

Regular Meeting Agenda

Board of Commissioners

Tuesday, July 6, 2021 5:00 PM

Zoom

Port Townsend, WA 98368



To join online go to: <https://zoom.us/my/jeffcopud>. Follow the instructions to login. Meetings will open 5 minutes before they begin. TOLL FREE CALL IN #: 833-548-0282, Meeting ID# 4359992575#. Use *6 to mute or unmute. *9 to raise a hand to request to begin speaking.

Page

1. Call to Order

Per the Governor's Extended Proclamation 20-28 and in response to the COVID-19 Pandemic, Jefferson County PUD is no longer providing an in-person room for meetings of the BOC. All meetings will be held remotely via Zoom until otherwise informed by the Governor. Participant audio will be muted upon entry. Please unmute at the appropriate time to speak. If you are calling in, use **6 to mute and unmute and *9 to raise a hand to request to speak*.

2. Agenda Review

3. Public Comment

The public comment period is for any items not specifically listed on the current Agenda or for items listed on the Consent Agenda. The Chair may place time limits on public comments to allow the meeting to be conducted in an efficient and orderly manner. (15 min)

4. FCS METER PRESENTATION

4 - 43

[JPUD Metering Approach 6-30-2021.pdf](#) 







[JPUD - Meter Replacement Business Case Analysis 6-30-2021.pdf](#) 

FOR DISCUSSION ONLY

5. Consent Agenda

All matters listed below on the Consent Agenda are considered under one motion and will be enacted by one motion. There will be no separate discussion on those items. If discussion is desired, that item will be removed from the Consent Agenda and will be considered separately.

Consent Action: *Motion to Approve the Consent Agenda As Presented*



- 5.1. Prior Minutes 44 - 49
[PUD BOC Special Mtg Min. 4-13-2021 BB.docx](#) 
[PUD BOC Special Mtg Min. 4-22-2021 Draft.docx](#) 
- 5.2. Vouchers 50 - 75
[Voucher Approval Form for the Commissioners.pdf](#) 
[Voucher Certification with Supporting Warrant Register & Payroll....pdf](#) 
- 5.3. Financial Report 76 - 86
[May 2021 Financials.pdf](#) 
- 5.4. Calendar 87
[PUD Calendar July 6, 2021.docx](#) 

6. Manager and Staff Reports



For information only, not requiring a vote.












7. Old Business

For the OLD and NEW BUSINESS section discussions: please hold public comment until each presentation is done but before the vote.

- 7.1. Low Income Water Rates Review 88 - 96
[Agenda Report.docx](#) 
[LI Water Rate Presentation 20210706.pdf](#) 
FOR DISCUSSION ONLY

8. New Business

- 8.1. Residential Arrears Recovery Plan 97 - 105
[Agenda Report.docx](#) 
[Residential Arrears Recovery Plan 20210706.pdf](#) 
FOR DISCUSSION ONLY

- 8.2. Interlocal Agreement with Mason 3 PUD 106 - 126
[Agenda Report.docx](#) 
[Interlocal Agreement Jefferson PUD and Mason PUD No. 3 - BPA Fiber 2021 06 23 v.003.docx](#) 
[Exhibit A BPA Fiber Contract Review F0057 20TP-12112 Agreement FINAL.pdf](#) 
[Exhibit B - 263501-1-1 Olympia-Port Angeles One Line \(002\).pdf](#) 
FOR DISCUSSION ONLY
- 8.3. Construction Rates for Electric Service 127 - 140
[Agenda Report.docx](#) 
[OVH v URG 2021.pdf](#) 
[Resolution 2021-Electric Construction Rates ks06232021.docx](#) 
FOR DISCUSSION ONLY
- 8.4. Broadband Rates: Wholesale and Retail 141 - 146
[AR Broadband Rates 07012021.docx](#) 
[Wholesale Rate Schedule 07 02 21 v.002.docx](#) 
[Retail Rate Schedule 07 02 21 jp.docx](#) 
FOR DISCUSSION ONLY
- 8.5. WSBO/NTIA Grant Application Authorization 147 - 149
[Agenda Report.docx](#) 
[Resolution 2021-XXXX NTIA WSBO.docx](#) 
Recommendation: *Approve Resolution 2021-XXXX authorizing staff to apply for a partnership with the Washington State Broadband Office on an application for NTIA funding to build middle and last mile fiber connections in the Quilcene, Discovery Bay and Gardiner areas.*

9. Commissioner Reports

10. Adjourn



Electric Metering Approach Business Case Analysis



Board of Commissioners Meeting

Presented by:
Gordon Wilson
July 6, 2021



Purpose and Sequence of Topics

- **Purpose of presentation**

- » Share findings from research and analysis into electric metering approach

- **Sequence of Topics**

- » Options Considered
- » Criteria
- » Economic Analysis
- » Non-Economic Analysis
- » Summary and Recommendation

- **Vocabulary**

- » **AMR** – Automated Meter Reading – allows one-way radio transmission
- » **AMI** – Advanced Metering Infrastructure – allows two-way radio transmission
- » **Collectors** – equipment that gathers data from a group of meters
- » **Backhaul Cost** – Cost of sending information from collectors to District office
- » **Net Present Value (NPV)** – up-front equivalent value of a future stream of payments, using an assumed discount rate
- » **Net Revenue** – Additional revenue minus the cost of a given option
- » **Change in Net Revenue** – Difference between net revenue of an option and the status quo



Updated Options and Criteria

Options

- **Status Quo – Old L&G meters being gradually replaced with drive-by AMR meters**
 - » Used for frame of reference, but not preferred option
 - » Goal is to help the District choose an intentional approach to metering, using best available information
- **Meter Replacement Options**
 - » Digital Hand-Read Meters
 - » Mechanical Hand-Read Meters
 - » Drive-by AMR Meters
 - » Hybrid AMR/AMI Meters
 - AMR meters with one TUNet device per 8 meters; TUNet devices can be collectors or AMI meters
 - » AMI Meters

Criteria

Economic analysis:

- **Net Present Value**
 - » Change in net revenue from status quo

Non-economic analysis:

- **Potential Radio Frequency (RF) Health Impacts**
- **Privacy**
- **Vulnerability to Hacking**
- **Reliability/Accuracy**
- **Compatibility**
- **Functionality**
- **Allows Time of Use (TOU) Metering**



Economic Analysis – Introduction to Cost Model

- **Cost Model**

- » Assumptions
- » Financial Calculations – capital costs, operating costs and revenue by year
 - Spread over 25-year forecast, to account for full replacement cycle
- » Summary of Results
- » Supporting tabs
 - Meter Capital \$
 - Meter Accuracy
 - Other Capital \$
 - Number of Meters
 - Vehicle Calculations
 - Revenue Calculations



Economic Analysis – Assumptions

- **Overall Economic Assumptions**

- » Inflation factors
- » Sales tax rates
- » Discount rate for Net Present Value

- **Current Meters**

- » Meter inventory
- » Number of L&G meters replaced each year

- **Cost of meters**

- » Used AMR drive-by
- » New digital walk-up
- » Refurbished mechanical walk-up
- » New AMR
- » New AMI

- **Collectors**

- » Cost per collector
- » Number of collectors needed
- » Cost of batteries for collectors
- » Frequency of battery replacement

- **Installation costs**

- Time to install new meter (by PUD employees)
- Loaded hourly rate
- Time to install collectors
- Cellular backhaul cost per collector (10-year lease)
- Project management/other up-front cost
- » Software and equipment cost
- » Shipping and taxes



Economic Analysis – More Assumptions

- **Ongoing Costs – Equipment & Software**
 - » System/software support
 - » Annual maintenance of collector units
- **Ongoing Costs – Labor and Vehicles**
 - » Meter reading costs
 - » Time required per drive-by read
 - » Time required per walk-up read
 - » New FTEs needed
 - » Current L&G contract – weighted cost per meter
 - » Number of vehicles needed
 - » Gas/maintenance cost per AMR and manual-read meter
 - » Cost per new vehicle
 - » Life expectancy of vehicle
- **Current L&G contract – weighted cost per meter**
- **Assumptions Related to AMI System Management Functionality**
 - » Number of annual disconnects
 - » Time required per disconnect
 - » Number of on-demand (move out) reads
 - » Time required per on-demand read
 - » Number of annual outages
 - » Number of line workers per outage
 - » Time required per outage
 - » Loaded hourly rate for line workers
 - » Percentage of outages reported after hours (requiring OT)
 - » Overtime labor multiplier
 - » Percent revenue loss due to inaccurate reads



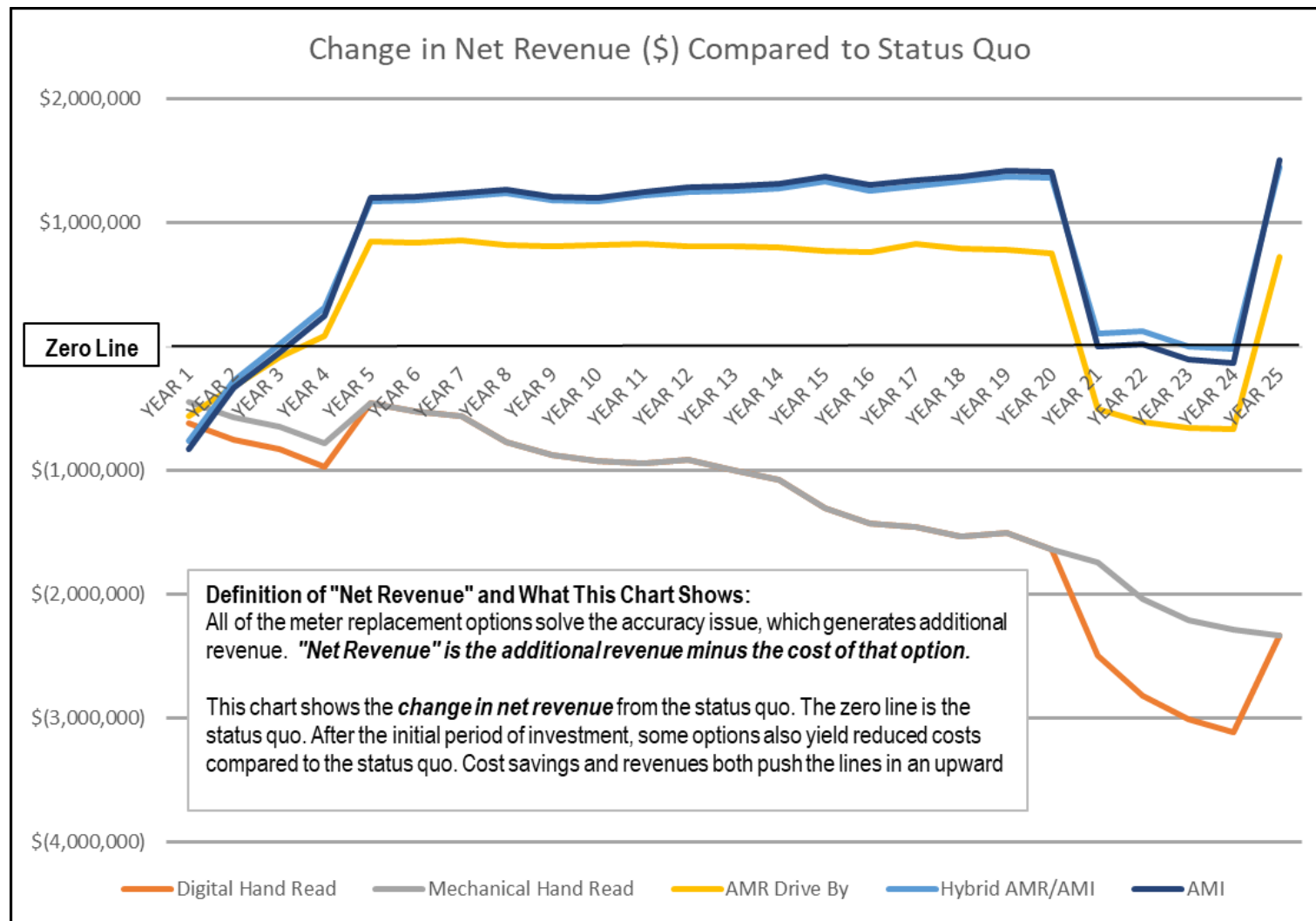
Break in Presentation:

Review Model Inputs and Calculations



Results of Economic Analysis – Change in Net Revenue

- » On this chart, the zero line is the status quo. Cost savings and revenue both push the lines upward.
- » Data points above the zero line are economically better than the status quo.
- » Data points below the zero line are worse than the status quo, because their costs (downward direction) exceed the cost of the status quo, even after taking into account the added revenue.
- » The dip after Year 20 is from future replacement of meters





Results of Economic Analysis – Change in Net Revenue

- **Hand-read is more costly than the status quo due to meter reading labor.**
 - » The last two options substitute collectors and backhaul costs for employee time. The annual savings justifies the initial capital investment.
- **Hybrid AMR/AMI and full AMI are very close economically.**
 - » Full AMI has higher average cost per meter but also higher ongoing savings.
- **Drive-by is better than the status quo but more costly than AMI or hybrid.**
- **By replacing old meters, all replacement options will eliminate the inaccuracy problem, generating about \$800K/year of additional annual revenue.**

Change in Net Revenue - Net Present Value at 2.50%	
Digital Hand Read	(\$22,800,000)
Mechanical Hand Read	(\$20,300,000)
AMR Drive By	\$7,800,000
Hybrid AMR/AMI	\$15,000,000
AMI	\$15,000,000

- **Positive numbers are better than the status quo; negative numbers worse**
- **Sensitivity analysis**
 - » We tested meter replacement cycle, discount rate, other input assumptions
 - » Robust results – NPV changed but not priority of options



Non-Economic Analysis

- **Potential Health Impact of Radio Frequency (RF)**

- » Ionizing radiation does have health impacts – e.g. X-rays, gamma rays
- » Non-ionizing radiation carries frequencies many thousands of times weaker
- » For decisions about cellular or AMR/AMI, the question has to do with whether there are potential impacts from *non-ionizing* radiation
- » On that question, the science is inconclusive
 - Standard-setting bodies (IEEE, U.S. Food & Drug Administration) so far consider the risk of health impacts to be minimal or inconclusive
 - There are public health advocates who argue that RF is a non-negligible risk
 - All agree that further research is needed
- » The question for the PUD is what decision to make in the absence of conclusive scientific evidence
- » We suggest that consumer behavior is the best indicator of acceptable risk – whether people continue to carry around a cell phone in their pocket
- » If so, allowing individual customers to opt out is sufficient protection to the public



Non-Economic Analysis

- **Privacy**

- » Concern is potential for misuse of data about individual customer electricity usage
- » Again, we suggest following consumer behavior to gauge acceptable risk
- » If most customers use social media, then they must be willing to accept significant exposure of personal data
 - In its potential use of data, the PUD is much more benign than social media companies
- » Again, allowing customers to opt out is sufficient to address this concern

- **Vulnerability to Hacking**

- » Because AMI has operational capability, choosing AMI would increase potential consequences of hacking
- » Choosing AMI would put a greater premium on data hygiene



Non-Economic Analysis

- **Reliability/Accuracy**
 - » All of the options would solve the current inaccuracy problem
 - » No differentiation
- **Compatibility**
 - » All of the options would have to be compatible with existing software
 - » No differentiation
- **Functionality – System Management**
 - » Only AMI has operational functionality – real-time system view, improved system control, allows customers to track their own usage
- **Functionality – Allows TOU Metering**
 - » Only AMI has the ability to offer Time of Use metering for residential meters in a cost-effective way



Non-Economic Analysis

Non-Economic Considerations	Status Quo	Digital Hand Read	Mechanical Hand Read	AMR Drive By	Hybrid AMR/AMI	AMI	Implications
Potential RF Health Impacts	=	+	+	=	Partial +	Partial +	Opt-out should be allowed.
Privacy	=	+	+	=	=	=	Opt-out should be allowed.
Vulnerability to Hacking	=	=	=	=	=	-	AMI requires good data hygiene.
Reliability/Accuracy	=	+	+	+	+	+	Any new option will solve accuracy issue.
Compatibility	=	=	=	=	=	=	Any new option has to be compatible.
Functionality	=	=	=	=	=	+	AMI allows quicker response, more control.
Allows Time of Use metering	=	=	=	=	=	+	Only AMI allows residential TOU rates.

- **AMI would bring increased responsibility for good data security practices**
- **AMI would offer system management capability**
 - » Remote disconnects and reconnects
 - » Outage notifications
 - » On-demand reads (for move-outs)
 - » Power theft notifications, low voltage notifications, hot socket detections (notify customers of fire hazards)
 - » Daily reads that allow customers to track their own usage through an app
- **AMI would also offer cost-effective Time of Use rates for residential customers.**



Summary and Recommendation

- **The strongest options economically are AMI and AMR/AMI hybrid.**
- **As long as opt-out is allowed and good data hygiene is practiced, the non-economic factors do not swing the business decision away from AMI.**
- **Two of the non-economic considerations favor AMI – the system management functionality and the ability to implement TOU metering for residential customers.**
- **We recommend AMI overall. The economics clearly favor the AMI and hybrid options, and between those two, the AMI has stronger non-economic advantages that justify the higher initial cost of the meters.**



Questions?



