KEOUGH + SWEENEY, LTD.

ATTORNEYS AND COUNSELORS AT LAW
41 MENDON AVENUE
PAWTUCKET, RHODE ISLAND 02861
TELEPHONE (401) 724-3600
FACSIMILE (401) 724-9909
www.keoughsweeney.com

RAYNHAM OFFICE: 90 NEW STATE HIGHWAY RAYNHAM, MA 02109 TEL. (508) 822-2813 FAX (508) 822-2832 JOSEPH A. KEOUGH JR.* JEROME V. SWEENEY III*

SEAN P. KEOUGH*

JEROME V. SWEENEY II OF COUNSEL

*ADMITTED TO PRACTICE IN RHODE ISLAND & MASSACHUSETTS

BOSTON OFFICE: 171 MILK STREET SUITE 30 BOSTON, MA 02109 TEL. (617) 574-0054 FAX (617) 451-1914

January 14, 2022

Hand Delivery

Ms. Luly Massaro, Clerk Rhode Island Public Utilities Commission 89 Jefferson Boulevard Warwick, RI 02888

Re: Providence Water Supply Board – Docket 4994

Dear Ms. Massaro:

Enclosed herewith please find an original and nine copies of the following document:

1. Surrebuttal Testimony of Michael R. Maker on behalf of the Bristol County Water Authority.

Please be advised that an electronic copy of this document has been sent to the service list. Thank you for your attention to this matter.

Sincerely,

Joseph A. Keough, Jr.

Sough all ph Jr

JAK/kf Enclosures

cc: Service List (via email)

STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISSION

SURREBUTTAL TESTIMONY

of

MICHAEL R. MAKER

NEWGEN STRATETGIES AND SOLUTIONS, LLC

ON BEHALF OF

THE BRISTOL COUNTY WATER AUTHORITY

IN RE:

PROVIDENCE WATER SUPPLY BOARD

COST OF SERVICE STUDY COMPLIANCE FILING

DOCKET 4994

JANUARY 14, 2022

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1	<u>I. INT</u>	RODUCTION
2	Q.	Please state your name and business address.
3	A.	My name is Michael R. Maker. My business address is 911-A Commerce Road,
4		Annapolis, Maryland 21401.
5		
6	Q.	By whom are you employed and in what capacity?
7	A.	I am an Executive Consultant with NewGen Strategies and Solutions, LLC ("NewGen"),
8		an economic and management consulting firm that focuses on municipal utilities,
9		especially water, wastewater, solid waste, and stormwater.
10		
11	Q.	Are you the same Michael Maker who provided direct and surrebuttal testimonies
12		on behalf of the Bristol County Water Authority in Providence's original filing in this
13		Docket and direct testimony related to Providence's April 1, 2021 compliance filing?
14	A.	Yes, I am.
15		
16	Q.	Can you provide an overview of your compliance filing surrebuttal testimony?
17	A.	Yes. I will begin by addressing the rebuttal testimony filed by Harold Smith and Gregg
18		Giasson on behalf of Providence related to its compliance filing, and then I will
19		address the direct testimonies submitted by the Division's witness Jerome Mierzwa;
20		Greenville/Lincoln's witnesses, Jason Mumm and Dr. Ivor Ellul; and, Smithfield's
21		witness, John Guastella.
22		
23	II. PR	OVIDENCE'S REBUTTAL TESTIMONY
24	Q.	After reviewing Providence's rebuttal testimony, have you changed your opinion
25		that T&D unit costs should not be allocated using data from Pare's hydraulic model
26		as proposed by Providence?

27

A.

No, I have not.

In your direct compliance testimony, you reviewed the five issues the Commission 1 Q. 2 ordered Providence to address in a revised COSS, and you pointed out that 3 Providence made additional changes that were not ordered by the Commission. 4 Have you changed your position on this matter after reviewing Providence's 5 rebuttal testimony? 6 No, I have not. In Mr. Smith's compliance rebuttal testimony, he acknowledges the A. 7 five issues the Commission ordered Providence to examine. (Smith Compliance Rebuttal, p. 1, l. 25 to p. 2, l. 2) Mr. Smith goes on to say that "The Order states that 8 9 the new COSS should, at a minimum, address these specific issues." However, I do 10 not see this language in the Order. The only reference to the word "minimum" is on page 15 in referencing Jerome Mierzwa's testimony that one principle of rate design 11 is to "provide stability and predictability of the rates themselves, with a minimum of 12 13 unexpected changes seriously adverse to ratepayers or the utility (gradualism)..." 14 On page two of his testimony, Mr. Smith states the "Order is clear that the New 15 Q. 16 COSS is intended to be a refinement of the Amended Settlement Agreement COSS 17 (ASA COSS), not a complete departure from it." Do you agree with this statement? 18 A. I agree with Mr. Smith's characterization of the Order, and for a number of reasons, it is my position that the Revised COSS is more than a refinement. It is a significant 19 20 departure from the ASA COSS due to the allocation of T&D unit costs based on the 21 hydraulic modeling data. The hydraulic modeling data should not be used in the 22 Revised COSS to allocate T&D unit costs. 23 24 Why do you believe that Pare's hydraulic modeling data should not be used to Q. 25 allocate T&D unit costs?

26

A.

The reasons are as follows:

1. Contrary to Mr. Smith's compliance rebuttal testimony, the hydraulic modeling data does not allocate "the costs associated with constructing, operating, and maintaining the T&D system in a way that better reflects how these assets are used to meet both the average and peak demands of each wholesale customer than if these costs had been allocated based on peaking factors." (Smith Compliance Rebuttal, p. 6, II. 3-5) In fact, the hydraulic modeling data does not reflect the average and peak demands of each wholesale customer.

9 2. As Mr. Smith acknowledges in his compliance rebuttal testimony, the Revised COSS 10 used two cost allocation approaches, the base-extra cost capacity method and the 11 allocation of T&D unit costs using hydraulic modeling data. (Smith Compliance 12 Rebuttal, p. 4, II. 18-21) The first of these – the base-extra capacity method – is recognized as one of two generally accepted methods of cost allocation by the 13 14 American Water Works Association (AWWA) Manual M1, Principles of Water Rates, Fees, and Charges (7th Edition) ("M1 Manual"). The other is not, and Mr. Smith did

any other jurisdiction of which I am aware.

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3. The Commission did not order Providence to change the cost allocation methodology employed in the ASA COSS, and the use of two different cost allocation methods produces wholesale rates that are a significant departure from the rates approved by the Commission in the ASA COSS.

not address the fact that this methodology has never been used in this jurisdiction or

- 4. The hydraulic modeling data may be flawed, and neither Mr. Smith nor Mr. Giasson addressed this issue in their rebuttal testimonies.
- 27 Let's begin with Providence's use of the hydraulic modeling data to allocate T&D Q. 28 costs. Mr. Smith's rebuttal testimony continues to maintain that this is a more 29 accurate way to allocate these costs. Why do you disagree with this testimony?
- 30 To start with, I think it is important to recall Mr. Smith's testimony when Providence Α. 31 made its original filing in this Docket back in December 2019:

"I developed the cost of service analysis using the "Base-Extra Capacity Method" as outlined in the American Water Works Association's Manual M1: "Principles of Rates, Fees and Charges." This approach allocates costs to customer classes in proportion to their use of the Providence Water system. Under this approach, costs are primarily allocated based on peak demand, both on a maximum day and maximum hour

basis. The rationale for this approach lies in the manner in which a water system is designed.

Water systems are designed to deliver water to customers to meet **both average and peak usage demands**. Accordingly, treatment, storage and pumping facilities must be designed with additional capacity to meet the peak demands, in addition to average demands. In addition, **transmission and distribution mains must also be oversized to allow for additional flow during peak demand periods**. The capacity built into Providence Water's infrastructure represents an additional cost which is incurred above and beyond what would be the case if customers used water at the same rate every day and throughout the day.

Given that that additional costs are included to provide this additional capacity, the question then becomes how those costs should be recovered from the users of the water system. The Base-Extra Capacity Method assigns costs to users in proportion to both *their* average day demands and *their* extra capacity demands. For example, costs which are included to provide maximum day service are allocated to users in proportion to *their* maximum day usage above and beyond *their* average day usage. This approach recovers extra capacity costs from customers whose extra capacity demands drive the need for the larger water system. (Smith Direct, p. 14, l. 17 to p. 15, l. 8, emphasis added)

As I pointed out in my direct compliance testimony, Pare ran its hydraulic model based on two days: May 24, 2018 for average day and July 13, 2016 for both maximum day and maximum hour. These dates represent the average day, max day, and max hours for Providence's *entire* system. They are not the average day, max day, and max hours for each individual wholesale customer.

Α.

Q. Why is this a problem?

It is a problem because the hydraulic modelling data does not capture how each wholesale customer uses the system during <u>their</u> individual average days, max days, and max hours. I won't repeat my direct compliance testimony, but as pointed out on pages 20-23, the May 4, 2021 Technical Session clearly established that the hydraulic modeling data is not representative of each wholesale customer's use of the system

on their individual average day, max day, and max hour. So, by using the hydraulic modeling data, T&D costs are *not* allocated to users in proportion to both *their* average day demands and *their* extra capacity demands, which is how costs should be allocated under the Base-Extra Capacity Method set forth in the M1 Manual.

- Q. But Mr. Smith's compliance rebuttal testimony points out that the BCWA's legal counsel asked Providence to run a hydraulic model. Doesn't that contradict the BCWA's position?
- A. No, I don't believe it does.

First, in my direct testimony, I acknowledged that the hydraulic modeling data can serve some purposes. As Mr. Smith noted, the ASA COSS separated transmission (12 inches and less) and distribution (12 inches and greater) mains strictly by diameter. So, for instance, in this Docket, the BCWA originally argued that it should not be allocated any unidirectional flushing costs because Providence only flushes mains in the system that are 12 inches and below. The BCWA maintained that it was not served by any mains 12 inches and below. Thus, a hydraulic model would be able to prove or disprove the BCWA's argument on this issue.

Second, the portion of the letter highlighted in Mr. Smith's testimony states: "This hydraulic model could be run for average day and peak day and should be able to determine the percentage capacity of each storage tank, pump station, and section of transmission main attributable to each wholesale customer." However, the hydraulic model does not measure the percentage capacity of each storage tank, pump station, and section of transmission main attributable to each wholesale customer during each wholesale customer's average day and peak day. So, from my perspective, Pare's hydraulic model does not adequately assign T&D costs.

Thus, while the hydraulic model can be used to determine which size pipes individual wholesale customers use, using the hydraulic model to allocate T&D costs is a step too far.

Α.

Q. How so?

As Mr. Smith stated in his compliance rebuttal, "T&D costs are allocated based on data generated by the hydraulic model using essentially two steps. First the mains which are used by a customer are determined." (Smith Compliance Rebuttal, p.5, II. 8-9). As I stated above, I agree that the hydraulic model can be used for this purpose and the allocation of costs such as unidirectional flushing. However, Mr. Smith goes on to state: "Second, the proportion of those mains (based on relative draw rates) is determined. In other words, the hydraulic model approach identifies the universe of mains that each customer uses and determines each customer's proportionate share of those mains only. The result is a breakdown of mains by length and diameter for each individual wholesale customer and retail (in total). T&D costs were allocated based on each class's proportionate share of the water mains." (Id. at II. 9-14, emphasis added)

As Providence acknowledged at the technical session, the hydraulic model only "determines each customer's proportionate share of the water mains" used on the two days the hydraulic model was run – May 14, 2018 for average day and June 13, 2016 for max day and max hour – which are not the average day, max day and max hour for each individual wholesale customer. Thus, we don't know what each wholesale customer's proportionate use of water mains is under those three conditions.

- Q. Let's now turn to Providence's use of two cost allocation approaches the baseextra cost capacity method and the allocation of T&D costs using hydraulic
 modeling data in the same cost of service study. Do you agree with this method
 for allocating costs?
- 5 A. No, I do not.

A.

Q. Please explain why you disagree.

First, as I pointed out in my direct compliance testimony, the M1 Manual sets the industry standard for generally accepted ratemaking principles, and the Base-Extra Capacity method is one of two of the most widely recognized and accepted methods of allocating water utility costs to customers (the other being the Commodity-Demand Method). The M1 Manual does not provide for the allocation of T&D costs (or any costs) based on hydraulic modeling, especially at times that may not reflect the actual average day, max day, and max hour of wholesale customers. As I also stated in my direct testimony, the phrase "draw rate" does not appear at all in the M1 Manual, and the word "hydraulic" appears exactly once:

"Another approach to determining distribution versus transmission mains, though less common in practice and more complex to perform, is to use system hydraulic analyses to determine which water mains, by size diameter and location, function as transmission mains." (P. 303)

This suggests that a hydraulic model could be used to distinguish between transmission mains (typically used by wholesale and retail customers) and distribution mains (typically used only by retail customers). As I have stated on several occasions, I believe a hydraulic model can be used for this purpose, but there is nothing in the M1 Manual to suggest that T&D unit costs should be calculated based on hydraulic modelling data derived from days that may not be a wholesale

customer's average or max day and from hours that may not be a wholesale 1 2 customer's max hour. 3 4 Mr. Smith's compliance rebuttal testimony suggests that he used the two Q. 5 methodologies because the hydraulic modeling data provides more accurate data 6 to assign T&D costs. Do you agree? 7 A. No. Mr. Smith testified that "Two different approaches were used, but each 8 represents the best and most accurate approach for that component of the system." 9 (Smith Compliance Rebuttal, p. 7, ll. 16-17) He went on to state that "The reason two 10 approaches were used is because Providence Water now has a more precise method for determining how each customer class uses its T&D system." (Id., II. 26-27) I 11 disagree with his position because the hydraulic modeling data does not determine 12 13 how each wholesale customer uses the T&D system under their individual average 14 day, max day, and max hour. As Pare acknowledged at the technical session, hydraulic modeling "utilizes a lot of averaging", so it does not precisely determine 15 16 how each wholesale customer uses the T&D system. 17 In your direct compliance testimony, you indicated that you were not aware of 18 Q. hydraulic modeling data being used to allocate T&D unit costs in this jurisdiction or 19 20 any other jurisdiction you are aware of, and, to your knowledge, Mr. Smith has 21 never previously employed the use of such a methodology. Did Providence address 22 this issue in its rebuttal testimony? 23 No. A. 24 25 Q. Is this still a concern? 26 Yes. This seems to be a new method for allocating costs, and as stated above, the M1 Α. 27 Manual does not address this methodology. Furthermore, it does not seem

1 consistent with the Base-Extra Capacity Method set forth in the M1 Manual, which 2 seeks to allocate costs based on peak demand, both on a maximum day and 3 maximum hour basis. 4 5 Going back to the Commission's Order directing Providence to submit a revised cost Q. 6 of service study, did the Commission direct Providence to change the Base-Extra 7 **Capacity Methodology used in the ASA COSS?** 8 No, the Commission set forth five issues it wanted Providence to address. The Order A. 9 does not direct Providence to change the cost allocation methodology used in the 10 ASA COSS. In addition, Providence indicated that it wanted to address "nuances" 11 involved in serving each wholesale customer. However, by implementing this new cost allocation methodology, Providence has not addressed how each wholesale 12 customer uses the system under their individual average day, max day, and max 13 14 hours. Further, the rates produced by implementing the new cost allocation 15 methodology are a significant departure from the rates approved by the Commission 16 in the ASA COSS, which I addressed on pages 26 and 27 of my direct compliance 17 testimony. 18 19 In your direct compliance testimony, you indicated that the hydraulic modeling Q. 20 data may be flawed. Did either of Providence's witnesses address this issue in their 21 rebuttal testimonies? 22 Α. No, they did not. 23 24 Did Providence's witnesses address any other issues you raised in your direct Q. 25 compliance testimony? 26 Yes. Mr. Smith addressed two specific sections of my testimony. The first is my A. 27 testimony on page six, where I directly quoted Mr. Smith's testimony from Docket

3832, which acknowledged that Providence's single wholesale rate had not resulted from a formal cost of service study. Mr. Smith goes on to state: "With regard to my testimony that Mr. Maker references from Docket 3832, Mr. Maker seems to be implying that Providence Water's wholesale rates have historically not been calculated using cost of service principles, when in fact the purpose of my testimony in that docket was to explain that the proposed increases to wholesale rates were greater than the proposed increases to retail rates because wholesale rates in the previous docket (Docket 3684) had been set to recover less than the full cost of providing wholesale service while retail rates had been set to recover more than the cost of providing retail service." (Smith Compliance Rebuttal, p. 10, II. 21-27)

A.

Q. Were you making this implication?

No. This portion of my testimony was in the section entitled "Docket 4994 And Providence's Cost Of Service Study History" in which I was simply reviewing Providence's history regarding cost of service studies. I don't believe it is disputed that Providence had not submitted a formal cost of service in many years, which is why, in 2017, the Commission ordered Providence to "complete and submit a new cost of service study conducted without reference to previously used Commission allocators" in its next general rate filing. (See Docket 4618, Order No. 23666).

- Q. Mr. Smith also referenced your direct compliance testimony in that same section about his cost of service studies for Newport Water. Do you agree with his characterization of your testimony?
- A. No. Again, my testimony referencing Mr. Smith's cost of service studies for Newport
 Water is in the section of my testimony on the history behind Providence's
 submission of its original cost of service study in Docket 4994 and the litigation in that
 docket. The question was asked whether the BCWA had any other objections to

Providence's proposal for a single wholesale rate in Providence's original cost of service study. I responded that one of the BCWA's objections was that Mr. Smith, during his representation of Newport, had calculated individual wholesale rates for Newport's two wholesale customers – the Portsmouth Water and Fire District and the United States Navy – using those customers' peaking factors. The significance of this testimony was that if individual rates could be calculated by Mr. Smith and approved by the Commission for Newport's wholesale customers, then the same could be done for Providence's wholesale customers.

In his Compliance Rebuttal testimony, Mr. Smith confirms that my testimony was accurate as he states: "With regard to the wholesale rates calculated for Newport Water, it is true that those rates are determined in part by using peaking factors for the individual wholesale customers..." (Smith Compliance Rebuttal, p. 11, II. 1-2) However, Mr. Smith goes on to state: "... but Mr. Maker fails to recognize that peaking factors play no part in the allocation of T&D costs to Portsmouth Water and Fire District and have only a small impact on the allocation of T&D costs to the US Navy."

- Q. Did you ever testify that Mr. Smith allocated the Portsmouth Water and Fire District's T&D costs using peaking factors?
- A. No. Again, I was merely recounting that one of the BCWA's original objections to
 Providence's proposal for a single wholesale rate was that Mr. Smith had calculated
 individual rates for Newport's wholesale customers in cost of service studies he
 prepared for Newport.

III. DIVISION'S DIRECT TESTIMONY

- 2 Q. Did the Division make any recommendations regarding Providence's Revised COSS?
- 3 A. Yes, Mr. Mierzwa suggested that the demands of retail customers who don't require
- 4 pumping (those in the "low service system") should be excluded from the allocation
- of pumping costs. In its rebuttal testimony, Providence agreed to make this change.
- The BCWA does not take a position on this issue and will not object to this change.

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IV. LINCOLN/GREENVILLE DIRECT TESTIMONY

- Q. Do you have any observations or comments on the direct compliance testimony submitted by Lincoln/Greenville?
- 11 A. Yes. I reviewed the testimonies of Jason Mumm and Dr. Ivor Ellul, and I have some observations and comments on both of their testimonies.

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- Q. Let's start with Mr. Mumm. What observations and comments do you have regarding his testimony?
- 16 A. On pages 7 through 10 of Mr. Mumm's testimony, he points out that Providence used 17 two different peaking factors – one to allocate T&D costs and another to allocate all 18 other costs. Mr. Mumm refers to the coincidental peaking factors for the wholesale customers derived from the hydraulic study as "more precise" than the non-19 20 coincidental peaking factors. Included in that section of his testimony, he states that 21 "Providence's decision to use coincidental peaks to allocate some costs and 22 noncoincidental to allocate others is both irrational and inconsistent" and that 23 "Providence could address these issues by choosing one method of calculating peak 24 demand and then applying it the same way throughout the cost allocation process, much like it had done in its original filing." (Mumm Compliance Direct, p. 8, 1.22 to p. 25

9, l. 1 and p. 9, ll. 11-13) Mr. Mumm then suggests that Providence should align all

peaking factors with the Pare analysis. (Id. p. 9, II. 13-18) Yet, Mr. Mumm states that

the "Pare analysis almost certainly misallocates the costs of the T&D network." (Id. p. 13, I. 18) In response to BCWA Data Request 1-4, Mr. Mumm made clear that he referred to the Pare analysis as "more precise" because that is how Providence referred to the analysis. Mr. Mumm also maintained his position that using two measures of demand in the same cost of service study is not reasonable.

A.

Q. Do you agree with Mr. Mumm's position?

As stated above, I agree that Providence should not have used the base-extra capacity method to allocate most costs and then used the hydraulic modelling data to allocate T&D unit costs. Providence should use one method – the base-extra capacity method – to allocate all costs. I do not believe that Pare's hydraulic modelling data is more precise for the purpose of allocating T&D unit costs for all the reasons set forth in my direct compliance testimony and my surrebuttal compliance testimony above.

A.

