PPI_PCU3372	105.10	139.20	1.32	\$ 246,662	14	\$ 3,329,939
		2005	\$ 258,361	BLS_PPI_PCU3372	111.50	139.20	1.25	\$ 322,546	13	\$ 4,031,819
		2006	\$ 315,503	BLS_PPI_PCU3372	113.80	139.20	1.22	\$ 385,923	12	\$ 4,438,111
		2007	\$ 212,398	BLS_PPI_PCU3372	116.70	139.20	1.19	\$ 253,349	11	\$ 2,660,167
		2008	\$ 1,315,037	BLS_PPI_PCU3372	121.20	139.20	1.15	\$ 1,510,339	10	\$ 14,348,223
		2009	\$ 254,075	BLS_PPI_PCU3372	124.60	139.20	1.12	\$ 283,846	9	\$ 2,412,692
		2010	\$ 333,909	BLS_PPI_PCU3372	125.60	139.20	1.11	\$ 370,065	8	\$ 2,775,486
		2011	\$ 330,613	BLS_PPI_PCU3372	128.90	139.20	1.08	\$ 357,031	7	\$ 2,320,700
		2012	\$ 487,660	BLS_PPI_PCU3372	131.40	139.20	1.06	\$ 516,607	6	\$ 2,841,341
		2013	\$ 744,225	BLS_PPI_PCU3372	132.20	139.20	1.05	\$ 783,632	5	\$ 3,526,342
		2014	\$ 720,108	BLS_PPI_PCU3372	135.60	139.20	1.03	\$ 739,226	4	\$ 2,587,289
		2015	\$ 818,434	BLS_PPI_PCU3372	136.70	139.20	1.02	\$ 833,402	3	\$ 2,083,505
		2016	\$ 2,846,505	BLS_PPI_PCU3372	137.20	139.20	1.01	\$ 2,887,999	2	\$ 4,331,999
		2017	\$ 336,351	BLS_PPI_PCU3372	138.90	139.20	1.00	\$ 337,077	0	\$ 84,269
		Total	\$ 19,952,918		0.00	0.00		\$ 29,736,647	20	\$ 597,076,327
391.0 Total										
391.6	Computer Equipment, Electric	2008	\$ 8,438	BLS_PPI_PCU3372	121.20	139.20	1.15	\$ 9,691	10	\$ 92,065
		2009	\$ 4,637,846	BLS_PPI_PCU3372	124.60	139.20	1.12	\$ 5,181,285	9	\$ 44,040,925
		2010	\$ 2,648,850	BLS_PPI_PCU3372	125.60	139.20	1.11	\$ 2,935,668	8	\$ 22,017,511
		2011	\$ 3,388,416	BLS_PPI_PCU3372	128.90	139.20	1.08	\$ 3,659,174	7	\$ 23,784,630

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		2012	\$ 2,062,098	BLS_PPI_PCU3372	131.40	139.20	1.06	\$ 2,184,506	6	\$ 12,014,782
		2013	\$ 3,075,725	BLS_PPI_PCU3372	132.20	139.20	1.05	\$ 3,238,585	5	\$ 14,573,632
		2014	\$ 3,875,373	BLS_PPI_PCU3372	135.60	139.20	1.03	\$ 3,978,259	4	\$ 13,923,907
		2015	\$ 1,708,624	BLS_PPI_PCU3372	136.70	139.20	1.02	\$ 1,739,872	3	\$ 4,349,679
		2016	\$ 7,145,808	BLS_PPI_PCU3372	137.20	139.20	1.01	\$ 7,249,974	2	\$ 10,874,961
		2017	\$ 1,128,730	BLS_PPI_PCU3372	138.90	139.20	1.00	\$ 1,131,168	0	\$ 282,792
391.6 Total		Total	\$ 29,679,908		0.00	0.00		\$ 31,308,182	5	\$ 145,954,884
392	Transportation Equipment	1959	\$ 2,479	BLS_PPI_PCU336	19.87	121.30	6.10	\$ 15,133	59	\$ 885,286
		1976	\$ 12,630	BLS_PPI_PCU336	38.14	121.30	3.18	\$ 40,166	42	\$ 1,666,887
		1978	\$ 6,400	BLS_PPI_PCU336	43.35	121.30	2.80	\$ 17,907	40	\$ 707,338
		1983	\$ 37,188	BLS_PPI_PCU336	61.76	121.30	1.96	\$ 73,043	35	\$ 2,519,978
		1991	\$ 85,539	BLS_PPI_PCU336	79.55	121.30	1.52	\$ 130,435	27	\$ 3,456,531
		1992	\$ 256,719	BLS_PPI_PCU336	81.36	121.30	1.49	\$ 382,736	26	\$ 9,759,768
		1993	\$ 184,408	BLS_PPI_PCU336	83.30	121.30	1.46	\$ 268,540	25	\$ 6,579,232
		1994	\$ 236,686	BLS_PPI_PCU336	85.07	121.30	1.43	\$ 337,489	24	\$ 7,930,982
		1995	\$ 144,740	BLS_PPI_PCU336	86.84	121.30	1.40	\$ 202,166	23	\$ 4,548,744
		1996	\$ 235,625	BLS_PPI_PCU336	88.43	121.30	1.37	\$ 323,212	22	\$ 6,949,059
		1997	\$ 179,982	BLS_PPI_PCU336	89.94	121.30	1.35	\$ 242,729	21	\$ 4,975,948
		1998	\$ 304,469	BLS_PPI_PCU336	90.92	121.30	1.33	\$ 406,206	20	\$ 7,921,026
		1999	\$ 13,023	BLS_PPI_PCU336	92.31	121.30	1.31	\$ 17,113	19	\$ 316,590
		2000	\$ 93,654	BLS_PPI_PCU336	94.41	121.30	1.28	\$ 120,328	18	\$ 2,105,748
		2001	\$ 109,056	BLS_PPI_PCU336	96.56	121.30	1.26	\$ 136,993	17	\$ 2,260,391
		2002	\$ 100,990	BLS_PPI_PCU336	98.04	121.30	1.24	\$ 124,943	16	\$ 1,936,623
		2003	\$ 4,265	BLS_PPI_PCU336	100.00	121.30	1.21	\$ 5,173	15	\$ 75,008
		2004	\$ 39,914	BLS_PPI_PCU336	100.80	121.30	1.20	\$ 48,031	14	\$ 648,422
		2005	\$ 1,718,999	BLS_PPI_PCU336	102.50	121.30	1.18	\$ 2,034,288	13	\$ 25,428,605
		2006	\$ 2,979,943	BLS_PPI_PCU336	103.20	121.30	1.18	\$ 3,502,588	12	\$ 40,279,759