Jefferson PUD

Electric Meter Replacement

Business Case Analysis

Assumptions

Escalation Rates, Taxes, and Discount Rate	Status Quo	Digital Hand Read	Mechanical Hand Read	AMR Drive By	Hybrid AMR/AMI	AMI
General Cost Inflation	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
Labor/Benefits Cost Inflation	4.08%	4.08%	4.08%	4.08%	4.08%	4.08%
Construction Cost Inflation	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Washington State Sales Tax	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%
Port Townsend Sales Tax	2.60%	2.60%	2.60%	2.60%	2.60%	2.60%
Discount Rate (for NPV)	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%

Meters & Capital Costs	Status Quo	Digital Hand Read	Mechanical Hand Read	AMR Drive By	Hybrid AMR/AMI	AMI
Current Meters						
L&G	16,300	16,300	16,300	16,300	16,300	16,300
Itron Aftermarket	3,050	3,050	3,050	3,050	3,050	3,050
Opt-Out	150	150	150	150	150	150
Total	19,500	19,500	19,500	19,500	19,500	19,500
# of L&G Meters Replaced per Year	101	n/a	n/a	n/a	n/a	n/a
Cost of Meters						
1st Type of Meter	Used Itron	New Itron	Refurb. Itron	New Itron	New Itron-AMR	2017 RFP AMI
Cost per Meter	\$ 15.52	\$ 53.06	\$ 20.69	\$ 103.47	\$ 103.47	\$ 119.05
# of Meters	-	19,500	19,500	19,500	17,398	19,500
# of Years to Install New Meters	-	4.0	4.0	4.0	4.0	4.0
Life Expectancy (Years) of Meter	10.0	20.0	40.0	20.0	20.0	20.0
2nd Type of Meter	2017 RFP AMI					
Cost per Meter	\$ -	\$ -	\$ -	\$ -	\$ 119.05	\$ -
# of Meters	-	-	-	-	2,102	-
# of Years to Install New Meters	-	4.0	4.0	4.0	4.0	4.0
Life Expectancy (Years) of Meter	10.0	20.0	40.0	20.0	20.0	20.0



Jefferson PUD

Electric Meter Replacement Business Case Analysis

Assumptions

Meters & Capital Costs, continued	Status Quo	Digital Hand Read	Mechanical Hand Read	AMR Drive By	Hybrid AMR/AMI	AMI
Collectors						
# of Collectors	-	-	-	-	73	73
Cost per Collector	\$ -	\$ -	\$ -	\$ -	\$ 3,344	\$ 3,344
Battery Cost	\$ -	\$ -	\$ -	\$ -	\$ 2,000	\$ 2,000
Life Expectancy (Years) of Battery	-	-	-	-	7.0	7.0
Installation Costs						
Time (Minutes) to Install Each Meter	15.0	15.0	15.0	15.0	15.0	15.0
Loaded Hourly Rate	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52
Time (Minutes) to Install Collectors	-	-	-	-	60.0	60.0
Loaded Hourly Rate	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52
Cellular Backhaul Cost per Collection Unit - 10yr Lease	\$ -	\$ -	\$ -	\$ -	\$ 220	\$ 220
Project Mgmt/Other	\$ -	\$ 207,642	\$ 207,642	\$ 207,642	\$ 207,642	\$ 207,642
Software & Equipment Costs						
Software	\$ -	\$ -	\$ -	\$ -	\$ 137,522	\$ 137,522
Equipment	\$ -	\$ -	\$ -	\$ 36,053	\$ 36,053	\$ 36,053
Other	\$ -	\$ -	\$ -	\$ -	\$ 10,931	\$ 10,931
Annual Costs						
System/Software Support	\$ -	\$ -	\$ -	\$ -	\$ 60,519	\$ 60,519
Number of Times per Year Collector Units Maintained	-	-	-	-	2.0	2.0
Time (Minutes) to Maintain Collector Units	-	-	-	-	30.0	30.0
Load Hourly Rate	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52
Shipping Costs						
% of Total Capital - Estimated Shipping	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%

Based in Aclara's response to 2017 F



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Electric Meter Replacement

Business Case Analysis

Assumptions

Meter Reading Costs	Status Quo	Digital Hand Read	Mechanical Hand Read	AMR Drive By	Hybrid AMR/AMI	AMI
Meter Reading						
# of Hours per Month per Employee - Meter Reads	64	64	64	64	64	64
# of Drive by Reads per Month	3,050	3,050	3,050	3,050	3,050	3,050
# of Walk Up/Hand Reads per Month	150	150	150	150	150	150
Multiplier (Hand Read Time vs. Drive by Time)	12.2x	12.2x	12.2x	12.2x	12.2x	12.2x
Time (Minutes) Required per Drive by Read	1.6	1.6	1.6	1.6	1.6	1.6
Time (Minutes) Required per Walk Up Read	8.0	8.0	8.0	8.0	8.0	8.0
<i>Currently 19.2 minutes per walk-up read for opt-out only. Assume more efficient travel if walk-up reads are systemwide.</i>						
Loaded Hourly Rate	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52
New FTEs - Available Annual On-Task Hours per FTE	1,800	1,800	1,800	1,800	1,800	1,800
L&G Contract						
Weighted Cost per Meter	\$ 1.68	\$ 1.68	\$ 1.68	\$ 1.68	\$ 1.68	\$ 1.68
Vehicles						
# of Current Vehicles (Current Fleet)	2	2	2	2	2	2
Gas/Maintenance Cost per AMR Meter	\$ 1.25	\$ 1.25	\$ 1.25	\$ 1.25	\$ 1.25	\$ 1.25
Gas/Maintenance Cost per Manual Read Meter	8.62	1.25	1.25	8.62	8.62	8.62
Cost of New Vehicle	\$ 28,000	\$ 28,000	\$ 28,000	\$ 28,000	\$ 28,000	\$ 28,000
Life Expectancy (Years) of Vehicle	7	7	7	7	n/a	n/a



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Electric Meter Replacement

Business Case Analysis

Assumptions

Potential Cost/Revenue Benefits	Status Quo	Digital Hand Read	Mechanical Hand Read	AMR Drive By	Hybrid AMR/AMI	AMI
Disconnects/Remote Disconnects						
# of Annual Disconnects	775	775	775	775	775	775
Time (Minutes) per Disconnect	30.0	30.0	30.0	30.0	30.0	-
Loaded Hourly Rate	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52
On-Demand/Move Out Reads						
# of Annual On-Demand Reads	1,850	1,850	1,850	1,850	1,850	1,850
Time (Minutes) per On-Demand Read	30.0	30.0	30.0	30.0	-	-
Loaded Hourly Rate	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52	\$ 44.52
Outages - Overtime						
# of Annual Outages	350	350	350	350	350	350
# of Linemen per Outage	4	4	4	4	4	4
Time (Minutes) Required per Outage	120.0	120.0	120.0	120.0	120.0	120.0
Loaded Hourly Rate	\$ 80.82	\$ 80.82	\$ 80.82	\$ 80.82	\$ 80.82	\$ 80.82
Labor Multiplier for Overtime	2.0x	2.0x	2.0x	2.0x	2.0x	1.0x
% of Outages During Normal Hours Reported After Hours	2%	2%	2%	2%	2%	2%
Meter Accuracy & Correct Reads						
Average System Accuracy Loss	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Average System Incorrect Read Loss	1.43%	1.43%	1.43%	1.43%	1.43%	1.43%
Total System Losses - Averaged Across All Meters	2.43%	2.43%	2.43%	2.43%	2.43%	2.43%



Jefferson PUD Electric Meter Replacement Business Case Analysis

Financial Calculations

STATUS QUO

Status Quo	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Capital Costs										
Assets										
Meters	\$ 1,568	\$ 1,615	\$ 1,663	\$ 1,713	\$ 1,764	\$ 1,817	\$ 11,292	\$ 16,676	\$ 5,497	\$ 22,411
Collector Units	-	-	-	-	-	-	-	-	-	-
Batteries	-	-	-	-	-	-	-	-	-	-
Software	-	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-	-
Vehicles	56,000	-	-	-	-	-	-	73,891	-	45,036
Other	-	-	-	-	-	-	-	-	-	-
Asset Costs	\$ 57,568	\$ 1,615	\$ 1,663	\$ 1,713	\$ 1,764	\$ 1,817	\$ 11,292	\$ 90,566	\$ 5,497	\$ 67,447
Installation										
Meter Installation	1,124	1,170	1,218	1,267	1,319	1,373	8,618	13,830	4,802	20,619
Collector Unit Installation	-	-	-	-	-	-	-	-	-	-
Backhaul Costs	-	-	-	-	-	-	-	-	-	-
Project Mgmt/Other	-	-	-	-	-	-	-	-	-	-
Installation Costs	\$ 1,124	\$ 1,170	\$ 1,218	\$ 1,267	\$ 1,319	\$ 1,373	\$ 8,618	\$ 13,830	\$ 4,802	\$ 20,619
Sales Taxes	5,239	147	151	156	161	165	1,028	8,242	500	6,138
Shipping Costs	1,151	32	33	34	35	36	226	1,811	110	1,349
Other Capital Costs	\$ 6,390	\$ 179	\$ 185	\$ 190	\$ 196	\$ 202	\$ 1,253	\$ 10,053	\$ 610	\$ 7,487
Total Capital Costs	\$ 65,082	\$ 2,964	\$ 3,065	\$ 3,170	\$ 3,279	\$ 3,392	\$ 21,164	\$ 114,449	\$ 10,910	\$ 95,553
Operating Costs										
Opt Out Meter Reads	\$ 10,685	\$ 11,120	\$ 11,573	\$ 12,045	\$ 12,536	\$ 13,047	\$ 13,578	\$ 18,690	\$ 22,822	\$ 27,866
Iron Meter Reads	44,147	47,419	50,884	54,553	58,436	62,545	66,892	111,878	151,721	203,711
L&G Meter Reading	325,922	330,367	334,860	339,401	343,990	348,626	353,310	392,508	418,559	445,780
Vehicle Maintenance	5,227	5,460	5,700	5,948	6,203	6,466	6,738	9,225	11,103	13,273
Annual System Costs	-	-	-	-	-	-	-	-	-	-
Collector Unit Maintenance	-	-	-	-	-	-	-	-	-	-
Total Operating Costs	\$ 385,980	\$ 394,366	\$ 403,018	\$ 411,947	\$ 421,165	\$ 430,684	\$ 440,518	\$ 532,302	\$ 604,205	\$ 690,630
Other Services - Costs										
Disconnects	\$ 17,252	\$ 17,954	\$ 18,686	\$ 19,448	\$ 20,240	\$ 21,065	\$ 21,923	\$ 30,177	\$ 36,848	\$ 44,993
On Demand Reads	10,763	11,399	12,069	12,775	13,518	14,300	15,124	23,472	30,686	39,942
Outage Response - OT Hours	9,052	9,421	9,805	10,204	10,620	11,053	11,503	15,834	19,334	23,608
Total Other Service Costs	\$ 37,066	\$ 38,774	\$ 40,560	\$ 42,426	\$ 44,378	\$ 46,418	\$ 48,550	\$ 69,483	\$ 86,867	\$ 108,542
Annual Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Costs	\$ 488,128	\$ 436,104	\$ 446,643	\$ 457,543	\$ 468,821	\$ 480,493	\$ 510,232	\$ 716,233	\$ 701,982	\$ 894,725
Revenue										
Increased Revenue from Retiring Old Meters	\$ 4,667	\$ 9,687	\$ 15,095	\$ 20,479	\$ 25,778	\$ 31,151	\$ 36,599	\$ 83,013	\$ 114,756	\$ 148,789
Total Revenue	\$ 4,667	\$ 9,687	\$ 15,095	\$ 20,479	\$ 25,778	\$ 31,151	\$ 36,599	\$ 83,013	\$ 114,756	\$ 148,789
Net Revenue	\$ (483,461)	\$ (426,417)	\$ (431,548)	\$ (437,065)	\$ (443,044)	\$ (449,343)	\$ (473,634)	\$ (633,221)	\$ (587,226)	\$ (745,936)



Jefferson PUD Electric Meter Replacement Business Case Analysis

Financial Calculations

DIGITAL HAND READ

Digital Hand Read	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Capital Costs										
Assets										
Meters	\$ 258,659	\$ 266,419	\$ 274,411	\$ 282,644	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collector Units	-	-	-	-	-	-	-	-	-	-
Batteries	-	-	-	-	-	-	-	-	-	-
Software	-	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-	-
Vehicles	168,000	142,800	116,525	118,855	-	-	-	221,672	-	180,145
Other	-	-	-	-	-	-	-	-	-	-
Asset Costs	\$ 426,659	\$ 409,219	\$ 390,936	\$ 401,499	\$ -	\$ -	\$ -	\$ 221,672	\$ -	\$ 180,145
Installation										
Meter Installation	54,259	56,470	58,771	61,166	-	-	-	-	-	-
Collector Unit Installation	-	-	-	-	-	-	-	-	-	-
Backhaul Costs	-	-	-	-	-	-	-	-	-	-
Project Mgmt/Other	51,910	54,026	56,227	58,519	-	-	-	-	-	-
Installation Costs	\$ 106,169	\$ 110,496	\$ 114,998	\$ 119,684	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sales Taxes	38,826	37,239	35,575	36,536	-	-	-	20,172	-	16,393
Shipping Costs	8,533	8,184	7,819	8,030	-	-	-	4,433	-	3,603
Other Capital Costs	\$ 47,359	\$ 45,423	\$ 43,394	\$ 44,566	\$ -	\$ -	\$ -	\$ 24,606	\$ -	\$ 19,996
Total Capital Costs	\$ 580,187	\$ 565,138	\$ 549,328	\$ 565,750	\$ -	\$ -	\$ -	\$ 246,278	\$ -	\$ 200,141
Operating Costs										
Opt Out Meter Reads	\$ 8,014	\$ 5,560	\$ 2,893	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Itron Meter Reads	32,049	22,237	11,571	-	-	-	-	-	-	-
L&G Meter Reading	245,965	167,256	85,301	-	-	-	-	-	-	-
New Meter Reads	347,256	722,813	1,128,402	1,565,846	1,629,654	1,696,062	1,765,177	2,429,739	2,966,824	3,622,629
Vehicle Maintenance	9,080	14,450	20,030	25,828	26,345	26,872	27,409	32,114	35,457	39,147
Annual System Costs	-	-	-	-	-	-	-	-	-	-
Collector Unit Maintenance	-	-	-	-	-	-	-	-	-	-
Total Operating Costs	\$ 642,364	\$ 932,316	\$ 1,248,198	\$ 1,591,674	\$ 1,655,999	\$ 1,722,934	\$ 1,792,586	\$ 2,461,853	\$ 3,002,280	\$ 3,661,776
Other Services - Costs										
Disconnects	\$ 17,252	\$ 17,954	\$ 18,686	\$ 19,448	\$ 20,240	\$ 21,065	\$ 21,923	\$ 30,177	\$ 36,848	\$ 44,993
On Demand Reads	41,181	42,859	44,606	46,423	48,315	50,284	52,333	72,036	87,959	107,402
Outage Response - OT Hours	9,052	9,421	9,805	10,204	10,620	11,053	11,503	15,834	19,334	23,608
Total Other Service Costs	\$ 67,484	\$ 70,234	\$ 73,096	\$ 76,075	\$ 79,175	\$ 82,401	\$ 85,759	\$ 118,046	\$ 144,140	\$ 176,002
Annual Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Costs	\$ 1,290,036	\$ 1,567,688	\$ 1,870,623	\$ 2,233,499	\$ 1,735,174	\$ 1,805,336	\$ 1,878,346	\$ 2,826,178	\$ 3,146,421	\$ 4,037,919
Revenue										
Increased Revenue from Retiring Old Meters	\$ 188,311	\$ 390,850	\$ 609,033	\$ 826,250	\$ 832,039	\$ 837,884	\$ 843,787	\$ 893,139	\$ 925,997	\$ 960,498
Total Revenue	\$ 188,311	\$ 390,850	\$ 609,033	\$ 826,250	\$ 832,039	\$ 837,884	\$ 843,787	\$ 893,139	\$ 925,997	\$ 960,498
Net Revenue	\$ (1,101,725)	\$ (1,176,838)	\$ (1,261,590)	\$ (1,407,249)	\$ (903,135)	\$ (967,452)	\$ (1,034,559)	\$ (1,933,039)	\$ (2,220,423)	\$ (3,077,421)



Jefferson PUD Electric Meter Replacement Business Case Analysis

Financial Calculations

MECHANICAL HAND READ

Mechanical Hand Read	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Capital Costs										
Assets										
Meters	\$ 100,881	\$ 103,907	\$ 107,025	\$ 110,235	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collector Units	-	-	-	-	-	-	-	-	-	-
Batteries	-	-	-	-	-	-	-	-	-	-
Software	-	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-	-
Vehicles	168,000	142,800	116,525	118,855	-	-	-	221,672	-	180,145
Other	-	-	-	-	-	-	-	-	-	-
Asset Costs	\$ 268,881	\$ 246,707	\$ 223,550	\$ 229,091	\$ -	\$ -	\$ -	\$ 221,672	\$ -	\$ 180,145
Installation										
Meter Installation	54,259	56,470	58,771	61,166	-	-	-	-	-	-
Collector Unit Installation	-	-	-	-	-	-	-	-	-	-
Backhaul Costs	-	-	-	-	-	-	-	-	-	-
Project Mgmt/Other	51,910	54,026	56,227	58,519	-	-	-	-	-	-
Installation Costs	\$ 106,169	\$ 110,496	\$ 114,998	\$ 119,684	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sales Taxes	24,468	22,450	20,343	20,847	-	-	-	20,172	-	16,393
Shipping Costs	5,378	4,934	4,471	4,582	-	-	-	4,433	-	3,603
Other Capital Costs	\$ 29,846	\$ 27,385	\$ 24,814	\$ 25,429	\$ -	\$ -	\$ -	\$ 24,606	\$ -	\$ 19,996
Total Capital Costs	\$ 404,896	\$ 384,588	\$ 363,362	\$ 374,204	\$ -	\$ -	\$ -	\$ 246,278	\$ -	\$ 200,141
Operating Costs										
Opt Out Meter Reads	\$ 8,014	\$ 5,560	\$ 2,893	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Itron Meter Reads	32,049	22,237	11,571	-	-	-	-	-	-	-
L&G Meter Reading	245,965	167,256	85,301	-	-	-	-	-	-	-
New Meter Reads	347,256	722,813	1,128,402	1,565,846	1,629,654	1,696,062	1,765,177	2,429,739	2,966,824	3,622,629
Vehicle Maintenance	9,080	14,450	20,030	25,828	26,345	26,872	27,409	32,114	35,457	39,147
Annual System Costs	-	-	-	-	-	-	-	-	-	-
Collector Unit Maintenance	-	-	-	-	-	-	-	-	-	-
Total Operating Costs	\$ 642,364	\$ 932,316	\$ 1,248,198	\$ 1,591,674	\$ 1,655,999	\$ 1,722,934	\$ 1,792,586	\$ 2,461,853	\$ 3,002,280	\$ 3,661,776
Other Services - Costs										
Disconnects	\$ 17,252	\$ 17,954	\$ 18,686	\$ 19,448	\$ 20,240	\$ 21,065	\$ 21,923	\$ 30,177	\$ 36,848	\$ 44,993
On Demand Reads	41,181	42,859	44,606	46,423	48,315	50,284	52,333	72,036	87,959	107,402
Outage Response - OT Hours	9,052	9,421	9,805	10,204	10,620	11,053	11,503	15,834	19,334	23,608
Total Other Service Costs	\$ 67,484	\$ 70,234	\$ 73,096	\$ 76,075	\$ 79,175	\$ 82,401	\$ 85,759	\$ 118,046	\$ 144,140	\$ 176,002
Annual Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Costs	\$ 1,114,745	\$ 1,387,138	\$ 1,684,656	\$ 2,041,954	\$ 1,735,174	\$ 1,805,336	\$ 1,878,346	\$ 2,826,178	\$ 3,146,421	\$ 4,037,919
Revenue										
Increased Revenue from Retiring Old Meters	\$ 188,311	\$ 390,850	\$ 609,033	\$ 826,250	\$ 832,039	\$ 837,884	\$ 843,787	\$ 893,139	\$ 925,997	\$ 960,498
Total Revenue	\$ 188,311	\$ 390,850	\$ 609,033	\$ 826,250	\$ 832,039	\$ 837,884	\$ 843,787	\$ 893,139	\$ 925,997	\$ 960,498
Net Revenue	\$ (926,433)	\$ (996,288)	\$ (1,075,624)	\$ (1,215,704)	\$ (903,135)	\$ (967,452)	\$ (1,034,559)	\$ (1,933,039)	\$ (2,220,423)	\$ (3,077,421)