Q. Do you have any observations or comments about Dr. Ivor Ellul's testimony?

Yes. Dr. Ellul's testimony seems to address many of the concerns I raised in my direct testimony regarding the use of Pare's hydraulic modeling data. In particular, the May 4, 2021 Technical Session confirmed that Pare's hydraulic model is merely a snapshot in time; yet, it is being used to develop allocations that are likely to remain in effect for many years. Further, this snapshot does not provide a picture of how each individual wholesale customer uses the system on their average day, max day, and max hour. Dr. Ellul testified that:

"Thus the approach taken by Pare represents, at best, an approximation of the manner in which the pipeline network actually behaves. Pipeline networks tend to operate in a highly dynamic manner. As Pare showed during its demonstration at the technical session in this docket, in a situation with multiple pumps running, the demand pattern for a customer can change from 40% to 170% in a time span of 6

hours. This calls into question the accuracy of the steady-state approach Pare 1 undertook." (Ellul Compliance Direct, p. 3, Il. 10-16) 2 3 4 Dr. Ellul also testified that: 5 6 "...there is reason to believe that the inch-mile calculations do not accurately portray 7 the actual usage of the T&D infrastructure by the wholesale customers, thus giving a 8 sense of false precision to the overall analysis." (Ellul Compliance Direct, p. 5, Il. 17-9 19) 10 11 Q. Did Dr. Ellul make any recommendations? 12 Yes, it was Dr. Ellul's position that there were flaws in Pare using a steady-state Α. 13 model instead of a dynamic or pseudo-dynamic model such as an Extended Period Simulation ("EPS") model, and he recommended that Pare run the latter. 14 15 16 Do you agree with this recommendation? Q. 17 A. As I stated in my direct testimony, hydraulic modeling is not within my area of 18 expertise, so I can't say for certain whether an EPS model would show the conditions 19 for each individual wholesale customer's average day, max day, and max hour. 20 Furthermore, I still think Providence needs to show that using Pare's hydraulic 21 modeling data is an appropriate method under generally accepted ratemaking 22 principles to allocate T&D unit costs. And if it is, I also think Providence needs to 23 demonstrate that using two different methods of allocating costs in the same cost of 24 service study is consistent with generally accepted ratemaking principles. 25 26 **V. SMITHFIELD DIRECT TESTIMONY** 27 Q. What are your observations and comments regarding Mr. Guastella's direct 28 compliance testimony? 29 Mr. Guastella recommends that the proposed rates for Smithfield "using the existing A. COSS provided by" Providence not be implemented because of the size of the 30

increase and because Smithfield is exploring the development of its own water sources. (Guastella Compliance Direct, p. 7 ll. 20-21)

A.

Q. Are these valid objections?

No, I don't believe they are. First, I am not sure what rates Mr. Guastella proposes to be implemented. In the ASA COSS, Smithfield would have seen a 29.50% increase in FY 2021 without gradualism, and it saw an actual increase in FY 2021 of 22.83% with gradualism. In my Direct Compliance Testimony, I proposed a 19.83% increase for Smithfield in FY 2022, which has been decreased to 17.66% in my surrebuttal schedules as addressed below. In Providence's Supplemental Rebuttal Compliance testimony, it requests a 47.45% increase for Smithfield in FY 2022 without gradualism and a 12% increase with gradualism. So, some increase will have to be imposed on Smithfield.

I won't recount the entire history of how the parties arrived here, but in 2017 the Commission requested that Providence submit a cost of service study in its next general rate filing. In 2019, Providence submitted its original cost of service study in this Docket, and there was extensive litigation over this original cost of service study. We are now less than two months away from hearings on the revised cost of service study, and we should not abandon the efforts to set cost of service based rates now. It is clear that Smithfield will experience an increase because, under any of the competing scenarios in this Docket, Providence is not recovering the cost to service Smithfield. As a result, other customers are providing a subsidy. This violates generally accepted ratemaking principles, which dictate that a utility should charge rates to its customers that are based on, and proportionate to, the costs incurred to serve its different customers.

Furthermore, simply because Smithfield may develop its own water sources in the future is not a valid reason to postpone the implementation of cost of service based rates now. This is especially true because Smithfield's plan for developing its own water sources seems tenuous at this point. Attached to Mr. Guastella's testimony is a "New Water Supply Exploration" report from BETA Group, Inc. ("BETA Report"). This report indicates that the typical well development process consists of three phases. Phase I is approximately 20 weeks, and Phase II is approximately 18 months. BCWA Data Request 1-3 to Smithfield asked how long Phase III is estimated to take from beginning to completion, and Smithfield responded that "It is premature to estimate the time to complete the well project(s)." In addition, the BETA Report indicated that the costs of Phases I and II range from \$90,000 to \$350,000, but it did not include costs for Phase III. The BETA Report also stated that the cost estimates include the cost to install and test the well only; it does not include the additional infrastructure costs. BCWA Data Request 1-4 asked for the anticipated cost of Phase III, and BCWA Data Request 1-5 asked for the additional infrastructure costs. In response to both data requests, Smithfield stated that the cost to complete the development of Smithfield's "alternate water sources and related facilities has not been estimated." Thus, cost of service based rates should not be delayed when Smithfield does not know the time or costs needed to develop alternate water sources.

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VI. BCWA'S AMENDED SCHEDULES

- Q. Do you continue to maintain that rates should be allocated according to the
 methodology set forth in your Direct Compliance Testimony?
- 4 A. Yes. I do.

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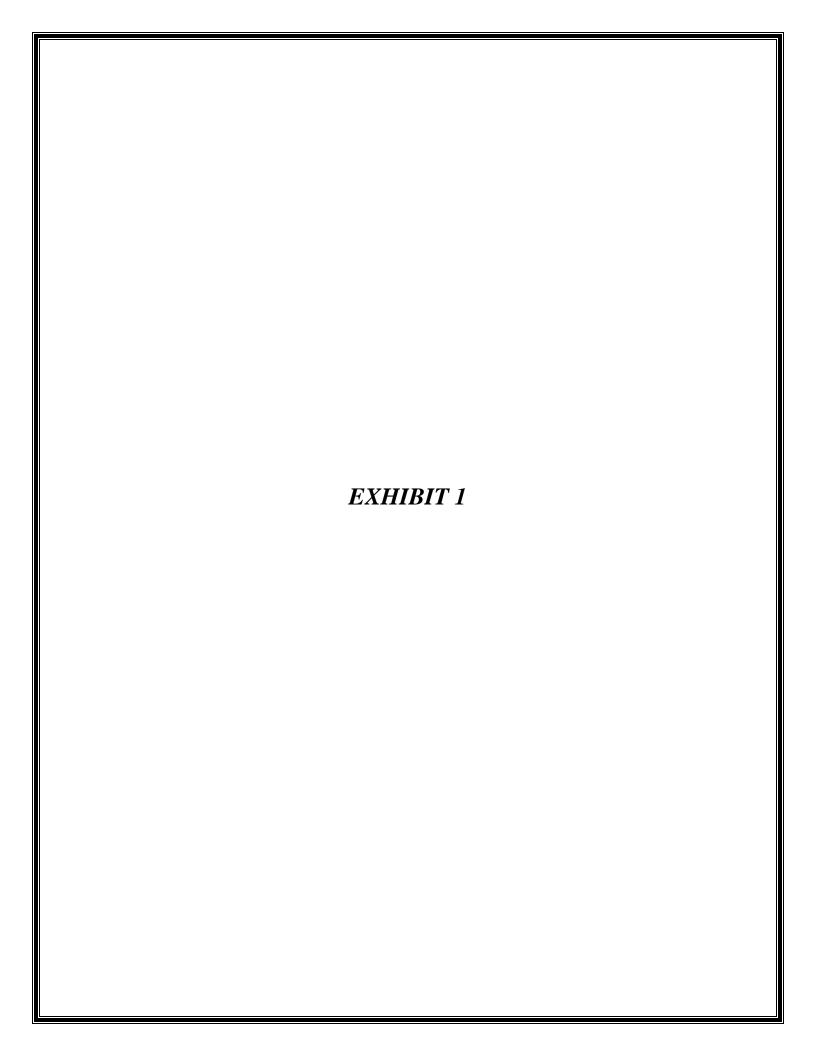
- Q. Have you prepared amended schedules that document the BCWA's position in thismatter?
- A. Yes, and they are attached to my testimony as Exhibit 1. These schedules are the same schedules attached to my direct testimony, and I have updated them to incorporate Providence's most recent model attached to Harold Smith's supplemental rebuttal testimony ("Dk 4994 Supplemental Rebuttal Model v12-15-2021 (1).xlsm"):
 - Schedule HJS-13d: T&D Labor Allocation (Factor 21) (Amended Surrebuttal by Michael R. Maker) This schedule calculates "Factor 21 As T&D Work/Service Orders". As noted in my direct compliance testimony, I replaced the cost allocations for this factor (which were not split between CTA and Retail Only) with those from the ASA model (which were split between CTA and Retail Only).
 - Schedule HJS-13e: T&D Contract Services Allocation (Factor 22) (Amended Surrebuttal by Michael R. Maker) - This schedule calculates "Factor 22 - As T&D Contract Services". As noted in my direct compliance testimony, I replaced the cost allocations for this factor (which were not split between CTA and Retail Only) with those from the ASA model (which were split between CTA and Retail Only).
 - Schedule HJS-13f: Net Plant In Service (Factors 23, 24, 25, 26) (Amended Surrebuttal by Michael R. Maker) This schedule calculates four factors:
 - o Factor 23 As T&D Plant Excl. M&S, Land, Structures

1	 Factor 24 - As Total Plant Excl. General Plant
2	o Factor 25 - As Total Plant Excl. Land, COF
3	 Factor 26 - As Total Plant Excl. Land
4	As noted in my direct compliance testimony, I did not replace any factors, but
5	I put the split between "Transmission Mains" (40% CTA) and "Distribution
6	Mains" (60% Retail Only) back in from the ASA model.
7	Schedule HJS-16d: Summary of Customer Class Units of Service (Amended)
8	Surrebuttal by Michael R. Maker) – As noted in my direct compliance
9	testimony, I replaced the Demand in Inch-Miles with Demand in HCF (as was
10	included in the ASA).
11	• Schedule HJS-17: Unit Cost of Service (Amended Surrebuttal by Michael R.
12	Maker) – The common to all (base, max day, and max hour) units of service
13	were linked from Schedule HJS-16d: Summary of Customer Class Units of
14	Service (Amended by Michael R. Maker).
15	 Schedule HJS-18: Customer Class Cost of Service (Amended Surrebuttal by
16	Michael R. Maker) – The common to all (base, max day, and max hour) units
17	of service were linked from Schedule HJS-16d: Summary of Customer Class
18	Units of Service (Amended by Michael R. Maker).
19	 Schedule HJS-19: Development of Volumetric Rates (Amended Surrebuttal by
20	Michael R. Maker) – The unit costs and units were linked from Schedule HJS-
21	17: Unit Cost of Service (Amended by Michael R. Maker) and Schedule HJS-
22	16d: Summary of Customer Class Units of Service (Amended by Michael R.
23	Maker), respectively, to calculate rates.
24	 Schedule HJS-22a: Proposed Rates (Amended Surrebuttal by Michael R.
25	Maker) – The rates from Schedule HJS-19: Development of Volumetric Rates
26	(Amended by Michael R. Maker) were linked to provide a summary of rates,
27	revenue, and percent change.

VII. CONCLUSION

- 2 Q. Do you have any additional issues you would like to address?
- 3 A. Not currently, but I reserve the right to address any further changes Providence
- 4 makes or requests or which the Division or other intervenors raise in this filing. Also,
- 5 to the extent that any further issues are raised through ongoing data requests, I
- 6 reserve the right to address these issues as well. Finally, if I discover or otherwise
- 7 learn of additional issues that could impact the wholesale rates, I reserve the right to
- 8 address those issues.
- 9

- 10 Q. To the extent you have not addressed any other party's position on a particular
- issue within your testimony, does that indicate that you agree with their position?
- 12 A. No. My silence on a particular issue does not necessarily indicate my agreement with
- another party's position, and my failure to address a particular topic should not be
- construed as my tacit agreement with another party's stated position.
- 15
- 16 Q. With these exceptions, does this conclude your surrebuttal testimony?
- 17 A. Yes, It does.



				CT/	A - Transmissi	on & Distributio	n	CTA - Supp	ly, Treatment &	Low Service	Hig	h Service & R	letail			Retail			
Description	Year	Factor	Total	Base	Max Day	Max Hour	Base	Base	Max Day	Max Hour	Base	Max Day	Max Hour	Base	Max Day	Max Hour	Meters & Services	Billing & Collection	Direct Fire
Description	Teal	1 actor	Total	HCF	HCF/d	HCF/d	HCF	HCF	HCF/d	HCF/d	HCF	HCF/d	HCF/d	HCF	HCF/d	HCF/d	5/8" Eq.	Bills	6" Eq.
Hydrant - Install	2017	17		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 189,318
Hydrant - Install Custodian	2017			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,573
Hydrant - Maintenance	2017			Ψ.	\$ -	Ÿ	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,525
Hydrant - Relocate Existing	2017	17		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,852
Hydrant - Remove	2017	17	\$ 92,751	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 92,751
Hydrant - Repair Service - Curb Box - Adjust to Grade	2017	17	\$ 135,902	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 135,902
Service - Curb Box - Adjust to Grade Service - Curb Box - Check	2017 2017	14 14	\$ 18,097 \$ 45,865	\$ - \$ -	\$ -	5 -	5 -	\$ -	\$ -	\$ -	\$ -	5 -	5 -	\$ -	\$ -	\$ -	\$ 18,097 \$ 45,865	\$ -	5 -
Service - Curb Box - Dig Up	2017	14	Ψ 101000	s -	Φ - ¢ -	s -	υ - ¢ -	\$ -	\$ -	Ф -	s -	• -	9 - e -	Φ -	\$ -	\$ - \$ -	\$ 180,976	\$ -	\$ - \$ -
Service - Curb Stop - Close	2017	14	\$ 100,570	s -	\$ -	\$ -	υ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,970	\$ -	\$ -
Service - Curb Stop - Locate	2017	14	T	š -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.168	\$ -	\$ -
Service - Curb Stop - Repair	2017	14	\$ 12,022	š -	\$ -	\$ -	š -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,022	\$ -	\$ -
Service - Dig Up For Meter	2017	14	\$ 3,995	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,995	\$ -	\$ -
Service - Install - IFR	2017	14	\$ 134,678	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 134,678	\$ -	\$ -
Service - Install - T&D	2017	14	\$ 281,647	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 281,647	\$ -	\$ -
Service - Remove	2017	14		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 153,262	\$ -	\$ -
Service - Repair Leak	2017	14		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 178,649	\$ -	\$ -
TD Misc - Miscellaneous Maint	2017	Indirect			\$ 254	\$ 417	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,536	\$ 0	\$ 552
Valve - Adjust Gate Box	2017	3			\$ 7,726	\$ 12,687	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Check / Inspect	2017	3					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Install	2017	3					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Locate Valve - Remove	2017	3					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Renove Valve - Repair / Repack	2017 2017	3					\$ - \$ -	\$ -	\$ -	\$ -	\$ -	5 -	5 -	\$ -	5 -	\$ -	5 -	\$ -	\$ -
Valve - Replace Box Cover	2017						\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Main - Install	2017	3					ъ - \$ -	\$ - ¢ -	\$ - ¢ -	\$ - e -	\$ -	\$ - e -	3 - e -	5 - e -	\$ - ¢ -	\$ - ¢ -	3 - e -	\$ - ¢ -	\$ - ¢ -
Water Main - Remove	2017	3					э - \$ -	\$ -	\$ -	Ф -	s -	• -	9 - e -	Φ -	\$ -	\$ - \$ -	s -	\$ -	\$ - \$ -
Water Main - Repair Leak	2017	3					s -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Blowoff - Inspect	2018						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Blowoff - Install	2018	3					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Blowoff - Locate	2018	3				\$ 203	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Blowoff - Remove	2018	3	\$ 2,048	\$ 676	\$ 519	\$ 853	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Blowoff - Repair	2018			\$ 3,057	\$ 2,348	\$ 3,855	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Hydrant - Check / Inspect	2018			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,350
Hydrant - Close	2018			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 902
Hydrant - Flush	2018			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 406
Hydrant - Install	2018		\$ 162,309	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 162,309
Hydrant - Install Custodian Hydrant - Maintenance	2018			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,301
Hydrant - Open	2018 2018		¥ 1,000	\$ -	\$ -	5 -	5 -	\$ -	\$ -	\$ -	\$ -	5 -	5 -	\$ -	\$ -	\$ -	5 -	\$ -	\$ 1,980 \$ 51
Hydrant - Relocate Existing	2018		\$ 51 \$ -	\$ - \$ -	ъ - е	5 -	ъ - С	ъ - е	\$ -	ъ - е	5 -	\$ -	ъ - е	ъ - е	5 -	ъ - С	5 -	ъ - С	\$ 51
Hydrant - Remove	2018		Ψ	\$ -	Φ - ¢ -	s -	υ - ¢ -	\$ -	\$ -	Ф -	s -	• -	9 - e -	Ф -	\$ -	\$ - \$ -	s -	\$ -	\$ 63,775
Hydrant - Repair	2018		\$ 130,599	\$ -	\$ -	\$ -	υ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	s -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 130,599
Hydrant - Repair/Repack Valve	2018			š -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,909
Service - Curb Box - Adjust to Grade	2018			š -	\$ -	\$ -	š -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,247	\$ -	\$ -
Service - Curb Box - Check	2018			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 46,892	\$ -	\$ -
Service - Curb Box - Dig Up	2018		\$ 179,792	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 179,792	\$ -	\$ -
Service - Curb Stop - Close	2018	14	\$ 19,119	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,119	\$ -	\$ -
Service - Curb Stop - Locate	2018			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,695	\$ -	\$ -
Service - Curb Stop - Open	2018			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,311	\$ -	\$ -
Service - Curb Stop - Repair	2018			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,965	\$ -	\$ -
Service - Curb Stop - Replace	2018			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,194	\$ -	\$ -
Service - Dig Up For Meter	2018		Ψ	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Service - Install - IFR Service - Install - T&D	2018		\$ 64,995	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 64,995	\$ -	\$ -
Service - Install - 1&D Service - Meter - Bypass Meter	2018		\$ 294,119	\$ -	\$ -	5 -	5 -	\$ -	\$ -	\$ -	\$ -	5 -	5 -	\$ -	5 -	\$ -	\$ 294,119	\$ -	5 -
Service - Remove	2018 2018		¥ 200	\$ - \$ -	ъ - е	5 -	ъ - С	ъ - е	\$ -	ъ - е	5 -	\$ -	ъ - е	ъ - е	5 -	ъ - С	\$ 205 \$ 100,614	ъ - С	ъ - е
Service - Remove Lead - CS Apps	2018			s -	Φ - ¢ -	\$ -	σ - \$ -	\$ -	\$ -	Ф -	s -	• -	9 - e -	Φ -	\$ -	\$ -	\$ 6492	\$ -	\$ - \$ -
Service - Remove Lead - TD	2018		Ψ 0,10 <u>L</u>	\$ -	\$ -	~	s -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,454	\$ -	\$ -
Service - Repair Leak	2018			-	\$ -	•	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 169,990	\$ -	\$ -
TD Misc - Miscellaneous Maint	2018			-			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,981	\$ 0	\$ 1,072
TD Misc - Pre-Mark for Digup		Indirect					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 167		\$ 60
TD Misc - Pre-Mark for Saw Cut	2018	Indirect	\$ 1,024	\$ 110	\$ 84	\$ 138	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 509	\$ 0	\$ 183
TD Misc - Trench Repair	2018					\$ 53	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 195	\$ 0	\$ 70
Trench - Check For Failure	2018	3			\$ 25		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Trench Restoration	2018						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Adjust Gate Box	2018						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Check / Inspect	2018						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Install	2018						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Locate	2018					• 0.0	\$ -	\$ -	\$ -	\$ -	•	\$ -	Ť	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Raise Gate Box To Grade	2018						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Remove	2018	3	\$ 41,701	\$ 13,769	\$ 10,572	\$ 17,360	\$ -	\$ -	\$ -	\$ -	ა -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5 -	5 -