		2007	\$ 2,289,750	BLS_PPI_PCU336	105.00	121.30	1.16	\$ 2,645,207	11	\$ 27,774,668
		2008	\$ 1,555,932	BLS_PPI_PCU336	107.30	121.30	1.13	\$ 1,758,943	10	\$ 16,709,954
		2009	\$ 3,331,551	BLS_PPI_PCU336	109.50	121.30	1.11	\$ 3,690,568	9	\$ 31,369,824
		2010	\$ 4,221,475	BLS_PPI_PCU336	110.40	121.30	1.10	\$ 4,638,270	8	\$ 34,787,023
		2011	\$ 1,263,753	BLS_PPI_PCU336	112.30	121.30	1.08	\$ 1,365,034	7	\$ 8,872,719
		2012	\$ 1,281,867	BLS_PPI_PCU336	114.80	121.30	1.06	\$ 1,354,447	6	\$ 7,449,456
		2013	\$ 4,931,510	BLS_PPI_PCU336	116.00	121.30	1.05	\$ 5,156,829	5	\$ 23,205,729
		2014	\$ 4,189,606	BLS_PPI_PCU336	117.60	121.30	1.03	\$ 4,321,422	4	\$ 15,124,975
		2015	\$ 4,179,651	BLS_PPI_PCU336	119.30	121.30	1.02	\$ 4,249,720	3	\$ 10,624,301
		2016	\$ 3,704,515	BLS_PPI_PCU336	120.20	121.30	1.01	\$ 3,738,416	2	\$ 5,607,624
		2017	\$ 4,511,876	BLS_PPI_PCU336	121.50	121.30	1.00	\$ 4,504,449	0	\$ 1,126,112
392.0 Total		Total	\$ 42,208,194		0.00	0.00		\$ 45,852,524	7	\$ 313,604,311
393	Stores Equipment, Electric	1969	\$ 552	BLS_PPI_PCU3372	24.95	139.20	5.58	\$ 3,078	49	\$ 149,303
		1970	\$ 1,133	BLS_PPI_PCU3372	26.27	139.20	5.30	\$ 6,003	48	\$ 285,135
		1971	\$ 4,106	BLS_PPI_PCU3372	27.60	139.20	5.04	\$ 20,705	47	\$ 962,799
		1972	\$ 45,938	BLS_PPI_PCU3372	28.80	139.20	4.83	\$ 222,050	46	\$ 10,103,280
		1973	\$ 85,464	BLS_PPI_PCU3372	30.36	139.20	4.58	\$ 391,789	45	\$ 17,434,615
		1974	\$ 5,042	BLS_PPI_PCU3372	33.09	139.20	4.21	\$ 21,209	44	\$ 922,588
		1975	\$ 21,585	BLS_PPI_PCU3372	36.16	139.20	3.85	\$ 83,100	43	\$ 3,531,747
		1976	\$ 48,532	BLS_PPI_PCU3372	38.14	139.20	3.65	\$ 177,117	42	\$ 7,350,336
		1977	\$ 20,623	BLS_PPI_PCU3372	40.51	139.20	3.44	\$ 70,869	41	\$ 2,870,180
		1978	\$ 82,265	BLS_PPI_PCU3372	43.35	139.20	3.21	\$ 264,142	40	\$ 10,433,617
		1979	\$ 34,910	BLS_PPI_PCU3372	46.93	139.20	2.97	\$ 103,545	39	\$ 3,986,492
		1980	\$ 111,017	BLS_PPI_PCU3372	51.16	139.20	2.72	\$ 302,040	38	\$ 11,326,517
		1981	\$ 44,046	BLS_PPI_PCU3372	55.94	139.20	2.49	\$ 109,602	37	\$ 4,000,455
		1982	\$ 24,454	BLS_PPI_PCU3372	59.41	139.20	2.34	\$ 57,296	36	\$ 2,033,990
		1983	\$ 24,724	BLS_PPI_PCU3372	61.76	139.20	2.25	\$ 55,729	35	\$ 1,922,644
		1984	\$ 8,918	BLS_PPI_PCU3372	63.95	139.20	2.18	\$ 19,411	34	\$ 650,283
		1985	\$ 63,052	BLS_PPI_PCU3372	65.99	139.20	2.11	\$ 132,993	33	\$ 4,322,279
		1986	\$ 19,073	BLS_PPI_PCU3372	67.33	139.20	2.07	\$ 39,434	32	\$ 1,242,183

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1987	\$ 25,657	BLS_PPI_PCU3372	69.04	139.20	2.02	\$ 51,728	31	\$ 1,577,716
		1988	\$ 31,195	BLS_PPI_PCU3372	71.46	139.20	1.95	\$ 60,764	30	\$ 1,792,545
		1989	\$ 20,436	BLS_PPI_PCU3372	74.24	139.20	1.88	\$ 38,318	29	\$ 1,092,054
		1990	\$ 100,386	BLS_PPI_PCU3372	76.99	139.20	1.81	\$ 181,512	28	\$ 4,991,573
		1991	\$ 29,079	BLS_PPI_PCU3372	79.55	139.20	1.75	\$ 50,886	27	\$ 1,348,468
		1992	\$ 14,013	BLS_PPI_PCU3372	81.36	139.20	1.71	\$ 23,975	26	\$ 611,370
		1993	\$ 327,993	BLS_PPI_PCU3372	83.30	139.20	1.67	\$ 548,116	25	\$ 13,428,833
		1994	\$ 129,934	BLS_PPI_PCU3372	85.07	139.20	1.64	\$ 212,613	24	\$ 4,996,406
		1995	\$ 14,805	BLS_PPI_PCU3372	86.84	139.20	1.60	\$ 23,730	23	\$ 533,929
		1996	\$ 59,266	BLS_PPI_PCU3372	88.43	139.20	1.57	\$ 93,292	22	\$ 2,005,785
		1997	\$ 1,501	BLS_PPI_PCU3372	89.94	139.20	1.55	\$ 2,324	21	\$ 47,636
		1998	\$ 6,875	BLS_PPI_PCU3372	90.92	139.20	1.53	\$ 10,526	20	\$ 205,259
		2000	\$ 46,793	BLS_PPI_PCU3372	94.41	139.20	1.47	\$ 68,992	18	\$ 1,207,369
		2001	\$ 7,575	BLS_PPI_PCU3372	96.56	139.20	1.44	\$ 10,919	17	\$ 180,168
		2003	\$ 5,886	BLS_PPI_PCU3372	100.00	139.20	1.39	\$ 8,194	15	\$ 118,810
		2004	\$ 31,643	BLS_PPI_PCU3372	105.10	139.20	1.32	\$ 41,910	14	\$ 565,785