Jefferson PUD Electric Meter Replacement Business Case Analysis

Financial Calculations

AMR DRIVE BY

AMR Drive By	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Capital Costs										
Assets										
Meters	\$ 504,405	\$ 519,537	\$ 535,124	\$ 551,177	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collector Units	-	-	-	-	-	-	-	-	-	-
Batteries	-	-	-	-	-	-	-	-	-	-
Software	-	-	-	-	-	-	-	-	-	-
Equipment	36,053	-	-	-	-	-	-	-	-	-
Vehicles	84,000	28,560	-	29,714	-	-	-	110,836	-	45,036
Other	-	-	-	-	-	-	-	-	-	-
Asset Costs	\$ 624,459	\$ 548,097	\$ 535,124	\$ 580,891	\$ -	\$ -	\$ -	\$ 110,836	\$ -	\$ 45,036
Installation										
Meter Installation	54,259	56,470	58,771	61,166	-	-	-	-	-	-
Collector Unit Installation	-	-	-	-	-	-	-	-	-	-
Backhaul Costs	-	-	-	-	-	-	-	-	-	-
Project Mgmt/Other	51,910	54,026	56,227	58,519	-	-	-	-	-	-
Installation Costs	\$ 106,169	\$ 110,496	\$ 114,998	\$ 119,684	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sales Taxes	56,826	49,877	48,696	52,861	-	-	-	10,086	-	4,098
Shipping Costs	12,489	10,962	10,702	11,618	-	-	-	2,217	-	901
Other Capital Costs	\$ 69,315	\$ 60,839	\$ 59,399	\$ 64,479	\$ -	\$ -	\$ -	\$ 12,303	\$ -	\$ 4,999
Total Capital Costs	\$ 799,943	\$ 719,432	\$ 709,521	\$ 765,054	\$ -	\$ -	\$ -	\$ 123,139	\$ -	\$ 50,035
Operating Costs										
Opt Out Meter Reads	\$ 8,014	\$ 5,560	\$ 2,893	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Itron Meter Reads	32,049	22,237	11,571	-	-	-	-	-	-	-
L&G Meter Reading	245,965	167,256	85,301	-	-	-	-	-	-	-
New Meter Reads	68,301	142,170	221,944	307,985	320,535	333,597	347,191	477,903	583,542	712,532
Vehicle Maintenance	9,910	15,014	20,318	25,828	26,345	26,872	27,409	32,114	35,457	39,147
Annual System Costs	-	-	-	-	-	-	-	-	-	-
Collector Unit Maintenance	-	-	-	-	-	-	-	-	-	-
Total Operating Costs	\$ 364,240	\$ 352,237	\$ 342,028	\$ 333,813	\$ 346,880	\$ 360,469	\$ 374,600	\$ 510,018	\$ 618,999	\$ 751,679
Other Services - Costs										
Disconnects	\$ 17,252	\$ 17,954	\$ 18,686	\$ 19,448	\$ 20,240	\$ 21,065	\$ 21,923	\$ 30,177	\$ 36,848	\$ 44,993
On Demand Reads	41,181	42,859	44,606	46,423	48,315	50,284	52,333	72,036	87,959	107,402
Outage Response - OT Hours	9,052	9,421	9,805	10,204	10,620	11,053	11,503	15,834	19,334	23,608
Total Other Service Costs	\$ 67,484	\$ 70,234	\$ 73,096	\$ 76,075	\$ 79,175	\$ 82,401	\$ 85,759	\$ 118,046	\$ 144,140	\$ 176,002
Annual Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Costs	\$ 1,231,667	\$ 1,141,903	\$ 1,124,645	\$ 1,174,943	\$ 426,055	\$ 442,870	\$ 460,360	\$ 751,203	\$ 763,139	\$ 977,716
Revenue										
Increased Revenue from Retiring Old Meters	\$ 188,311	\$ 390,850	\$ 609,033	\$ 826,250	\$ 832,039	\$ 837,884	\$ 843,787	\$ 893,139	\$ 925,997	\$ 960,498
Total Revenue	\$ 188,311	\$ 390,850	\$ 609,033	\$ 826,250	\$ 832,039	\$ 837,884	\$ 843,787	\$ 893,139	\$ 925,997	\$ 960,498
Net Revenue	\$ (1,043,356)	\$ (751,052)	\$ (515,612)	\$ (348,693)	\$ 405,983	\$ 395,014	\$ 383,427	\$ 141,936	\$ 162,858	\$ (17,218)



Jefferson PUD Electric Meter Replacement Business Case Analysis

Financial Calculations

HYBRID AMR/AMI

Hybrid AMR/AMI	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Capital Costs										
Assets										
Meters	\$ 504,405	\$ 519,537	\$ 535,124	\$ 551,177	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collector Units	61,035	62,866	64,752	66,694	-	-	-	-	-	-
Batteries	36,500	37,595	38,723	39,885	-	-	-	55,210	-	74,197
Software	137,522	-	-	-	-	-	-	-	-	-
Equipment	36,053	-	-	-	-	-	-	-	-	-
Vehicles	56,000	-	-	-	-	-	-	-	-	-
Other	10,931	-	-	-	-	-	-	-	-	-
Asset Costs	\$ 842,446	\$ 619,998	\$ 638,598	\$ 657,756	\$ -	\$ -	\$ -	\$ 55,210	\$ -	\$ 74,197
Installation										
Meter Installation	54,259	56,470	58,771	61,166	-	-	-	-	-	-
Collector Unit Installation	812	846	880	916	-	-	-	-	-	-
Backhaul Costs	16,060	-	-	-	-	-	-	-	-	-
Project Mgmt/Other	51,910	54,026	56,227	58,519	-	-	-	-	-	-
Installation Costs	\$ 123,042	\$ 111,341	\$ 115,878	\$ 120,600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sales Taxes	76,663	56,420	58,112	59,856	-	-	-	5,024	-	6,752
Shipping Costs	16,849	12,400	12,772	13,155	-	-	-	1,104	-	1,484
Other Capital Costs	\$ 93,512	\$ 68,820	\$ 70,884	\$ 73,011	\$ -	\$ -	\$ -	\$ 6,128	\$ -	\$ 8,236
Total Capital Costs	\$ 1,058,999	\$ 800,159	\$ 825,361	\$ 851,367	\$ -	\$ -	\$ -	\$ 61,338	\$ -	\$ 82,433
Operating Costs										
Opt Out Meter Reads	\$ 8,014	\$ 5,560	\$ 2,893	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Itron Meter Reads	32,049	22,237	11,571	-	-	-	-	-	-	-
L&G Meter Reading	245,965	167,256	85,301	-	-	-	-	-	-	-
New Meter Reads	-	-	-	-	-	-	-	-	-	-
Vehicle Maintenance	3,825	2,601	1,327	-	-	-	-	-	-	-
Annual System Costs	60,519	61,730	62,964	64,224	65,508	66,818	68,155	79,854	88,165	97,342
Collector Unit Maintenance	812	1,691	2,640	3,664	3,813	3,968	4,130	5,685	6,942	8,476
Total Operating Costs	\$ 351,185	\$ 261,076	\$ 166,697	\$ 67,887	\$ 69,321	\$ 70,787	\$ 72,285	\$ 85,539	\$ 95,107	\$ 105,818
Other Services - Costs										
Disconnects	\$ 17,252	\$ 17,954	\$ 18,686	\$ 19,448	\$ 20,240	\$ 21,065	\$ 21,923	\$ 30,177	\$ 36,848	\$ 44,993
On Demand Reads	-	-	-	-	-	-	-	-	-	-
Outage Response - OT Hours	9,052	9,421	9,805	10,204	10,620	11,053	11,503	15,834	19,334	23,608
Total Other Service Costs	\$ 26,303	\$ 27,375	\$ 28,491	\$ 29,652	\$ 30,860	\$ 32,118	\$ 33,426	\$ 46,011	\$ 56,181	\$ 68,600
Annual Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Costs	\$ 1,436,488	\$ 1,088,610	\$ 1,020,548	\$ 948,906	\$ 100,181	\$ 102,904	\$ 105,711	\$ 192,888	\$ 151,289	\$ 256,851
Revenue										
Increased Revenue from Retiring Old Meters	\$ 188,311	\$ 390,850	\$ 609,033	\$ 826,250	\$ 832,039	\$ 837,884	\$ 843,787	\$ 893,139	\$ 925,997	\$ 960,498
Total Revenue	\$ 188,311	\$ 390,850	\$ 609,033	\$ 826,250	\$ 832,039	\$ 837,884	\$ 843,787	\$ 893,139	\$ 925,997	\$ 960,498
Net Revenue	\$ (1,248,177)	\$ (697,759)	\$ (411,516)	\$ (122,656)	\$ 731,857	\$ 734,980	\$ 738,075	\$ 700,251	\$ 774,709	\$ 703,647



Jefferson PUD Electric Meter Replacement Business Case Analysis

Financial Calculations

AMI

AMI	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Capital Costs										
Assets										
Meters	\$ 580,358	\$ 597,769	\$ 615,702	\$ 634,173	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collector Units	61,035	62,866	64,752	66,694	-	-	-	-	-	-
Batteries	36,500	37,595	38,723	39,885	-	-	-	55,210	-	74,197
Software	137,522	-	-	-	-	-	-	-	-	-
Equipment	36,053	-	-	-	-	-	-	-	-	-
Vehicles	56,000	-	-	-	-	-	-	-	-	-
Other	10,931	-	-	-	-	-	-	-	-	-
Asset Costs	\$ 918,399	\$ 698,230	\$ 719,177	\$ 740,752	\$ -	\$ -	\$ -	\$ 55,210	\$ -	\$ 74,197
Installation										
Meter Installation	54,259	56,470	58,771	61,166	-	-	-	-	-	-
Collector Unit Installation	812	846	880	916	-	-	-	-	-	-
Backhaul Costs	16,060	-	-	-	-	-	-	-	-	-
Project Mgmt/Other	51,910	54,026	56,227	58,519	-	-	-	-	-	-
Installation Costs	\$ 123,042	\$ 111,341	\$ 115,878	\$ 120,600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sales Taxes	83,574	63,539	65,445	67,408	-	-	-	5,024	-	6,752
Shipping Costs	18,368	13,965	14,384	14,815	-	-	-	1,104	-	1,484
Other Capital Costs	\$ 101,942	\$ 77,504	\$ 79,829	\$ 82,223	\$ -	\$ -	\$ -	\$ 6,128	\$ -	\$ 8,236
Total Capital Costs	\$ 1,143,383	\$ 887,074	\$ 914,884	\$ 943,576	\$ -	\$ -	\$ -	\$ 61,338	\$ -	\$ 82,433
Operating Costs										
Opt Out Meter Reads	\$ 8,014	\$ 5,560	\$ 2,893	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Iron Meter Reads	32,049	22,237	11,571	-	-	-	-	-	-	-
L&G Meter Reading	245,965	167,256	85,301	-	-	-	-	-	-	-
New Meter Reads	-	-	-	-	-	-	-	-	-	-
Vehicle Maintenance	3,825	2,601	1,327	-	-	-	-	-	-	-
Annual System Costs	60,519	61,730	62,964	64,224	65,508	66,818	68,155	79,854	88,165	97,342
Collector Unit Maintenance	812	1,691	2,640	3,664	3,813	3,968	4,130	5,685	6,942	8,476
Total Operating Costs	\$ 351,185	\$ 261,076	\$ 166,697	\$ 67,887	\$ 69,321	\$ 70,787	\$ 72,285	\$ 85,539	\$ 95,107	\$ 105,818
Other Services - Costs										
Disconnects	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
On Demand Reads	-	-	-	-	-	-	-	-	-	-
Outage Response - OT Hours	4,526	4,710	4,902	5,102	5,310	5,526	5,752	7,917	9,667	11,804
Total Other Service Costs	\$ 4,526	\$ 4,710	\$ 4,902	\$ 5,102	\$ 5,310	\$ 5,526	\$ 5,752	\$ 7,917	\$ 9,667	\$ 11,804
Annual Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Costs	\$ 1,499,095	\$ 1,152,860	\$ 1,086,483	\$ 1,016,565	\$ 74,631	\$ 76,313	\$ 78,036	\$ 154,794	\$ 104,774	\$ 200,054
Revenue										
Increased Revenue from Retiring Old Meters	\$ 188,311	\$ 390,850	\$ 609,033	\$ 826,250	\$ 832,039	\$ 837,884	\$ 843,787	\$ 893,139	\$ 925,997	\$ 960,498
Total Revenue	\$ 188,311	\$ 390,850	\$ 609,033	\$ 826,250	\$ 832,039	\$ 837,884	\$ 843,787	\$ 893,139	\$ 925,997	\$ 960,498
Net Revenue	\$ (1,310,784)	\$ (762,010)	\$ (477,450)	\$ (190,315)	\$ 757,407	\$ 761,571	\$ 765,750	\$ 738,345	\$ 821,223	\$ 760,443



Jefferson PUD Electric Meter Replacement Business Case Analysis

Summary

Net Revenue (Additional Revenue minus Cost)	Status Quo	Digital Hand Read	Mechanical Hand Read	AMR Drive By	Hybrid AMR/AMI	AMI
YEAR 1	\$ (483,461)	\$ (1,101,725)	\$ (926,433)	\$ (1,043,356)	\$ (1,248,177)	\$ (1,310,784)
YEAR 2	(426,417)	(1,176,838)	(996,288)	(751,052)	(697,759)	(762,010)
YEAR 3	(431,548)	(1,261,590)	(1,075,624)	(515,612)	(411,516)	(477,450)
YEAR 4	(437,065)	(1,407,249)	(1,215,704)	(348,693)	(122,656)	(190,315)
YEAR 5	(443,044)	(903,135)	(903,135)	405,983	731,857	757,407
YEAR 6	(449,343)	(967,452)	(967,452)	395,014	734,980	761,571
YEAR 7	(473,634)	(1,034,559)	(1,034,559)	383,427	738,075	765,750
YEAR 8	(552,696)	(1,318,972)	(1,318,972)	263,997	691,269	720,072
YEAR 9	(489,216)	(1,359,852)	(1,359,852)	321,847	692,809	722,785
YEAR 10	(478,073)	(1,402,510)	(1,402,510)	344,692	694,270	725,468
YEAR 11	(542,540)	(1,484,956)	(1,484,956)	292,439	676,071	708,540
YEAR 12	(498,972)	(1,416,162)	(1,416,162)	315,265	753,073	786,865
YEAR 13	(508,153)	(1,502,607)	(1,502,607)	299,375	755,957	791,127
YEAR 14	(517,812)	(1,592,756)	(1,592,756)	282,657	758,797	795,399
YEAR 15	(633,221)	(1,933,039)	(1,933,039)	141,936	700,251	738,345
YEAR 16	(562,617)	(1,994,118)	(1,994,118)	204,724	701,151	740,798
YEAR 17	(599,473)	(2,057,801)	(2,057,801)	227,169	701,942	743,204
YEAR 18	(630,927)	(2,167,770)	(2,167,770)	163,209	702,617	745,561
YEAR 19	(600,689)	(2,104,620)	(2,104,620)	185,345	772,209	816,902
YEAR 20	(587,226)	(2,220,423)	(2,220,423)	162,858	774,709	821,223
YEAR 21	(600,967)	(3,096,168)	(2,341,138)	(1,108,880)	(494,867)	(598,864)
YEAR 22	(709,711)	(3,530,081)	(2,749,862)	(1,315,062)	(584,065)	(690,661)
YEAR 23	(630,597)	(3,644,846)	(2,838,581)	(1,288,948)	(625,334)	(734,586)
YEAR 24	(646,555)	(3,764,233)	(2,931,031)	(1,310,699)	(668,099)	(780,065)
YEAR 25	(745,936)	(3,077,421)	(3,077,421)	(17,218)	703,647	760,443