			СТ	A - Transmissi	on & Distribution	1	CTA - Supp	ly, Treatment &	Low Service	Hig	h Service & R	etail			Reta	il Only	5,000	
Description	Year Factor	Total	Base	Max Day	Max Hour	Base	Base	Max Day	Max Hour	Base	Max Day	Max Hour	Base	Max Day	Max Hour	Meters & Services	Billing & Collection	Direct Fire
Description	Tear Factor	Total	HCF	HCF/d	HCF/d	HCF	HCF	HCF/d	HCF/d	HCF	HCF/d	HCF/d	HCF	HCF/d	HCF/d	5/8" Eq.	Bills	6" Eq.
Valve - Repair / Repack	2018 3	\$ 51.060			\$ 21,256 \$		\$ -	\$ -	\$ -	_	\$ -	_	\$ -	\$ -	\$ -	S -	\$ -	\$ -
Valve - Replace Box Cover	2018 3			\$ 285	\$ 467 \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Main - Install	2018 3				\$ 3,841 \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Main - Remove	2018 3				\$ 2,850 \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Main - Repair Leak	2018 3	\$ 137,742	\$ 45,480	\$ 34,921	\$ 57,341 \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DigSafe - Pre-Mark	2018 3	\$ -	\$ -	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Leak Detection	2018 3	\$ 642	\$ 212	\$ 163	\$ 267 \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Miscellaneous Work	2018 Indirect	\$ -	\$ -	\$ -	\$ - \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Report Leak	2018 3	\$ 3,424	\$ 1,131	\$ 868	\$ 1,425 \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Shut Down Not	2018 15	\$ 299	\$ -	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 299	\$ -
TD Collect Sample	2018 3		\$ -		\$ - \$; -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Trench - Check	2018 3	\$ 4,632	\$ 1,529	\$ 1,174	\$ 1,928 \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Pressure	2018 3				\$ 11 \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Quality Issue	2018 3			\$ 24	\$ 39 \$	•	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DigSafe - Blasting	2018 3		\$ -	\$ -	\$ - \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DigSafe - Emergency	2018 3		\$ 384		\$ 484 \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DigSafe - Freeform	2018 3				\$ - \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DigSafe - Regular	2018 3				\$ 1,186 \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DigSafe - Violation	2018 3				\$ - \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Blowoff - Inspect	2019 3				\$ 33 \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Blowoff - Install	2019 3				\$ 6.322 \$	•	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Blowoff - Locate	2019 3				\$ 33 \$	•	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Blowoff - Remove	2019 3				\$ 2,566 \$	•	\$ -	\$ -	\$ -	\$ -	5 -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Blowoff - Repair	2019 3			\$ 1,930	\$ 3,169 \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Hydrant - Check / Inspect	2019 17		\$ -	\$ -	\$ - \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,086
Hydrant - Close	2019 17		\$ -	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,592
Hydrant - Flush	2019 17		\$ -	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75
Hydrant - Gate Box Adjust / Replace	2019 17		\$ -	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,943
Hydrant - Install	2019 17		\$ -	\$ -	5 - 5	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 104,475
Hydrant - Install - TD	2019 17	Ψ 10,002	\$ -	\$ -	5 - 5	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,592
Hydrant - Install Custodian	2019 17	Ψ .,, .ο	\$ -	\$ -	5 - 5	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,748
Hydrant - Maintenance Hydrant - Open	2019 17	Ψ 0,100	\$ -	\$ -	5 - 5	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,485
Hydrant - Relocate Existing	2019 17		\$ -	\$ -	5 - 5	-	\$ -	\$ -	\$ -	\$ -	5 -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 113
Hydrant - Remove	2019 17		\$ -	\$ -	5 - 5	-	\$ -	\$ -	\$ -	\$ -	5 -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5 -
Hydrant - Remove - TD	2019 17		\$ -	5 -	5 - 3	-	5 -	5 -	5 -	5 -	5 -	5 -	5 -	5 -	5 -	5 -	5 -	\$ 34,757
Hydrant - Repair	2019 17		\$ - \$ -	5 -	5 - 3	-	\$ -	5 -	5 -	5 -	5 -	5 -	5 -	5 -	5 -	5 -	5 -	\$ 4,678
Hydrant - Repair/Repack Valve	2019 17			ъ -	\$ - \$	-	ъ - С	5 -	5 -	5 -	5 -	5 -	5 -	5 -	ъ -	5 -	5 -	\$ 94,220
Sampling Station - Install	2019 17 2019 3		\$ - \$ 2.251	\$ 1.728	\$ - \$ \$ 2.838 \$	-	ъ - С	5 -	5 -	5 -	5 -	5 -	5 -	5 -	ъ -	5 -	5 -	\$ 10,469
Sampling Station - Remove	2019 3 2019 3			\$ 1,728 \$ 337	\$ 2,036 \$	•	s -	5 -	5 -	5 -	5 -	5 -	5 -	5 -	\$ -	5 -	5 -	5 -
Service - Curb Box - Adjust to Grade	2019 3		\$ 439 \$ -	φ 33 <i>1</i>	\$ - 9	•	\$ -	Ф -	• -	· -	Ф -	- ·	Ф -	э - e	Ф -	\$ 18,893	ъ - С	ъ -
Service - Curb Box - Check	2019 14		\$ - \$ -	Ф -	0 - 0	-	• -	Ф -	• -	• -	9 - e -	9 -	Ф -	9 - 6 -	Ф <u>-</u>	\$ 37,952	9 - e -	9 - e -
Service - Curb Box - Dia Up	2019 14		\$ -	¢ -	e - 0	-	Ф -	¢ -	g -	g -	\$ -	9 - e -	¢ -	§ -	¢ -	\$ 122,415	\$ -	Ф -
Service - Curb Stop - Close	2019 14		s -	¢ -	e - 0	-	Ф -	¢ -	g -	g -	\$ -	9 - e -	¢ -	§ -	¢ -	\$ 47.417	ψ - ¢ -	Ф -
Service - Curb Stop - Locate	2019 14		\$ -	¢ -	e - 0	-	Ф -	¢ -	g -	g -	\$ -	9 - e -	¢ -	§ -	¢ -	\$ 13.968	ψ - ¢ -	φ - •
Service - Curb Stop - Open	2019 14		\$ -	\$ -	\$ - 4	_	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 56,932	\$ -	\$ -
Service - Curb Stop - Repair	2019 14	\$ -	\$ -	\$ -	\$ - 4	_	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,552	\$ -	\$ -
Service - Curb Stop - Replace	2019 14	T	s -	\$ -	\$ - 9	_	\$ -	\$ -	š -	š -	\$ -	\$ -	\$ -	s -	\$ -	š -	š -	\$ -
Service - Curb Stop - Replace / Repair	2019 14	T	\$ -	\$ -	\$ - 9	_	\$ -	\$ -	š -	š -	\$ -	\$ -	\$ -	s -	\$ -	\$ 25,813	š -	\$ -
Service - Dig Up For Meter	2019 14	\$ -	\$ -	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Service - Field Asset Measurement	2019 14	-	\$ -	\$ -	\$ - 9		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,028	\$ -	\$ -
Service - Install - IFR	2019 14		\$ -	\$ -	\$ - \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Service - Install - T&D	2019 14	\$ 473,668	\$ -	\$ -	\$ - \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 473,668	\$ -	\$ -
Service - Meter - Bypass Meter	2019 14	\$ 1,554	\$ -	\$ -	\$ - \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,554	\$ -	\$ -
Service - MLOG Leak Investigation	2019 14	\$ 276	\$ -	\$ -	\$ - \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 276	\$ -	\$ -
Service - Reconnect	2019 14	\$ 2,096	\$ -	\$ -	\$ - \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,096	\$ -	\$ -
Service - Remove	2019 14		\$ -	\$ -	\$ - \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 42,450		\$ -
Service - Remove Lead - CS Apps	2019 14	\$ -	\$ -	\$ -	\$ - \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Service - Remove Lead - TD	2019 14	\$ 116,483	\$ -	\$ -	\$ - \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 116,483	\$ -	\$ -
Service - Repair Leak	2019 14	\$ 136,350	\$ -	\$ -	\$ - \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 136,350	\$ -	\$ -
TD Misc - Miscellaneous Maint	2019 Indirect		\$ 24	\$ 19	\$ 31 \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 113	\$ 0	\$ 40
TD Misc - Pre-Mark for Digup	2019 Indirect	\$ -	\$ -	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TD Misc - Pre-Mark for Saw Cut	2019 Indirect		•	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TD Misc - Trench Repair	2019 Indirect	\$ 17,844	\$ 1,911	\$ 1,467	\$ 2,410 \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,867	\$ 1	\$ 3,187
Trench - Check For Failure	2019 3	\$ -	\$ -	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Trench Restoration	2019 3		\$ 246,722		\$ 311,070 \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Adjust Gate Box	2019 3				\$ 2,493 \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Check / Inspect	2019 3				\$ 2,429 \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Install	2019 3				\$ 7,383 \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Install - TD	2019 3				\$ 5,703 \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Locate	2019 3	\$ 741	\$ 245	\$ 188	\$ 309 \$		\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Raise Gate Box To Grade	2019 3		\$ -	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Remove	2019 3	\$ 6,774	\$ 2,236	\$ 1,717	\$ 2,820 \$		\$ -	\$ -	S -	S -	S -	s -	\$ -	s -	\$ -	٠ .	•	• -

Schedule HJS-13d: T&D Labor Allocation (Factor 21)

AMENDED SURREBUTTAL BY MICHAEL R. MAKER

			CTA	A - Transmissi	on & Distribution	1	CTA - Supp	ly, Treatment &	Low Service		High Service &	Retail			Retai	l Only		
																Meters &	Billing &	
Description	Year Factor	Total	Base	Max Day	Max Hour	Base	Base	Max Day	Max Hour	Base	Max Day	Max Hour	Base	Max Day	Max Hour	Services	Collection	Direct Fire
			HCF	HCF/d	HCF/d	HCF	HCF	HCF/d	HCF/d	HCF	HCF/d	HCF/d	HCF	HCF/d	HCF/d	5/8" Eq.	Bills	6" Eq.
Valve - Remove - TD	2019 3	\$ 755	\$ 249 5	\$ 191	\$ 314 \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Repair / Repack	2019 3	\$ 28,008	\$ 9,248 \$	\$ 7,101	\$ 11,660 \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve - Replace Box Cover	2019 3	\$ 2,329	\$ 769 9	\$ 590	\$ 969 \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Main - Install	2019 3	\$ -	\$ - 9	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Main - Remove	2019 3	\$ -	\$ - 9	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Main - Repair Leak	2019 3	\$ 115,527	\$ 38,145 \$	\$ 29,289	\$ 48,093 \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DigSafe - Pre-Mark	2019 3	\$ 398	\$ 131 \$	\$ 101	\$ 165 \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Leak Detection	2019 3	\$ 477	\$ 157 \$	\$ 121	\$ 199 \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Miscellaneous Work	2019 Indirect	\$ 2,630	\$ 282 5	\$ 216	\$ 355 \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,307	\$ 0	\$ 470
Report Leak	2019 3	\$ 9,774	\$ 3,227 \$	\$ 2,478	\$ 4,069 \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Shut Down Not	2019 15	\$ 22	s - s	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22	\$ -
TD Collect Sample	2019 3	\$ 142	\$ 47 9	\$ 36	\$ 59 \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Trench - Check	2019 3	\$ 5,914	\$ 1,953 \$	\$ 1,499	\$ 2,462 \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Pressure	2019 3	\$ 279	\$ 92 5	\$ 71	\$ 116 \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Quality Issue	2019 3	\$ 47	\$ 16 9	\$ 12	\$ 20 \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DigSafe - Blasting	2019 3	\$ -	S - 5	S -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	· \$ -	\$ -	\$ -	S -	\$ -	\$ -	\$ -	\$ -
DigSafe - Emergency	2019 3	\$ 5,209	\$ 1,720 \$	\$ 1,321	\$ 2,168 \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DigSafe - Freeform	2019 3	\$ 107	\$ 35 5	\$ 27	\$ 45 \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DigSafe - Regular	2019 3	\$ 1,128	\$ 372 9	\$ 286	\$ 469 \$	-	\$ -	\$ -	\$ -	\$ -	· \$ -	\$ -	\$ -	S -	\$ -	\$ -	\$ -	\$ -
DigSafe - Violation	2019 3	\$ -	\$ - 5	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3-Year Total (Direct Allocations)		\$6,223,596	\$666,570	\$511,813	\$840,418	\$0	\$0	\$0	\$0		\$0 \$	0 \$0	\$0	\$0	\$0	\$3,092,737	\$321	\$1,111,735
Indirect Allocation %		100.00%	10.71%	8.22%	13.50%	0.00%	0.00%									49.69%	0.01%	
3-Year Total (All Allocations)		\$6,255,138	\$ 669,949 \$	\$ 514,407	\$ 844,678 \$		\$ -	\$ -	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,108,412	\$ 323	\$ 1,117,370
Factor 21 - As T&D Work/Service Ord	ders	100.00%	4.25%	3.26%	5.36%	0.00%	0.00%	0.00%	0.00%	0.0	0.00	% 0.00%	6.46%	4.96%	8.15%	49.69%	0.01%	17.86%

ļ					TA - Transmiss	ion & Distributio	n	CTA - Suppl	ly, Treatment &	Low Service	Н	igh Service &	Retail				Retai	l Only		
																		Meters &	Billing &	
Description	Year	Factor	Total	Base	Max Day	Max Hour	Base	Base	Max Day	Max Hour	Base	Max Day	Max Hou	Bas	se	Max Day	Max Hour	Services	Collection	Direct Fire
				HCF	HCF/d	HCF/d	HCF	HCF	HCF/d	HCF/d	HCF	HCF/d	HCF/d	HC	F	HCF/d	HCF/d	5/8" Eq.	Bills	6" Eq.
Uniforms	2017	Indirect	\$ 25,500	\$ 7,729	\$ 5,935	\$ 9,745	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ 2,091	\$ -	\$ -
	2017	3	\$ 31,727	\$ 10,476	\$ 8,044	\$ 13,208	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ -	\$ -	\$ -
	2017	Indirect			\$ 682	\$ 1,119	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ 240	\$ -	\$ -
	2017	14	\$ 93,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ 93,580	\$ -	\$ -
	2017	3	\$ 174,132	\$ 57,495	\$ 44,147	\$ 72,490	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ -	\$ -	\$ -
	2017	3	\$ 47,871	\$ 15,806	\$ 12,136	\$ 19,928	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ -	\$ -	\$ -
	2017	14	\$ 47,130	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ 47,130	\$ -	\$ -
	2017	3	\$ 590,536		\$ 149,715	\$ 245,838	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ -	\$ -	\$ -
		Indirect				\$ 3,332	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ 715	\$ -	\$ -
	2018	Indirect				\$ 2,713	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ 582	\$ -	\$ -
	2018	3	\$ 32,903		\$ 8,342	\$ 13,697	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ -	\$ -	\$ -
	2018	Indirect				\$ 1,289	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ 277	\$ -	\$ -
	2018	3	\$ 124,242		\$ 31,498	\$ 51,721	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ -	\$ -	\$ -
	2018	3	\$ 143,850	\$ 47,497	\$ 36,469	\$ 59,884	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ -	\$ -	\$ -
	2018	14	\$ 44,813		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ 44,813	\$ -	\$ -
	2018	3	\$ 538,228		\$ 136,453	\$ 224,062	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ -	\$ -	\$ -
		Indirect				\$ 4,150	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ 890	\$ -	\$ -
	2019	3	\$ 31,113			\$ 12,952	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ -	\$ -	\$ -
	2019	Indirect			\$ 698	\$ 1,147	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ 246	\$ -	\$ -
	2019	3	\$ 150,299		\$ 38,104	\$ 62,569	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ -	\$ -	\$ -
	2019	3	\$ 120,574		\$ 30,568	\$ 50,194	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ -	\$ -	\$ -
	2019	14	\$ 47,278		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ 47,278	\$ -	\$ -
	2019	3	\$ 620,956	\$ 205,028	\$ 157,427	\$ 258,501	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ -	\$ -	\$ -
Misc. Expenses	2019	Indirect	\$ 9,767	\$ 2,960	\$ 2,273	\$ 3,732	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ 801	\$ -	\$ -
3-Year Total (Direct Allocations)			\$ 2,839,230	\$860,594	\$660,790	\$1,085,045	\$0	\$0	\$0	\$0	\$0		60 5	60	\$0	\$0	\$0	\$232,800	\$0	\$0
Indirect Allocation %			100.00%			38.22%	0.00%	0.00%	0.00%	0.00%	0.00%				0.00%	0.00%	0.00%	8.20%		
3-Year Total			\$ 2,910,479	\$ 882,190	\$ 677.372	\$ 1.112.274	s -	\$ -	\$ -	s -	\$ -	\$ -	\$ -	\$	- \$		\$ -	\$ 238.642	\$ -	\$ -
Factor 22 - As T&D Contract Serv	vices		100.00%			15.23%	0.00%	0.00%	0.00%	0.00%	0.00%	6 0.00	% 0.00)% 1	8.23%	14.00%	22.99%	8.20%		0.00%