		2005	\$ 46,474	BLS_PPI_PCU3372	111.50	139.20	1.25	\$ 58,019	13	\$ 725,237
		2006	\$ 48,024	BLS_PPI_PCU3372	113.80	139.20	1.22	\$ 58,742	12	\$ 675,539
		2007	\$ 259,687	BLS_PPI_PCU3372	116.70	139.20	1.19	\$ 309,755	11	\$ 3,252,427
		2008	\$ 149,899	BLS_PPI_PCU3372	121.20	139.20	1.15	\$ 172,161	10	\$ 1,635,530
		2009	\$ 258,336	BLS_PPI_PCU3372	124.60	139.20	1.12	\$ 288,607	9	\$ 2,453,157
		2010	\$ 210,378	BLS_PPI_PCU3372	125.60	139.20	1.11	\$ 233,158	8	\$ 1,748,683
		2012	\$ 212,479	BLS_PPI_PCU3372	131.40	139.20	1.06	\$ 225,092	6	\$ 1,238,007
		2013	\$ 143,857	BLS_PPI_PCU3372	132.20	139.20	1.05	\$ 151,474	5	\$ 681,632
		2014	\$ 31,389	BLS_PPI_PCU3372	135.60	139.20	1.03	\$ 32,223	4	\$ 112,780
		2015	\$ 56,374	BLS_PPI_PCU3372	136.70	139.20	1.02	\$ 57,405	3	\$ 143,513
393.0 Total		Total	\$ 2,915,369		0.00	0.00		\$ 5,094,548	26	\$ 130,898,652
394	Tools, Shop & Garage Equip, G	1936	\$ 614	BLS_PPI_PCU_3332	14.43	175.80	12.19	\$ 7,488	82	\$ 610,293
		1947	\$ 4,270	BLS_PPI_PCU_3332	23.23	175.80	7.57	\$ 32,309	71	\$ 2,277,797
		1949	\$ 605	BLS_PPI_PCU_3332	24.49	175.80	7.18	\$ 4,347	69	\$ 297,766
		1955	\$ 356	BLS_PPI_PCU_3332	28.05	175.80	6.27	\$ 2,234	63	\$ 139,618
		1960	\$ 2,133	BLS_PPI_PCU_3332	31.51	175.80	5.58	\$ 11,902	58	\$ 684,383
		1962	\$ 1,100	BLS_PPI_PCU_3332	32.25	175.80	5.45	\$ 5,997	56	\$ 332,827
		1965	\$ 500	BLS_PPI_PCU_3332	33.72	175.80	5.21	\$ 2,608	53	\$ 136,907
		1966	\$ 364	BLS_PPI_PCU_3332	34.66	175.80	5.07	\$ 1,844	52	\$ 94,968
		1967	\$ 2,020	BLS_PPI_PCU_3332	35.67	175.80	4.93	\$ 9,956	51	\$ 502,780
		1969	\$ 2,787	BLS_PPI_PCU_3332	39.02	175.80	4.51	\$ 12,556	49	\$ 608,950
		1970	\$ 1,848	BLS_PPI_PCU_3332	41.08	175.80	4.28	\$ 7,909	48	\$ 375,658
		1971	\$ 20,588	BLS_PPI_PCU_3332	43.16	175.80	4.07	\$ 83,851	47	\$ 3,899,078
		1972	\$ 81,699	BLS_PPI_PCU_3332	45.03	175.80	3.90	\$ 318,938	46	\$ 14,511,697
		1973	\$ 220,481	BLS_PPI_PCU_3332	47.48	175.80	3.70	\$ 816,301	45	\$ 36,325,406
		1974	\$ 108,744	BLS_PPI_PCU_3332	51.75	175.80	3.40	\$ 369,423	44	\$ 16,069,909
		1975	\$ 30,142	BLS_PPI_PCU_3332	56.54	175.80	3.11	\$ 93,719	43	\$ 3,983,048
		1976	\$ 63,831	BLS_PPI_PCU_3332	59.65	175.80	2.95	\$ 188,137	42	\$ 7,807,680
		1977	\$ 184,982	BLS_PPI_PCU_3332	63.35	175.80	2.78	\$ 513,375	41	\$ 20,791,685
		1978	\$ 165,449	BLS_PPI_PCU_3332	67.79	175.80	2.59	\$ 429,041	40	\$ 16,947,114
		1979	\$ 264,523	BLS_PPI_PCU_3332	73.39	175.80	2.40	\$ 633,652	39	\$ 24,395,603
		1980	\$ 194,536	BLS_PPI_PCU_3332	80.01	175.80	2.20	\$ 427,452	38	\$ 16,029,436
		1981	\$ 194,549	BLS_PPI_PCU_3332	87.48	175.80	2.01	\$ 390,980	37	\$ 14,270,781
		1982	\$ 274,939	BLS_PPI_PCU_3332	92.90	175.80	1.89	\$ 520,261	36	\$ 18,469,277
		1983	\$ 197,964	BLS_PPI_PCU_3332	96.57	175.80	1.82	\$ 360,372	35	\$ 12,432,835
		1984	\$ 419,479	BLS_PPI_PCU_3332	100.00	175.80	1.76	\$ 737,444	34	\$ 24,704,371
		1985	\$ 269,527	BLS_PPI_PCU_3332	102.30	175.80	1.72	\$ 463,175	33	\$ 15,053,200
		1986	\$ 360,659	BLS_PPI_PCU_3332	105.20	175.80	1.67	\$ 602,697	32	\$ 18,984,971
		1987	\$ 552,387	BLS_PPI_PCU_3332	108.50	175.80	1.62	\$ 895,019	31	\$ 27,298,078
		1988	\$ 446,506	BLS_PPI_PCU_3332	112.60	175.80	1.56	\$ 697,121	30	\$ 20,565,058
		1989	\$ 459,446	BLS_PPI_PCU_3332	117.60	175.80	1.49	\$ 686,824	29	\$ 19,574,497

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1990	\$ 963,011	BLS_PPI_PCU_3332	121.60	175.80	1.45	\$ 1,392,248	28	\$ 38,286,807
		1991	\$ 483,115	BLS_PPI_PCU_3332	125.60	175.80	1.40	\$ 676,208	27	\$ 17,919,500
		1992	\$ 707,820	BLS_PPI_PCU_3332	128.40	175.80	1.37	\$ 969,118	26	\$ 24,712,508
		1993	\$ 852,746	BLS_PPI_PCU_3332	132.10	175.80	1.33	\$ 1,134,843	25	\$ 27,803,655
		1994	\$ 711,684	BLS_PPI_PCU_3332	134.20	175.80	1.31	\$ 932,295	24	\$ 21,908,928