Jefferson PUD Electric Meter Replacement Business Case Analysis

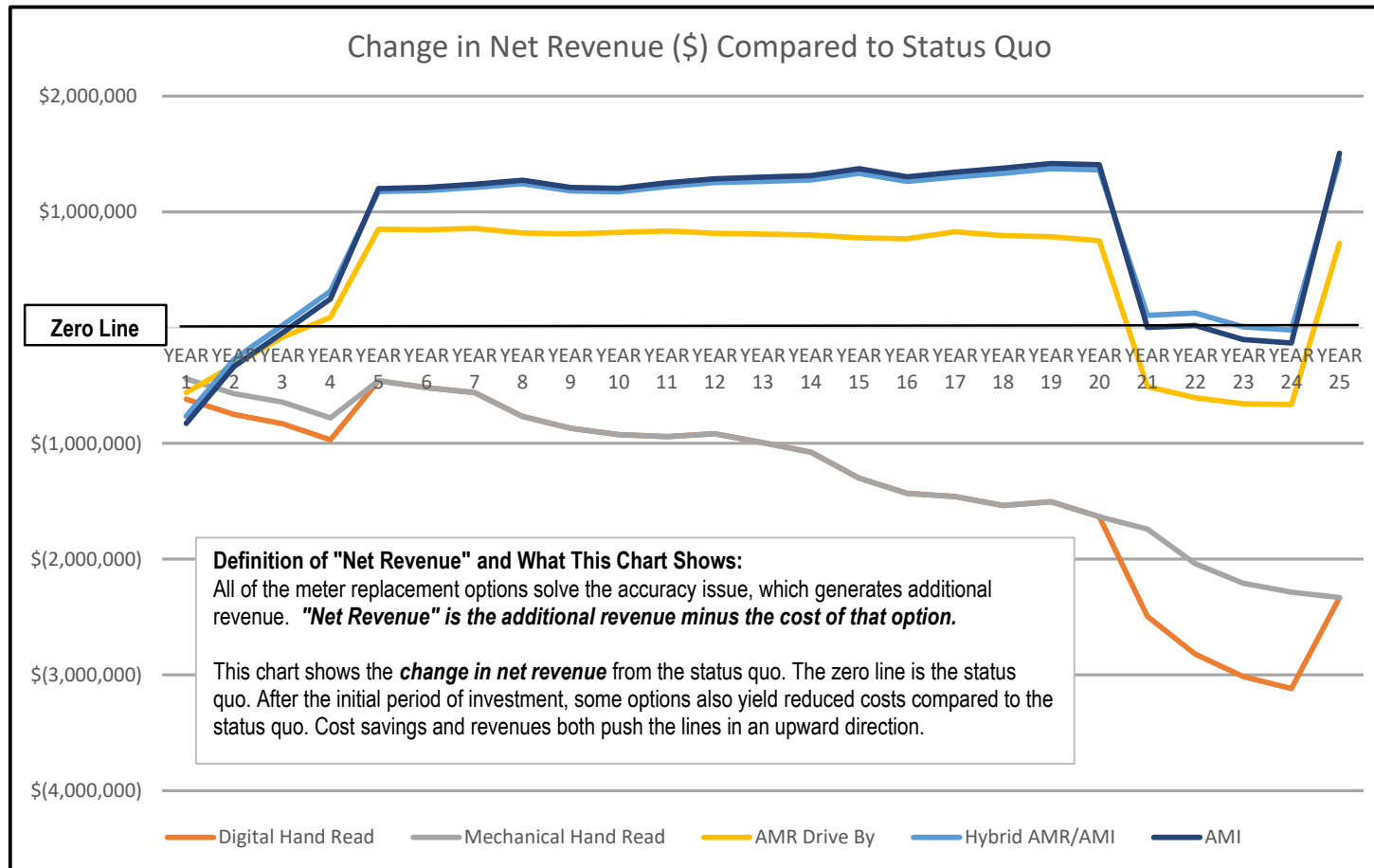
Summary

Change in Net Revenue (from Status Quo)	Status Quo	Digital Hand Read	Mechanical Hand Read	AMR Drive By	Hybrid AMR/AMI	AMI
YEAR 1		\$ (618,264)	\$ (442,972)	\$ (559,895)	\$ (764,716)	\$ (827,323)
YEAR 2		(750,421)	(569,871)	(324,636)	(271,343)	(335,593)
YEAR 3		(830,042)	(644,076)	(84,065)	20,032	(45,902)
YEAR 4		(970,185)	(778,639)	88,372	314,408	246,749
YEAR 5		(460,092)	(460,092)	849,027	1,174,901	1,200,451
YEAR 6		(518,109)	(518,109)	844,356	1,184,322	1,210,913
YEAR 7		(560,925)	(560,925)	857,061	1,211,709	1,239,384
YEAR 8		(766,277)	(766,277)	816,692	1,243,965	1,272,767
YEAR 9		(870,635)	(870,635)	811,063	1,182,025	1,212,001
YEAR 10		(924,437)	(924,437)	822,766	1,172,343	1,203,541
YEAR 11		(942,416)	(942,416)	834,979	1,218,611	1,251,080
YEAR 12		(917,189)	(917,189)	814,237	1,252,045	1,285,837
YEAR 13		(994,454)	(994,454)	807,528	1,264,110	1,299,280
YEAR 14		(1,074,944)	(1,074,944)	800,469	1,276,609	1,313,212
YEAR 15		(1,299,818)	(1,299,818)	775,157	1,333,472	1,371,566
YEAR 16		(1,431,500)	(1,431,500)	767,342	1,263,769	1,303,415
YEAR 17		(1,458,327)	(1,458,327)	826,643	1,301,415	1,342,677
YEAR 18		(1,536,843)	(1,536,843)	794,136	1,333,545	1,376,488
YEAR 19		(1,503,931)	(1,503,931)	786,034	1,372,898	1,417,591
YEAR 20		(1,633,197)	(1,633,197)	750,084	1,361,935	1,408,449
YEAR 21		(2,495,201)	(1,740,170)	(507,913)	106,100	2,103
YEAR 22		(2,820,370)	(2,040,151)	(605,350)	125,646	19,050
YEAR 23		(3,014,250)	(2,207,984)	(658,351)	5,263	(103,990)
YEAR 24		(3,117,677)	(2,284,475)	(664,143)	(21,544)	(133,510)
YEAR 25		(2,331,485)	(2,331,485)	728,718	1,449,583	1,506,379



Jefferson PUD Electric Meter Replacement Business Case Analysis

Summary





Jefferson PUD Electric Meter Replacement Business Case Analysis

Summary

Non-Economic Considerations	Status Quo	Digital Hand Read	Mechanical Hand Read	AMR Drive By	Hybrid AMR/AMI	AMI	Implications
Potential RF Health Impacts	=	+	+	=	Partial +	Partial +	Opt-out should be allowed.
Privacy	=	+	+	=	=	=	Opt-out should be allowed.
Vulnerability to Hacking	=	=	=	=	=	-	AMI requires good data hygiene.
Reliability/Accuracy	=	+	+	+	+	+	Any new option will solve accuracy issue.
Compatibility	=	=	=	=	=	=	Any new option has to be compatible.
Functionality	=	=	=	=	=	+	AMI allows quicker response, more control.
Allows Time of Use metering	=	=	=	=	=	+	Only AMI allows residential TOU rates.
<p><i>Key to symbols:</i></p> <p>= Neutral compared to status quo</p> <p>+ Advantageous compared to status quo</p> <p>- Disadvantageous compared to status quo</p>							

Change in Net Revenue - Net Present Value at 2.50%	
Digital Hand Read	(\$22,800,000)
Mechanical Hand Read	(\$20,300,000)
AMR Drive By	\$7,800,000
Hybrid AMR/AMI	\$15,000,000
AMI	\$15,000,000

Summary Findings
Substituting collectors and backhaul costs for employee labor is worth the initial capital investment.
AMI and Hybrid AMR/AMI are very close economically.
A shorter assumed life reduces the Net Present Value but does not change relative ranking.
If opt-out is allowed and good data security is practiced, non-economic factors do not swing business decision.



Jefferson PUD

Electric Meter Replacement

Business Case Analysis

Supporting Tabs

Meter Capital \$	Summarizes data from 2017 bids and number of meters by size. Also calculates weighted average cost per meter in 2017 dollars.
Meter Accuracy	Summarizes average % inaccuracy of old mechanical meters.
Other Capital \$	Summarizes capital costs other than meters from 2017 bids.
Number of Meters	25-year projection of number of meters needed by year.
Vehicle Calculation	25-year projection of labor hours and vehicles needed.
Revenue Calculation	Calculates revenue currently not collected due to meter inaccuracy.



Jefferson PUD Electric Meter Replacement Business Case Analysis

Cost of Meters

Meter Type	Quantity	Average Price	Average Cost
Residential Meter - 2S	9,500	\$ 122.10	\$ 1,159,923
Residential Meter - 2S w/ Remote Disconnect	7,500	122.10	915,729
Small Business Meter - 2S w/ Demand	500	117.02	58,509
Small Business Meter - 2S w/ Demand (Higher Voltage)	500	99.33	49,663
Small Business Meter - 4S w/ Demand	400	201.07	80,427
Small Business Meter - 12S w/ Demand	100	150.83	15,083
Large Business Meter - 9S w/ Demand	80	300.46	24,037
Large Business Meter - 16S w/ Demand	150	300.46	45,069
Residential 12S	200	228.17	45,634
Bidirectional Meter - 2S	250	99.33	24,832
Bidirectional Meter - 9S	20	332.64	6,653
Total	19,200		\$ 2,425,558

\$ 126.33 Weighted Average per Meter (2017 \$)

1.03 Residential Meter-Equivalent Factor (Weighted Avg as Multiple of Res Meter 2S)

81% Low bid as % of average

Meter Type	Aclara	Tantalus	Itron	Eaton	Sensus	L&G	Honeywell	Average
Residential Meter - 2S	\$ 106.15	\$ 125.98	\$ 78.25	\$ 98.00	\$ 71.50	\$ 95.00	\$ 75.00	\$ 92.84
Residential Meter - 2S w/ Remote Disconnect	146.98	148.18	99.25	119.00	116.27	115.00	110.00	122.10
Small Business Meter - 2S w/ Demand	145.20	159.58	88.00	148.00	86.35	112.00	80.00	117.02
Small Business Meter - 2S w/ Demand (Higher Voltage)	106.15	125.98	n/a	98.00	71.50	95.00	n/a	99.33
Small Business Meter - 4S w/ Demand	301.80	354.18	175.00	148.00	236.50	112.00	80.00	201.07
Small Business Meter - 12S w/ Demand	145.20	167.05	102.25	172.00	93.50	225.00	n/a	150.83
Large Business Meter - 9S w/ Demand	301.80	353.20	200.00	354.00	255.20	399.00	240.00	300.46
Large Business Meter - 16S w/ Demand	301.80	353.20	200.00	354.00	255.20	399.00	240.00	300.46
Residential 12S	301.80	353.20	200.00	172.00	255.20	225.00	90.00	228.17
Bidirectional Meter - 2S	106.15	125.98	n/a	98.00	71.50	95.00	n/a	99.33
Bidirectional Meter - 9S	301.80	353.20	n/a	354.00	255.20	399.00	n/a	332.64

Meter - Additions for Remote Disconnect	Aclara	Tantalus	Itron	Eaton	Sensus	L&G	Honeywell	Average
Residential Meter - 2S	\$ 40.83	\$ 22.20	\$ 21.00	\$ 21.00	\$ 44.77	\$ 20.00	\$ 35.00	\$ 29.26



Jefferson PUD

Electric Meter Replacement

Business Case Analysis

Mechanical Meter Accuracy

Meter Mfg/Type	Digital/Mechanical	#	% Accuracy	Inaccuracy %
L&G	Mechanical	8,150	94.19%	5.81%
L&G	Digital	8,150	100.00%	0.00%
Itron	Digital	3,050	100.00%	0.00%
Hand Read	Digital	150	100.00%	0.00%
Total		19,500	97.57%	2.43%



Jefferson PUD Electric Meter Replacement Business Case Analysis

Summary of Capital Costs Other Than Meters

AMI	Type of System	Number of Collectors	Cost of Collectors	Other Installation Costs	Software	Software Cost	Equipment Needed	Equipment Costs	Other	Other Costs	Annual Costs Desc.	Annual Costs	Notes
Eaton	RF Mesh Gateways use Wifi, fiber, or cellular	22 gateways 184 relays	\$ 135,058	\$ 90,000	Yukon Platform	\$ 35,000	Servers	\$ 29,200	RF Mesh field tool kit	\$ 3,899	Software Services System Support	\$ 12,700	Does not use licensed RF network
Tantalus	RF Network Collectors use fiber, wifi, or cellular	68 collectors/gateways	\$ 130,000	\$ 98,113		\$ 190,791		total included in software costs	Infrastructure Repeaters	\$ 21,675	Annual Support	\$ 22,679	Does not include water meter reading requirement. Does not use licensed RF network
Itron	RF Mesh powerline carrier WiFi	17 Grid Routers 15 Nodes	\$ 106,493	\$ 264,815	IoT Device Manager Application	\$ 3,250					Cloud Services (Software) & Maintenance	\$ 134,686	
Aclara	RF Network Collectors use fiber, WiFi, or cellular	43 data collection units (DCUs)	\$ 309,011	\$ 143,410	iiDEAS platform	\$ 211,636	3 Servers	total included in software costs			Cellular Backhaul & Software Maintenance	\$ 48,469	Requires licensing of FCC RF networks - 10yr contracts. Annual cost not reflected in bid.
Sensus	RF Network Base station antennae (non cellular) are collectors	14 Collectors/Base Stations	\$ 285,516	\$ 173,540	RNI Software License	\$ 148,508			RNI Set-Up/ education	\$ 17,023	System/Software support RNI interface	\$ 79,312	Does not include potential leasing fees for base station sites (third party infrastructure)
Landis & Gyr	RF Mesh Collectors use fiber or cellular	11 Collectors 99 routers	\$ 250,679	\$ 97,400	Command Center License	\$ 47,200			Field Collection Devices	\$ 1,850	AMI system support	\$ 17,819	
Honeywell	RF Mesh Collectors use fiber or cellular	20 Repeater Nodes 19 Synergy Net Routers	\$ 260,300	\$ 386,518	Connexo Net Sense FieldSense Connexo Insight Consumer Portal	\$ 194,007	Servers	\$ 33,000	CT-50 RF Belt Clip	\$ 2,700	System maintenance	\$ 49,768	Excludes taxes
Verizon	Cellular												
AVERAGE 2017 \$		\$ 2,885	\$ 211,008	\$ 179,114		\$ 118,627		\$ 31,100		\$ 9,429		\$ 52,205	
AVERAGE 2022 \$		\$ 3,344	\$ 244,616	\$ 207,642		\$ 137,522		\$ 36,053		\$ 10,931		\$ 60,519	



Jefferson PUD Electric Meter Replacement Business Case Analysis

Projected Meter Life Schedule

Status Quo	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Beginning L&G Meters	16,300	16,199	16,098	15,997	15,896	15,795	15,694	14,886	14,381	13,876
less: Meters Replaced	(101)	(101)	(101)	(101)	(101)	(101)	(101)	(101)	(101)	(101)
Ending L&G Meters	16,199	16,098	15,997	15,896	15,795	15,694	15,593	14,785	14,280	13,775
Beginning Itron Meters	3,050	3,151	3,252	3,353	3,454	3,555	3,656	4,464	4,969	5,474
plus: Meters Replacing L&G	101	101	101	101	101	101	101	101	101	101
plus: Meters Replacing Itron from this Forecast	-	-	-	-	-	-	-	101	101	101
plus: First Replacement of New Meters	-	-	-	-	-	-	508	508	-	508
less: Meters Replacing Itron	-	-	-	-	-	-	(508)	(609)	(101)	(609)
Ending Itron Meters	3,151	3,252	3,353	3,454	3,555	3,656	3,757	4,565	5,070	5,575
Beginning Opt Out Meters	150	150	150	150	150	150	150	150	150	150
plus: Meter Replacement	-	-	-	-	-	-	-	-	-	-
less: Meters Replaced	-	-	-	-	-	-	-	-	-	-
Ending Opt Out Meters	150	150	150	150	150	150	150	150	150	150
Total Meters	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500
On Demand Reads	484	492	501	509	518	526	535	603	645	688

Digital Hand Read	New Meter Type	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Beginning L&G Meters		16,300	12,225	8,150	4,075	-	-	-	-	-	-
less: Meters Replaced		(4,075)	(4,075)	(4,075)	(4,075)	-	-	-	-	-	-
Ending L&G Meters		12,225	8,150	4,075	-	-	-	-	-	-	-
Beginning Itron Meters		3,050	2,288	1,525	763	-	-	-	-	-	-
less: Meters Replaced		(763)	(763)	(763)	(763)	-	-	-	-	-	-
Ending Itron Meters		2,288	1,525	763	-	-	-	-	-	-	-
Beginning Opt Out Meters		150	113	75	38	-	-	-	-	-	-
less: Meters Replaced		(38)	(38)	(38)	(38)	-	-	-	-	-	-
Ending Opt Out Meters		113	75	38	-	-	-	-	-	-	-
Beginning New Meters - Type 1	Hand Read	-	4,875	9,750	14,625	19,500	19,500	19,500	19,500	19,500	19,500
plus: New Meters		4,875	4,875	4,875	4,875	-	-	-	-	-	-
plus: First Replacement of New Meters		-	-	-	-	-	-	-	-	-	-
less: Meters Replaced		-	-	-	-	-	-	-	-	-	-
Ending New Meters		4,875	9,750	14,625	19,500	19,500	19,500	19,500	19,500	19,500	19,500
Beginning New Meters - Type 2	Hand Read	-	-	-	-	-	-	-	-	-	-
plus: New Meters		-	-	-	-	-	-	-	-	-	-
plus: First Replacement of New Meters		-	-	-	-	-	-	-	-	-	-
less: Meters Replaced		-	-	-	-	-	-	-	-	-	-
Ending New Meters		-	-	-	-	-	-	-	-	-	-
Total Meters		19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500
Age of New Meters		1	2	3	4	5	6	7	15	20	5