1.	All d -	Diam's in		Not Book	C	TA - Transmiss	on & Distribut	on	CTA - Suppl	y, Treatment &	Low Service	Hig	h Service & Ret	ail			Retail		D'III' 2	
	Allocation Factor	Plant in Service	Accumulated Depreciation	Net Book Value	Base	Max Dav	Max Hour	Base	Base	Max Dav	Max Hour	Base	Max Dav	Max Hour	Base	Max Day	Max Hour	Meters & Services	Billing & Collection	Direct F
rce of Supply & Pumping	ractor	OCIVICE	Depreciation	Value	HCF	HCF/d	HCF/d	HCF	HCF	HCF/d	HCF/d	HCF	HCF/d	HCF/d	HCF	HCF/d	HCF/d	5/8" Eq.	Rille	6" Eq.
and and Land Rights	4	\$ 38,927,814	\$ -	\$ 38,927,814		s -	\$ -	\$ -		S -						\$ -		S -	s -	\$ 194
tructures and Improvements	i	22,401,415	16.642.333	5.759.082	Ψ -	*		Ψ .	5.730.287	*	Ψ .	· .	· .	Ψ .	Ψ .	Ψ -	Ψ -	· .		28
ollecting & Impounding Reservoirs	7	13,373,233	8,994,270	4,378,962					4,357,068											21
	7	4,306,409	0,554,270	4,306,409	-	-	-	-	4,284,877	-	•	-	-	-	-	-	•	-	-	21
and & Impounding Reservoirs	4		6 020 244		-	-	-	-	15.333.801	-	-	-	-	-	-	-	-	-	-	7
upply Mains	4	22,350,197	6,939,341	15,410,856	-	-	-	-	15,333,801	-	-	-	-	-	-	-	-	-	-	/
ther Water Source Plant	1				-	-	-	-		-	-	-	-	-	-	-	-	-	-	
ther Power Production Equipment	4	459,318	408,911	50,407	-	-	-	-	50,154	-	-	-	-	-	-	-	-	-	-	
lectric Pumping Equipment	18	1,709,401	1,395,416	313,985	-	-	-	-	-	-	-	64,413	49,458	81,212	39,259	30,145	49,499	-	-	
ydraulic Pumping Equipment	18	107,721	62,678	45,043	-	-	-	-	-	-	-	9,240	7,095	11,650	5,632	4,324	7,101	-	-	
ther Plant & Miscellaneous Equipn	18	1,150,739	1.150.739		-	-	_	_	-	-	-							_	-	
otal Source of Supply & Pumping P.	Plant	\$104,786,247	\$ 35,593,689	\$ 69,192,558	\$ -	\$ -	\$ -	\$ -	\$ 68,489,362	\$ -	\$ -	\$ 73,653	\$ 56,553	\$ 92,862	\$ 44,891	\$ 34,469	\$ 56,599	\$ -	\$ -	\$ 34
T																				
er Treatment Plant and and Land Rights	5	\$ 29.994	s -	\$ 29.994	s -	s -	s -	s -	\$ 16.967	\$ 13.027	s -	s -	s -	s -	s -	s -	s -	s -	s -	\$
ructures and Improvements	5	64.787.943	54,483,966	10,303,977	Ψ -	*		Ψ .	5,828,601	4,475,376	Ψ .	· .	Ψ .	Ψ .	Ψ .	Ψ -	Ψ -	· .		Ψ.
/ater Treatment Equipment	5	13.736.209	13.116.332	619.878					350.643	269,234										
ther Plant & Miscellaneous Equipn	5	27.674.487	20,360,815	7,313,672	-	-	-	-	4.137.089	3,176,583	•	-	-	-	-	-	•	-	-	
otal Water Treatment Plant	5	\$106,228,633	\$ 87,961,113		e -		e -	· ·	\$ 10.333,300	\$ 7,934,221	e -	e -	e -	· ·	e -	e -	· ·	e -	· ·	e
tai water Treatment Plant		\$100,220,033	\$ 67,961,113	\$ 10,207,521	Ф -	• -	5 -	Φ -	\$ 10,333,300	\$ 7,934,221	5 -	3 -	• -	\$ -	\$ -	5 -	5 -	5 -	3 -	Ф
smission & Distribution Plant																				
nd and Land Rights	23			\$ 614,902	\$ -	\$ -	\$ -	\$ -	\$ 71,623	\$ 54,995	\$ 90,303	\$ 20,799	\$ 15,970	\$ 26,224	\$ 7,967	\$ 6,118	\$ 10,045	\$ -	\$ -	\$ 3
ructures and Improvements	23	204,660	204,660	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
stribution Reservoirs & Standpipe:	20	18,722,912	12,104,381	6,618,531	-	-	-	-	1,559,113	1,197,135	1,965,745	452,764	347,646	570,849	173,438	133,171	218,672	-	-	
ansmission Mains(1)	2	82.274.598	12,825,029	69,449,569	39,285,201	30.164.368	-	-	-	-	-	-	-	-	-	-	-	-	-	
tribution Mains(1)	12	124,218,289	19,363,244	104,855,046			_	_	_	_		_	_	_	34,621,168	26,583,182	43,650,695	_	_	
D Services	14	73,240,742	19.756.961	53,483,781	_	_	_	_	_	_	_	_	_	_	,,			53,483,781	_	
eters & Meter Installation	14	31,296,939	24,361,180	6,935,760														6,935,760		
					-	-	-	-	-	-	•	-	-	-	-	-	•	0,555,700	-	
drants	17	11,546,412	4,779,609	6,766,803	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,7
		7 834 658	7 834 658	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
otal Transmission & Distribution Pla oral Plant nd and Land Rights	2 lant 24 24	7,834,658 \$349,954,113 \$ 23,380 5,690,927		\$ 23,380	\$ 39,285,201 \$ 2,732 \$ 4,923	\$ 30,164,368 \$ 2,098 \$ 3,780	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	\$ 1,630,737 \$ 5,595 \$ 10,082	\$ 1,252,129 \$ 639 \$ 1,151		\$ 473,563 \$ 38 \$ 69	\$ 363,616 \$ 29 \$ 53	\$ 48	\$ 34,802,574 \$ 2,423 \$ 4,367	\$ 26,722,471 \$ 1,861 \$ 3,353		\$ 60,419,541 \$ 4,202 \$ 7,571	s - s -	\$ 7,0°
ther Plant & Miscellaneous Equipn taid Transmission & Distribution Pla tral Plant und and Land Rights ructures and Improvements ructures and Improvements ructures and Improvements flice Furniture & Equipment ansportation Equipment obos, Shop & Garage Equipment bloratory Equipment boratory Equipment ower Operated Equipment sower Operated Equipment scellaneous Equipment scellaneous Equipment ther Tangible Plant	lant 24	\$349,954,113 \$ 23,380	\$101,229,721 \$ -	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508	\$ 2,732 \$ 4,923	\$ 2,098		\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$ 5,595	\$ 639	\$ 143 \$ 258 \$ 59,551 \$ 154 \$ 6,305	\$ 38 \$ 69 \$ 15,945 \$ 41 \$ 1,678	\$ 29 \$ 53 \$ 12,243 \$ 31 \$ 1,288 \$ 8,688	\$ 48 \$ 86 \$ 20,103 \$ 52 \$ 2,116	\$ 2,423	\$ 1,861	\$ 3,056 \$ 5,506	\$ 4,202	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$
tal Transmission & Distribution Pla tral Plant of and Land Rights uctures and Improvements"' ritral Operations Facility ice Furniture & Equipment insportation Equipment pruter Equipment sis, Shop & Garage Equipment orctarty Equipment merrunication Equipment merrunication Equipment cellaneous Equipment ret Tangible Plant	24 24 27 24 24 24 24 1 24 24 24 24 24 24	\$349,954,113 \$ 23,380 5,690,927 29,637,233 620,787 8,897,148 846,649 198,137 497,025 1,138,195 697,209 117,627	\$101,229,721 \$ 5,648,798 995,351 595,641 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 4,648 1,077 36,989	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 120,468 \$ 812,326 \$ 812,326 \$ 1,581 \$ 1,581 \$ 13,157 \$ 543 \$ 126 \$ 4,322	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 92,499 \$ 623,729 \$ 16,996 \$ - \$ 10,102 \$ 417 \$ 97 \$ 3,319	\$ -	\$	\$ 5,595 \$ 10,082 \$ 1,734,692 \$ 6,018 \$ 246,710 \$ 1,663,588 \$ 45,330 \$ -5 \$ 26,944 \$ 1,112 \$ 258	\$ 639 \$ 1,151 \$ 275,974 \$ 687 \$ 28,170 \$ 189,952 \$ 5,176 \$ - \$ 3,077 \$ 127 \$ 29	\$ 143 \$ 258 \$ 59,551 \$ 154 \$ 6,305 \$ 42,514 \$ 1,158 \$ - \$ 689 \$ 28 \$ 7	\$ 38 \$ 69 \$ 15,945 \$ 41 \$ 1,678 \$ 11,315 \$ 308 \$ - \$ 183 \$ 8 \$ 2	\$ 29 \$ 53 \$ 12,243 \$ 31 \$ 1,288 \$ 8,688 \$ 237 \$ - \$ 141 \$ 6 \$ 1	\$ 48 \$ 86 \$ 20,103 \$ 52 \$ 2,116 \$ 14,266 \$ 389 \$ - \$ 231 \$ 10 \$ 2 \$ 76	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 106,860 \$ 720,564 \$ 19,634 \$ - \$ 11,670 \$ 482 \$ 112	\$ 1,861 \$ 3,353 \$ 1,199,784 \$ 2,001 \$ 82,050 \$ 553,271 \$ 15,076 \$ - \$ 8,961 \$ 370 \$ 86	\$ 3,056 \$ 5,506 \$ 1,970,096 \$ 3,286 \$ 134,730 \$ 908,494 \$ 24,755 \$ 14,714 \$ 607 \$ 141 \$ 4,834	\$ 4,202 \$ 7,571 \$ 7,051,241 \$ 4,519 \$ 185,276 \$ 1,249,335 \$ 34,042 \$ - \$ 20,235 \$ 835 \$ 193	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ 1,6 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
tal Transmission & Distribution Pla tral Plant dand Rights uctures and Improvements"' tratter and Improvements and Improvements and Improvements to Eurniture & Equipment insportation Equipment insportation Equipment protatory Equipment memunication Equipment memunication Equipment toellaneous Equipment ter Tangible Plant tal General Plant	24 24 27 24 24 24 24 1 24 24 24 24 24 24	\$349,954,113 \$ 23,380 5,690,927 29,637,233 62,0787 8,897,148 11,690,744 846,649 198,137 497,025 1,138,195 697,209 117,627 \$ 60,055,059	\$101,229,721 \$ 5,648,798 995,351 595,641 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 4,648 1,077 36,989 \$ 37,061,262	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 2,939 \$ 120,468 \$ 812,326 \$ 22,134 \$ 1,581 \$ 13,157 \$ 543 \$ 126 \$ 4,322 \$ 6,917,118	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 92,499 \$ 623,729 \$ 16,996 \$ - \$ 10,102 \$ 417 \$ 97 \$ 3,319	\$ 2,541,801 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$	\$ 5,595 \$ 10,082 \$ 1,734,692 \$ 6,018 \$ 246,710 \$ 1,663,588 \$ 45,330 \$ - \$ 26,944 \$ 1,112 \$ 258 \$ 8,852	\$ 639 \$ 1,151 \$ 275,974 \$ 28,170 \$ 189,952 \$ 5,176 \$ - \$ 3,077 \$ 127 \$ 29 \$ 1,011	\$ 143 \$ 258 \$ 59,551 \$ 154 \$ 6,305 \$ 42,514 \$ 1,158 \$ - \$ 689 \$ 28 \$ 7 \$ 7	\$ 38 \$ 69 \$ 15,945 \$ 41 \$ 1,678 \$ 11,315 \$ 308 \$ - \$ 183 \$ 8 \$ 2 \$ 60	\$ 29 \$ 53 \$ 12,243 \$ 31 \$ 1,288 \$ 8,688 \$ 237 \$ - \$ 141 \$ 6 \$ 1 \$ 46	\$ 48 \$ 20,103 \$ 52 \$ 2,116 \$ 14,266 \$ 389 \$ - \$ 231 \$ 10 \$ 76 \$ 37,379	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 106,860 \$ 720,564 \$ 19,634 \$ 11,670 \$ 482 \$ 112 \$ 3,834 \$ 3,305,289	\$ 1,861 \$ 3,353 \$ 1,199,784 \$ 2,001 \$ 82,050 \$ 553,271 \$ 15,076 \$ 8,961 \$ 370 \$ 8,961 \$ 2,944 \$ 1,869,757	\$ 3,056 \$ 5,506 \$ 1,970,096 \$ 3,286 \$ 134,730 \$ 908,494 \$ 24,755 \$ 14,714 \$ 607 \$ 141 \$ 4,834	\$ 4,202 \$ 7,571 \$ 7,051,241 \$ 4,519 \$ 185,276 \$ 1,249,335 \$ 34,042 \$ 20,235 \$ 835 \$ 193 \$ 6,648 \$ 8,564,098	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1,6 \$ 1 \$ 5 \$ 1,8
tal Transmission & Distribution Pla trail Plant and Rights uctures and Improvements" on natal Operations Facility lice Furniture & Equipment on Insportation Equipment on the Company of the Company Equipment on the Company Equipment on the Company of the Com	24 24 27 27 24 24 24 21 24 24 24 24 24 24 24	\$349,954,113 \$ 23,380 5,690,927 29,637,233 62,0787 8,897,148 11,690,744 846,649 198,137 497,025 1,138,195 697,209 117,627 \$ 60,055,059	\$101,229,721 \$- 5,648,798 995,351 595,641 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638 \$22,993,797	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 4,648 1,077 36,989 \$ 37,061,262 \$373,245,732	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 2,939 \$ 120,468 \$ 812,326 \$ 22,134 \$ 1,581 \$ 13,157 \$ 543 \$ 1,581 \$ 12,581 \$ 4,322 \$ 6,917,118	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 22,299 \$ 16,996 \$ 16,996 \$ 17,002 \$ 10,102 \$ 10,102 \$ 3,319 \$ 3,216,030 \$ 3,3180,398	\$ 2,541,801 \$ 2,541,801 \$ - \$ - \$ - \$ - \$ - \$ 2,541,801	\$	\$ 5,595 \$ 10,082 \$ 6,018 \$ 246,710 \$ 1,663,588 \$ 445,330 \$ 1,112 \$ 258 \$ 8,852 \$ 3,749,181 \$ 84,202,580	\$ 639 \$ 1,151 \$ 275,974 \$ 687 \$ 189,952 \$ 5,176 \$ 3,077 \$ 127 \$ 29 \$ 1,011 \$ 505,993	\$ 143 \$ 258 \$ 59,551 \$ 154 \$ 6,305 \$ 42,514 \$ 1,158 \$ - \$ 689 \$ 28 \$ 7 \$ 226 \$ 111,033	\$ 38 \$ 15,945 \$ 41 \$ 11,678 \$ 11,315 \$ 308 \$ - \$ 183 \$ 2 \$ 60 \$ 29,647 \$ 576,862	\$ 29 \$ 12,243 \$ 31 \$ 1,288 \$ 8,688 \$ 237 \$ - \$ 141 \$ 6 \$ 22,764	\$ 48 \$ 20,103 \$ 52 \$ 2,116 \$ 14,266 \$ 38 \$ -2 \$ 231 \$ 76 \$ 37,379	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 2,607 \$ 106,860 \$ 720,564 \$ 19,634 \$ - \$ 11,670 482 \$ 112 \$ 3,834 \$ 3,305,289 \$ 38,152,754	\$ 1,861 \$ 3,353 \$ 1,199,784 \$ 2,001 \$ 2,005 \$ 553,271 \$ 15,076 \$	\$ 3,056 \$ 5,506 \$ 1,970,096 \$ 3,286 \$ 134,730 \$ 908,494 \$ 24,755 \$ 14,714 \$ 607 \$ 141 \$ 4,834 \$ 3,070,219	\$ 4,202 \$ 7,571 \$ 7,051,241 \$ 4,519 \$ 185,276 \$ 1,249,335 \$ 34,042 \$ 20,235 \$ 835 \$ 193 \$ 6,648 \$ 8,564,098	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1,6 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
tal Transmission & Distribution Pla tral Plant of and Land Rights uctures and Improvements" on narial Operations Facility lice Furniture & Equipment insportation Equipment proter Equipment sis, Shop & Garage Equipment oratory Equipment merroratory Equipment merroratory Equipment merroratory Equipment merroratory Equipment merroratory Equipment terroratory Equipment terrora	24 24 27 24 24 24 24 1 24 24 24 24 24 24	\$349,954,113 \$ 23,380 5,690,927 29,637,233 62,0787 8,897,148 11,690,744 846,649 198,137 497,025 1,138,195 697,209 117,627 \$ 60,055,059	\$101,229,721 \$- 5,648,798 995,351 595,641 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638 \$22,993,797	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 4,648 1,077 36,989 \$ 37,061,262	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 2,939 \$ 120,468 \$ 812,326 \$ 22,134 \$ 1,581 \$ 13,157 \$ 543 \$ 1,581 \$ 12,581 \$ 4,322 \$ 6,917,118	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 22,299 \$ 16,996 \$ 16,996 \$ 17,002 \$ 10,102 \$ 10,102 \$ 3,319 \$ 3,216,030 \$ 3,3180,398	\$ 2,541,801 \$ 2,541,801 \$ - \$ - \$ - \$ - \$ - \$ 2,541,801	\$	\$ 5,595 \$ 10,082 \$ 1,734,692 \$ 6,018 \$ 246,710 \$ 1,663,588 \$ 45,330 \$	\$ 639 \$ 1,151 \$ 275,974 \$ 687 \$ 189,952 \$ 5,176 \$ 3,077 \$ 127 \$ 29 \$ 1,011 \$ 505,993	\$ 143 \$ 258 \$ 59,551 \$ 154 \$ 6,305 \$ 42,514 \$ 1,158 \$ - \$ 689 \$ 28 \$ 7 \$ 226 \$ 111,033	\$ 38 \$ 15,945 \$ 41 \$ 11,678 \$ 11,315 \$ 308 \$ - \$ 183 \$ 2 \$ 60 \$ 29,647 \$ 576,862	\$ 29 \$ 53 \$ 12,243 \$ 31 \$ 1,288 \$ 8,688 \$ 237 \$ 141 \$ 16 \$ 1 \$ 46 \$ 22,764	\$ 48 \$ 20,103 \$ 52 \$ 2,116 \$ 14,266 \$ 38 \$ -2 \$ 231 \$ 76 \$ 37,379	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 2,607 \$ 106,860 \$ 720,564 \$ 19,634 \$ - \$ 11,670 482 \$ 112 \$ 3,834 \$ 3,305,289 \$ 38,152,754	\$ 1,861 \$ 3,353 \$ 1,199,784 \$ 2,001 \$ 2,005 \$ 553,271 \$ 15,076 \$	\$ 3,056 \$ 5,506 \$ 1,970,096 \$ 3,286 \$ 134,730 \$ 908,494 \$ 24,755 \$ 14,714 \$ 607 \$ 141 \$ 4,834 \$ 3,070,219	\$ 4,202 \$ 7,571 \$ 7,051,241 \$ 4,519 \$ 185,276 \$ 1,249,335 \$ 34,042 \$ 20,235 \$ 835 \$ 193 \$ 6,648 \$ 8,564,098	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ 1, \$ 9,
al Transmission & Distribution Pla al Plant d and Land Rights cutures and Improvements'' totres and Improvements'' totral Operations Facility oc e Furniture & Equipment insportation Equipment instruction & Grand Equipment instruction Equipment al General Plant al Plant instruction Work in Progress	24 24 27 27 24 24 24 21 24 24 24 24 24 24 24	\$349,954,113 \$ 23,380 5,690,927 29,637,233 620,787 8,897,148 11,690,744 846,649 198,137 497,025 1,138,195 697,209 117,627 \$ 60,055,059	\$101,229,721 \$5,648,798 995,561 7,866,240 4,739,235 657,232 196,548 3,84,436 1,133,547 696,132 80,638 \$22,993,797 \$247,778,320	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 4,648 1,077 36,989 \$ 37,061,262 \$373,245,732 \$ 53,315,917	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 2,939 \$ 120,468 \$ 123,26 \$ 22,134 \$ 1,581 \$ 13,157 \$ 543 \$ 126 \$ 4,322 \$ 6,917,118 \$ 46,202,319 \$ 6,230,289	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 92,499 \$ 623,729 \$ 16,996 \$ 1,102 \$ 417 \$ 97 \$ 3,319 \$ 3,216,030 \$ 4,783,805	\$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801	\$ - \$ - \$ - \$ - \$ - \$ 5	\$ 5,595 \$ 10,082 \$ 1,734,692 \$ 246,710 \$ 1,663,588 \$ 45,330 \$ 25,944 \$ 1,112 \$ 258 \$ 3,749,181 \$ 84,202,580 \$ 12,759,205	\$ 639 \$ 1,151 \$ 275,974 \$ 687 \$ 28,170 \$ 189,952 \$ 1,011 \$ 505,993 \$ 1,011 \$ 505,993 \$ 1,456,875	\$ 143 \$ 258 \$ 59,551 \$ 6,305 \$ 42,514 \$ 1,158 \$ 689 \$ 28 \$ 7 \$ 111,033 \$ 2,167,081 \$ 326,071	\$ 38 \$ 69 \$ 15,945 \$ 41 \$ 1,678 \$ 11,315 \$ 308 \$ 183 \$ 2 \$ 60 \$ 29,647 \$ 576,862 \$ 86,784	\$ 29 \$ 53 \$ 12,243 \$ 31 \$ 1,288 \$ 8,688 \$ 237 \$ 141 \$ 6 \$ 22,764 \$ 442,932 \$ 66,635	\$ 48 \$ 86 \$ 20,103 \$ 52 \$ 2,116 \$ 14,266 \$ 389 \$ 231 \$ 10 \$ 72,314 \$ 109,418	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 2,607 \$ 106,860 \$ 720,564 \$ 19,634 \$ 11,670 \$ 482 \$ 482 \$ 3,834 \$ 3,305,289 \$ 3,835 \$ 5,526,503	\$ 1,861 \$ 3,353 \$ 1,199,784 \$ 2,001 \$ 82,050 \$ 553,271 \$ 15,076 \$ 15,076 \$ 2,944 \$ 1,869,757 \$ 2,869,696 \$ 4,243,417	\$ 3,056 \$ 1,970,096 \$ 3,286 \$ 134,730 \$ 908,494 \$ 24,755 \$ 14,714 \$ 607 \$ 1411 \$ 4,834 \$ 3,070,219 \$ 6,967,867	\$ 4,202 \$ 7,571 \$ 7,051,241 \$ 4,519 \$ 188,279 \$ 1,249,335 \$ 1,249,335 \$ 20,235 \$ 835 \$ 835 \$ 835 \$ 6,648 \$ 8,564,098 \$ 9,582,011	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ 1, \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
tal Transmission & Distribution Pla Trai Plant and and Land Rights uctures and Improvements'' Intrai Operations Facility ice Furniture & Equipment Insportation Insportation Insportation Insportation Insportation Insportation Insportation Insportation Insportation Insportation Insportation Insportation Insportation Insportation Insportation Insportation Insporta	24 24 24 27 27 24 24 24 24 1 24 24 24 24 24 24	\$349,954,113 \$ 23,380 5,690,927 29,637,233 620,787 8,897,148 11,690,744 846,649 198,137 497,025 1,138,195 697,209 117,627 \$ 60,055,059 \$621,024,052	\$101,229,721 \$5,648,798 995,561 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638 \$22,993,797 \$247,778,320	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 4,648 1,077 36,989 \$ 37,061,262 \$373,245,732	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 2,939 \$ 120,468 \$ 123,26 \$ 22,134 \$ 1,581 \$ 13,157 \$ 543 \$ 126 \$ 4,322 \$ 6,917,118 \$ 46,202,319 \$ 6,230,289	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 92,499 \$ 623,729 \$ 16,996 \$ 1,102 \$ 417 \$ 97 \$ 3,319 \$ 3,216,030 \$ 4,783,805	\$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801	S - S - S - S - S - S - S - S - S - S -	\$ 5,595 \$ 10,082 \$ 1,734,692 \$ 246,710 \$ 1,663,588 \$ 45,330 \$ 25,944 \$ 1,112 \$ 258 \$ 3,749,181 \$ 84,202,580 \$ 12,759,205	\$ 639 \$ 1,151 \$ 275,974 \$ 687 \$ 28,170 \$ 189,952 \$ 1,011 \$ 505,993 \$ 1,011 \$ 505,993 \$ 1,456,875	\$ 143 \$ 258 \$ 59,551 \$ 154 \$ 6,305 \$ 42,514 \$ 1,158 \$ - \$ 689 \$ 28 \$ 7 \$ 226 \$ 111,033	\$ 38 \$ 69 \$ 15,945 \$ 41 \$ 1,678 \$ 11,315 \$ 308 \$ 183 \$ 2 \$ 60 \$ 29,647 \$ 576,862 \$ 86,784	\$ 29 \$ 12,243 \$ 31 \$ 1,288 \$ 8,688 \$ 237 \$ - \$ 141 \$ 6 \$ 22,764	\$ 48 \$ 86 \$ 20,103 \$ 52 \$ 2,116 \$ 14,266 \$ 389 \$ 231 \$ 10 \$ 72,314 \$ 109,418	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 2,607 \$ 106,860 \$ 720,564 \$ 19,634 \$ 11,670 \$ 482 \$ 482 \$ 3,834 \$ 3,305,289 \$ 3,835 \$ 5,526,503	\$ 1,861 \$ 3,353 \$ 1,199,784 \$ 2,001 \$ 82,050 \$ 553,271 \$ 15,076 \$ 15,076 \$ 2,944 \$ 1,869,757 \$ 2,869,696 \$ 4,243,417	\$ 3,056 \$ 5,506 \$ 1,970,096 \$ 3,286 \$ 134,730 \$ 908,494 \$ 24,755 \$ 14,714 \$ 607 \$ 141 \$ 4,834 \$ 3,070,219	\$ 4,202 \$ 7,571 \$ 7,051,241 \$ 4,519 \$ 188,279 \$ 1,249,335 \$ 1,249,335 \$ 20,235 \$ 835 \$ 835 \$ 835 \$ 6,648 \$ 8,564,098 \$ 9,582,011	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1,1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
tal Transmission & Distribution Pla Tal Plant did and Land Rights uctures and Improvements'' intral Operations Facility fice Furniture & Equipment ansportation Equipment mputer Equipment ols, Shop & Garage Equipment boratory Equipment wer Operated Equipment memunication Equipment memunication Equipment her Tangible Plant tal General Plant tal Plant tal Plant instruction Work in Progress	24 24 24 27 27 24 24 24 24 1 24 24 24 24 24 24	\$349,954,113 \$ 23,380 5,690,927 29,637,233 620,787 8,897,148 11,690,744 846,649 198,137 497,025 1,138,195 697,209 117,627 \$ 60,055,059 \$621,024,052	\$101,229,721 \$5,648,798 995,561 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638 \$22,993,797 \$247,778,320	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 4,648 1,077 36,989 \$ 37,061,262 \$373,245,732 \$ 53,315,917	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 2,939 \$ 120,468 \$ 123,26 \$ 22,134 \$ 1,581 \$ 13,157 \$ 543 \$ 126 \$ 4,322 \$ 6,917,118 \$ 46,202,319 \$ 6,230,289	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 92,499 \$ 623,729 \$ 16,996 \$ 1,102 \$ 417 \$ 97 \$ 3,319 \$ 3,216,030 \$ 4,783,805	\$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801	S - S - S - S - S - S - S - S - S - S -	\$ 5,596 \$ 10,082 \$ 1,734,692 \$ 6,013 \$ 246,710 \$ 1,663,588 \$ 45,330 \$ -2,944 \$ 1,112 \$ 2,58 \$ 3,749,181 \$ 84,202,580 \$ 12,759,205	\$ 639 \$ 1,151 \$ 275,974 \$ 28,170 \$ 28,170 \$ 189,952 \$ 5,176 \$ 3,077 \$ 127 \$ 1,011 \$ 505,993 \$ 9,692,343 \$ 1,456,875	\$ 143 \$ 258 \$ 59,551 \$ 6,305 \$ 42,514 \$ 1,158 \$ 689 \$ 28 \$ 7 \$ 111,033 \$ 2,167,081 \$ 326,071	\$ 38 \$ 69 \$ 15,945 \$ 141 \$ 1,678 \$ 11,315 \$ 308 \$ 183 \$ 60 \$ 29,647 \$ 576,862 \$ 86,784 \$ 683,646	\$ 29 \$ 53 \$ 12,243 \$ 31 \$ 1,288 \$ 8,688 \$ 237 \$ - \$ 141 \$ 6 \$ 22,764 \$ 46 \$ 22,764 \$ 46,55 \$ 509,568	\$ 48 \$ 86 \$ 20,103 \$ 52 \$ 2,116 \$ 14,266 \$ 369 \$ - \$ 231 \$ 20 \$ 27,314 \$ 109,418 \$ 836,731	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 2,607 \$ 106,860 \$ 720,564 \$ 19,634 \$ 11,670 \$ 482 \$ 482 \$ 3,834 \$ 3,305,289 \$ 3,835 \$ 5,526,503	\$ 1,861 \$ 3,353 \$ 1,199,784 \$ 2,001 \$ 82,050 \$ 553,271 \$ 15,076 \$ 15,076 \$ 2,944 \$ 1,869,757 \$ 2,869,696 \$ 4,243,417	\$ 3,056 \$ 5,506 \$ 1,970.096 \$ 134,730 \$ 134,730 \$ 24,755 \$ 14,714 \$ 607 \$ 144 \$ 3,070,219 \$ 47,006,230 \$ 6,967,867	\$ 4,202 \$ 7,051,24 \$ 4,519 \$ 185,276 \$ 1,249,335 \$ 14,042 \$ 34,042 \$ 20,235 \$ 6,643 \$ 8,564,098 \$ 9,582,011	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1,6 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
tal Pransmission & Distribution Pic tal Plant and and Land Rights uctures and Improvements" intral Operations Facility fice Furniture & Equipment ansportation Equipment mybuer Equipment ols, Shop & Garage Equipment oberatory Equipment mornation Equipment scellaneous Equipment mornationation Equipment mornationation Equipment mornationation Equipment mornationation Equipment the Tangible Plant tal Plant mornationation Equipment tal Plant mornationation Equipment tal Plant tal Plant tal Plant tal Plant Investment et of Central Operations Facility T8	24 24 27 24 27 24 24 24 1 24 24 24 24 24 24	\$349,954,113 \$ 23,380 5,690,927 29,637,223 620,787 8,987,148 11,680,744 846,649 198,137 497,025 697,209 117,627 \$ 60,055,059 \$621,024,052	\$101,229,721 \$5,648,798 995,561 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638 \$22,993,797 \$247,778,320	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,509 189,417 1,589 4,648 1,077 36,989 \$ 37,061,262 \$373,245,732 \$ 53,315,917	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 2,939 \$ 120,468 \$ 123,26 \$ 22,134 \$ 1,581 \$ 13,157 \$ 543 \$ 126 \$ 4,322 \$ 6,917,118 \$ 46,202,319 \$ 6,230,289	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 92,499 \$ 623,729 \$ 16,996 \$ 1,102 \$ 417 \$ 97 \$ 3,319 \$ 3,216,030 \$ 4,783,805	\$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	\$ 5,595 \$ 10,082 \$ 6,018 \$ 246,710 \$ 1,683,588 \$ 45,330 \$ 1,112 \$ 25,944 \$ 1,112 \$ 258 \$ 8,852 \$ 3,749,181 \$ 84,202,580 \$ 12,759,205	\$ 639 \$ 1,151 \$ 275,974 \$ 28,170 \$ 28,170 \$ 189,952 \$ 5,176 \$ 3,077 \$ 127 \$ 1,011 \$ 505,993 \$ 9,692,343 \$ 1,456,875	\$ 143 \$ 258 \$ 59,551 \$ 154 \$ 6,305 \$ 42,514 \$ 1,158 \$ 689 \$ 28 \$ 26 \$ 111,033 \$ 2,167,081 \$ 326,071 \$ 2,493,152	\$ 38 \$ 69 \$ 15,945 \$ 141 \$ 1,678 \$ 11,315 \$ 308 \$ 183 \$ 60 \$ 29,647 \$ 576,862 \$ 86,784 \$ 683,646	\$ 29 \$ 53 \$ 12,243 \$ 31 \$ 1,288 \$ 8,688 \$ 237 \$ - \$ 141 \$ 6 \$ 22,764 \$ 46 \$ 22,764 \$ 46,55 \$ 509,568	\$ 48 \$ 86 \$ 20,103 \$ 52 \$ 2,116 \$ 14,266 \$ 369 \$ - \$ 231 \$ 20 \$ 27,314 \$ 109,418 \$ 836,731	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 106,860 \$ 106,860 \$ 19,634 \$ 19,634 \$ 11,670 \$ 11,670 \$ 482 \$ 112 \$ 3,305,289 \$ 3,305,289 \$ 5,526,503 \$ 43,679,258	\$ 1,861 \$ 3,353 \$ 1,199,784 \$ 2,050 \$ 82,050 \$ 553,271 \$ 15,076 \$ 8,961 \$ 370 \$ 8,961 \$ 1,869,757 \$ 28,626,696 \$ 4,243,417	\$ 3,056 \$ 5,506 \$ 1,970.096 \$ 134,730 \$ 134,730 \$ 24,755 \$ 14,714 \$ 607 \$ 144 \$ 3,070,219 \$ 47,006,230 \$ 6,967,867	\$ 4,202 \$ 7,051,24 \$ 4,519 \$ 185,276 \$ 1,249,335 \$ 14,042 \$ 34,042 \$ 20,235 \$ 6,643 \$ 8,564,098 \$ 9,582,011	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1,6 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Ital Transmission & Distribution Pic Ital Plant and and Land Rights ructures and Improvements" Intral Operations Facility fine Furniture & Equipment Insportation Equipment Interest Tangible Plant Ital Plant Ital Plant Ital Plant Insportation Work in Progress Ital Plant Investment Ital Control Insportation Equipment Ital Plant Investment Ital Insportation Picture Ital Plant Investment Ital Insportation Picture Ital Plant Investment Ital Insportation Picture Ital Plant Investment Ital Ital Insportation Picture Ital Plant Investment Ital Ital Insportation Picture Ital Plant Investment Ital Ital Investment Ital Ital Investment Ital Ital Investment Ital Ital Ital Ital Ital Ital Ital Ital	24 24 27 24 27 24 24 24 1 24 24 24 24 24 24	\$349,954,113 \$ 23,380 5,690,927 29,637,223 620,787 8,987,148 11,680,744 846,649 198,137 497,025 697,209 117,627 \$ 60,055,059 \$621,024,052	\$101,229,721 \$5,648,798 995,561 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638 \$22,993,797 \$247,778,320	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 