		1995	\$ 228,767	BLS_PPI_PCU_3332	137.30	175.80	1.28	\$ 292,915	23	\$ 6,590,579
		1996	\$ 357,526	BLS_PPI_PCU_3332	140.50	175.80	1.25	\$ 447,353	22	\$ 9,618,089
		1997	\$ 166,416	BLS_PPI_PCU_3332	143.00	175.80	1.23	\$ 204,587	21	\$ 4,194,043
		1998	\$ 319,103	BLS_PPI_PCU_3332	145.40	175.80	1.21	\$ 385,820	20	\$ 7,523,497
		1999	\$ 55,147	BLS_PPI_PCU_3332	147.20	175.80	1.19	\$ 65,862	19	\$ 1,218,442
		2000	\$ 271,349	BLS_PPI_PCU_3332	148.70	175.80	1.18	\$ 320,801	18	\$ 5,614,022
		2001	\$ 417,255	BLS_PPI_PCU_3332	149.90	175.80	1.17	\$ 489,349	17	\$ 8,074,252
		2002	\$ 237,291	BLS_PPI_PCU_3332	149.60	175.80	1.18	\$ 278,848	16	\$ 4,322,149
		2003	\$ 224,666	BLS_PPI_PCU_3332	150.20	175.80	1.17	\$ 262,958	15	\$ 3,812,895
		2004	\$ 264,033	BLS_PPI_PCU_3332	153.00	175.80	1.15	\$ 303,379	14	\$ 4,095,613
		2005	\$ 330,293	BLS_PPI_PCU_3332	155.90	175.80	1.13	\$ 372,454	13	\$ 4,655,672
		2006	\$ 189,819	BLS_PPI_PCU_3332	158.90	175.80	1.11	\$ 210,007	12	\$ 2,415,083
		2007	\$ 446,276	BLS_PPI_PCU_3332	162.80	175.80	1.08	\$ 481,913	11	\$ 5,060,083
		2008	\$ 360,904	BLS_PPI_PCU_3332	166.40	175.80	1.06	\$ 381,291	10	\$ 3,622,266
		2009	\$ 504,182	BLS_PPI_PCU_3332	166.20	175.80	1.06	\$ 533,305	9	\$ 4,533,089
		2010	\$ 1,005,289	BLS_PPI_PCU_3332	165.00	175.80	1.07	\$ 1,071,089	8	\$ 8,033,170
		2011	\$ 421,985	BLS_PPI_PCU_3332	167.90	175.80	1.05	\$ 441,841	7	\$ 2,871,964
		2012	\$ 509,928	BLS_PPI_PCU_3332	169.80	175.80	1.04	\$ 527,947	6	\$ 2,903,708
		2013	\$ 614,330	BLS_PPI_PCU_3332	169.80	175.80	1.04	\$ 636,038	5	\$ 2,862,170
		2014	\$ 553,715	BLS_PPI_PCU_3332	171.40	175.80	1.03	\$ 567,930	4	\$ 1,987,754
		2015	\$ 801,228	BLS_PPI_PCU_3332	172.90	175.80	1.02	\$ 814,667	3	\$ 2,036,666
		2016	\$ 954,007	BLS_PPI_PCU_3332	174.00	175.80	1.01	\$ 963,876	2	\$ 1,445,814
		2017	\$ 108,697	BLS_PPI_PCU_3332	175.60	175.80	1.00	\$ 108,821	0	\$ 27,205
		Total	\$ 17,587,610		0.00	0.00		\$ 24,594,694	23	\$ 566,325,296
394.0 Total										
395	Laboratory Equipment, Electric	1956	\$ 11,840	BLS_PPI_PCU334516	28.11	153.50	5.46	\$ 64,651	62	\$ 3,976,029
		1958	\$ 24,798	BLS_PPI_PCU334516	29.70	153.50	5.17	\$ 128,160	60	\$ 7,625,513
		1965	\$ 718	BLS_PPI_PCU334516	32.67	153.50	4.70	\$ 3,374	53	\$ 177,143
		1967	\$ 9,807	BLS_PPI_PCU334516	34.57	153.50	4.44	\$ 43,550	51	\$ 2,199,287
		1969	\$ 1,625	BLS_PPI_PCU334516	37.81	153.50	4.06	\$ 6,597	49	\$ 319,967
		1970	\$ 268	BLS_PPI_PCU334516	39.80	153.50	3.86	\$ 1,033	48	\$ 49,075
		1972	\$ 46	BLS_PPI_PCU334516	43.64	153.50	3.52	\$ 163	46	\$ 7,402
		1973	\$ 9,609	BLS_PPI_PCU334516	46.01	153.50	3.34	\$ 32,058	45	\$ 1,426,573
		1974	\$ 28,380	BLS_PPI_PCU334516	50.15	153.50	3.06	\$ 86,875	44	\$ 3,779,080
		1975	\$ 218,730	BLS_PPI_PCU334516	54.79	153.50	2.80	\$ 612,811	43	\$ 26,044,484
		1976	\$ 68,222	BLS_PPI_PCU334516	57.80	153.50	2.66	\$ 181,188	42	\$ 7,519,302
		1977	\$ 79,066	BLS_PPI_PCU334516	61.38	153.50	2.50	\$ 197,723	41	\$ 8,007,801
		1978	\$ 99,851	BLS_PPI_PCU334516	65.69	153.50	2.34	\$ 233,319	40	\$ 9,216,110
		1979	\$ 75,221	BLS_PPI_PCU334516	71.11	153.50	2.16	\$ 162,363	39	\$ 6,250,972
		1980	\$ 220,511	BLS_PPI_PCU334516	77.53	153.50	1.98	\$ 436,596	38	\$ 16,372,362
		1981	\$ 175,679	BLS_PPI_PCU334516	84.77	153.50	1.81	\$ 318,132	37	\$ 11,611,807
		1982	\$ 164,545	BLS_PPI_PCU334516	90.02	153.50	1.71	\$ 280,565	36	\$ 9,960,063
		1983	\$ 207,096	BLS_PPI_PCU334516	93.58	153.50	1.64	\$ 339,702	35	\$ 11,719,735
		1984	\$ 215,697	BLS_PPI_PCU334516	96.90	153.50	1.58	\$ 341,684	34	\$ 11,446,408
		1985	\$ 430,506	BLS_PPI_PCU334516	100.00	153.50	1.54	\$ 660,827	33	\$ 21,476,874
		1986	\$ 292,925	BLS_PPI_PCU334516	100.00	153.50	1.54	\$ 449,640	32	\$ 14,163,674
		1987	\$ 200,976	BLS_PPI_PCU334516	100.80	153.50	1.52	\$ 306,050	31	\$ 9,334,527