Projected Meter Life Schedule

Mechanical Hand Read	New Meter Type	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Beginning L&G Meters		16,300	12,225	8,150	4,075	-	-	-	-	-	-
less: Meters Replaced		(4,075)	(4,075)	(4,075)	(4,075)	-	-	-	-	-	-
Ending L&G Meters		12,225	8,150	4,075	-	-	-	-	-	-	-
Beginning Itron Meters		3,050	2,288	1,525	763	-	-	-	-	-	-
less: Meters Replaced		(763)	(763)	(763)	(763)	-	-	-	-	-	-
Ending Itron Meters		2,288	1,525	763	-	-	-	-	-	-	-
Beginning Opt Out Meters		150	113	75	38	-	-	-	-	-	-
less: Meters Replaced		(38)	(38)	(38)	(38)	-	-	-	-	-	-
Ending Opt Out Meters		113	75	38	-	-	-	-	-	-	-
Beginning New Meters - Type 1	Hand Read	-	4,875	9,750	14,625	19,500	19,500	19,500	19,500	19,500	19,500
plus: New Meters		4,875	4,875	4,875	4,875	-	-	-	-	-	-
plus: First Replacement of New Meters		-	-	-	-	-	-	-	-	-	-
less: Meters Replaced		-	-	-	-	-	-	-	-	-	-
Ending New Meters		4,875	9,750	14,625	19,500	19,500	19,500	19,500	19,500	19,500	19,500
Beginning New Meters - Type 2	Hand Read	-	-	-	-	-	-	-	-	-	-
plus: New Meters		-	-	-	-	-	-	-	-	-	-
plus: First Replacement of New Meters		-	-	-	-	-	-	-	-	-	-
less: Meters Replaced		-	-	-	-	-	-	-	-	-	-
Ending New Meters		-	-	-	-	-	-	-	-	-	-
Total Meters		19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500
Age of New Meters		1	2	3	4	5	6	7	15	20	25

AMR Drive By	New Meter Type	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Beginning L&G Meters		16,300	12,225	8,150	4,075	-	-	-	-	-	-
less: Meters Replaced		(4,075)	(4,075)	(4,075)	(4,075)	-	-	-	-	-	-
Ending L&G Meters		12,225	8,150	4,075	-	-	-	-	-	-	-
Beginning Itron Meters		3,050	2,288	1,525	763	-	-	-	-	-	-
less: Meters Replaced		(763)	(763)	(763)	(763)	-	-	-	-	-	-
Ending Itron Meters		2,288	1,525	763	-	-	-	-	-	-	-
Beginning Opt Out Meters		150	113	75	38	-	-	-	-	-	-
less: Meters Replaced		(38)	(38)	(38)	(38)	-	-	-	-	-	-
Ending Opt Out Meters		113	75	38	-	-	-	-	-	-	-
Beginning New Meters - Type 1	Drive-By Read	-	4,875	9,750	14,625	19,500	19,500	19,500	19,500	19,500	19,500
plus: New Meters		4,875	4,875	4,875	4,875	-	-	-	-	-	-
plus: First Replacement of New Meters		-	-	-	-	-	-	-	-	-	-
less: Meters Replaced		-	-	-	-	-	-	-	-	-	-
Ending New Meters		4,875	9,750	14,625	19,500	19,500	19,500	19,500	19,500	19,500	19,500
Beginning New Meters - Type 2	Drive-By Read	-	-	-	-	-	-	-	-	-	-
plus: New Meters		-	-	-	-	-	-	-	-	-	-
plus: First Replacement of New Meters		-	-	-	-	-	-	-	-	-	-
less: Meters Replaced		-	-	-	-	-	-	-	-	-	-
Ending New Meters		-	-	-	-	-	-	-	-	-	-
Total Meters		19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500
Age of New Meters		1	2	3	4	5	6	7	15	20	5

Projected Meter Life Schedule

Hybrid AMR/AMI	New Meter Type	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Beginning L&G Meters		16,300	12,225	8,150	4,075	-	-	-	-	-	-
less: Meters Replaced		(4,075)	(4,075)	(4,075)	(4,075)	-	-	-	-	-	-
Ending L&G Meters		12,225	8,150	4,075	-	-	-	-	-	-	-
Beginning Itron Meters		3,050	2,288	1,525	763	-	-	-	-	-	-
less: Meters Replaced		(763)	(763)	(763)	(763)	-	-	-	-	-	-
Ending Itron Meters		2,288	1,525	763	-	-	-	-	-	-	-
Beginning Opt Out Meters		150	113	75	38	-	-	-	-	-	-
less: Meters Replaced		(38)	(38)	(38)	(38)	-	-	-	-	-	-
Ending Opt Out Meters		113	75	38	-	-	-	-	-	-	-
Beginning New Meters - Type 1	Remote Read	-	4,350	8,699	13,049	17,398	17,398	17,398	17,398	17,398	17,398
plus: New Meters		4,350	4,350	4,350	4,350	-	-	-	-	-	-
plus: First Replacement of New Meters		-	-	-	-	-	-	-	-	-	-
less: Meters Replaced		-	-	-	-	-	-	-	-	-	-
Ending New Meters		4,350	8,699	13,049	17,398	17,398	17,398	17,398	17,398	17,398	17,398
Beginning New Meters - Type 2	Remote Read	-	526	1,051	1,577	2,102	2,102	2,102	2,102	2,102	2,102
plus: New Meters		526	526	526	526	-	-	-	-	-	-
plus: First Replacement of New Meters		-	-	-	-	-	-	-	-	-	-
less: Meters Replaced		-	-	-	-	-	-	-	-	-	-
Ending New Meters		526	1,051	1,577	2,102	2,102	2,102	2,102	2,102	2,102	2,102
Total Meters		19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500
Age of New Meters		1	2	3	4	5	6	7	15	20	5

AMI	New Meter Type	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Beginning L&G Meters		16,300	12,225	8,150	4,075	-	-	-	-	-	-
less: Meters Replaced		(4,075)	(4,075)	(4,075)	(4,075)	-	-	-	-	-	-
Ending L&G Meters		12,225	8,150	4,075	-	-	-	-	-	-	-
Beginning Itron Meters		3,050	2,288	1,525	763	-	-	-	-	-	-
less: Meters Replaced		(763)	(763)	(763)	(763)	-	-	-	-	-	-
Ending Itron Meters		2,288	1,525	763	-	-	-	-	-	-	-
Beginning Opt Out Meters		150	113	75	38	-	-	-	-	-	-
less: Meters Replaced		(38)	(38)	(38)	(38)	-	-	-	-	-	-
Ending Opt Out Meters		113	75	38	-	-	-	-	-	-	-
Beginning New Meters - Type 1	Remote Read	-	4,875	9,750	14,625	19,500	19,500	19,500	19,500	19,500	19,500
plus: New Meters		4,875	4,875	4,875	4,875	-	-	-	-	-	-
plus: First Replacement of New Meters		-	-	-	-	-	-	-	-	-	-
less: Meters Replaced		-	-	-	-	-	-	-	-	-	-
Ending New Meters		4,875	9,750	14,625	19,500	19,500	19,500	19,500	19,500	19,500	19,500
Beginning New Meters - Type 2	Remote Read	-	-	-	-	-	-	-	-	-	-
plus: New Meters		-	-	-	-	-	-	-	-	-	-
plus: First Replacement of New Meters		-	-	-	-	-	-	-	-	-	-
less: Meters Replaced		-	-	-	-	-	-	-	-	-	-
Ending New Meters		-	-	-	-	-	-	-	-	-	-
Total Meters		19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500	19,500
Age of New Meters		1	2	3	4	5	6	7	15	20	5



Jefferson PUD

Electric Meter Replacement

Business Case Analysis

New Vehicle Purchases

Number of Meter Reading Hours	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Status Quo	1,232	1,263	1,295	1,327	1,359	1,391	1,422	1,677	1,836	1,994
Digital Hand Read	8,700	16,200	23,700	31,200	31,200	31,200	31,200	31,200	31,200	31,200
Mechanical Hand Read	8,700	16,200	23,700	31,200	31,200	31,200	31,200	31,200	31,200	31,200
AMR Drive By	2,434	3,668	4,902	6,137	6,137	6,137	6,137	6,137	6,137	6,137
Hybrid AMR/AMI	900	600	300	-	-	-	-	-	-	-
AMI	900	600	300	-	-	-	-	-	-	-

Less Current Meter Readers Hours	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Status Quo	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)
Digital Hand Read	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)
Mechanical Hand Read	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)
AMR Drive By	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)
Hybrid AMR/AMI	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)
AMI	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)	(1,536)

Hours Needed to Fill	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Status Quo	-	-	-	-	-	-	-	141	300	458
Digital Hand Read	7,164	14,664	22,164	29,664	29,664	29,664	29,664	29,664	29,664	29,664
Mechanical Hand Read	7,164	14,664	22,164	29,664	29,664	29,664	29,664	29,664	29,664	29,664
AMR Drive By	898	2,132	3,366	4,601	4,601	4,601	4,601	4,601	4,601	4,601
Hybrid AMR/AMI	-	-	-	-	-	-	-	-	-	-
AMI	-	-	-	-	-	-	-	-	-	-

New FTEs Needed	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Status Quo	-	-	-	-	-	-	-	0.08	0.17	0.25
Digital Hand Read	3.98	8.15	12.31	16.48	16.48	16.48	16.48	16.48	16.48	16.48
Mechanical Hand Read	3.98	8.15	12.31	16.48	16.48	16.48	16.48	16.48	16.48	16.48
AMR Drive By	0.50	1.18	1.87	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Hybrid AMR/AMI	-	-	-	-	-	-	-	-	-	-
AMI	-	-	-	-	-	-	-	-	-	-

New Trucks Needed	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Status Quo	-	-	-	-	-	-	-	-	-	-
Digital Hand Read	4.00	5.00	4.00	4.00	-	-	-	-	-	-
Mechanical Hand Read	4.00	5.00	4.00	4.00	-	-	-	-	-	-
AMR Drive By	1.00	1.00	-	1.00	-	-	-	-	-	-
Hybrid AMR/AMI	-	-	-	-	-	-	-	-	-	-
AMI	-	-	-	-	-	-	-	-	-	-



Jefferson PUD

Electric Meter Replacement

Business Case Analysis

New Vehicle Purchases

Truck Schedule	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Status Quo										
Starting Trucks	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00
New Trucks Purchased	2.00	-	-	-	-	-	-	2.00	-	1.00
Trucks Retired	(2.00)	-	-	-	-	-	-	(2.00)	-	(1.00)
Ending Trucks	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00
Digital Hand Read										
Starting Trucks	2.00	6.00	11.00	15.00	19.00	19.00	19.00	19.00	19.00	19.00
New Trucks Purchased	6.00	5.00	4.00	4.00	-	-	-	6.00	-	4.00
Trucks Retired	(2.00)	-	-	-	-	-	-	(6.00)	-	(4.00)
Ending Trucks	6.00	11.00	15.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00
Mechanical Hand Read										
Starting Trucks	2.00	6.00	11.00	15.00	19.00	19.00	19.00	19.00	19.00	19.00
New Trucks Purchased	6.00	5.00	4.00	4.00	-	-	-	6.00	-	4.00
Trucks Retired	(2.00)	-	-	-	-	-	-	(6.00)	-	(4.00)
Ending Trucks	6.00	11.00	15.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00
AMR Drive By										
Starting Trucks	2.00	3.00	4.00	4.00	5.00	5.00	5.00	5.00	5.00	5.00
New Trucks Purchased	3.00	1.00	-	1.00	-	-	-	3.00	-	1.00
Trucks Retired	(2.00)	-	-	-	-	-	-	(3.00)	-	(1.00)
Ending Trucks	3.00	4.00	4.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Hybrid AMR/AMI										
Starting Trucks	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
New Trucks Purchased	2.00	-	-	-	-	-	-	-	-	-
Trucks Retired	(2.00)	-	-	-	-	-	-	-	-	-
Ending Trucks	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
AMI										
Starting Trucks	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
New Trucks Purchased	2.00	-	-	-	-	-	-	-	-	-
Trucks Retired	(2.00)	-	-	-	-	-	-	-	-	-
Ending Trucks	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00



Jefferson PUD **Electric Meter Replacement** **Business Case Analysis**

Energy Revenue Calculations Excluding Port Townsend Mill

Load Forecast (kWh)	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Residential										
Tier 1	100,365,442	101,349,023	102,342,244	103,345,198	104,357,981	105,380,689	106,413,420	115,048,068	120,797,004	126,833,213
Tier 2	76,528,692	77,278,674	78,036,005	78,800,758	79,573,005	80,352,820	81,140,278	87,724,201	92,107,767	96,710,379
Tier 3	32,724,706	33,045,408	33,369,253	33,696,272	34,026,495	34,359,955	34,696,683	37,512,057	39,386,530	41,354,669
General Service	42,254,819	42,254,819	42,254,819	42,254,819	42,254,819	42,254,819	42,254,819	42,254,819	42,254,819	42,254,819
Small Demand General Service	20,907,870	20,907,870	20,907,870	20,907,870	20,907,870	20,907,870	20,907,870	20,907,870	20,907,870	20,907,870
Large Demand General Service	14,324,460	14,324,460	14,324,460	14,324,460	14,324,460	14,324,460	14,324,460	14,324,460	14,324,460	14,324,460
Primary General Service	10,972,500	10,972,500	10,972,500	10,972,500	10,972,500	10,972,500	10,972,500	10,972,500	10,972,500	10,972,500
Irrigation/Drainage	18,540	18,540	18,540	18,540	18,540	18,540	18,540	18,540	18,540	18,540
Interruptible Primary Schools	4,548,462	4,548,462	4,548,462	4,548,462	4,548,462	4,548,462	4,548,462	4,548,462	4,548,462	4,548,462
PUD	1,347,470	1,347,470	1,347,470	1,347,470	1,347,470	1,347,470	1,347,470	1,347,470	1,347,470	1,347,470

\$/kWh	YEAR 0	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Residential											
Tier 1	0.0882	0.0908	0.0936	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966
Tier 2	0.1070	0.1102	0.1136	0.1172	0.1172	0.1172	0.1172	0.1172	0.1172	0.1172	0.1172
Tier 3	0.1218	0.1254	0.1293	0.1334	0.1334	0.1334	0.1334	0.1334	0.1334	0.1334	0.1334
General Service	0.1029	0.1055	0.1082	0.1112	0.1112	0.1112	0.1112	0.1112	0.1112	0.1112	0.1112
Small Demand General Service	0.0884	0.0919	0.0956	0.0994	0.0994	0.0994	0.0994	0.0994	0.0994	0.0994	0.0994
Large Demand General Service	0.0785	0.0817	0.0849	0.0883	0.0883	0.0883	0.0883	0.0883	0.0883	0.0883	0.0883
Primary General Service	0.0775	0.0806	0.0838	0.0872	0.0872	0.0872	0.0872	0.0872	0.0872	0.0872	0.0872
Irrigation/Drainage	0.0695	0.0710	0.0729	0.0752	0.0752	0.0752	0.0752	0.0752	0.0752	0.0752	0.0752
Interruptible Primary Schools	0.0680	0.0679	0.0677	0.0676	0.0676	0.0676	0.0676	0.0676	0.0676	0.0676	0.0676
PUD	0.1029	0.1055	0.1082	0.1112	0.1112	0.1112	0.1112	0.1112	0.1112	0.1112	0.1112

kWh Revenue	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Residential										
Tier 1	\$ 9,026,199	\$ 9,391,676	\$ 9,783,918	\$ 9,983,146	\$ 10,080,981	\$ 10,179,775	\$ 10,279,536	\$ 11,113,643	\$ 11,668,991	\$ 12,252,088
Tier 2	8,351,831	8,691,275	9,052,177	9,235,449	9,325,956	9,417,351	9,509,641	10,281,276	10,795,030	11,334,456
Tier 3	4,064,409	4,229,812	4,405,854	4,495,083	4,539,134	4,583,618	4,628,537	5,004,108	5,254,163	5,516,713
General Service	4,421,263	4,533,942	4,656,481	4,698,736	4,698,736	4,698,736	4,698,736	4,698,736	4,698,736	4,698,736
Small Demand General Service	1,897,041	1,973,006	2,051,759	2,078,242	2,078,242	2,078,242	2,078,242	2,078,242	2,078,242	2,078,242
Large Demand General Service	1,155,029	1,200,867	1,248,615	1,264,850	1,264,850	1,264,850	1,264,850	1,264,850	1,264,850	1,264,850
Primary General Service	873,045	907,792	944,367	956,802	956,802	956,802	956,802	956,802	956,802	956,802
Irrigation/Drainage	1,307	1,340	1,380	1,394	1,394	1,394	1,394	1,394	1,394	1,394
Interruptible Primary Schools	308,992	308,234	307,628	307,476	307,476	307,476	307,476	307,476	307,476	307,476
PUD	140,990	144,584	148,491	149,839	149,839	149,839	149,839	149,839	149,839	149,839
Total	\$ 30,240,106	\$ 31,382,528	\$ 32,600,670	\$ 33,171,016	\$ 33,403,410	\$ 33,638,082	\$ 33,875,053	\$ 35,856,367	\$ 37,175,523	\$ 38,560,597



Jefferson PUD Electric Meter Replacement Business Case Analysis

Energy Revenue Calculations Excluding Port Townsend Mill

kWh Revenue w/ Losses	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Status Quo	\$ 30,993,350	\$ 32,164,228	\$ 33,412,713	\$ 33,997,266	\$ 34,235,449	\$ 34,475,966	\$ 34,718,840	\$ 36,749,506	\$ 38,101,520	\$ 39,521,094
Digital Hand Read	30,993,350	32,164,228	33,412,713	33,997,266	34,235,449	34,475,966	34,718,840	36,749,506	38,101,520	39,521,094
Mechanical Hand Read	30,993,350	32,164,228	33,412,713	33,997,266	34,235,449	34,475,966	34,718,840	36,749,506	38,101,520	39,521,094
AMR Drive By	30,993,350	32,164,228	33,412,713	33,997,266	34,235,449	34,475,966	34,718,840	36,749,506	38,101,520	39,521,094
Hybrid AMR/AMI	30,993,350	32,164,228	33,412,713	33,997,266	34,235,449	34,475,966	34,718,840	36,749,506	38,101,520	39,521,094
AMI - 10yr	30,993,350	32,164,228	33,412,713	33,997,266	34,235,449	34,475,966	34,718,840	36,749,506	38,101,520	39,521,094
AMI	30,993,350	32,164,228	33,412,713	33,997,266	34,235,449	34,475,966	34,718,840	36,749,506	38,101,520	39,521,094