4,648 1,077 36,989 \$ 37,061,262 \$ 53,315,917 \$ 426,561,649 \$ 13,385,334	\$ 2,732 \$ 4,923 \$ 5,931,667 \$ 2,939 \$ 120,468 \$ 12,326 \$ 22,134 \$ 1,581 \$ 13,157 \$ 543 \$ 126 \$ 4,322 \$ 6,917,118 \$ 46,202,319 \$ 6,230,289 \$ 52,432,609 \$ 52,432,609 \$ -	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 92,499 \$ 623,729 \$ 16,906 \$ 1,102 \$ 417 \$ 3,319 \$ 3,216,030 \$ 3,216,030 \$ 4,783,805	\$ 2,541,801 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ -	\$ 5,595 \$ 10,082 \$ 6,018 \$ 246,710 \$ 1,683,588 \$ 45,330 \$ 1,112 \$ 25,944 \$ 1,112 \$ 258 \$ 8,852 \$ 3,749,181 \$ 84,202,580 \$ 12,759,205	\$ 639 \$ 1,151 \$ 275,974 \$ 28,170 \$ 189,952 \$ 5,176 \$ 1,27 \$ 127 \$ 1,011 \$ 505,993 \$ 1,456,875 \$ 11,149,218 \$ 1,197,135	\$ 143 \$ 258 \$ 59,551 \$ 6,305 \$ 42,514 \$ 1,158 \$ 28 \$ 226 \$ 111,033 \$ 2,167,081 \$ 326,071 \$ 2,493,152 \$ 1,965,745	\$ 38 \$ 69 \$ 15,945 \$ 41 \$ 1,678 \$ 135 \$ 308 \$ -8 \$ 60 \$ 29,647 \$ 576,862 \$ 86,784 \$ 663,646 \$ 452,764	\$ 29 \$ 53 \$ 12,243 \$ 31 \$ 1,288 \$ 8,688 \$ 237 \$ 141 \$ 6 \$ 1 46 \$ 22,764 \$ 442,932 \$ 66,635 \$ 509,568 \$ 347,646	\$ 48 \$ 86 \$ 20,103 \$ 52 \$ 2,116 \$ 14,266 \$ 14,266 \$ 16,267 \$ 231 \$ 10 \$ 25 \$ 76 \$ 37,379 \$ 727,314 \$ 109,418	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 2,607 \$ 106,860 \$ 720,564 \$ 19,634 \$ 19,634 \$ 11,670 \$ 482 \$ 3,834 \$ 3,305,289 \$ 38,152,754 \$ 5,526,503 \$ 43,679,258 \$ 173,438	\$ 1.861 \$ 3.353 \$ 1,199,784 \$ 2,001 \$ 82,050 \$ 553,271 \$ 15,076 \$ 370 \$ 8,961 \$ 370 \$ 8,963 \$ 1,869,757 \$ 2,944 \$ 1,869,757 \$ 4,243,417 \$ 32,870,113 \$ 133,171	\$ 3.056 \$ 5,506 \$ 1,970,096 \$ 3,286 \$ 134,730 \$ 908,494 \$ 24,755 \$ 14,714 \$ 607 \$ 141 \$ 4,834 \$ 3,070,219 \$ 47,006,230 \$ 6,967,867 \$ 53,974,098 \$ 218,672	\$ 4,202 \$ 7,571 \$ 7,051,241 \$ 4,519 \$ 1,249,335 \$ 136,276 \$ 32,042 \$ - \$ 20,235 \$ 8,564,098 \$ 8,564,098 \$ 9,582,011 \$ 78,565,649 \$ -	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1,6 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Arial Transmission & Distribution Plantal Plant and and Land Rights ructures and Improvements" intral Operations Facility fice Furniture & Equipment ansportation Equipment mybure Equipment ols, Shop & Garage Equipment boratory Equipment were Operated Equipment immunication Equipment boratory Equipment immunication Equipment in the Tangible Plant and General Plant and General Plant and Improvement immunication Equipment in the Tangible Plant and Improvement in the Tangible Plant and Improvement immunication Equipment in the Tangible Plant and Improvement in the Tangible Plant and Improvement in the Tangible Plant investment in the Improvement in Improvement in the Improvement in the Improvement in the Improvement in the Improvement in Improvem	24 24 27 24 27 24 24 24 1 24 24 24 24 24 24	\$349,954,113 \$ 23,380 5,690,927 29,637,223 620,787 8,987,148 11,680,744 846,649 198,137 497,025 697,209 117,627 \$ 60,055,059 \$621,024,052	\$101,229,721 \$5,648,798 995,561 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638 \$22,993,797 \$247,778,320	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 4,648 1,077 36,989 \$ 37,061,262 \$ 3373,245,732 \$ 53,315,917 \$ 426,561,649 \$ 13,385,334 100.00%	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 120,468 \$ 120,468 \$ 12,326 \$ 22,134 \$ 1,581 \$ 13,157 \$ 543 \$ 126 \$ 4,322 \$ 6,917,118 \$ 6,230,289 \$ 52,432,609 \$ 52,432,609 \$ -0,00%	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 92,499 \$ 623,729 \$ 16,996 \$ 1,0102 \$ 417 \$ 3,319 \$ 3,216,030 \$ 3,216,030 \$ 4,783,805 \$ 3,8164,203 \$ 10,00%	\$ 2,541,801 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - 0.00%	\$ 5,595 \$ 10,082 \$ 1,734,692 \$ 6,018 \$ 246,710 \$ 1,663,588 \$ 45,330 \$ 1,112 \$ 25,944 \$ 1,112 \$ 258 \$ 8,852 \$ 3,749,181 \$ 84,202,580 \$ 12,759,205 \$ 96,961,786 \$ 1,559,113 \$ 11,65%	\$ 639 \$ 1,151 \$ 275,974 \$ 28,170 \$ 189,952 \$ 5,176 \$ 1,27 \$ 1,011 \$ 505,993 \$ 1,456,875 \$ 11,149,218 \$ 1,197,135 8,94%	\$ 143 \$ 258 \$ 59,551 \$ 6,305 \$ 42,514 \$ 1,158 \$ 28 \$ 226 \$ 111,033 \$ 2,167,081 \$ 326,071 \$ 2,493,152 \$ 1,965,745 \$ 14,69%	\$ 38 \$ 69 \$ 15,945 \$ 41 \$ 1,678 \$ 1315 \$ 308 \$ 183 \$ 8 \$ 29,647 \$ 576,862 \$ 86,784 \$ 663,646 \$ 452,764 3.38%	\$ 29 \$ 53 \$ 12,243 \$ 1,288 \$ 8,688 \$ 237 \$ - \$ 141 \$ 6 \$ 1 46 \$ 22,764 \$ 442,932 \$ 66,635 \$ 509,568 \$ 347,646 2.60%	\$ 48 \$ 86 \$ 20,103 \$ 52 \$ 2,116 \$ 14,266 \$ 389 \$ - \$ 231 \$ 10 \$ 76 \$ 77,374 \$ 109,418 \$ 836,731 \$ 570,849 4,26%	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 2,607 \$ 106,860 \$ 720,564 \$ 19,634 \$ 19,634 \$ 11,670 \$ 482 \$ 3,834 \$ 3,305,289 \$ 38,152,754 \$ 5,526,503 \$ 43,679,258 \$ 1173,438 \$ 1,30%	\$ 1.861 \$ 3.353 \$ 1,199,784 \$ 2,001 \$ 82,050 \$ 553,271 \$ 15,076 \$ 370 \$ 8,961 \$ 370 \$ 2,944 \$ 1,869,757 \$ 28,626,696 \$ 4,243,417 \$ 32,870,113 \$ 133,171 0.99%	\$ 3,056 \$ 5,506 \$ 1,970,096 \$ 3,286 \$ 134,730 \$ 908,494 \$ 24,755 \$ 14,714 \$ 607 \$ 141 \$ 4,834 \$ 3,070,219 \$ 47,006,230 \$ 6,967,867 \$ 218,672 \$ 16,672 \$ 16,672 \$ 16,672 \$ 16,672 \$ 16,672 \$ 16,576	\$ 4,202 \$ 7,571 \$ 7,051,241 \$ 4,519 \$ 1,249,335 \$ 126,227 \$ 2,225 \$ 20,235 \$ 8,20,235 \$ 6,648 \$ 8,564,098 \$ 9,582,011 \$ 78,565,649 \$ -	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ 1,4 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 1,4
tal Transmission & Distribution Pla tal Plant do and Land Rights uctures and Improvements'' intral Operations Facility dies Furniture & Equipment insportation Equipment mybute Equipment potential State of the Control of the Control Joseph & Garage Equipment overoprented Equipment mornations Equipment mornations Equipment tal General Plant all Plant all Plant instruction Work in Progress tal Plant Investment to of Central Operations Facility T& tof Carl of Plant Excl. M&S, all Plant Excl. General Plant	24 24 24 24 24 24 24 24 24 24 24 24 24 2	\$349,954,113 \$ 23,380 5,690,927 29,637,223 620,787 8,987,148 11,680,744 846,649 198,137 497,025 697,209 117,627 \$ 60,055,059 \$621,024,052	\$101,229,721 \$5,648,798 995,561 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638 \$22,993,797 \$247,778,320	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 4,648 1,077 36,989 \$ 37,061,262 \$ 3373,245,732 \$ 53,315,917 \$ 426,561,649 \$ 13,385,334 100.00%	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 2,339 \$ 120,468 \$ 120,268 \$ 122,26 \$ 13,157 \$ 13,157 \$ 13,157 \$ 12,52 \$ 6,917,118 \$ 46,202,319 \$ 52,432,609 \$ 52,432,609 \$ 50,200,289	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 92,499 \$ 623,729 \$ 16,996 \$ 10,102 \$ 10,102 \$ 417 \$ 3,319 \$ 3,216,030 \$ 33,380,398 \$ 4,783,805 \$ 38,164,203 \$ 30,164,368	\$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801	\$ - \$ - 0.00%	\$ 5,595 \$ 10,082 \$ 6,018 \$ 246,710 \$ 1,663,588 \$ 45,330 \$ 256,944 \$ 1,112 \$ 258 \$ 8,852 \$ 3,749,181 \$ 12,759,205 \$ 96,961,786 \$ 1,559,113 \$ 1,659,113 \$ 1,659,113 \$ 1,659,113 \$ 1,659,113	\$ 1,151 \$ 275,974 \$ 687 \$ 28,170 \$ 189,952 \$ 5,176 \$ 3,077 \$ 127 \$ 29 \$ 1,011 \$ 505,993 \$ 9,692,343 \$ 1,456,875 \$ 11,149,218 \$ 1,197,135 8,94% \$ 9,186,350	\$ 143 \$ 258 \$ 59,551 \$ 6,305 \$ 42,514 \$ 1,158 \$ 689 \$ 28 \$ 27 \$ 27 \$ 111,033 \$ 2,167,081 \$ 326,071 \$ 2,493,152 \$ 1,965,745 \$ 14,69% \$ 2,056,048	\$ 38 \$ 69 \$ 15,945 \$ 11,678 \$ 11,315 \$ 308 \$ 13,315 \$ 60 \$ 29,647 \$ 576,862 \$ 86,784 \$ 663,646 \$ 452,764 \$ 3,3876 \$ 547,216	\$ 29 \$ 53 \$ 12,243 \$ 1,288 \$ 8,688 \$ 227 \$ 141 \$ 6 \$ 22,764 \$ 442,932 \$ 66,635 \$ 509,568 \$ 347,646 \$ 22,069 \$ 420,169	\$ 48 \$ 86 \$ 20,103 \$ 52 \$ 2,116 \$ 14,266 \$ 389 \$ 231 \$ 10 \$ 76 \$ 37,379 \$ 727,314 \$ 109,418 \$ 836,731 \$ 570,849 \$ 4,2676 \$ 689,935	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 106,860 \$ 720,564 \$ 19,634 \$ 11,670 \$ 11,670 \$ 11,670 \$ 3,305,289 \$ 3,305,289 \$ 3,4,847,465	\$ 1,861 \$ 3,353 \$ 1,199,784 \$ 2,050 \$ 553,271 \$ 15,076 \$ 8,961 \$ 370 \$ 86 \$ 2,944 \$ 1,869,757 \$ 28,626,696 \$ 4,243,417 \$ 32,870,113 \$ 133,171 0.997 \$ 26,756,939	\$ 3,056 \$ 1,506 \$ 1,970,096 \$ 3,286 \$ 134,730 \$ 198,494 \$ 24,755 \$ 14,714 \$ 607 \$ 141 \$ 3,070,219 \$ 47,006,230 \$ 6,967,867 \$ 218,672 \$ 218,672 \$ 43,936,012	\$ 4,202 \$ 7,571 \$ 7,051,241 \$ 4,519 \$ 185,276 \$ 1,249,335 \$ 34,042 \$ 20,235 \$ 835 \$ 835 \$ 855,408 \$ 8,564,088 \$ 9,582,011 \$ 78,565,649 \$ 9,582,011 \$ 78,565,649 \$ 9,582,011	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1, \$ 5, \$ 1, \$ 10, \$ 6,
tal Transmission & Distribution Pla tal Plant d and Land Rights uctures and Improvements** utral Operations Facility and and Land Rights uctures and Improvements** utral Operations Facility aspects of Equipment asportation Equipment prouter Equipment prouter Equipment proutory Equipment merroparated Equipment merroparated Equipment cellaneous Equipment tal General Plant al Plant and Plant and Plant and Plant Investment t of Central Operations Facility T& tof Cal Sal T&D Plant Excl. M&S, al Plant Excl. General Plant	24 24 24 24 24 24 24 24 24 24 24 24 24 2	\$349,954,113 \$ 23,380 5,690,927 29,637,223 620,787 8,987,148 11,680,744 846,649 198,137 497,025 697,209 117,627 \$ 60,055,059 \$621,024,052	\$101,229,721 \$5,648,798 995,561 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638 \$22,993,797 \$247,778,320	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 142,649 4,649 4,649 \$ 37,061,262 \$ 37,32,45,732 \$ 53,315,917 \$ 426,561,649 \$ 13,385,334 100,00% \$ 336,184,470	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 120,468 \$ 120,468 \$ 12,326 \$ 22,134 \$ 1,581 \$ 13,157 \$ 543 \$ 126 \$ 4,322 \$ 6,917,118 \$ 6,230,289 \$ 52,432,609 \$ 52,432,609 \$ -0,00%	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 92,499 \$ 623,729 \$ 16,996 \$ 1,0102 \$ 417 \$ 3,319 \$ 3,216,030 \$ 3,216,030 \$ 4,783,805 \$ 3,8164,203 \$ 10,00%	\$ 2,541,801 \$ 2,541,801 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - 0.00%	\$ 5,595 \$ 10,082 \$ 6,018 \$ 246,710 \$ 1,663,588 \$ 45,330 \$ 256,944 \$ 1,112 \$ 258 \$ 8,852 \$ 3,749,181 \$ 12,759,205 \$ 96,961,786 \$ 1,559,113 \$ 1,659,113 \$ 1,659,113 \$ 1,659,113 \$ 1,659,113	\$ 639 \$ 1,151 \$ 275,974 \$ 28,170 \$ 189,952 \$ 5,176 \$ 1,27 \$ 1,011 \$ 505,993 \$ 1,456,875 \$ 11,149,218 \$ 1,197,135 8,94%	\$ 143 \$ 258 \$ 59,551 \$ 6,305 \$ 42,514 \$ 1,158 \$ 28 \$ 226 \$ 111,033 \$ 2,167,081 \$ 326,071 \$ 2,493,152 \$ 1,965,745 \$ 14,69%	\$ 38 \$ 69 \$ 15,945 \$ 41 \$ 1,678 \$ 1315 \$ 308 \$ 183 \$ 8 \$ 29,647 \$ 576,862 \$ 86,784 \$ 663,646 \$ 452,764 3.38%	\$ 29 \$ 53 \$ 12,243 \$ 1,288 \$ 8,688 \$ 237 \$ - \$ 141 \$ 6 \$ 1 46 \$ 22,764 \$ 442,932 \$ 66,635 \$ 509,568 \$ 347,646 2.60%	\$ 48 \$ 86 \$ 20,103 \$ 52 \$ 2,116 \$ 14,266 \$ 389 \$ - \$ 231 \$ 10 \$ 76 \$ 77,374 \$ 109,418 \$ 836,731 \$ 570,849 4,26%	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 2,607 \$ 106,860 \$ 720,564 \$ 19,634 \$ 19,634 \$ 11,670 \$ 482 \$ 3,834 \$ 3,305,289 \$ 38,152,754 \$ 5,526,503 \$ 43,679,258 \$ 1173,438 \$ 1,30%	\$ 1.861 \$ 3.353 \$ 1,199,784 \$ 2,001 \$ 82,050 \$ 553,271 \$ 15,076 \$ 370 \$ 8,961 \$ 370 \$ 2,944 \$ 1,869,757 \$ 28,626,696 \$ 4,243,417 \$ 32,870,113 \$ 133,171 0.99%	\$ 3,056 \$ 5,506 \$ 1,970,096 \$ 3,286 \$ 134,730 \$ 908,494 \$ 24,755 \$ 14,714 \$ 607 \$ 141 \$ 4,834 \$ 3,070,219 \$ 47,006,230 \$ 6,967,867 \$ 218,672 \$ 16,672 \$ 16,672 \$ 16,672 \$ 16,672 \$ 16,672 \$ 16,576	\$ 4,202 \$ 7,571 \$ 7,051,241 \$ 4,519 \$ 1,249,335 \$ 126,227 \$ 2,225 \$ 20,235 \$ 8,20,235 \$ 6,648 \$ 8,564,098 \$ 9,582,011 \$ 78,565,649 \$ -	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,313,311 \$ 1,313,311 \$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1,1 \$ 5 \$ 1,1 \$ 9,7 \$ 10,5
stal Transmission & Distribution Pla stal Plant and and Land Rights ructures and Improvements** intral Operations Facility fice Furniture & Equipment ansportation Equipment proputer Equipment botaron Equipment botaron Equipment memory boratory Equipment memory boratory Equipment memory boratory Equipment memory boratory Equipment scellaneous Equipment botal General Plant total General Plant et of Central Operations Facility tet of C	24 24 24 24 24 24 24 24 24 24 24 24 24 2	\$349,954,113 \$ 23,380 5,690,927 29,637,223 620,787 8,987,148 11,680,744 846,649 198,137 497,025 697,209 117,627 \$ 60,055,059 \$621,024,052	\$101,229,721 \$5,648,798 995,561 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638 \$22,993,797 \$247,778,320	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 142,649 4,649 37,061,262 \$37,045,732 \$37,051,262 \$373,245,732 \$13,385,334 100,00% \$336,184,470	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 2,339 \$ 120,468 \$ 120,268 \$ 122,134 \$ 13,157 \$ 13,157 \$ 13,157 \$ 6,917,118 \$ 46,202,319 \$ 52,432,609 \$ 52,432,609 \$ 9,000 \$ 9,00	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 92,499 \$ 623,729 \$ 16,996 \$ 10,102 \$ 10,102 \$ 417 \$ 3,319 \$ 3,216,030 \$ 33,380,398 \$ 4,783,805 \$ 38,164,203 \$ 30,164,368 8,97%	\$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801	\$ - \$ - 0.00%	\$ 5,595 \$ 10,082 \$ 6,018 \$ 246,710 \$ 1,663,588 \$ 45,330 \$ 1,112 \$ 258 \$ 8,852 \$ 3,749,181 \$ 84,202,580 \$ 12,759,205 \$ 96,961,786 \$ 1,559,113 \$ 11,65% \$ 80,453,399 \$ 23,33%	\$ 639 \$ 1,151 \$ 275,974 \$ 687 \$ 28,170 \$ 189,952 \$ 5,176 \$ 3,077 \$ 127 \$ 29 \$ 1,011 \$ 505,993 \$ 9,692,343 \$ 1,456,875 \$ 11,149,218 \$ 9,186,350 2.73%	\$ 143 \$ 258 \$ 59,551 \$ 6,305 \$ 42,514 \$ 1,158 \$ 28 \$ 226 \$ 111,033 \$ 2,167,081 \$ 326,071 \$ 1,965,745 14,69% \$ 2,056,048 0.61%	\$ 38 \$ 69 \$ 15,945 \$ 41 \$ 1,678 \$ 11,315 \$ 308 \$ - 183 \$ 8 \$ 29,647 \$ 576,862 \$ 86,784 \$ 663,646 \$ 452,764 \$ 3,38% \$ 547,216 \$ 0,16%	\$ 29 \$ 53 \$ 12,243 \$ 1,288 \$ 8,688 \$ 237 \$ 141 \$ 6 \$ 22,764 \$ 42,932 \$ 66,635 \$ 509,568 \$ 347,646 2,60% \$ 420,169 0,12%	\$ 48 \$ 86 \$ 20,103 \$ 52 \$ 2,116 \$ 14,266 \$ 389 \$ 231 \$ 10 \$ 76 \$ 37,379 \$ 727,314 \$ 109,418 \$ 836,731 \$ 570,849 \$ 4,26% \$ 689,935 \$ 0,21%	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 106,860 \$ 720,564 \$ 19,634 \$ 11,670 \$ 11,670 \$ 3,305,289 \$ 3,305,289 \$ 3,4,52,754 \$ 5,526,503 \$ 43,679,258 \$ 173,438 \$ 1,30% \$ 34,847,465	\$ 1,861 \$ 3,353 \$ 1,199,784 \$ 2,050 \$ 553,271 \$ 15,076 \$ 8,961 \$ 370 \$ 86 \$ 2,944 \$ 1,869,757 \$ 28,626,696 \$ 4,243,417 \$ 32,870,113 \$ 133,171 \$ 0,99% \$ 26,756,939	\$ 3,056 \$ 1,506 \$ 1,970,096 \$ 3,286 \$ 134,730 \$ 198,494 \$ 24,755 \$ 14,714 \$ 607 \$ 141 \$ 3,070,219 \$ 47,006,230 \$ 6,967,867 \$ 218,672 \$ 218,672 \$ 16,379 \$ 43,936,012 \$ 43,936,012	\$ 4.202 \$ 7.571 \$ 7.051,241 \$ 4.519 \$ 185,276 \$ 1249,335 \$ 34,042 \$ 20,235 \$ 855 \$ 855 \$ 855 \$ 855 \$ 855 \$ 855 \$ 78,565,649 \$ 78,565,649 \$ 0.0419,541 \$ 0.0419,541	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1,6 \$ 1,6 \$ 5 \$ 1,6 \$ 1,0 \$ 10,2 \$ 6,7
Intel Transmission & Distribution Plant Ind and Land Rights ucutures and Improvements'' intral Operations Facility fice Furniture & Equipment ansportation Equipment obstatory Equipment obstatory Equipment obstatory Equipment scale and the second of the s	24 24 27 24 24 24 24 24 24 24 24 24 24 24 24 24	\$349,954,113 \$ 23,380 5,690,927 29,637,223 620,787 8,987,148 11,680,744 846,649 198,137 497,025 697,209 117,627 \$ 60,055,059 \$621,024,052	\$101,229,721 \$5,648,798 995,561 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638 \$22,993,797 \$247,778,320	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 4,648 1,077 36,989 \$ 37,061,262 \$373,245,732 \$ 53,315,917 \$426,561,649 \$ 13,385,334 100.00% \$336,884,470 100.00%	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 120,468 \$ 120,468 \$ 12,326 \$ 22,134 \$ 1,581 \$ 13,157 \$ 543 \$ 126 \$ 4,322 \$ 6,917,118 \$ 6,230,289 \$ 52,432,609 \$ 0.00% \$ 52,432,609 \$ 11,689 \$ 11,689 \$ 12,689 \$ 12,689 \$ 12,689 \$ 13,689 \$ 13,689 \$ 14,689 \$ 14	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 92,499 \$ 623,729 \$ 16,996 \$ 10,102 \$ 417 \$ 97 \$ 3,319 \$ 3,216,030 \$ 4,783,805 \$ 4,783,805 \$ 30,164,368 \$ 30,917,562	\$ 2,541,801 \$ - \$ 2,541,801 \$ - \$ 3 - \$ 3 - \$ 2,541,801 \$ 2,541,801 \$ - \$ 0.00% \$ - \$ - \$ - \$ 5	\$ - \$ - 0.009 \$ - 0.009	\$ 5,595 \$ 10,082 \$ 1,734,692 \$ 6,0118 \$ 246,710 \$ 1,663,588 \$ 45,330 \$	\$ 639 \$ 1,151 \$ 275,974 \$ 687 \$ 28,170 \$ 189,952 \$ 5,176 \$ 1,27 \$ 1,011 \$ 505,993 \$ 1,456,875 \$ 11,149,218 \$ 1,197,135 \$ 8,94% \$ 9,842,343 \$ 9,842,343 \$ 1,456,875	\$ 143 \$ 258 \$ 59,551 \$ 6,305 \$ 42,514 \$ 1,158 \$ 1,158 \$ 28 \$ 7 \$ 226 \$ 111,033 \$ 2,167,081 \$ 326,071 \$ 2,493,152 \$ 1,965,745 \$ 1,63% \$ 2,056,048 \$ 2,017,084	\$ 38 \$ 69 \$ 15,945 \$ 41 \$ 1,678 \$ 11,315 \$ 308 \$ 183 \$ 8 \$ 29,647 \$ 576,862 \$ 86,784 \$ 663,648 \$ 452,764 \$ 3,38% \$ 547,216 \$ 1,16% \$ 1,16%	\$ 29 \$ 53 \$ 12,243 \$ 11,288 \$ 8,688 \$ 237 \$ 141 \$ 6 \$ 22,764 \$ 42,932 \$ 66,635 \$ 347,646 \$ 20,169 \$ 122,664 \$ 444,690 \$ 444,690	\$ 48 \$ 86 \$ 20,103 \$ 2,116 \$ 14,266 \$ 389 \$ - \$ 231 \$ 10 \$ 221 \$ 76 \$ 37,379 \$ 727,314 \$ 109,418 \$ 570,849 4,26% \$ 689,935	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 106,850 \$ 720,564 \$ 19,634 \$ 19,634 \$ 11,670 \$ 482 \$ 3,305,289 \$ 38,152,754 \$ 5,526,503 \$ 43,679,258 \$ 173,438 1.30% \$ 348,47,465 10,37% \$ 345,799,627	\$ 1.861 \$ 3.353 \$ 1,199,784 \$ 2,050 \$ 553,271 \$ 15,076 \$ 370 \$ 8,961 \$ 370 \$ 2,944 \$ 1.869,757 \$ 28,626,696 \$ 4,243,417 \$ 32,870,113 \$ 133,171 \$ 0.99% \$ 27,418,933	\$ 3,056 \$ 5,506 \$ 1,970,096 \$ 134,730 \$ 908,494 \$ 24,755 \$ 14,714 \$ 607 \$ 141 \$ 4,834 \$ 3,070,219 \$ 47,006,230 \$ 6,967,867 \$ 218,672 1.63% \$ 43,936,012 \$ 43,079,333 \$ 445,023,033	\$ 4,202 \$ 7,571 \$ 7,051,241 \$ 4,519 \$ 1,249,335 \$ 13,249,335 \$ 340,425 \$ 20,235 \$ \$ 20,235 \$ \$ 20,235 \$ \$ 8,564,098 \$ 6,648 \$ 9,582,011 \$ 7,8565,649 \$ 0,000% \$ 60,419,547% \$ 60,419,547% \$ 61,928,196	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,313,311 \$ - \$ 1,313,311 \$ - \$ 1,000% \$ -	\$ 1,6 \$ 1,6 \$ 5 \$ 1,8 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5
tal Transmission & Distribution Pla ral Plant d and Land Rights uctures and Improvements'' intral Operations Facility fice Furniture & Equipment ansportation Equipment myputer Equipment ols, Shop & Garage Equipment borstarby Equipment seer Caption of Caption mynunication Equipment memunication Equipment scellaneous Equipment memunication Equipment scellaneous Equipment tal Plant tal Plant tal Plant tal Plant Investment et of Central Operations Facility T& ctor 23 - As T&D Plant Excl. M&S, tal Plant Excl. General Plant tot 724 - As Total Plant Excl. General tal Plant Excl. General Plant tot 724 - As Total Plant Excl. General	24 24 27 24 24 24 24 24 24 24 24 24 24 24 24 24	\$349,954,113 \$ 23,380 5,690,927 29,637,223 620,787 8,987,148 11,680,744 846,649 198,137 497,025 697,209 117,627 \$ 60,055,059 \$621,024,052	\$101,229,721 \$5,648,798 995,561 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638 \$22,993,797 \$247,778,320	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 142,649 4,649 37,061,262 \$37,045,732 \$37,051,262 \$373,245,732 \$13,385,334 100,00% \$336,184,470	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 2,339 \$ 120,468 \$ 120,268 \$ 122,134 \$ 13,157 \$ 13,157 \$ 13,157 \$ 6,917,118 \$ 46,202,319 \$ 52,432,609 \$ 52,432,609 \$ 9,000 \$ 9,00	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,256 \$ 92,499 \$ 623,729 \$ 16,996 \$ 10,102 \$ 10,102 \$ 417 \$ 3,319 \$ 3,216,030 \$ 33,380,398 \$ 4,783,805 \$ 38,164,203 \$ 30,164,368 8,97%	\$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801 \$ 2,541,801	\$ - \$ - 0.009 \$ - 0.009	\$ 5,595 \$ 10,082 \$ 1,734,692 \$ 6,0118 \$ 246,710 \$ 1,663,588 \$ 45,330 \$	\$ 639 \$ 1,151 \$ 275,974 \$ 687 \$ 28,170 \$ 189,952 \$ 5,176 \$ 3,077 \$ 127 \$ 29 \$ 1,011 \$ 505,993 \$ 9,692,343 \$ 1,456,875 \$ 11,149,218 \$ 9,186,350 2.73%	\$ 143 \$ 258 \$ 59,551 \$ 6,305 \$ 42,514 \$ 1,158 \$ 28 \$ 226 \$ 111,033 \$ 2,167,081 \$ 326,071 \$ 1,965,745 14,69% \$ 2,056,048 0.61%	\$ 38 \$ 69 \$ 15,945 \$ 41 \$ 1,678 \$ 11,315 \$ 308 \$ - 183 \$ 8 \$ 29,647 \$ 576,862 \$ 86,784 \$ 663,646 \$ 452,764 \$ 3,38% \$ 547,216 \$ 0,16%	\$ 29 \$ 53 \$ 12,243 \$ 1,288 \$ 8,688 \$ 237 \$ 141 \$ 6 \$ 22,764 \$ 42,932 \$ 66,635 \$ 509,568 \$ 347,646 2,60% \$ 420,169 0,12%	\$ 48 \$ 86 \$ 20,103 \$ 52 \$ 2,116 \$ 14,266 \$ 389 \$ 231 \$ 10 \$ 76 \$ 37,379 \$ 727,314 \$ 109,418 \$ 836,731 \$ 570,849 \$ 4,26% \$ 689,935 \$ 0,21%	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 106,860 \$ 720,564 \$ 19,634 \$ 11,670 \$ 11,670 \$ 3,305,289 \$ 3,305,289 \$ 3,4,52,754 \$ 5,526,503 \$ 43,679,258 \$ 173,438 \$ 1,30% \$ 34,847,465	\$ 1,861 \$ 3,353 \$ 1,199,784 \$ 2,050 \$ 553,271 \$ 15,076 \$ 8,961 \$ 370 \$ 86 \$ 2,944 \$ 1,869,757 \$ 28,626,696 \$ 4,243,417 \$ 32,870,113 \$ 133,171 \$ 0,99% \$ 26,756,939	\$ 3,056 \$ 1,506 \$ 1,970,096 \$ 3,286 \$ 134,730 \$ 198,494 \$ 24,755 \$ 14,714 \$ 607 \$ 141 \$ 3,070,219 \$ 47,006,230 \$ 6,967,867 \$ 218,672 \$ 218,672 \$ 16,379 \$ 43,936,012 \$ 43,936,012	\$ 4.202 \$ 7.571 \$ 7.051,241 \$ 4.519 \$ 185,276 \$ 1249,335 \$ 34,042 \$ 20,235 \$ 855 \$ 855 \$ 855 \$ 855 \$ 855 \$ 855 \$ 78,565,649 \$ 78,565,649 \$ 0.0419,541 \$ 0.0419,541	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,313,311 \$ - \$ 1,313,311 \$ - \$ 0.009 \$ -	\$ 1,6 \$ 1,6 \$ 5 \$ 1,8 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5
stal Transmission & Distribution Pla transmission & Distribution Pla transmission & Distribution Pla transmission & Distribution Pla transmission & Grading transmission	24 24 27 24 24 24 24 24 24 24 24 24 24 24 24 24	\$349,954,113 \$ 23,380 5,690,927 29,637,223 620,787 8,987,148 11,680,744 846,649 198,137 497,025 697,209 117,627 \$ 60,055,059 \$621,024,052	\$101,229,721 \$5,648,798 995,561 7,866,240 4,739,235 657,232 196,548 384,436 1,133,547 696,132 80,638 \$22,993,797 \$247,778,320	\$ 23,380 42,129 28,641,882 25,146 1,030,909 6,951,508 189,417 1,589 4,648 1,077 36,989 \$ 37,061,262 \$373,245,732 \$ 53,315,917 \$426,561,649 \$ 13,385,334 100.00% \$336,884,470 100.00%	\$ 2,732 \$ 4,923 \$ 5,931,867 \$ 120,468 \$ 120,468 \$ 12,326 \$ 22,134 \$ 1,581 \$ 13,157 \$ 543 \$ 126 \$ 6,917,118 \$ 46,202,319 \$ 6,230,289 \$ 0.00% \$ 52,432,609 \$ 10,00% \$ 1	\$ 2,098 \$ 3,780 \$ 2,460,738 \$ 2,266 \$ 92,499 \$ 623,729 \$ 16,996 \$ 10,102 \$ 417 \$ 97 \$ 3,319 \$ 3,216,030 \$ 4,783,805 \$ 4,783,805 \$ 30,164,368 \$ 30,917,562 \$ 30,917,562 \$ 30,917,562	\$ 2,541,801 \$ - \$ 2,541,801 \$ - \$ 3 - \$ 3 - \$ 2,541,801 \$ 2,541,801 \$ - \$ 0.00% \$ - \$ - \$ - \$ 5 - \$ 6 - \$ 7 - 5 7	\$ - \$ - 0.00% \$ - 0.00%	\$ 5,595 \$ 10,082 \$ 1,734,692 \$ 6,0118 \$ 246,710 \$ 1,663,588 \$ 45,330 \$	\$ 639 \$ 1,151 \$ 275,974 \$ 687 \$ 28,170 \$ 189,952 \$ 5,176 \$ 1,27 \$ 1,011 \$ 505,993 \$ 1,456,875 \$ 11,149,218 \$ 1,197,135 \$ 8,94% \$ 9,347,708 \$ 9,347,708 \$ 9,347,708	\$ 143 \$ 258 \$ 59,551 \$ 6,305 \$ 42,514 \$ 1,158 \$ 1,158 \$ 28 \$ 7 \$ 226 \$ 111,033 \$ 2,167,081 \$ 326,071 \$ 326,071 \$ 1,965,745 \$ 14,63% \$ 2,017,084 \$ 0.66%	\$ 38 \$ 69 \$ 15,945 \$ 11,315 \$ 11,315 \$ 308 \$ 183 \$ 8 \$ 29,647 \$ 576,862 \$ 86,784 \$ 663,646 \$ 452,764 \$ 3,38% \$ 547,216 0.18%	\$ 29 \$ 53 \$ 12,243 \$ 11,288 \$ 8,688 \$ 237 \$ 141 \$ 6 \$ 22,764 \$ 442,932 \$ 66,635 \$ 509,568 \$ 347,646 260% \$ 414,690 0.14%	\$ 48 \$ 86 \$ 20,103 \$ 2,116 \$ 14,266 \$ 389 \$ - \$ 10 \$ 231 \$ 10 \$ 76 \$ 77,379 \$ 727,314 \$ 109,418 \$ 570,849 4,26% \$ 689,935 0,22%	\$ 2,423 \$ 4,367 \$ 2,432,737 \$ 106,850 \$ 720,564 \$ 19,634 \$ 19,634 \$ 11,670 \$ 482 \$ 3,305,289 \$ 38,152,754 \$ 5,526,503 \$ 43,679,258 \$ 173,438 \$ 130% \$ 348,47,465 \$ 10,37% \$ 35,709,627 \$ 11,71%	\$ 1.861 \$ 3.353 \$ 1,199,784 \$ 2,050 \$ 553,271 \$ 15,076 \$ 370 \$ 8,961 \$ 370 \$ 2,944 \$ 1,869,757 \$ 28,626,696 \$ 4,243,417 \$ 32,870,113 \$ 133,171 \$ 0.99% \$ 27,418,933 \$ 99%	\$ 3,056 \$ 5,506 \$ 1,970,096 \$ 134,730 \$ 908,494 \$ 24,755 \$ 14,714 \$ 607 \$ 141 \$ 4,834 \$ 3,070,219 \$ 47,006,230 \$ 6,967,867 \$ 218,672 1.63% \$ 43,936,012 \$ 43,079,333 \$ 445,023,033	\$ 4,202 \$ 7,571 \$ 7,051,241 \$ 4,519 \$ 1,249,335 \$ 12,249,335 \$ 340,425 \$ 20,235 \$ \$ 20,235 \$ \$ 20,235 \$ \$ 8,564,098 \$ 6,648 \$ 6,648 \$ 9,582,011 \$ 76,565,649 \$ 0,000% \$ 60,419,547 \$ 60,19,547 \$ 61,928,196 20,30%	\$ 1,313,311 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,313,311 \$ - \$ 1,313,311 \$ - \$ 0.00% \$ - \$ 0.00%	\$ 1,6 \$ 1,0 \$ 1,0 \$ 1,0 \$ 10,4 \$ 10,4 \$ 7,4