		1988	\$ 232,012	BLS_PPI_PCU334516	103.20	153.50	1.49	\$ 345,095	30	\$ 10,180,309
		1989	\$ 185,436	BLS_PPI_PCU334516	105.70	153.50	1.45	\$ 269,294	29	\$ 7,674,874
		1990	\$ 325,058	BLS_PPI_PCU334516	107.70	153.50	1.43	\$ 463,290	28	\$ 12,740,476
		1991	\$ 314,728	BLS_PPI_PCU334516	108.90	153.50	1.41	\$ 443,625	27	\$ 11,756,072
		1992	\$ 374,605	BLS_PPI_PCU334516	110.90	153.50	1.38	\$ 518,502	26	\$ 13,221,789
		1993	\$ 418,283	BLS_PPI_PCU334516	112.20	153.50	1.37	\$ 572,250	25	\$ 14,020,127

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		1994	\$ 436,304	BLS_PPI_PCU334516	113.10	153.50	1.36	\$ 592,155	24	\$ 13,915,633
		1995	\$ 331,554	BLS_PPI_PCU334516	114.60	153.50	1.34	\$ 444,097	23	\$ 9,992,191
		1996	\$ 458,233	BLS_PPI_PCU334516	115.90	153.50	1.32	\$ 606,892	22	\$ 13,048,186
		1997	\$ 175,756	BLS_PPI_PCU334516	117.50	153.50	1.31	\$ 229,604	21	\$ 4,706,884
		1998	\$ 149,846	BLS_PPI_PCU334516	118.30	153.50	1.30	\$ 194,432	20	\$ 3,791,421
		2000	\$ 62,662	BLS_PPI_PCU334516	119.20	153.50	1.29	\$ 80,693	18	\$ 1,412,128
		2001	\$ 354,507	BLS_PPI_PCU334516	121.60	153.50	1.26	\$ 447,506	17	\$ 7,383,855
		2002	\$ 485,164	BLS_PPI_PCU334516	124.00	153.50	1.24	\$ 600,587	16	\$ 9,309,093
		2003	\$ 67,366	BLS_PPI_PCU334516	126.20	153.50	1.22	\$ 81,939	15	\$ 1,188,117
		2004	\$ 212,844	BLS_PPI_PCU334516	128.20	153.50	1.20	\$ 254,849	14	\$ 3,440,458
		2005	\$ 206,546	BLS_PPI_PCU334516	129.70	153.50	1.18	\$ 244,447	13	\$ 3,055,592
		2006	\$ 97,490	BLS_PPI_PCU334516	132.20	153.50	1.16	\$ 113,197	12	\$ 1,301,767
		2007	\$ 277,582	BLS_PPI_PCU334516	133.10	153.50	1.15	\$ 320,126	11	\$ 3,361,324
		2008	\$ 234,045	BLS_PPI_PCU334516	136.20	153.50	1.13	\$ 263,774	10	\$ 2,505,849
		2009	\$ 67,246	BLS_PPI_PCU334516	137.90	153.50	1.11	\$ 74,853	9	\$ 636,252
		2010	\$ 431,748	BLS_PPI_PCU334516	138.70	153.50	1.11	\$ 477,818	8	\$ 3,583,634
		2011	\$ 253,061	BLS_PPI_PCU334516	139.60	153.50	1.10	\$ 278,258	7	\$ 1,808,680
		2012	\$ 318,486	BLS_PPI_PCU334516	140.40	153.50	1.09	\$ 348,202	6	\$ 1,915,111
		2013	\$ 328,678	BLS_PPI_PCU334516	142.30	153.50	1.08	\$ 354,547	5	\$ 1,595,460
		2014	\$ 235,181	BLS_PPI_PCU334516	144.40	153.50	1.06	\$ 250,002	4	\$ 875,007
		2015	\$ 238,178	BLS_PPI_PCU334516	147.00	153.50	1.04	\$ 248,709	3	\$ 621,773
		2016	\$ 281,244	BLS_PPI_PCU334516	149.40	153.50	1.03	\$ 288,962	2	\$ 433,443
395.0 Total		Total	\$ 10,089,959		0.00	0.00		\$ 14,294,769	24	\$ 342,159,697
396	Power Operated Equipment, Electric	1981	\$ 230,758	BLS_PPI_PCU333613	87.48	251.60	2.88	\$ 663,703	37	\$ 24,225,149
		1982	\$ 12,442	BLS_PPI_PCU333613	92.90	251.60	2.71	\$ 33,696	36	\$ 1,196,207
		1985	\$ 107,503	BLS_PPI_PCU333613	102.30	251.60	2.46	\$ 264,397	33	\$ 8,592,888
		1986	\$ 87,752	BLS_PPI_PCU333613	104.50	251.60	2.41	\$ 211,277	32	\$ 6,655,222
		1987	\$ 64,610	BLS_PPI_PCU333613	106.30	251.60	2.37	\$ 152,924	31	\$ 4,664,180
		1988	\$ 94,852	BLS_PPI_PCU333613	110.00	251.60	2.29	\$ 216,953	30	\$ 6,400,126
		1989	\$ 163,248	BLS_PPI_PCU333613	115.10	251.60	2.19	\$ 356,848	29	\$ 10,170,159
		1990	\$ 399,210	BLS_PPI_PCU333613	119.00	251.60	2.11	\$ 844,044	28	\$ 23,211,222
		1991	\$ 84,063	BLS_PPI_PCU333613	122.60	251.60	2.05	\$ 172,515	27	\$ 4,571,651
		1993	\$ 37,119	BLS_PPI_PCU333613	128.10	251.60	1.96	\$ 72,905	25	\$ 1,786,169
		1994	\$ 52,319	BLS_PPI_PCU333613	132.70	251.60	1.90	\$ 99,198	24	\$ 2,331,148
		1995	\$ 49,303	BLS_PPI_PCU333613	137.20	251.60	1.83	\$ 90,413	23	\$ 2,034,286
		1996	\$ 17,351	BLS_PPI_PCU333613	141.20	251.60	1.78	\$ 30,918	22	\$ 664,730
		2002	\$ 109,212	BLS_PPI_PCU333613	157.80	251.60	1.59	\$ 174,131	16	\$ 2,699,027
		2004	\$ 19,500	BLS_PPI_PCU333613	168.40	251.60	1.49	\$ 29,134	14	\$ 393,312
		2006	\$ 11,274	BLS_PPI_PCU333613	185.70	251.60	1.35	\$ 15,275	12	\$ 175,663