Missed Revenue	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 15	YEAR 20	YEAR 25
Status Quo	\$ 753,245	\$ 781,701	\$ 812,043	\$ 826,250	\$ 832,039	\$ 837,884	\$ 843,787	\$ 893,139	\$ 925,997	\$ 960,498
Digital Hand Read	753,245	781,701	812,043	826,250	832,039	837,884	843,787	893,139	925,997	960,498
Mechanical Hand Read	753,245	781,701	812,043	826,250	832,039	837,884	843,787	893,139	925,997	960,498
AMR Drive By	753,245	781,701	812,043	826,250	832,039	837,884	843,787	893,139	925,997	960,498
Hybrid AMR/AMI	753,245	781,701	812,043	826,250	832,039	837,884	843,787	893,139	925,997	960,498
AMI - 10yr	753,245	781,701	812,043	826,250	832,039	837,884	843,787	893,139	925,997	960,498
AMI	753,245	781,701	812,043	826,250	832,039	837,884	843,787	893,139	925,997	960,498



**PUBLIC UTILITY DISTRICT NO. 1 of
Jefferson County**

April 13, 2021

Board of Commissioners

Special Meeting

Broadband Philosophy

Draft Telecom Policy

Draft Minutes

The Special Meeting of the Public Utility District No. 1 of Jefferson County (PUD) was called to order by the President of the Board of Commissioners (Board or BOC) at 10:00 a.m. on April 13, 2021, via Zoom video conference. Present:

Commissioner Dan Toepper, President

Commissioner Jeff Randall, Secretary

Commissioner Kenneth Collins, Vice President

Kevin Streett, General Manager

Joel Paisner, General Counsel

Will O'Donnell, Communications Director

Annette Johnson, Executive Assistant/Records Officer

Mike Bailey, Finance Director

Jean Hall, Customer Service Director

Scott Bancroft, Operations Director

Melanie Patterson, Human Resources Director

Samantha Harper, Engineering Director

Colton Worley

Lori Rae, Operations Supervisor

Don McDaniel, PUD Consultant

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Jefferson County PUD
BOC Special Meeting
April 13, 2021
Draft Minutes

1. CALL TO ORDER.

Commissioner Dan Toepper called the Special Meeting of the Jefferson County PUD No. 1 Board of Commissioners for April 13, 2021, to order at 10:00 a.m. and read the Governor's Extended Proclamation 20-28 in response to the COVID-19 pandemic.

All three commissioners were present. It was determined there was a quorum.

2. AGENDA REVIEW. Commissioner Dan Toepper presented the agenda.

MOTION: Commissioner Jeff Randall made a motion to accept the agenda as presented. Commissioner Kenneth Collins seconded the motion. Motion carried unanimously.

3. DISCUSSION BROADBAND PHILOSOPHY: General Manager Kevin Streett gave an overview of the meeting and how the PUD is in a position to request and fill out grants for a portion of the money that will be available soon. If the PUD puts together a plan that says it needs to move forward in that direction, then the meeting today and a couple future meetings will give the tools necessary to go out and apply for the grant, to put things in place and really expand the broadband department.

Doug Dawson gave an overview of what has been done so far and gave the Board a context of what he was presenting at the meeting. There was considerable discussion. Details can be heard on audio recording at www.jeffpud.org.

4. PRESENTATIONS & REVIEW: DRAFT BROADBAND POLICIES AND RATES:

General Manager Kevin Streett went over the Telecom Policy. There was considerable discussion and questions from members of the community. All three commissioners were in agreement with moving forward. Details can be heard on audio recording at www.jeffpud.org.

5. **ADJOURNMENT:** Commissioner Dan Toepper declared the April 13, 2021, Special Meeting of the Jefferson County Public Utility District No. 1 Board of Commissioners adjourned at 11:47 a.m.

Minutes prepared by
Cammy Brown, PUD Recording Secretary

Approved:

Commissioner Jeff Randall, Secretary

Date

Attest:

Commissioner Dan Toepper, President

Date

Commissioner Kenneth Collins, Vice President Date

Please note PUD Board of Commissioner special meetings are audio recorded and posted to the PUD website at www.jeffpud.org, usually within 1-2 business days of each meeting. If you experience any difficulty accessing a particular recording, you may call 360.385.5800 for assistance. Jefferson PUD provides reasonable accommodations to persons with disabilities. We invite any person with special needs to contact our staff at 360.385.8351 at least 24 hours before the meeting to discuss any special accommodations.



**PUBLIC UTILITY DISTRICT NO. 1 of
Jefferson County
April 22, 2021
Board of Commissioners
Special Meeting
Paperless Program: Resolution to
Amend Customer Service Policy
Meter Replacement Study Project Plan
Draft Minutes**

The Special Meeting of the Public Utility District No. 1 of Jefferson County (PUD) was called to order by the President of the Board of Commissioners (Board or BOC) at 10:00 a.m. on April 22, 2021, via Zoom video conference. Present:

Commissioner Dan Toepper, President
Commissioner Jeff Randall, Secretary
Commissioner Kenneth Collins, Vice President
Kevin Streett, General Manager
Joel Paisner, General Counsel
Will O'Donnell, Communications Director
Mike Bailey, Finance Director
Jean Hall, Customer Service Director
Scott Bancroft, Operations Director
Samantha Harper, Engineering Director
Colton Worley
Lori Rae, Operations Supervisor
Jimmy Scarborough, Engineering Supervisor
Don McDaniel, PUD Consultant

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Jefferson County PUD
BOC Special Meeting
April 22, 2021
Draft Minutes

Gordon Wilson, Senior Program Manager FCS Group

Cammy Brown, Recording Secretary

1. CALL TO ORDER.

Commissioner Dan Toepper called the Special Meeting of the Jefferson County PUD No. 1 Board of Commissioners for April 22, 2021, to order at 10:00 a.m. and read the Governor's Extended Proclamation 20-28 in response to the COVID-19 pandemic.

All three commissioners were present. It was determined there was a quorum.

2. AGENDA REVIEW. Commissioner Dan Toepper presented the agenda.

MOTION: Commissioner Kenneth Collins made a motion to accept the agenda as presented. Commissioner Jeff Randall seconded the motion. Motion carried unanimously.

3. PAPERLESS PROGRAM: RESOLUTION TO AMEND CUSTOMER SERVICE POLICY.

Communications Director Will O'Donnell gave a presentation on the Paperless Program. At the last BOC meeting there was a review of the paperless billing promotion to be launched in the summertime. The current Customer Service Policy restricts just auto pay customers to receive credit. The idea behind amending the customer service policy was to get more people to sign up for paperless with debit and credit cards. It was a simple matter to change the customer service policy to remove the restricting language. It was noted that a change in the date at the bottom of the resolution had the wrong date and should be changed to April 22, 2021,

MOTION: Commissioner Kenneth Collins made a motion to accept the Resolution updating Bill Credits for the Customer Service Policy as of April 22, 2021. Commissioner Jeff Randall seconded the motion. Motion carried unanimously. Motion carried unanimously.

4. METER REPLACEMENT STUDY PROJECT. General Manager Kevin Streett gave some historical background on the Meter Replacement Study Project. Gordon Wilson, Senior Program Manager with FCS Group gave a PowerPoint presentation and outlined his plan for

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Jefferson County PUD
BOC Special Meeting
April 22, 2021
Draft Minutes

moving the project forward. There was considerable discussion and comments from the public. It was the BOC's decision to schedule a joint meeting with the CAB (Citizen Advisory Board) and the BOC for May 10, 2021. At that meeting Gordon Wilson of FCS will give another presentation. Further details of this presentation may be heard on audio recording at www.jeffpud.org. No action was taken.

5. AJOURNMENT: Commissioner Dan Toepper declared the April 22, 2021, Special Meeting of the Jefferson County Public Utility District No. 1 Board of Commissioners adjourned at 11:36 a.m.

Minutes prepared by
Cammy Brown, PUD Recording Secretary

Approved:

_____	_____
Commissioner Jeff Randall, Secretary	Date

Attest:

_____	_____
Commissioner Dan Toepper, President	Date

_____	_____
Commissioner Kenneth Collins, Vice President	Date

Please note PUD Board of Commissioner special meetings are audio recorded and posted to the PUD website at www.jeffpud.org, usually within 1-2 business days of each meeting. If you experience any difficulty accessing a particular recording, you may call 360.385.5800 for assistance. Jefferson PUD provides reasonable accommodations to persons with disabilities. We invite any person with special needs to contact our staff at 360.385.8351 at least 24 hours before the meeting to discuss any special accommodations.

VOUCHER APPROVAL FORM

We, the undersigned Board of Commissioners of Public Utility District No. 1 of Jefferson County hereby approve pending payments for transactions greater than \$100,000, if any. The following transactions are approved from the General Fund in the amount of **\$3,157,540.96** on this **6TH** day of **JULY** **2021** ;

Dan Toepper
President

Kenneth Collins
Vice President

Jeff Randall
Secretary

PAYMENTS TO BE APPROVED:

	WARRANTS	AMOUNT	DATE
Accounts Payable:	# 126416 to # 126487	\$ 855,593.55	6/10/2021
Accounts Payable:	# 126488 to # 126529	\$ 237,202.41	6/17/2021
Accounts Payable:	# 126530 to # 126565	\$ 303,433.25	6/24/2021
Payroll Checks:	# 70905 to # 70910	\$ 11,079.33	6/11/2021
Payroll Checks:	# 70911 to # 70915	\$ 10,390.72	6/25/2021
Payroll Direct Deposit:		\$ 126,559.24	6/11/2021
Payroll Direct Deposit:		\$ 128,152.46	6/25/2021

TOTAL INVOICES PAID	\$1,672,410.96
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WIRE TRANSFERS PAID	AMOUNT	DATE
BPA	\$ 1,485,130.00	6/11/2021

PAYMENT TOTAL	\$3,157,540.96
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VOIDED WARRANTS

VOUCHER CERTIFICATION FORM

I, the undersigned, do hereby certify under penalty of perjury that the materials have been furnished, the services rendered or the labor performed as described herein, that any advance payment is due and payable pursuant to a contract or is available as an option for full or partial fulfillment of a contractual obligation, and that the claim is a just and due obligation against Public Utility District No. 1 of Jefferson County, and that I am authorized to authenticate and certify to said claims, and I, the undersigned, do hereby certify under penalty of perjury that claims for employee and commissioner expenses are just and due against Public Utility District No. 1 of Jefferson County.

Signed: Mike Bailey
Mike Bailey Financial Director / District Auditor

6/29/2021
Date

VOUCHER CLAIM FORMS FOR INVOICES PAID:

WARRANTS	AMOUNT	DATE
Accounts Payable: # 126416 to # 126487	\$ 855,593.55	6/10/2021
Accounts Payable: # 126488 to # 126529	\$ 237,202.41	6/17/2021
Accounts Payable: # 126530 to # 126565	\$ 303,433.25	6/24/2021
Payroll Checks: # 70905 to # 70910	\$ 11,079.33	6/11/2021
Payroll Checks: # 70911 to # 70915	\$ 10,390.72	6/25/2021
Payroll Direct Deposit:	\$ 126,559.24	6/11/2021
Payroll Direct Deposit:	\$ 128,152.46	6/25/2021
TOTAL INVOICES PAID	\$1,672,410.96	

WIRE TRANSFERS PAID	AMOUNT	DATE
BPA	\$ 1,485,130.00	6/11/2021

GRAND TOTAL	\$3,157,540.96
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VOIDED WARRANTS

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Bank Account: 1 - 1ST SECURITY - AP

Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
126416 6/10/21	CHK	10808	A & J FLEET SERVICES, INC	CHECK ENGINE LLIGHT-TRUCK# 123	107.74
126417 6/10/21	CHK	10012	ALTEC INDUSTRIES, INC	HOIST TIE WIRE TOOL	874.84 50.93
Total for Check/Tran - 126417:					925.77
126418 6/10/21	CHK	10447	ANIXTER INC.	WIRE #2 BARE 7 STRANDED SD CU	1,254.65
126419 6/10/21	CHK	10451	ASCENT LAW PARTNERS LLP	FLAT FEE BOC MEETINGS (225-104) MAY 2021 FLAT FEE BOC MEETINGS (225-104) MAY 2021 GENERAL UTILITY (225-102) MAY 2021 GENERAL UTILITY (225-102) MAY 2021	5,600.00 1,400.00 7,380.00 1,845.00
Total for Check/Tran - 126419:					16,225.00
126420 6/10/21	CHK	10688	MIKE BAILEY	PHONE ALLOWANCE - MAY 2021 PHONE ALLOWANCE - MAY 2021	36.00 9.00
Total for Check/Tran - 126420:					45.00
126421 6/10/21	CHK	10823	BHC CONSULTANTS LLC	QUILCENE W TANK PROF SVC 4/24-5/21/2021	52,833.10
126422 6/10/21	CHK	10870	BIG BLUE PRESSURE WASHING AND L	5 SUBSTATIONS: MOWING 6/04	445.95
126423 6/10/21	CHK	10623	CARL H. JOHNSON & SON EXCAVATIN	METER INSTL - LOT 83 SNOW CREEK RANCH METER INSTLS - 154 GIFFORD HILL METER INSTLS - 304 GIFFORD HILL METER INSTL - 993 GRIFFITH POINT RD RELOCATE CONDUIT - 491 JOHNSON RD CNDT INSTL - ORCAS VIEW TRAIL CONDUIT INSTL - 1720 E MARROWSTONE EXCAVATING - SWANSONVILLE W/ TITAN EMRG EXCAVATING - 162 OLD FLAGLER RD	1,917.76 698.24 698.24 1,287.38 2,388.31 28,241.72 2,289.21 7,730.30 4,157.25
Total for Check/Tran - 126423:					49,408.41
126424 6/10/21	CHK	10042	CELLNET TECHNOLOGY INC	METER READS - MAY 2021	27,843.59
126425 6/10/21	CHK	10044	CENTURY LINK QCC-P	PHONE SERVICE - MAY 2021	10.46

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Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
				PHONE SERVICE - MAY 2021	2.62
				Total for Check/Tran - 126425:	13.08
126426 6/10/21	CHK	10045	CENTURY LINK-S	PHONE SERVICE - JUN 2021	115.17
				PHONE SERVICE - JUN 2021	28.79
				PHONE SERVICE - JUN 2021	46.34
				PHONE SERVICE - JUN 2021	11.58
				Total for Check/Tran - 126426:	201.88
126427 6/10/21	CHK	10046	CENTURYLINK	LOW SPD DATA & 2WIRE JUN 2021	78.21
				LOW SPD DATA & 2WIRE JUN 2021	19.55
				LOW SPD DATA & 2WIRE JUN 2021	31.17
				LOW SPD DATA & 2WIRE JUN 2021	7.79
				Total for Check/Tran - 126427:	136.72
126428 6/10/21	CHK	10051	CITY OF PORT TOWNSEND-UTILITY	KEARNEY SUBST - MAY 2021	194.72
126429 6/10/21	CHK	10053	COMPUNET, INC	CISCO SMARTNET RNWL 1Y 5/31/21-5/30/22	8,942.03
				IT PROF SRVC - TROUBLE SHOOT HUNT GRP	160.00
				IT PROF SRVC - TROUBLE SHOOT HUNT GRP	40.00
				Total for Check/Tran - 126429:	9,142.03
126430 6/10/21	CHK	10621	CRAIG LABENZ	WEBSITE DEVELOPMENT - MAY 2021	885.00
				WEBSITE DEVELOPMENT - MAY 2021	221.25
				Total for Check/Tran - 126430:	1,106.25
126431 6/10/21	CHK	10061	DEPT OF COMMERCE	BECKETT PT SEWAGE CONTRACT#PW-05-691-024	50,775.75
				BECKETT PT SEWAGE CONTRACT#PW-05-691-024	1,269.39
				MARROWSTONE WATER CONTRACT#PW-05-691-025	108,806.33
				MARROWSTONE WATER CONTRACT#PW-05-691-025	2,720.16
				Total for Check/Tran - 126431:	163,571.63
126432 6/10/21	CHK	10069	DM DISPOSAL CO INC	2YD OCC-4CRNRS MAY-2021	109.22
				2YD OCC-4CRNRS MAY-2021	27.30
				Total for Check/Tran - 126432:	136.52

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Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
126433 6/10/21	CHK	10076	ENERSYS DELAWARE INC	DANA ROBERTS BATTERY UPGD-RACK,NCR,3T,48	3,139.64
				DANA ROBERTS BATTERY UPGRADE W/O# 92014	8,212.18
Total for Check/Tran - 126433:					11,351.82
126434 6/10/21	CHK	10781	EVERGREEN CONSULTING GROUP, LLC	ENERGY CONSERVATION REBATE	5,196.86
				ENERGY CONSERVATION REBATE	3,800.00
				ENERGY CONSERVATION REBATE	556.50
				ENERGY CONSERVATION REBATE	1,013.82
				ENERGY CONSERVATION REBATE	3,698.00
				ENERGY CONSERVATION REBATE	1,300.00
				ENERGY CONSERVATION REBATE	3,020.40
				ENERGY CONSERVATION REBATE	1,300.00
				ENERGY CONSERVATION REBATE	900.00
				ENERGY CONSERVATION REBATE	900.00
				ENERGY CONSERVATION REBATE	1,300.00
				ENERGY CONSERVATION REBATE	300.00
				ENERGY CONSERVATION REBATE	1,300.00
				ENERGY CONSERVATION REBATE	900.00
				ENERGY CONSERVATION REBATE	600.00
				ENERGY CONSERVATION REBATE	900.00
				ENERGY CONSERVATION REBATE	900.00
				ENERGY CONSERVATION REBATE	900.00
				ENERGY CONSERVATION REBATE	900.00
				ENERGY CONSERVATION REBATE	1,300.00
				ENERGY CONSERVATION REBATE	1,300.00
				ENERGY CONSERVATION REBATE	30.00
				ENERGY CONSERVATION REBATE	700.00
				ENERGY CONSERVATION REBATE	900.00
				ENERGY CONSERVATION REBATE	865.04
				ENERGY CONSERVATION REBATE	1,300.00
				ENERGY CONSERVATION REBATE	714.00