		Dem	and			Demand		Billi	ng	
Customer		Maximum	Maximum			Maximum	Maximum	Meters &	Monthly	Direct
Class	Base	Day Extra	Hour Extra	Base	Base	Day Extra	Hour Extra	Services	Bills	Fire
	HCF	HCF/d	HCF/d	HCF	HCF	HCF/d	HCF/d	5/8" Eq.	Bills	6" Eq.
Retail										
Residential - Low	5,607,430	5,711	17,751	5,607,430	5,607,430	5,711	17,751			
Commercial - Low	2,699,247	3,408	9,204	2,699,247	2,699,247	3,408	9,204			
Industrial - Low	125,013	97	366	125,013	125,013	97	366			
Residential - High	5,105,321	7,244	18,206	5,105,321	5,105,321	7,244	18,206			
Commercial - High	2,457,547	4,163	9,440	2,457,547	2,457,547	4,163	9,440			
Industrial - High	113,819	131	375	113,819	113,819	131	375			
Sub-total Retail	16,108,376	20,753	55,343	16,108,376	16,108,376	20,753	55,343	88,313	931,056	
Fire Protection										
Private	-	690	2,070	-		690	2,070	40,187	23,940	
Public (Providence)	69,188	1,085	3,254	69,188	69,188	1,085	3,254			3,232
Public (All Other)	71,029	1,113	3,340	71,029	71,029	1,113	3,340			3,318
Subtotal Fire Protection	140,217	2,888	8,663	140,217	140,217	2,888	8,663	40,187	23,940	6,550
Wholesale										
Bristol County	1,574,775	2,096	1,238	1,574,775	1,574,775	2,096	1,238			
East Providence	1,910,247	3,323	5,480	1,910,247	1,910,247	3,323	5,480			
Greenville	448,469	1,168	1,202	448,469	448,469	1,168	1,202			
Kent County	2,849,950	3,166	5,622	2,849,950	2,849,950	3,166	5,622			
Lincoln	1,108,770	2,557	952	1,108,770	1,108,770	2,557	952			
Smithfield	415,430	1,255	419	415,430	415,430	1,255	419			
Warwick	3,626,433	13,254	3,941	3,626,433	3,626,433	13,254	3,941			
Wholesale	11,934,074	26,821	18,855	11,934,074	11,934,074	26,821	18,855	-	-	-
Grand Total	28,182,668	50,462	82,860	28,182,668	28,182,668	50,462	82,860	128,499	954,996	6,550