		2008	\$ 326,221	BLS_PPI_PCU333613	206.40	251.60	1.22	\$ 397,661	10	\$ 3,777,781
		2009	\$ 3,835	BLS_PPI_PCU333613	222.40	251.60	1.13	\$ 4,338	9	\$ 36,873
		2010	\$ 172,136	BLS_PPI_PCU333613	224.60	251.60	1.12	\$ 192,829	8	\$ 1,446,221
		2012	\$ 179,690	BLS_PPI_PCU333613	239.10	251.60	1.05	\$ 189,084	6	\$ 1,039,961
		2013	\$ 155,699	BLS_PPI_PCU333613	243.90	251.60	1.03	\$ 160,614	5	\$ 722,763
		2015	\$ 79,188	BLS_PPI_PCU333613	249.00	251.60	1.01	\$ 80,015	3	\$ 200,038
		2016	\$ 172,918	BLS_PPI_PCU333613	249.20	251.60	1.01	\$ 174,584	2	\$ 261,876
		2017	\$ 52,780	BLS_PPI_PCU333613	251.40	251.60	1.00	\$ 52,822	0	\$ 13,205
396.0 Total		Total	\$ 2,682,985		0.00	0.00		\$ 4,680,277	23	\$ 107,269,854
397	Communication Equipment, Electric	1997	\$ 25,953	BLS_PPI_PCU3342	115.70	93.90	0.81	\$ 21,063	21	\$ 431,786
		1998	\$ 5,411	BLS_PPI_PCU3342	115.00	93.90	0.82	\$ 4,418	20	\$ 86,152
		2000	\$ 89,493	BLS_PPI_PCU3342	110.40	93.90	0.85	\$ 76,117	18	\$ 1,332,054
		2001	\$ 416,430	BLS_PPI_PCU3342	108.60	93.90	0.86	\$ 360,062	17	\$ 5,941,030
		2002	\$ 931,640	BLS_PPI_PCU3342	105.00	93.90	0.89	\$ 833,153	16	\$ 12,913,868
		2003	\$ 17,446	BLS_PPI_PCU3342	101.70	93.90	0.92	\$ 16,108	15	\$ 233,563
		2004	\$ 183,836	BLS_PPI_PCU3342	98.40	93.90	0.95	\$ 175,429	14	\$ 2,368,286
		2005	\$ 518,112	BLS_PPI_PCU3342	97.00	93.90	0.97	\$ 501,554	13	\$ 6,269,427
		2006	\$ 335,702	BLS_PPI_PCU3342	95.90	93.90	0.98	\$ 328,701	12	\$ 3,780,063

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		2007	\$ 67,628	BLS_PPI_PCU3342	95.80	93.90	0.98	\$ 66,286	11	\$ 696,006
		2008	\$ 128,121	BLS_PPI_PCU3342	97.10	93.90	0.97	\$ 123,898	10	\$ 1,177,034
		2009	\$ 4,932,236	BLS_PPI_PCU3342	97.20	93.90	0.97	\$ 4,764,784	9	\$ 40,500,662
		2010	\$ 81,233	BLS_PPI_PCU3342	96.90	93.90	0.97	\$ 78,718	8	\$ 590,384
		2011	\$ 76,285	BLS_PPI_PCU3342	96.30	93.90	0.98	\$ 74,384	7	\$ 483,493
		2012	\$ 513,497	BLS_PPI_PCU3342	95.60	93.90	0.98	\$ 504,365	6	\$ 2,774,009
		2013	\$ 6,230,218	BLS_PPI_PCU3342	95.40	93.90	0.98	\$ 6,132,258	5	\$ 27,595,163
		2014	\$ 1,112,609	BLS_PPI_PCU3342	95.60	93.90	0.98	\$ 1,092,824	4	\$ 3,824,884
		2015	\$ 2,753,622	BLS_PPI_PCU3342	95.80	93.90	0.98	\$ 2,699,010	3	\$ 6,747,525
		2016	\$ 4,630,659	BLS_PPI_PCU3342	95.20	93.90	0.99	\$ 4,567,425	2	\$ 6,851,138
		2017	\$ 612,113	BLS_PPI_PCU3342	94.00	93.90	1.00	\$ 611,462	0	\$ 152,866
397.0 Total		Total	\$ 23,662,243		0.00	0.00		\$ 23,032,020	5	\$ 124,749,391
398	Miscellaneous Equipment, Electric	1964	\$ 16	BLS_PPI_PCU335	21.17	138.30	6.53	\$ 102	54	\$ 5,451
		1966	\$ 362	BLS_PPI_PCU335	22.17	138.30	6.24	\$ 2,256	52	\$ 116,160
		1967	\$ 5,594	BLS_PPI_PCU335	22.81	138.30	6.06	\$ 33,917	51	\$ 1,712,803
		1969	\$ 2,858	BLS_PPI_PCU335	24.95	138.30	5.54	\$ 15,840	49	\$ 768,233
		1970	\$ 36,995	BLS_PPI_PCU335	26.27	138.30	5.26	\$ 194,774	48	\$ 9,251,764
		1971	\$ 4,380	BLS_PPI_PCU335	27.60	138.30	5.01	\$ 21,948	47	\$ 1,020,568
		1972	\$ 16,868	BLS_PPI_PCU335	28.80	138.30	4.80	\$ 81,007	46	\$ 3,685,809
		1973	\$ 9,396	BLS_PPI_PCU335	30.36	138.30	4.55	\$ 42,797	45	\$ 1,904,452
		1974	\$ 4,237	BLS_PPI_PCU335	33.09	138.30	4.18	\$ 17,707	44	\$ 770,274
		1975	\$ 13,883	BLS_PPI_PCU335	36.16	138.30	3.82	\$ 53,101	43	\$ 2,256,803
		1976	\$ 2,691	BLS_PPI_PCU335	38.14	138.30	3.63	\$ 9,756	42	\$ 404,867
		1977	\$ 7,051	BLS_PPI_PCU335	40.51	138.30	3.41	\$ 24,071	41	\$ 974,892
		1978	\$ 80,578	BLS_PPI_PCU335	43.35	138.30	3.19	\$ 257,054	40	\$ 10,153,620
		1979	\$ 7,678	BLS_PPI_PCU335	46.93	138.30	2.95	\$ 22,627	39	\$ 871,135
		1980	\$ 10,252	BLS_PPI_PCU335	51.16	138.30	2.70	\$ 27,713	38	\$ 1,039,235
		1981	\$ 22,994	BLS_PPI_PCU335	55.94	138.30	2.47	\$ 56,848	37	\$ 2,074,958
		1982	\$ 31,333	BLS_PPI_PCU335	59.41	138.30	2.33	\$ 72,940	36	\$ 2,589,366