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Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
				ENERGY CONSERVATION REBATE	1,300.00
				ENERGY CONSERVATION REBATE	656.00
				ENERGY CONSERVATION REBATE	1,300.00
				ENERGY CONSERVATION REBATE	1,300.00
				ENERGY CONSERVATION REBATE	492.00
				ENERGY CONSERVATION REBATE	900.00
				ENERGY CONSERVATION REBATE	2,196.39
				Total for Check/Tran - 126434:	44,939.01
126435 6/10/21	CHK	10085	FASTENAL	WD40 & TAPE	218.53
				SFTY VEST & TAPE	198.29
				Total for Check/Tran - 126435:	416.82
126436 6/10/21	CHK	10094	GENERAL PACIFIC, INC	WIRE #6 BARE SOLID CU-HARD DRAWN	1,051.61
				ALUMINUM TIE WIRE	326.21
				WIRE #2 AL OH TPX,TERM KIT 1/0-CO	3,469.30
				WIRE #2 AL OH TPX	774.06
				Total for Check/Tran - 126436:	5,621.18
126437 6/10/21	CHK	10454	GLOBAL RENTAL COMPANY INC	AT37-G BUCKET RNTL VEH#408 6/04-7/01	2,725.00
126438 6/10/21	CHK	10098	GRAINGER	STRAPPING TENSIONER/SEALER	258.44
126439 6/10/21	CHK	10732	GRAYBAR ELECTRIC COMPANY INC.	DROP FIBER	1,225.83
126440 6/10/21	CHK	10104	HADLOCK BUILDING SUPPLY, INC.	MASON ST WO#421001 - PLANTING MIX	47.96
				WAREHOUSE - MATERIALS	46.90
				Total for Check/Tran - 126440:	94.86
126441 6/10/21	CHK	10396	JEAN M HALL	PHONE ALLOWANCE - MAY 2021	36.00
				PHONE ALLOWANCE - MAY 2021	9.00
				Total for Check/Tran - 126441:	45.00
126442 6/10/21	CHK	10384	HDR ENGINEERING INC	TASK9 - SHINE&BYWATER 4/25-5/22	936.26
				WATER SYSTEM PLAN UPDATE 3/28-5/22	10,150.53
				Total for Check/Tran - 126442:	11,086.79

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Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
126443 6/10/21	CHK	10113	HRA VEBA TRUST CONTRIBUTIONS	VEBA BENEFIT MAY 2021	2,200.00
				VEBA DEDUCTION MAY 2021	1,275.00
Total for Check/Tran - 126443:					3,475.00
126444 6/10/21	CHK	10114	IBEW LOCAL UNION NO 77	UNION DUES IBEW - MAY 2021	2,332.22
126445 6/10/21	CHK	10281	JEFFCO EFTPS	EMPLOYEES' MEDICARE TAX	3,080.64
				EMPLOYER'S MEDICARE TAX	3,080.64
				EMPLOYEES' FICA TAX	13,172.42
				EMPLOYER'S FICA TAX	13,172.42
				EMPLOYEES' FEDERAL WITHHOLDING	13,992.99
				EMPLOYEES' FEDERAL WITHHOLDING TAX	8,570.72
Total for Check/Tran - 126445:					55,069.83
126446 6/10/21	CHK	10532	JEFFERSON COUNTY PUD PAYROLL AC	PR 06.11.2021-DIRECT DEPOSIT CHECKS	127,364.12
				PR 06.11.2021-MANUAL CHECKS	10,274.45
Total for Check/Tran - 126446:					137,638.57
126447 6/10/21	CHK	10129	JIFFY LUBE	VEH# 211 - OIL CHANGE & ROUTINE MANT	137.30
				VEH# 211 - ROUTINE MANT	242.85
Total for Check/Tran - 126447:					380.15
126448 6/10/21	CHK	10320	ANNETTE JOHNSON	PHONE ALLOWANCE - MAY 2021	36.00
				PHONE ALLOWANCE - MAY 2021	9.00
Total for Check/Tran - 126448:					45.00
126449 6/10/21	CHK	10330	KARR TUTTLE CAMPBELL	PROFESSION SVC: APR 2021	1,237.60
				PROFESSION SVC: APR 2021	309.40
				PROFESSIONAL SVC: MAY 2021	2,318.00
				PROFESSIONAL SVC: MAY 2021	579.50
Total for Check/Tran - 126449:					4,444.50
126450 6/10/21	CHK	10134	LEMAY MOBILE SHREDDING	SHRED 4CRNR MAY-21	163.60
				SHRED 4CRNR MAY-21	40.90
Total for Check/Tran - 126450:					204.50

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Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
126451 6/10/21	CHK	10141	MARSH USA INC	FIBER POLE ATTACH BOND 1YR	200.00
126452 6/10/21	CHK	10771	MOUNTAIN STATES PIPE & SUPPLY CO	WATER METER ERT - ERW-1300-408 QTY24	-165.88
				WATER METER ERT - ERW-1300-408 QTY24	1,988.71
Total for Check/Tran - 126452:					1,822.83
126453 6/10/21	CHK	10153	MURREY'S DISPOSAL CO., INC.	DISPOSAL 4CRNR 2YD CONT 1XWK MAY-21	162.35
				DISPOSAL 4CRNR 2YD CONT 1XWK MAY-21	40.59
				DISPOSAL 4CRNR 30YD ROLL OFF RNTL MAY-21	483.45
				DISPOSAL 4CRNR 30YD ROLL OFF RNTL MAY-21	120.86
				DISPOSAL 211 CHIM MAY-21	41.50
				DISPOSAL 211 CHIM MAY-21	10.38
				DISPOSAL 21 KENNEDY MAY-21	37.65
				DISPOSAL 21 KENNEDY MAY-21	37.64
				DISPOSAL 210 2YD CONT 1XWK MAY-21	162.35
				DISPOSAL 210 2YD CONT 1XWK MAY-21	40.59
Total for Check/Tran - 126453:					1,137.36
126454 6/10/21	CHK	10163	NOR'WEST CUSTODIAL SERVICES, INC.	CUSTODIAL SVC - MAY 2021	1,673.00
				CUSTODIAL SVC - MAY 2021	418.25
Total for Check/Tran - 126454:					2,091.25
126455 6/10/21	CHK	10164	NW LABORERS 252 (DUES)	UNION DUES LABORERS - MAY 2021	720.00
126456 6/10/21	CHK	10165	NW LABORERS-EMPLOYERS TRUST FU	MEDICAL PREMIUM JUL 2021	15,660.00
				DAYLABOR BENEFITS MAY2021 - UNION HELPER	191.76
Total for Check/Tran - 126456:					15,851.76
126457 6/10/21	CHK	10631	WILLIAM P O'DONNELL	PHONE ALLOWANCE - MAY 2021	36.00
				PHONE ALLOWANCE - MAY 2021	9.00
Total for Check/Tran - 126457:					45.00
126458 6/10/21	CHK	10167	OFFICE DEPOT	OPERATIONS - OFFICE SUPPLIES	36.18
				OPERATIONS - OFFICE SUPPLIES	9.05
Total for Check/Tran - 126458:					45.23

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Bank Account: 1 - 1ST SECURITY - AP

Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
126459 6/10/21	CHK	10169	OLYCAP	PWRBST/OLYCAP MAY 2021	1,309.11
126460 6/10/21	CHK	10865	OLYMPIC ELECTRIC CO, INC	FIBER INSTL - HOH PROJECT 5/18	1,189.04
126461 6/10/21	CHK	10170	OLYMPIC EQUIPMENT RENTALS	SHOP - MOWER BELT	31.63
				SHOP - MOWER SPINDLE	13.08
				CEDAR AVE WO#421001 - EXCAVATOR RNTL	310.94
Total for Check/Tran - 126461:					355.65
126462 6/10/21	CHK	10175	PACIFIC UNDERWRITERS CORP	LIFE - JULY 2021	91.05
				LTD - JULY 2021	1,299.47
Total for Check/Tran - 126462:					1,390.52
126463 6/10/21	CHK	10549	PENINSULA LEGAL SECRETARIAL SER	TRANSCRIPTION SVC 5/22-6/1/2021	728.00
				TRANSCRIPTION SVC 5/22-6/1/2021	182.00
Total for Check/Tran - 126463:					910.00
126464 6/10/21	CHK	10181	PENINSULA PEST CONTROL	CRPNTRANT SVC BIM-OLYRIDG DR	65.46
				CRPNTRANT SVC QRTLY-PH SKYW	54.55
Total for Check/Tran - 126464:					120.01
126465 6/10/21	CHK	10188	PLATT ELECTRIC SUPPLY	WORKSTATION - WIREMOLD 24"	20.57
126466 6/10/21	CHK	10193	PORT TOWNSEND LEADER	LEGALS: VEH# 102 AUCTION 5/26/21	60.00
				EMPTY SRVC:CUST SRVC BUSINESS AD 5/26/21	18.20
				WEB INSRT:CUST SRVC BUSINESS AD 5/26/21	8.00
				EMPTY SRVC: SUMMER INTERN 5/12/21	15.40
				EMPTY SRVC: SUMMER INTERN 5/19/21	15.40
				EMPTY SRVC: SUMMER INTERN 5/26/21	15.40
				EMPTY SRVC: SUMMER INTERN 5/5/21	15.40
				LEGALS: VENDOR LIST SOLIC 5/26/21	19.20
				DISPLAY: RHODY FEST 5/12/21	408.00
				EMPTY SRVC:CUST SRVC BUSINESS AD 5/26/21	4.55
				WEB INSRT:CUST SRVC BUSINESS AD 5/26/21	2.00
				EMPTY SRVC: SUMMER INTERN 5/12/21	3.85

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Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
				EMPTY SRVC: SUMMER INTERN 5/19/21	3.85
				EMPTY SRVC: SUMMER INTERN 5/26/21	3.85
				EMPTY SRVC: SUMMER INTERN 5/5/21	3.85
				LEGALS: VENDOR LIST SOLIC 5/26/21	4.80
				DISPLAY: RHODY FEST 5/12/21	102.00
				Total for Check/Tran - 126466:	703.75
126467 6/10/21	CHK	10195	PRECISION FIBER, INC	FIBER SPLICING - QUILCENE SCHOOL 5/25-26	1,068.75
126468 6/10/21	CHK	10203	PURMS JOINT SELF INSURANCE FUND	HEALTH & WELFARE MAY 2021	58,610.91
126469 6/10/21	CHK	10869	RITZ SAFETY LLC	FR CLOTHING	191.92
				FR CLOTHING	262.08
				FR CLOTHING	236.35
				Total for Check/Tran - 126469:	690.35
126470 6/10/21	CHK	10217	SETON CONSTRUCTION INC	FLAGGING - SR19 & SR20 3/03-3/10	4,832.45
126471 6/10/21	CHK	10219	SHOLD EXCAVATING INC	TRNSPRT LINE RPAIR - S BEACH, S POINT	75.05
				VAULT INSTL - PORT 10TH ST 4/09-4/12	3,073.89
				Total for Check/Tran - 126471:	3,148.94
126472 6/10/21	CHK	10864	SOUNDEARTH STRATEGIES, INC	WELL DECOMMISSION PLAN PROFSVC 3/21-5/08	17,954.15
126473 6/10/21	CHK	10331	ST VINCENT DE PAUL	PWRBST/ST VINCENT DE PAUL MAY 2021	1,309.10
126474 6/10/21	CHK	10400	DONALD K STREETT	PHONE ALLOWANCE - MAY 2021	45.00
126475 6/10/21	CHK	10238	SURVALENT TECHNOLOGY INC	BRONZE SCADA PLAN SW SUPPORT 3YRS	14,880.00
126476 6/10/21	CHK	10874	TERILYN WALLIS CONSULTING	PROF SERV: WORK ORDER PROCESS	612.50
126477 6/10/21	CHK	10824	THE PORT OF PORT TOWNSEND	PORT BUILDING - ELECTRIC MAR&APR-2021	134.02
				PORT BUILDING - ELECTRIC MAR&APR-2021	33.50
				Total for Check/Tran - 126477:	167.52
126478 6/10/21	CHK	10251	UGN - JEFFERSON COUNTY	UNITED GOOD NEIGHBORS EE	15.00

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Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
126479 6/10/21	CHK	10256	UTILITIES UNDERGROUND LOCATION	LOCATES - MAY 2021	58.05
				LOCATES - MAY 2021	67.08
Total for Check/Tran - 126479:					125.13
126480 6/10/21	CHK	10328	VERIZON CONNECT NWF INC.	CUST#JEFF007 ALL VEH GPS - MAY 2021	411.41
				CUST#JEFF007 ALL VEH GPS - MAY 2021	186.39
Total for Check/Tran - 126480:					597.80
126481 6/10/21	CHK	10260	WA STATE DEFERRED COMPENSATION	PL DEFERRED COMP EE	12,526.00
				PL DEFERRED COMP ER	5,149.59
Total for Check/Tran - 126481:					17,675.59
126482 6/10/21	CHK	10265	WA STATE DEPT OF RETIREMENT SYST	RETIREMENT/REPORT #8828 MAY 2021-PERS 2	78,496.55
				RETIREMENT/REPORT #8828 MAY 2021-PERS 3	8,492.49
Total for Check/Tran - 126482:					86,989.04
126483 6/10/21	CHK	10267	WA STATE SUPPORT REGISTRY	PL CHILD SUPPORT EE	331.00
126484 6/10/21	CHK	10496	WELLS FARGO VENDOR FIN SERV	4 CRNRS COPYRNT MAY 21	254.23
				4 CRNRS COPYRNT MAY 21	63.56
				211 CHIM COPYRNT JUN 21	315.09
				211 CHIM COPYRNT JUN 21	78.77
Total for Check/Tran - 126484:					711.65
126485 6/10/21	CHK	10271	WESCO RECEIVABLES CORP	CABLE TAP LUG, #6 SOL-250 MCM	355.23
				WIRE 350 AL URD TPX 600V	12,131.92
Total for Check/Tran - 126485:					12,487.15
126486 6/10/21	CHK	10685	ZEE MEDICAL SERVICE	WAREHOUSE - FIRST AID KIT RESTOCKED	173.40
				WAREHOUSE - FIRST AID KIT RESTOCKED	43.35
				OFFICE - FIRST AID KIT RESTOCKED	11.14
				OFFICE - FIRST AID KIT RESTOCKED	2.78
				OPS - FIRST AID RESTOCK&CABINET INSTALL	195.94
				OPS - FIRST AID RESTOCK&CABINET INSTALL	48.99
Total for Check/Tran - 126486:					475.60

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Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
126487 6/10/21	CHK	10858	ZOOM VIDEO COMMUNICATIONS, INC.	ADDED ADTL USER	5.82
				ADDED ADTL USER	1.46
Total for Check/Tran - 126487:					7.28
126488 6/17/21	CHK	10808	A & J FLEET SERVICES, INC	SENSORS CHECKED ON VEH# 123	346.39
126489 6/17/21	CHK	10012	ALTEC INDUSTRIES, INC	BAR ANCHOR KIT	3,791.11
				GUY CUTTERS	512.30
Total for Check/Tran - 126489:					4,303.41
126490 6/17/21	CHK	10481	AMAZON	USB EXTENSION CABLES, HEADSET EAR PADS	22.60
				USB EXTENSION CABLES, HEADSET EAR PADS	5.65
Total for Check/Tran - 126490:					28.25
126491 6/17/21	CHK	10447	ANIXTER INC.	ARRESTER 10KV	1,493.67
126492 6/17/21	CHK	10041	CDW GOVERNMENT	CRADLEPOINT CLOUD MGMT SVC 1YR	1,058.60
				CRADLEPOINT CLOUD MGMT SVC 1YR	264.66
Total for Check/Tran - 126492:					1,323.26
126493 6/17/21	CHK	10053	COMPUNET, INC	IT PROF SRVC-UPGRADE CUCM,UNITY CNC,& IM	600.00
126494 6/17/21	CHK	10057	CORRECT EQUIPMENT	BECKETTPT N&S - SEWAGE GRNDR PUMPS QTY2	6,055.05
126495 6/17/21	CHK	9998	JOHN CRINES	Credit Balance Refund	171.92
126496 6/17/21	CHK	10780	DELL BUSINESS CREDIT	KEYBOARD&MOUSE COMBO	20.88
				KEYBOARD&MOUSE COMBO	5.23
				REVERSAL OF CM FOR DELL 24 MONITORS QTY3	84.17
				REVERSAL OF CM FOR DELL 24 MONITORS QTY3	21.04
				DELL 24 MONITOR QTY2	418.92
				DELL 24 MONITOR QTY2	104.74
				PC OPTIPLEX 7090 MICRO	1,183.19
				PC OPTIPLEX 7090 MICRO	295.79
Total for Check/Tran - 126496:					2,133.96