Schedule HJS-17: Unit Cost of Service

AMENDED SURREBUTTAL BY MICHAEL R. MAKER

			СТ	A - Tran	smissi	on & Dis	tributio	on		CTA - S	upply,	Treatmen	t & Lo	w Service		Hig	gh S <u>e</u>	rvice & Re	tail					_		Retai	l On	ly			
																											N	Meters &	Billing &		
Description	Total		ase	Max D	,	Max H			Base	Base		Max Day	•	Max Hour		Base		lax Day		lax Hour		Base		x Day		Max Hour		Services	Collection	I	Direct Fire
T		Н	CF	HCF/	/d	HCF.	/d		HCF	HCF		HCF/d		HCF/d		HCF		HCF/d		HCF/d		HCF	F	ICF/d		HCF/d		5/8" Eq.	Bills		6" Eq.
Total Units of Service		40.4	100.070		0.750	_	- 040	4.0	100.070	40 400 0	70	00.7		FF 040		7.070.000		44 507		00.004		10 400 070		00.750		55.040		00.040	004.0	^	
Retail Fire Protection			108,376		0,753		5,343	16	5,108,376	16,108,3		20,7		55,343		7,676,686		11,537		28,021	1	16,108,376		20,753		55,343		88,313	931,0		0.550
			140,217		2,888		8,663		140,217	140,2		2,8		8,663		140,217		2,888		8,663		140,217		2,888		8,663		40,187	23,9	U	6,550
Bristol County			574,775		2,096		1,238		1,574,775	1,574,7		2,0 3.3		1,238																	
East Providence Greenville			910,247		3,323 1.168		5,480 1,202	1	1,910,247	1,910,2		3,3 1.1		5,480		440.400		4.400		4 000											
			148,469		3.166				448,469	448,4		3.1		1,202		448,469		1,168		1,202											
Kent County			349,950				5,622		2,849,950	2,849,9				5,622		4 400 770		0.557		050											
Lincoln			108,770		2,557		952	1	1,108,770	1,108,7		2,5 1.2		952		1,108,770		2,557		952 419											
Smithfield			115,430 326,433		1,255 3.254		419 3.941		415,430 3.626.433	415,4 3,626,4		13.2		419 3.941		415,430		1,255		419											
Warwick																0.700.570		10 100		00.050				00.044		04.000		100 100	2512	_	0.550
Total		28,1	182,668	50	0,462	8	2,860	28	3,182,668	28,182,6	68	50,4	62	82,860		9,789,573		19,406		39,258	1	16,248,593		23,641		64,006		128,499	954,9	6	6,550
Unit Cost of Service																															
O&M Expense	\$ 38,256,980	•	137.086	¢ 22	5.616	\$ 87	4.937	\$ 2	2.261.317	\$ 15.623.6	80 \$	1.705.7	26 ¢	(12,867)	Ф	198,198	e	152,182	\$	249.890	œ	934.539	œ	717.576	\$	1.178.289	\$	4.186.904	\$ 7.692.6	5 \$	1,721,291
Unit Cost (\$/Unit)	\$ 30,230,900	Φ 4	. ,		- /		,	\$	0.08		.55 \$	33.					\$	7.84	\$	- ,	\$,	φ \$,		, .,	\$	32.58			262.79
Offit Cost (\$/Offit)		Ф	0.02	Ф	6.65	Ф	10.56	Ф	0.06	\$ 0	. ээ ф	33.	00 ф	(0.16)	Ф	0.02	Ф	7.04	Ф	0.37	Ф	0.06	Ф	30.35	\$	10.41	Ф	32.30	φ ο.ι	6 \$	202.79
Capital Expense	\$ 37.967.000	\$ 4.6	324.840	\$ 3.53	7.605	\$ 1	6.204	\$	_	\$ 4.982.2	91 \$	1.066.5	87 \$	230,152	\$	61.624	\$	47.317	\$	77.696	\$	4.096.514	\$ 3	141.168	\$	5.157.929	\$	8.099.390	\$ 2.008.3	2 \$	819,312
Unit Cost (\$/Unit)	Ψ 0.,00.,000	\$.,c			70.10		0.20	\$,,-	18 \$	21.			\$	- 1-	\$	2.44	\$	1.98	\$.,	\$	132.87		-, -, -		63.03		0 \$	125.09
Ornic Oddi (Gronni)		Ψ	0.10	•		Ψ	0.20	Ψ		• •	φ		ψ	20	Ψ	0.01	~		•		•	0.20	~	.02.01	Ψ.	00.00	Ψ	00.00	Ψ	• •	120.00
City Services Expens	e \$ 839.167	\$	14.126	\$ 10	0.847	\$ 1	7.811	\$	52,409	\$ 305.9	57 \$	18.9	93 \$	- :	\$	3.388	\$	2.601	\$	4.271	\$	24,479	\$	18,795	\$	30.862	\$	114.361	\$ 179.3	6 \$	40,929
Unit Cost (\$/Unit)		\$	0.00	\$	0.21	\$	0.21	\$	0.00	\$ 0	.01 \$	0.	38 \$		\$	0.00	\$	0.13	\$	0.11	\$	0.00	\$	0.80	\$	0.48	\$	0.89	\$ 0.	9 \$	6.25
		*		*		*		*		•			+		-		*		-		*		*		*		*		•		
Property Tax Expens	s \$ 7.934.311	\$	-	\$	_	\$	-	\$	-	\$ 4,445.4	30 \$	3.098.2	33 \$	72,874	\$	104.242	\$	80,040	\$	131,429	\$	-	\$		\$	-	\$	-	s -	\$	2,062
Unit Cost (\$/Unit)	.,	\$		\$		\$	-	\$	-		16 \$	61.			\$	- 1	\$	4.12	\$	3.35			\$		\$	-	\$	-	· •	\$	0.31
Ornic Oddi (Gronni)		Ψ		Ψ		Ψ		Ψ		• •	φ	0	.υ ψ	0.00	Ψ	0.01	~	2	•	0.00	•		~		Ψ.		Ψ		*	Ψ.	0.01
Net Op Rev Allowand	e \$ 1,699,949	\$ 1	101,521	\$ 7	7.681	\$ 1	8.179	\$	46,275	\$ 507.	47 \$	117.7	91 \$	5,803	\$	7,349	\$	5,643	\$	9,266	\$	101,111	\$	77,551	\$	127.342	\$	248.013	\$ 197.60	6 \$	51,672
Unit Cost (\$/Unit)	υ ψ 1,000,010	\$		\$		\$	0.22	\$	0.00		.02 \$		33 \$	0.07	\$	0.00	Š	0.29			\$. ,	\$	3.28	-	1.99	\$	1.93		1 \$	7.89
Cim Cost (World)		Ψ	0.00	Ψ	54	Ψ	0.22	Ψ	0.00	Ψ 0	υ Ψ		υ Ψ	0.07	Ψ	3.00	Ψ.	0.20	~	0.24	Ψ	3.01	Ψ	3.20	Ψ	1.55	Ψ	1.55	Ψ 0	. ψ	7.00
Total Cost of Service	\$ 86.697.407	\$ 5.1	177.574	\$ 3.96	1.750	\$ 92	7.131	\$ 2	2.360.001	\$ 25.864.5	05 \$	6.007.3	40 \$	295.963	\$	374.801	\$	287.783	\$	472.552	\$	5.156.643	\$ 3	955.089	\$	6.494.422	\$	12.648.668	\$ 10.077.9	9 \$	2,635,266
Unit Cost (\$/Unit)	Ψ 00,001,401	\$ 0,1	, -		78.51		, -	\$	0.08		.92 \$	- 1 1 -		,	\$		\$	14.83	-	,	\$	-,,-	\$,		101.47		98.43			402.33
Onit Cost (WOTH)		Ψ	0.10	Ψ	70.01	Ψ	11.13	Ψ	0.00	Ψ	- Ψ	113.	υυ ψ	3.37	Ψ	3.04	Ψ	14.00	Ψ	12.04	Ψ	0.02	Ψ	107.00	Ψ	101.47	Ψ	55.45	ψ 10.	υ ψ	-02.00

Description Unit Cost of Service (\$ Retail Service: Residential Volume	Total	Bas	se	Max Day	Ι.	Max Hour	l .	_	_																	N	leters &	Bi	lling &		
Unit Cost of Service (\$ Retail Service: Residential Volume	•		se i												_						_									Α.	
Retail Service:	S/Unit)			HCF/d		HCF/d		HCF	Base HCF		Max Day HCF/d	IVI	AX Hour HCF/d		Base HCF		lax Day HCF/d	l N	Max Hour HCF/d		Base HCF	, N	Max Day HCF/d		AX Hour HCF/d		5/8" Eq.	Co	Ilection Bills		ect Fire 6" Eq.
Residential Volume		\$			1 \$	11.19		0.08		2 \$	119.05	\$	3.57	\$	0.04		14.83	\$	12.04	\$		\$	167.30		101.47		98.43	\$	10.55		402.3
	9																														
Units of Service	9	10,7	2,750	12,95	4	35,958	10	0,712,750	10,712,750)	12,954		35,958		5,105,321		7,244		18,206		10,712,750		12,954		35,958		-		-		
Cost of Service	\$ 25,524,259	\$ 1,96	8,091	\$ 1,017,04	4 \$	402,332	\$	897,080	\$ 9,831,574	4 \$	1,542,180	\$	128,434	\$	195,461	\$	107,422	\$	219,150	\$	3,399,791	\$	2,167,218	\$	3,648,482	\$	-	\$	-	\$	-
Commercial Volum	ie																														
Units of Service	9	5,15	6,794	7,57	1	18,644	5	5,156,794	5,156,794	4	7,571		18,644		2,457,547		4,163		9,440		5,156,794		7,571		18,644		-		-		
Cost of Service	\$ 12,947,250	\$ 94	17,380	\$ 594,42	3 \$	208,613	\$	431,827	\$ 4,732,622	2 \$	901,345	\$	66,594	\$	94,089	\$	61,738	\$	113,632	\$	1,636,557	\$	1,266,656	\$	1,891,776	\$	-	\$	-	\$	-
Industrial Volume (Charge																														
Units of Service		2:	88,832	22	8	741		238,832	238,832	,	228		741		113,819		131		375		238,832		228		741		_		_		
Cost of Service			13,877			8.287			\$ 219,187			\$		\$		\$	1.937	\$		\$	75,796	\$	38,113	\$		\$	_	\$	-	\$	_
	• 555,511	•	,	•,		-,	•	,	,	•		*	_,	•	.,	•	.,	*	.,	•	,	•	,	•	,	•		•		•	
Meter Service Cha																															
Units of Service		_	-	_	-	-	_	-		-	-	_	-	_	-	_	-		-		-	_	-	_	-	_	88,313		931,056	_	
Cost of Service	\$ 18,518,229	\$	-	\$ -	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	8,692,944	\$ 9	9,825,284	\$	-
Fire Protection:																															
Private Fire Lines																															
Units of Service			-	69		2,070		-		-	690		2,070		-		690		2,070		-		690		2,070		40,187		23,940		
Cost of Service	\$ 4,735,722	\$	-	\$ 54,15	9 \$	23,156	\$	-	\$ -	\$	82,123	\$	7,392	\$	-	\$	10,230	\$	24,911	\$	-	\$	115,407	\$	209,985	\$	3,955,724	\$	252,635	\$	-
Public Fire (Provide	ence)																														
Units of Service	,	(9,188	1,08	5	3,254		69,188	69,188	3	1,085		3,254		69,188		1,085		3,254		69,188		1,085		3,254		-		-		3,23
Cost of Service	\$ 2,236,019	\$	2,711	\$ 85,14	4 \$	36,404	\$	5,794	\$ 63,497	7 \$	129,107	\$	11,621	\$	2,649	\$	16,083	\$	39,163	\$	21,957	\$	181,434	\$	330,122	\$	-	\$	-	\$ 1	,300,33
Public Fire (All Oth	er)																														
Units of Service		-	1,029	1,11	3	3,340		71,029	71,029	9	1,113		3,340		71,029		1,113		3,340		71,029		1,113		3,340				-		3,3
Cost of Service	\$ 2,295,517	\$	3,049	\$ 87,41	0 \$	37,372	\$	5,948	\$ 65,187	7 \$	132,543	\$	11,930	\$	2,719	\$	16,511	\$	40,205	\$	22,542	\$	186,262	\$	338,906	\$	-	\$	-	\$ 1	,334,93
Wholesale Service:																															
Units of Service	4																										_		_		
Bristol Coun		1,57	4,775	2,09	16	1,238	1	1,574,775	1,574,775	5	2,096		1,238																		
East Provide	ence	1,9	0,247	3,32	23	5,480	1	1,910,247	1,910,247	7	3,323		5,480																		
Greenville		44	18,469	1,16	8	1,202		448,469	448,469	9	1,168		1,202		448,469		1,168		1,202												
Kent County	/		19,950	3,16		5,622		2,849,950	2,849,950		3,166		5,622																		
Lincoln			8,770	2,55		952		1,108,770	1,108,770		2,557		952		1,108,770		2,557		952												
Smithfield			5,430	1,25		419		415,430	415,430		1,255		419		415,430		1,255		419												
Warwick			26,433 34,074	13,25 26.82		3,941 18.855		3,626,433 1,934,074	3,626,433 11,934,074		13,254 26,821		3,941 18.855		1,972,669		4.981		2,574												
		,-	,	,		,		.,,	,		,		,		.,		.,		_,												
Cost of Service	nty \$ 2,298,748	e 2	39.310	\$ 164.54	7 \$	13.849	e	131.871	\$ 1,445,242	o e	249.508	\$	4.421	\$	_	\$		\$		\$		\$		\$		œ		e		\$	
East Provide				\$ 260,91		61,312		- , -	\$ 1,445,242		.,	\$ \$,	\$		\$	-	\$	-	\$	-	\$	-	\$		\$	-	\$ \$		\$	-
Greenville	\$ 829.015			\$ 91.71		13,452			\$ 411,580			\$	- , -	\$		\$	17,323	-	14.471	\$	-	\$	-	\$		\$	-	\$		\$	- 1
Kent County				\$ 248,58		62,909		. ,	\$ 2,615,527		,	\$		\$, -	\$	-	\$		\$	-	\$	-	\$	-	\$	-	\$		\$	-
Lincoln	\$ 1,925,242			\$ 200,78		10,655		,	\$ 1,017,568		,	\$		\$	42,450	\$	37,926	\$	11,462	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Smithfield	\$ 786,082	\$	6,321	\$ 98,54	2 \$	4,689	\$	34,788	\$ 381,259	9 \$	149,423	\$	1,497	\$	15,905	\$	18,614	\$	5,044	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Warwick	\$ 6,974,719			\$ 1,040,59	8 \$	44,101	_	,	\$ 3,328,141	_	1,577,895	\$	1 1,010	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
	\$ 19,901,540	\$ 2,19	2,467	\$ 2,105,68	4 \$	210,966	\$	999,353	\$ 10,952,438	3 \$	3,192,922	\$	67,346	\$	75,525	\$	73,863	\$	30,978	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
otal Cost of Service	\$ 86,697,407	\$ 5.17	7 574	\$ 3,961.75	in \$	927 131	\$ 2	2 360 001	\$ 25,864,505	5 \$	6,007,340	\$	295,963	\$	374,801	\$	287,783	\$	472 552	\$	5,156,643	\$	3 955 089	\$	6 494 422	\$ 1	2 648 668	\$ 10	077 919	\$ 2	635.2