		1983	\$ 3,766	BLS_PPI_PCU335	61.76	138.30	2.24	\$ 8,434	35	\$ 290,960
		1984	\$ 9,111	BLS_PPI_PCU335	63.95	138.30	2.16	\$ 19,705	34	\$ 660,114
		1985	\$ 22,638	BLS_PPI_PCU335	65.99	138.30	2.10	\$ 47,441	33	\$ 1,541,826
		1986	\$ 544,939	BLS_PPI_PCU335	67.33	138.30	2.05	\$ 1,119,410	32	\$ 35,261,404
		1987	\$ 14,683	BLS_PPI_PCU335	69.04	138.30	2.00	\$ 29,410	31	\$ 897,015
		1988	\$ 15,108	BLS_PPI_PCU335	71.46	138.30	1.94	\$ 29,239	30	\$ 862,551
		1989	\$ 476,933	BLS_PPI_PCU335	74.24	138.30	1.86	\$ 888,468	29	\$ 25,321,351
		1990	\$ 11,678	BLS_PPI_PCU335	76.99	138.30	1.80	\$ 20,979	28	\$ 576,923
		1991	\$ 19,007	BLS_PPI_PCU335	79.55	138.30	1.74	\$ 33,046	27	\$ 875,707
		1992	\$ 76,106	BLS_PPI_PCU335	81.36	138.30	1.70	\$ 129,366	26	\$ 3,298,823
		1993	\$ 32,521	BLS_PPI_PCU335	83.30	138.30	1.66	\$ 53,996	25	\$ 1,322,890
		1994	\$ 575,443	BLS_PPI_PCU335	85.07	138.30	1.63	\$ 935,514	24	\$ 21,984,589
		1995	\$ 6,121	BLS_PPI_PCU335	86.84	138.30	1.59	\$ 9,748	23	\$ 219,335
		1996	\$ 27,224	BLS_PPI_PCU335	88.43	138.30	1.56	\$ 42,577	22	\$ 915,401
		1997	\$ 30,798	BLS_PPI_PCU335	89.94	138.30	1.54	\$ 47,357	21	\$ 970,814
		1998	\$ 9,973	BLS_PPI_PCU335	90.92	138.30	1.52	\$ 15,170	20	\$ 295,820
		2000	\$ 2,414	BLS_PPI_PCU335	94.41	138.30	1.46	\$ 3,537	18	\$ 61,896
		2001	\$ 15,563	BLS_PPI_PCU335	96.56	138.30	1.43	\$ 22,290	17	\$ 367,781
		2002	\$ 9,167	BLS_PPI_PCU335	98.04	138.30	1.41	\$ 12,931	16	\$ 200,424
		2003	\$ 77,084	BLS_PPI_PCU335	100.00	138.30	1.38	\$ 106,607	15	\$ 1,545,803
		2004	\$ 43,919	BLS_PPI_PCU335	103.20	138.30	1.34	\$ 58,857	14	\$ 794,567
		2005	\$ 34,004	BLS_PPI_PCU335	108.00	138.30	1.28	\$ 43,544	13	\$ 544,300
		2006	\$ 109,464	BLS_PPI_PCU335	116.60	138.30	1.19	\$ 129,836	12	\$ 1,493,119
		2007	\$ 233,262	BLS_PPI_PCU335	122.20	138.30	1.13	\$ 263,995	11	\$ 2,771,948
		2008	\$ 273,460	BLS_PPI_PCU335	127.80	138.30	1.08	\$ 295,927	10	\$ 2,811,307
		2009	\$ 68,177	BLS_PPI_PCU335	128.60	138.30	1.08	\$ 73,320	9	\$ 623,219
		2010	\$ 59,796	BLS_PPI_PCU335	131.90	138.30	1.05	\$ 62,697	8	\$ 470,230
		2011	\$ 58,465	BLS_PPI_PCU335	136.10	138.30	1.02	\$ 59,410	7	\$ 386,163

Summary
Reproduction Cost New Less Depreciation

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Asset Account	FERC Account	Installation Year	Original Cost	Index	Index At Installation	Current Index	Adjustment Factor	Reproduction Cost	Age	Dollar Years
		2012	\$ 143,704	BLS_PPI_PCU335	138.30	138.30	1.00	\$ 143,704	6	\$ 790,373
		2013	\$ 71,915	BLS_PPI_PCU335	138.70	138.30	1.00	\$ 71,708	5	\$ 322,686
		2014	\$ 98,224	BLS_PPI_PCU335	138.90	138.30	1.00	\$ 97,799	4	\$ 342,298
		2015	\$ 278,858	BLS_PPI_PCU335	138.30	138.30	1.00	\$ 278,858	3	\$ 697,146
		2016	\$ 32,191	BLS_PPI_PCU335	137.10	138.30	1.01	\$ 32,473	2	\$ 48,710
		2017	\$ 40,702	BLS_PPI_PCU335	138.00	138.30	1.00	\$ 40,790	0	\$ 10,198
398.0 Total		Total	\$ 3,783,587		0.00	0.00		\$ 6,162,600	24	\$ 149,178,078

Construction Cost of Recent Combined Cycle Generators

Power Plant	Owner	State	Year First Unit in Service	Fuel Type	Technology Type	Net Peak Demand on Plant - MW (60 minutes)	Cost	Construction Cost (\$/kW)	Current Index	Index at Installation Year	Index Factor	Estimated Construction Cost (\$2017/kW)	Source
Bear Garden	Virginia Electric and Power Company	VA	2011	Gas	Combined Cycle	626	\$ 602,181,066	\$ 962	690	601	1.15	\$ 1,104	MW and Cost - 2011 FF1 Pg. 402.6
Buck CC	Duke Energy Carolinas, LLC	NC	2011	Gas	Combined Cycle	677	\$ 626,325,863	\$ 925	690	601	1.15	\$ 1,062	MW and Cost - 2011 FF1 Pg. 403.3
Cane Run CC	Kentucky Utilities Company	KY	2015	Gas	Combined Cycle	606	\$ 527,560,555	\$ 871	690	664	1.04	\$ 905	MW and Cost - 2015 FF1 Pgs. 403.1 and 450.1