										East										
Description	Units	Resid	dential	Comm	ercial	Industrial	В	ristol County	Р	Providence	(Greenville	Ke	nt County		Lincoln	S	Smithfield	V	Varwick
Unit Cost																				
CTA Base - T&D	\$/HCF	\$	0.18	\$	0.18	\$ 0.18	\$	0.18	\$	0.18	\$	0.18	\$	0.18	\$	0.18	\$	0.18	\$	0.18
CTA Max Day - T&D	\$/HCF/d	\$		\$	78.51					78.51	\$	78.51		78.51	\$	78.51		78.51	\$	78.51
CTA Max Hour - T&D	\$/HCF/d	\$	11.19	*	11.19	*				11.19	\$	11.19		11.19	\$		\$	11.19	\$	11.19
CTA Base - T&D <=12"	\$/HCF	\$	0.08	\$	0.08					0.08	\$	0.08		0.08	\$	0.08	-	0.08	\$	0.08
CTA Base - SOS, WTP, LS	\$/HCF	\$		\$		\$ 0.92				0.92	\$	0.92		0.92	\$		\$	0.92	\$	0.92
CTA Max Day - SOS, WTP, LS	\$/HCF/d	\$		+		\$ 119.05				119.05	\$	119.05	\$	119.05	\$		\$	119.05	\$	119.05
CTA Max Hour - SOS, WTP, LS	\$/HCF/d	\$		\$	3.57					3.57	\$	3.57	*	3.57	\$		\$		\$	3.57
HSR Base	\$/HCF	\$		\$	0.04				*		\$	0.04	*		\$		\$	0.04	*	
HSR Max Day	\$/HCF/d	\$		\$	14.83						\$	14.83			\$		\$	14.83		
HSR Max Hour	\$/HCF/d	\$		\$	12.04						\$	12.04			\$	12.04	\$	12.04		
Retail Only Base	\$/HCF	\$	0.32	\$	0.32						•				•		,			
Retail Only Max Day	\$/HCF/d	\$	167.30	\$ 1	67.30	\$ 167.30														
Retail Only Max Hour	\$/HCF/d	\$	101.47	\$ 1	01.47	\$ 101.47														
Units																				
Base	\$/HCF	10.	,712,750	5.1	56,794	238,832	2	1,574,775		1,910,247		448,469		2,849,950		1,108,770		415,430		3,626,433
Maximum Day	\$/HCF/d		12,954	-,.	7,571	228		2,096		3,323		1,168		3,166		2,557		1,255		13,254
Maximum Hour	\$/HCF/d		35,958		18,644	74	1	1,238		5,480		1,202		5,622		952		419		3,941
Base	\$/HCF	10,	,712,750		56,794	238,832	2	1,574,775		1,910,247		448,469		2,849,950		1,108,770		415,430		3,626,433
Base	HCF	10,	,712,750	5,1	56,794	238,832	2	1,574,775		1,910,247		448,469		2,849,950		1,108,770		415,430		3,626,433
Maximum Day	HCF/d		12,954		7,571	228	3	2,096		3,323		1,168		3,166		2,557		1,255		13,254
Maximum Hour	HCF/d		35,958		18,644	74	1	1,238		5,480		1,202		5,622		952		419		3,941
Base - HSR Only	\$/HCF	5,	,105,321	2,4	57,547	113,819	9													
Maximum Day - HSR Only	\$/HCF/d		7,244		4,163	13 ⁻	1													
Maximum Hour - HSR Only	\$/HCF/d		18,206		9,440	37	5													

			I			East		I	1		1
Description	Units	Residential	Commercial	Industrial	Bristol County		Greenville	Kent County	Lincoln	Smithfield	Warwick
Description	Office	residential	Commercial	maasma	Distor County	Trovidence	Orcenvine	richt odding	Lincom	Ommunicia	Walter
Total Cost											
CTA Base - T&D		\$ 1,968,091	\$ 947,380	\$ 43,877	\$ 289,310	\$ 350,941	\$ 82,390	\$ 523,578	\$ 203,697	\$ 76,321	\$ 666,230
CTA Max Day - T&D		\$ 1,017,044	\$ 594,423	\$ 17,886	\$ 164,547	\$ 260,917			\$ 200,782	\$ 98,542	\$ 1,040,598
CTA Max Hour - T&D		\$ 402,332	\$ 208,613								\$ 44,101
CTA Base - T&D <=12"		\$ 897,080	\$ 431,827					\$ 238,653		\$ 34,788	\$ 303,675
CTA Base - SOS, WTP, LS		\$ 9,831,574	\$ 4,732,622	\$ 219,187	, ,		\$ 411,580	\$ 2,615,527		\$ 381,259	\$ 3,328,141
CTA Max Day - SOS, WTP, LS		\$ 1,542,180	\$ 901,345	\$ 27,121		\$ 395,637	\$ 139,066	\$ 376,939	\$ 304,453		\$ 1,577,895
CTA Max Hour - SOS, WTP, LS		\$ 128,434	\$ 66,594			\$ 19,572	\$ 4,294		\$ 3,401		\$ 14,078
HSR Base		\$ 195,461	\$ 94,089			\$ -	\$ 17,170		\$ 42,450	'	\$ -
HSR Maximum Day			\$ 61,738	. ,		\$ -	\$ 17,323		+ ,	\$ 18,614	\$ -
HSR Maximum Hour			\$ 113,632	. ,	,	\$ -	\$ 14,471	\$ -	+ - ,	\$ 5,044	\$ -
Retail Only Base		\$ 3,399,791	\$ 1,636,557	\$ 75,796		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retail Only Max Day		\$ 2,167,218	\$ 1,266,656		*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retail Only Max Hour		\$ 3,648,482				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PLUS:		Ψ 0,0.0,.02	Ψ 1,001,110	Ψ .σ,.σ.	Ψ	Ψ	•	•	•	•	•
Retail Service Charge Costs		\$ 5,251,258	\$ 2,663,715	\$ 110,865	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retail Fire Protection Costs						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Private Fire Line Costs		\$ 386,777				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Public Fire Costs		\$ 152,894			,	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Rate Year Revenue Requirer	ment		\$ 15,973,595		\$ 2,298,748	\$ 3,001,461	\$ 829,015	\$ 4,086,274	\$ 1,925,242	\$ 786,082	\$ 6,974,719
Rate Year Sales	HCF	8,396,176	4,041,665	187,186	1,494,845	1,822,773	421,521	2,727,147	1,038,229	391,600	3,466,644
Volumetric Rate Build-Up											
Base	\$/HCF	\$ 1.940407	\$ 1.940407	\$ 1.940407	\$ 1.248573	\$ 1.242077	\$ 1.301703	\$ 1.238568	\$ 1.306613	\$ 1.297938	\$ 1.239829
Maximum Day	\$/HCF	\$ 0.575722	\$ 0.698762	\$ 0.454392	\$ 0.276989	\$ 0.360195	\$ 0.588586	\$ 0.229369	\$ 0.523160	\$ 0.680743	\$ 0.755340
Maximum Hour	\$/HCF	\$ 0.523857	\$ 0.564276	\$ 0.484000	\$ 0.012222	\$ 0.044374	\$ 0.076432	\$ 0.030432	\$ 0.024579	\$ 0.028677	\$ 0.016783
Service Charge	\$/HCF	\$ 0.625434	\$ 0.659064	\$ 0.592272	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retail Fire	\$/HCF	\$ 0.020869	\$ 0.021991	\$ 0.019762	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Private Fire	\$/HCF	\$ 0.046066	\$ 0.048543	\$ 0.043623	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Public Fire	\$/HCF	\$ 0.018210	\$ 0.019189	\$ 0.017244	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$/HCF	\$ 3.750565	\$ 3.952231	\$ 3.551702	\$ 1.537783	\$ 1.646646	\$ 1.966721	\$ 1.498369	\$ 1.854352	\$ 2.007359	\$ 2.011951
Rounded	\$/HCF	\$ 3.751000	\$ 3.953000	\$ 3.552000	\$ 1.537784	\$ 1.646646	\$ 1.966721	\$ 1.498370	\$ 1.854353	\$ 2.007359	\$ 2.011952
Revenues		\$ 31,494,056	\$ 15,976,702	\$ 664,885	\$ 2,298,749	\$ 3,001,461	\$ 829,015	\$ 4,086,276	\$ 1,925,242		\$ 6,974,722
COS		\$ 31,490,406	\$ 15,973,595		\$ 2,298,748	\$ 3,001,461	\$ 829,015	\$ 4,086,274	\$ 1,925,242		\$ 6,974,719
Variance due to Rounding		\$ 3,650	\$ 3,107	\$ 56	\$ 1	\$ 0	\$ 0	\$ 2	\$ 1	\$ 0	\$ 3

Schedule HJS-22a: Proposed Rates

Providence Water Supply Board Docket # 4994 Individual Wholesale Cost of Service Study Per RIPUC Report and Order No. 23928 Test Year Ending June 30, 2019 Rate Year Ending June 30, 2022

Total Retail Volume Charge Revenue

Total Retail Revenue

AMENDED SURREBUTTAL BY MICHAEL R. MAKER

\$ 48,218,094

\$ 60,678,707

	Units	FY 2022 - Existing				FY 2022 - Cost of Service				
Description			Rates	匚	Revenue	% Change		Rates		Revenue
Service Charges	_	_	_	_	_	_	_	_	_	
5/8"	57,812	\$	10.35	\$	7,180,250	0.00%	\$	10.35	\$	7,180,250
3/4"	11,326	\$	11.03	\$	1,499,109	0.00%	\$	11.03	\$	1,499,109
1"	5,335	\$	13.01	\$	832,900	0.00%		13.01	\$	832,900
1.5"	1,547	\$	15.65	\$	290,527	0.00%		15.65	\$	290,527
2"	1,357	\$	22.94	\$	373,555	0.00%	\$	22.94	\$	373,555
3"	73	\$	76.67	\$	67,163	0.00%	\$	76.67	\$	67,163
4"	35	\$	96.57	\$	40,559	0.00%	\$	96.57	\$,
6"	57	\$	142.99	\$	97,805	0.00%		142.99	\$	97,805
8"	42	\$	196.04	\$	98,804	0.00%		196.04	\$	98,804
10"	4	\$	244.12	\$	11,718	0.00%	\$	244.12	\$	11,718
12"	-	\$	292.20	\$	-	0.00%	\$	292.20	\$	-
Total Service Charge	77,588	<u> </u>			10,492,391	0.00%				10,492,391
	,									
Retail Fire Protection Service Charg	, ,		• /							
5/8"	25,954	\$	1.90	\$	591,751	0.00%		1.90	\$	591,751
3/4"	4,580	\$	2.84	\$	156,086	0.00%	\$	2.84	\$	156,086
1"	2,091	\$	7.06	\$	177,150	0.00%	\$	7.06	\$	177,150
1.5"	902	\$	18.81	\$	203,599	0.00%	\$	18.81	\$	
2"	792	\$	45.12	\$	428,820	0.00%	\$	45.12	\$	428,820
3"	55	\$	122.17	\$	80,632	0.00%	\$	122.17	\$	80,632
4"	20	\$	206.74	\$	49,618	0.00%	\$	206.74	\$	49,618
6"	28	\$	422.88	\$	142,088	0.00%		422.88	\$	142,088
8"	15	\$	639.01	\$	115,022	0.00%	\$	639.01	\$	115,022
10"	2	\$	977.32	\$	23,456	0.00%	\$	977.32	\$	23,456
12"		\$	1,616.32	\$		0.00%	\$	1,616.32	\$	
Total Retail FPSC (Providence Only)	34,439			\$	1,968,222	0.00%	_		\$	1,968,222
Total Retail Service Charge Revenue				Ф	12,460,613	0.00%			Φ	12,460,613
. Star Notali Gorvice Charge Reveilue				ψ	, +00,013	0.00%			ψ	, +00,013
Ī	Units		FY 2022 -	· Ех	isting	FY 20	22	- Cost of Se	rvi	ce
Description	JIIIIS		Rates		Revenue	% Change		Rates		Revenue
Retail Consumption Charges		_							_	
Residential	8,396,176	\$	3.830	\$	32,157,354	-2.06%	\$	3.751	\$	31,494,056
Commercial	4,041,665	\$	4.014		16,223,243	-1.52%	\$	3.953		15,976,702
Industrial	187,186	\$	3.650	\$	683,229	-2.68%		3.552	\$, ,
Total Retail Consumption Charge	12,625,027	Ψ	5.050	_	49,063,826	-1.89%	Ψ	3.332		48,135,643
Sold in priori	,020,021			Ψ	2,300,020	1.55/6			Ψ	_,.00,040
East Smithfield Debt Surcharge	235,576	\$	0.350	\$	82,451	0.00%	\$	0.350	\$	82,451

\$ 49,146,278

\$ 61,606,891

-1.89%

-1.51%

Schedule HJS-22a: Proposed Rates

Providence Water Supply Board Docket # 4994 Individual Wholesale Cost of Service Study Per RIPUC Report and Order No. 23928 Test Year Ending June 30, 2019 Rate Year Ending June 30, 2022

AMENDED SURREBUTTAL BY MICHAEL R. MAKER

	Units		FY 2022 ·	- E)	isting	FY 2022 - Cost of Se				ervice	
Description	Units		Rates		Revenue	% Change		Rates		Revenue	
W											
Wholesale Charges		_		_			_				
Bristol County	1,494,845	\$	1.618318	\$	2,419,134	-4.98%	\$	1.537784	\$	2,298,749	
East Providence	1,822,773	\$	1.654429	\$	3,015,648	-0.47%	\$	1.646646	\$	3,001,461	
Greenville	421,521	\$	1.698487	\$	715,948	15.79%	\$	1.966721	\$	829,015	
Kent County	2,727,147	\$	1.615908	\$	4,406,819	-7.27%	\$	1.498370	\$	4,086,276	
Lincoln	1,038,229	\$	1.669560	\$	1,733,385	11.07%	\$	1.854353	\$	1,925,242	
Smithfield	391,600	\$	1.706054	\$	668,091	17.66%	\$	2.007359	\$	786,082	
Warwick	3,466,644	\$	1.736015	\$	6,018,147	15.89%	\$	2.011952	\$	6,974,722	
Total Wholesale Revenue	11,362,760			\$	18,977,173	4.87%			\$	19,901,547	
Wholesale Charges											
Bristol County	1,118	\$	2,163.53	\$	2,419,134	-4.98%		2,055.86	\$	2,298,749	
East Providence	1,363	\$	2,211.80	\$	3,015,648	-0.47%	\$	2,201.40	\$	3,001,461	
Greenville	315	\$	2,270.70	\$	715,948	15.79%	\$	2,629.31	\$	829,015	
Kent County	2,040	\$	2,160.30	\$	4,406,819	-7.27%	\$	2,003.17	\$	4,086,276	
Lincoln	777	\$	2,232.03	\$	1,733,385	11.07%	\$	2,479.08	\$	1,925,242	
Smithfield	293	\$	2,280.82	\$	668,091	17.66%	\$	2,683.64	\$	786,082	
Warwick	2,593	\$	2,320.88	\$	6,018,147	15.89%	\$	2,689.78	\$	6,974,722	
Wholesale (per million gallons)	8,499			\$	18,977,173	4.87%			\$	19,901,547	

	Units		FY 2022	cisting	FY 2022 - Cost of Service					
Description			Rates		Revenue	% Change		Rates		Revenue
Private Fire Service Charges										
3/4"	2	\$	11.83	\$	284	0.00%	\$	11.83	\$	284
1"	9	\$	13.98	\$	1,510	0.00%	\$	13.98	\$	1,510
1-1/2"	2	\$	17.22	\$	413	0.00%	\$	17.22	\$	413
2"	68	\$	25.52	\$	20,824	0.00%	\$	25.52	\$	20,824
4"	391	\$	109.05	\$	511,663	0.00%	\$	109.05	\$	511,663
6"	1,245	\$	177.78	\$	2,656,033	0.00%	\$	177.78	\$	2,656,033
8"	256	\$	269.26	\$	827,167	0.00%	\$	269.26	\$	827,167
10"	4	\$	375.10	\$	18,005	0.00%	\$	375.10	\$	18,005
12"	18	\$	503.18	\$	108,687	0.00%	\$	503.18	\$	108,687
16"	-	\$	785.75	\$	-	0.00%	\$	785.75	\$	-
Total				\$	4,144,586	0.00%			\$	4,144,586
Hydrants (Excluding Providence)	3,318		\$621.41	\$	2,061,838	0.00%		621.41	\$	2,061,838
Total Fire Protection Charge Reven	ue			\$	6,206,424				\$	6,206,424
Total Rate Revenues				\$	86,790,488				\$	86,786,678
Miscellaneous Revenues					1,543,163					1,543,163
Total Revenues				\$	88,333,651	0.00%			\$	88,329,841

CERTIFICATION

I hereby certify that on January 14, 2022, I sent a copy of the within to all parties set forth on the attached Service List by electronic mail and copies to Luly Massaro, Commission Clerk, by electronic mail and hand delivery.

Parties	E-mail	Phone
Providence Water Supply Board (PWSB)	Michael@McElroyLawOffice.com;	401-351-4100
Michael McElroy, Esq.	Leah@McElroyLawOffice.com;	
McElroy & Donaldson		
PO Box 6721		
Providence, RI 02940-6721		
Ricky Caruolo, General Mgr.	RickyC@provwater.com;	401-521-6300
Providence Water Supply Board	Greggg@provwater.com;	
552 Academy Avenue Providence, RI 02908	Marydw@provwater.com;	
Providence, Kr 02908	NancyP@provwater.com;	_
	PeterP@provwater.com;	
	STEVEC@provwater.com;	
	ALICIAM@provwater.com;	
Harold Smith	Hsmith@raftelis.com;	704-373-1199
Raftelis Financial Consulting, PA	rismene rareens.com,	704 373 1133
1031 S. Caldwell Street, Suite 100		
Charlotte, NC 28203		
Division of Public Utilities (Division)	<u>Leo.wold@dpuc.ri.gov</u> ;	401-780-2177
Leo Wold, Esq.	john.bell@dpuc.ri.gov;	
Division of Public Utilities and Carriers	Pat.smith@dpuc.ri.gov;	
John Bell, Chief Accountant	Hakeem.ottun@dpuc.ri.gov;	
	Margaret.L.Hogan@dpuc.ri.gov;	
	Robert.Bailey@dpuc.ri.gov;	
	MFolcarelli@riag.ri.gov;	
	Dmacrae@riag.ri.gov;	
Jerome Mierzwa	jmierzwa@exeterassociates.com;	410-992-7500
Exeter Associates, Inc.		
10480 Little Patuxent Pkwy, Suite 300 Columbia, MD 21044		
Ralph Smith	rsmithla@aol.com;	734-522-3420
Larkin & Associates, PLLC	dawn.bisdorf@gmail.com;	
15728 Farmington Road	ssdady@gmail.com;	
Livonia, Michigan 48154	mcranston29@gmail.com;	

Kent County Water Authority (KCWA)	marybali@aol.com;	401-828-5030
Mary B. Shekarchi, Esq.		
33 College hill Rd., Suite 15-E		
Warwick, RI 02886		
David Bebyn, Consultant	dbebyn@gmail.com;	
David L. Simmons, P.E.	dsimmons@kentcountywater.org;	401-821-9300
Executive Director/Chief Engineer		
Kent County Water Authority		
Bristol County Water Authority (BCWA)	<pre>ikeoughjr@keoughsweeney.com;</pre>	401-724-3600
Joseph A. Keough, Jr., Esq.		
Keough & Sweeney		
41 Mendon Ave.		
Pawtucket, RI 02861		
Stephen Coutu, General Manager	scoutu@bcwari.com;	
Bristol County Water Authority		
	namala a On a constanta si a a nati	_
Michael Maker, Consultant	mmaker@newgenstrategies.net;	
City of East Providence	RLefebvre@CityOfEastProv.com;	401-435-7523
Michael Marcello, City Solicitor		
City of East Providence		
Legal Department		
145 Taunton Avenue		
East Providence, RI 02914		
City of Warwick	mikeursillo@utrlaw.com;	401-331-2222
Michael Ursillo, City Solicitor		
Gia A. DiCenso, Asst. City Solicitor		
Ursillo, Teitz & Ritch, Ltd.	ginadicenso@utrlaw.com;	
2 William St.		
Providence, RI 02903-2918		
Smithfield Water Supply Board	marisa@desautelesq.com;	401-477-0023
Marisa Desautel, Esq.		
55 Pine St. – 4th Floor		
Providence, RI 02903		
Gene Allen	gallen@smithfieldri.com;	
Smithfield Water Supply Board		
Greenville Water/Lincoln Water	aramos@haslaw.com;	
Adam M. Ramos, Esq.		
Hinckley, Allen & Snyder		
100 Westminster St., Suite 1500		
Providence, RI 02903		
, -	J	

File original and nine (9) copies w/:	Luly.massaro@puc.ri.gov;	401-780-2107
Luly E. Massaro, Commission Clerk	Todd.bianco@puc.ri.gov;	
Margaret Hogan, Commission Counsel	Cynthia.wilsonfrias@puc.ri.gov;	
Public Utilities Commission	Alan.nault@puc.ri.gov;	
89 Jefferson Blvd.	Emma.Rodvien@puc.ri.gov;	
Warwick, RI 02888		
Kathleen Crawley	Kathleen.Crawley@doa.ri.gov;	401-222-6696
Water Resources Board		
Nancy Lavin	<u>Lavin@pbn.com</u> ;	

Joseph A. Keough, Jr., Esquire # 4925

KEOUGH + SWEENEY, LTD.

41 Mendon Avenue

Pawtucket, RI 02861

Sough allyh Jr

(401) 724-3600 (phone)

(401) 724-9909 (fax)

jkeoughjr@keoughsweeney.com