Cherokee Gas Fired Plant	Public Service Company of Colorado	CO	2015	Gas	Combined Cycle	608	\$ 583,578,463	\$ 960	690	664	1.04	\$ 997	MW and Cost - 2015 FF1 Pg. 403
Colusa CC (Maxwell Generating Station)	Pacific Gas and Electric Company	CA	2010	Gas	Combined Cycle	659	\$ 645,020,229	\$ 979	690	577	1.20	\$ 1,171	MW and Cost - 2010 FF1 Pg. 402.1
Dan River CC	Duke Energy Carolinas, LLC	NC	2012	Gas	Combined Cycle	682	\$ 612,057,944	\$ 897	690	623	1.11	\$ 994	MW and Cost - 2012 FF1 Pg. 402.4
Harry Allen Expansion	Nevada Power Company	NV	2011	Gas	Combined Cycle	545	\$ 694,807,341	\$ 1,275	690	601	1.15	\$ 1,464	MW and Cost - 2011 FF1 Pg. 402.3
J. Lamar Stall	Southwestern Electric Power Company	LA	2010	Gas	Combined Cycle	662	\$ 457,530,304	\$ 691	690	577	1.20	\$ 827	MW and Cost - 2010 FF1 Pg. 402
Ninemile 6	Entergy Louisiana, LLC	LA	2014	Gas	Combined Cycle	631	\$ 620,609,622	\$ 984	690	640	1.08	\$ 1,061	MW and Cost - 2014 FF1 Pg. 402.2
Mean												\$ 1,065	
Eagle Valley CCGT	Indianapolis Power & Light	IN	2018	Gas	Combined Cycle	671	\$ 656,605,826	\$ 979				\$ 979	

Construction Cost Estimates
Proposed Combined Cycle Generators

Power Plant	Technology Type	Plant Fuel Type	Plant Operator	Active Phases Earliest Online Year	NERC Region Code	State / Province	Last Active Phase Development Status	Planned Capacity (MW)	Active Phases Maximum Project Cost (\$000)	Active Phases SNL Estimated Cost? Yes/No	Latest Project Cost As Of (mm/dd/yyyy)	Project Cost (\$/kW)
Asheville CC	Combined Cycle	Gas	Duke Energy Progress, LLC	2019	SERC	NC	Advanced Development	586	\$ 615,720	Yes	11/5/15	\$ 1,050
Carroll County Energy Center	Combined Cycle	Gas	EthosEnergy	2017	RFC	OH	Construction Begun	700	\$ 900,000	No	9/1/16	\$ 1,286
CPV Valley Energy Center	Combined Cycle	Gas	CPV Valley LLC	2018	NPCC	NY	Construction Begun	720	\$ 900,000	No	6/3/15	\$ 1,250
La Paloma Energy Center	Combined Cycle	Gas	La Paloma Energy Center LLC	2019	TRE	TX	Advanced Development	735	\$ 650,000	No	5/2/13	\$ 884
Lordstown Generating Station	Combined Cycle	Gas	Siemens Energy, Inc.	2018	RFC	OH	Construction Begun	940	\$ 900,000	No	1/4/17	\$ 957
Moundsville Power Project	Combined Cycle	Gas	Moundsville Power LLC	2019	RFC	WV	Advanced Development	673	\$ 700,000	No	6/15/16	\$ 1,040
Napanee Generating Station (Oakville)	Combined Cycle	Gas	TransCanada Energy Ltd.	2018	NPCC		Construction Begun	999	\$ 1,048,950	Yes	3/1/17	\$ 1,050
PSEG Keys Energy Center (KEC)	Combined Cycle	Gas	PSEG Fossil LLC	2018	RFC	MD	Construction Begun	755	\$ 875,000	No	1/12/16	\$ 1,159
Salem Harbor Station NGCC	Combined Cycle	Gas	NAES Corporation	2017	NPCC	MA	Construction Begun	674	\$ 1,000,000	No	3/27/14	\$ 1,484
Sewaren Gas Power Plant	Combined Cycle	Gas	PSEG Fossil LLC	2018	RFC	NJ	Construction Begun	540	\$ 600,000	No	5/17/17	\$ 1,111
St. Charles Power Station	Combined Cycle	Gas	Entergy Louisiana, LLC	2019	SERC	LA	Construction Begun	945	\$ 992,250	Yes	5/4/17	\$ 1,050
Tenaska Brownsville Generating Station	Combined Cycle	Gas	Tenaska Inc.	2019	TRE	TX	Advanced Development	800	\$ 880,000	Yes	7/8/14	\$ 1,100
Towantic Energy Center	Combined Cycle	Gas	North American Energy Services	2018	NPCC	CT	Construction Begun	805	\$ 1,000,000	No	8/15/14	\$ 1,242
W.S. Lee Combined Cycle Project	Combined Cycle	Gas	Duke Energy Carolinas, LLC	2017	SERC	SC	Construction Begun	750	\$ 750,000	No	5/2/17	\$ 1,000
Westmoreland Generating Station	Combined Cycle	Gas	Tenaska Energy Inc	2018	RFC	PA	Construction Begun	925	\$ 971,250	Yes	4/21/16	\$ 1,050
York 2 Energy Center	Combined Cycle	Gas	Calpine Corporation	2018	RFC	PA	Construction Begun	874	\$ 961,400	Yes	8/1/14	\$ 1,100
	Mean											\$ 1,113
Eagle Valley CC	Combined Cycle	Gas	Indianapolis Power & Light Company	2018	RFC	IN	Construction Begun	671	\$ 711,877			\$ 1,061