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Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
126497 6/17/21	CHK	10078	ESCI	ESCI SAFETY TRAINING - MAY 2021	1,905.00
				ESCI SAFETY TRAINING - JUN 2021	1,428.75
Total for Check/Tran - 126497:					3,333.75
126498 6/17/21	CHK	10083	EXCEL UTILITY CONSTRUCTION	METER INSTL - 91 MASON ST 6/02	-142.51
				METER INSTL - 91 MASON ST 6/02	1,708.54
Total for Check/Tran - 126498:					1,566.03
126499 6/17/21	CHK	10085	FASTENAL	WAREHOUSE - MATERIALS	217.25
126500 6/17/21	CHK	10086	FERGUSON ENTERPRISES, INC NW	PVC CONDUIT 1 1/2" SCH 40-W BELLEND-GREY	10,979.61
				WATER PARTS - PIPE, NIP GBL, BUSH&ETC	566.54
Total for Check/Tran - 126500:					11,546.15
126501 6/17/21	CHK	10090	FREDERICKSON ELECTRIC, INC	CONDUIT INSTL - WASHINGTON ST 6/03	348.84
126502 6/17/21	CHK	10094	GENERAL PACIFIC, INC	INSULATED CAP 600A 25KV,POLYWATER&CLNR	461.16
				CABLE CLEANER	166.40
				POLYWATER	254.51
				DEADBREAK T-BODY KIT 600 AMP	2,087.74
				HOUSE SIDE SHEILDS-PT STREET LIGHTS	981.90
				DEADBREAK T-BODY KIT 600 AMP	6,263.21
Total for Check/Tran - 126502:					10,214.92
126503 6/17/21	CHK	10802	THERESA L GIESE	DAILY MAIL OFFICE RUN MAY 2021	29.56
				DAILY MAIL OFFICE RUN MAY 2021	7.39
Total for Check/Tran - 126503:					36.95
126504 6/17/21	CHK	10103	H D FOWLER	1" SIDR 7 WATER SVC PIPE	212.75
				WATER PARTS - METER SETTERS, JOINTS&ETC	6,277.26
				FOUR CRNRS - WATER VALVE&PARTS REPAIR	162.23
				FOUR CRNRS - WATER VALVE&PARTS REPAIR	40.55
				WATER PARTS - METER BOX COVERS	301.12
Total for Check/Tran - 126504:					6,993.91
126505 6/17/21	CHK	10104	HADLOCK BUILDING SUPPLY, INC.	SKYWATER - MATERIALS	12.67

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Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
				TRITON COVE - MATERIALS	109.08
				WAREHOUSE - REDI-MIX CONCRETE	63.99
				TRITON COVE - SCREWDRIVER & BITS	32.79
				TRITON COVE - WIRE CONNECTOR	10.38
				WAREHOUSE - REDI-MIX CONCRETE	147.12
				WAREHOUSE-REFUND REDI-MIX CONCRETE	-63.99
				Total for Check/Tran - 126505:	312.04
126506 6/17/21	CHK	10118	JCI JONES CHEMICALS, INC.	HYPOCHLORITE SOLUTION, SS150 BULK	1,080.40
126507 6/17/21	CHK	10128	JEFFERSON COUNTY TREASURER	MAY 2021 B&O TAX	110,922.61
126508 6/17/21	CHK	10129	JIFFY LUBE	VEH#206 - OIL CHANGE	82.50
				VEH#120 - OIL CHANGE	76.94
				Total for Check/Tran - 126508:	159.44
126509 6/17/21	CHK	10348	KEMP WEST, INC	TT T&M - S DISCOVERY RD 6/02	1,265.33
126510 6/17/21	CHK	10640	KUKER-RANKEN INC	36" LATH STAKES	349.73
126511 6/17/21	CHK	10470	MISSION COMMUNICATIONS, LLC	COYLE - SCADA SYS 1YR 7/1/21-6/30/22	563.40
126512 6/17/21	CHK	10333	MOSS ADAMS LLP	PROF SVC:PRG BILL DSHBRD CONSTRUCTION	13,440.00
				PROF SVC:PRG BILL DSHBRD CONSTRUCTION	3,360.00
				PROF SRVS:PRG BILL FORECAST MODEL DEVEL	1,164.00
				PROF SRVS:PRG BILL FORECAST MODEL DEVEL	291.00
				Total for Check/Tran - 126512:	18,255.00
126513 6/17/21	CHK	10771	MOUNTAIN STATES PIPE & SUPPLY CO	WATER METER ERT - ERW-1300-402 QTY24	-165.88
				WATER METER ERT - ERW-1300-402 QTY24	1,988.71
				Total for Check/Tran - 126513:	1,822.83
126514 6/17/21	CHK	10309	NISC	RECURRING INVOICE MAY 2021	1,099.44
				RECURRING INVOICE MAY 2021	229.33
				RECURRING INVOICE MAY 2021	1,808.94
				RECURRING INVOICE MAY 2021	496.16

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Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
				RECURRING INVOICE MAY 2021	496.16
				RECURRING INVOICE MAY 2021	9,089.36
				RECURRING INVOICE MAY 2021	933.80
				RECURRING INVOICE MAY 2021	103.20
				RECURRING INVOICE MAY 2021	1,579.37
				RECURRING INVOICE MAY 2021	334.09
				RECURRING INVOICE MAY 2021	22.93
				AMS INVOICE MAY 2021	2,172.17
				AMS INVOICE MAY 2021	6,295.44
				AMS INVOICE MAY 2021	1,422.10
				AMS INVOICE MAY 2021	543.04
				AMS INVOICE MAY 2021	1,573.86
				AMS INVOICE MAY 2021	355.53
				MISC MAY 2021	558.16
				MISC MAY 2021	46.88
				MISC MAY 2021	968.81
				MISC MAY 2021	139.54
				MISC MAY 2021	11.72
				MISC MAY 2021	242.20
Total for Check/Tran - 126514:					30,522.23
126515 6/17/21	CHK	10166	NWPPA	NWPPA AMI READINESS&STRATEGY TRNG 6/8/21	40.00
				NWPPA AMI READINESS&STRATEGY TRNG 6/8/21	10.00
				NWPPA REDFLAG FRNTLNE EMPLY TRNG 6/10/21	72.00
				NWPPA REDFLAG FRNTLNE EMPLY TRNG 6/10/21	18.00
Total for Check/Tran - 126515:					140.00
126516 6/17/21	CHK	10167	OFFICE DEPOT	OPERATIONS - OFFICE SUPPLIES	152.18
				OPERATIONS - OFFICE SUPPLIES	38.05
				ENGINEERING - OFFICE SUPPLIES	48.68
				ENGINEERING - OFFICE SUPPLIES	12.17
Total for Check/Tran - 126516:					251.08

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Bank Account: 1 - 1ST SECURITY - AP

Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
126517 6/17/21	CHK	10170	OLYMPIC EQUIPMENT RENTALS	SHOP - MOWER MATERIALS	15.02
				TOOL - STRIPPER/CRIMPER	8.28
Total for Check/Tran - 126517:					23.30
126518 6/17/21	CHK	10181	PENINSULA PEST CONTROL	RODENT SVC MO 210 FOUR CRNRS JUN 2021	61.10
				RODENT SVC MO 210 FOUR CRNRS JUN 2021	15.27
				QRTLY GP SVC MATS VIEW TERRACE	60.01
Total for Check/Tran - 126518:					136.38
126519 6/17/21	CHK	10187	PITNEY BOWES-RESERVE ACCT	PRE-PAID POSTAGE ACCT# 33897265	320.00
				PRE-PAID POSTAGE ACCT# 33897265	80.00
Total for Check/Tran - 126519:					400.00
126520 6/17/21	CHK	10195	PRECISION FIBER, INC	FIBER SPLICING - HOH PROJECT 5/24-5/25	7,482.08
				FIBER SPLICING - HOH PROJECT 5/24-5/25	-624.08
				FIBER SPLICING - CHIMACUM RD 5/26-5/27	3,633.76
				FIBER SPLICING - CHIMACUM RD 5/26-5/27	-303.09
Total for Check/Tran - 126520:					10,188.67
126521 6/17/21	CHK	10869	RITZ SAFETY LLC	FR CLOTHING	196.50
				FR CLOTHING	49.13
Total for Check/Tran - 126521:					245.63
126522 6/17/21	CHK	10219	SHOLD EXCAVATING INC	GRAVEL - CEDAR AVE WATER RELOCATION	70.79
126523 6/17/21	CHK	10227	SOUND PUBLISHING INC	RETAIL DISPLAY:MISTAKE DISCONNECT MAY 21	1,626.00
126524 6/17/21	CHK	10249	SPECTRA LABORATORIES-KITSAP LLC	TESTING: GROSS ALPHA BYWATER	125.00
				TESTING:GROSS ALPHA QUIMPER	125.00
				TESTING:RADIUM 228 BYWATER	155.00
				TESTING:RADIUM 228 QUIMPER	155.00
				TESTING:COLI/E.COLI QUIMPER 6/9/21	23.00
				TESTING:COLI/E.COLI QUIMPER 6/9/21	23.00
				TESTING:COLI/E.COLI QUIMPER 6/9/21	23.00
				TESTING:COLI/E.COLI QUIMPER 6/9/21	23.00

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Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
				TESTING:COLI/E.COLI QUIMPER 6/9/21	23.00
				TESTING: COLI/ECOLI QUIMPER MO 6/3/21	23.00
				TESTING: COLI/ECOLI QUIMPER MO 6/3/21	23.00
				TESTING: COLI/ECOLI QUIMPER MO 6/3/21	23.00
				TESTING: COLI/ECOLI QUIMPER MO 6/3/21	23.00
				TESTING: COLI/ECOLI QUIMPER MO 6/3/21	23.00
				TESTING: COLI/ECOLI QUIMPER MO 6/3/21	23.00
				Total for Check/Tran - 126524:	813.00
126525 6/17/21	CHK	10620	UPS	INTERNATIONAL SHIPMENT FEE	39.23
126526 6/17/21	CHK	10569	WAYNE D. ENTERPRISES, INC.	RAIN BIB & RAIN JACKET FOR BRACKNEY	-105.42
				RAIN BIB	520.05
				RAIN JACKET	743.84
				Total for Check/Tran - 126526:	1,158.47
126527 6/17/21	CHK	10496	WELLS FARGO VENDOR FIN SERV	4 CRNRS COPYRNT JUN 21	226.93
				4 CRNRS COPYRNT JUN 21	56.73
				Total for Check/Tran - 126527:	283.66
126528 6/17/21	CHK	10274	WESTBAY AUTO PARTS, INC.	VEH#415 - LIGHT REPLACEMENT	93.48
126529 6/17/21	CHK	10278	WPUDA	MONTHLY DUES - JUN 2021	4,612.80
				MONTHLY DUES - JUN 2021	1,153.20
				Total for Check/Tran - 126529:	5,766.00
126530 6/24/21	CHK	10012	ALTEC INDUSTRIES, INC	METER PULLER	204.26
				UNIVERSAL HEAD TOOL	55.88
				GRIPS	851.36
				VOLTAGE DETECTOR	1,892.54
				Total for Check/Tran - 126530:	3,004.04
126531 6/24/21	CHK	10481	AMAZON	FISHTAPE REPAIR KIT	48.21
				FISHTAPE REPAIR KIT	48.21
				THERMOMETERS	32.22

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Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
				THERMOMETERS	8.06
				Total for Check/Tran - 126531:	136.70
126532 6/24/21	CHK	10018	ASSOCIATED PETROLEUM PRODUCTS I	CUST#01-7500239 DIESEL & GASOLINE	14,655.54
126533 6/24/21	CHK	10041	CDW GOVERNMENT	AUTOCAD 1YR THRU 2/21/2022	1,452.18
				AUTOCAD 1YR THRU 2/21/2022	363.04
				Total for Check/Tran - 126533:	1,815.22
126534 6/24/21	CHK	10054	CONGLOBAL INDUSTRIES, INC	FREIGHT FOR CONNEX #I ON PO 10481	844.76
126535 6/24/21	CHK	10354	KIMBERLY A COTTIER-HOLT	WELLNESS PROGRAM REIMBURSEMENT 2021	200.00
				WELLNESS PROGRAM REIMBURSEMENT 2021	50.00
				Total for Check/Tran - 126535:	250.00
126536 6/24/21	CHK	10551	DAY WIRELESS SYSTEMS	MOBILE RADIOS - JUL 2021	986.05
126537 6/24/21	CHK	10821	FCS GROUP	RATE STUDY SVC - THRU 5/21/2021	1,220.00
126538 6/24/21	CHK	10094	GENERAL PACIFIC, INC	FIBER LINE MARKER	1,505.14
126539 6/24/21	CHK	10095	GOOD MAN SANITATION, INC	310 4CRNRS-RESTROOM UNIT 5/25-6/20/2021	120.00
				310 4CRNRS-RESTROOM UNIT 5/25-6/20/2021	30.00
				Total for Check/Tran - 126539:	150.00
126540 6/24/21	CHK	10098	GRAINGER	DECALS	127.42
126541 6/24/21	CHK	10104	HADLOCK BUILDING SUPPLY, INC.	SHOP - MATERIALS	6.31
				GARBAGE CAN	22.90
				210 4 CRNRS - BREAKER FOR METER BASE	15.26
				Total for Check/Tran - 126541:	44.47
126542 6/24/21	CHK	10839	IRBY ELECTRICAL UTILITES	FIBER DEADEND	2,070.17
				FIBER TRUNNION CLAMP	2,912.97
				LOCKNUT WASHER	54.55
				Total for Check/Tran - 126542:	5,037.69
126543 6/24/21	CHK	10281	JEFFCO EFTPS	EMPLOYEES' MEDICARE TAX	3,082.80

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Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
				EMPLOYER'S MEDICARE TAX	3,082.80
				EMPLOYEES' FICA TAX	13,181.68
				EMPLOYER'S FICA TAX	13,181.68
				EMPLOYEES' FEDERAL WITHHOLDING	12,542.38
				EMPLOYEES' FEDERAL WITHHOLDING TAX	9,814.68
				Total for Check/Tran - 126543:	54,886.02
126544 6/24/21	CHK	10532	JEFFERSON COUNTY PUD PAYROLL AC	PR 06.25.2021-DIRECT DEPOSIT CHECKS	128,152.46
				PR 06.25.2021-MANUAL CHECKS	10,390.72
				Total for Check/Tran - 126544:	138,543.18
126545 6/24/21	CHK	10348	KEMP WEST, INC	TT T&M - CENTER RD 6/07-6/10	12,653.28
126546 6/24/21	CHK	10875	NINJARMM, LLC	NINJA PROFESSIONAL REMOTE SW 1YR	4,500.38
				NINJA PROFESSIONAL REMOTE SW 1YR	-375.38
				Total for Check/Tran - 126546:	4,125.00
126547 6/24/21	CHK	10167	OFFICE DEPOT	ENGINEERING - OFFICE SUPPLIES	122.62
				ENGINEERING - OFFICE SUPPLIES	30.65
				OPERATIONS - OFFICE SUPPLIES	84.22
				OPERATIONS - OFFICE SUPPLIES	21.05
				OPERATIONS - OFFICE SUPPLIES	28.96
				OPERATIONS - OFFICE SUPPLIES	5.93
				Total for Check/Tran - 126547:	293.43
126548 6/24/21	CHK	10170	OLYMPIC EQUIPMENT RENTALS	COMPACTORUPRI FOR WATER METER INSTL	49.10
126549 6/24/21	CHK	10549	PENINSULA LEGAL SECRETARIAL SER	TRANSCRIPTION SVC 6/07-6/22/2021	491.75
				TRANSCRIPTION SVC 6/07-6/22/2021	182.00
				Total for Check/Tran - 126549:	673.75
126550 6/24/21	CHK	10183	PETRICKS LOCK & SAFE	REPAIR&LUBE PANIC BARS - KEARNEY ST	105.91
126551 6/24/21	CHK	10197	PRINTERY COMMUNICATIONS	QUIL WATER TANK - AS BUILT PRINTOUT	111.18
126552 6/24/21	CHK	10706	SBA STRUCTURES, LLC	TOWER SITE RNTL MAYNARD HILL- JUL 2021	1,579.12

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Bank Account: 1 - 1ST SECURITY - AP

Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
126553 6/24/21	CHK	10216	SECURITY SERVICES NW, INC.	NIGHT PAYMENT PICKUP - JUN 2021	1,189.24
				NIGHT PAYMENT PICKUP - JUN 2021	297.31
				ALARM MONITORING JUL-SEP 2021	99.00
Total for Check/Tran - 126553:					1,585.55
126554 6/24/21	CHK	10219	SHOLD EXCAVATING INC	CNDT/VLT INSTALL-QUILCENE SCHOOL 4/07	8,965.25
126555 6/24/21	CHK	10249	SPECTRA LABORATORIES-KITSAP LLC	TESTING:PESTICIDES QUILCENE 6/2/21	467.00
126556 6/24/21	CHK	10576	TCF ARCHITECTURE, PLLC	ARCH-CONSTRCTN ADD'L SVC MAY-2021	13,396.63
126557 6/24/21	CHK	10247	TOYOTA LIFT NORTHWEST	REPLACEMENT SEAT VEH# 110	453.57
126558 6/24/21	CHK	10251	UGN - JEFFERSON COUNTY	UNITED GOOD NEIGHBORS EE	15.00
126559 6/24/21	CHK	10737	VAN ALLER SURVEYING	SURVEY - QUIL(LELAND) 101 ROW STAKING	1,786.00
				SURVEY - VAN TROJAN RD EASEMENT	1,044.00
Total for Check/Tran - 126559:					2,830.00
126560 6/24/21	CHK	10260	WA STATE DEFERRED COMPENSATION	PL DEFERRED COMP EE	11,902.00
				PL DEFERRED COMP ER	5,011.91
Total for Check/Tran - 126560:					16,913.91
126561 6/24/21	CHK	10337	WA STATE DEPT OF TRANSPORTATION	UTILITY ACCOMMODATION PERMIT 30396 #4	150.00
126562 6/24/21	CHK	10267	WA STATE SUPPORT REGISTRY	PL CHILD SUPPORT EE	331.00
126563 6/24/21	CHK	10271	WESCO RECEIVABLES CORP	SECONDARY HAND HOLE, GREEN 20" x 33"	2,214.73
				WIRE 350 AL URD QUAD	9,731.72
				ROPE	1,772.88
Total for Check/Tran - 126563:					13,719.33
126564 6/24/21	CHK	10502	CAROL WOODLEY	RENT BILLING AT ANNEX - JUL 2021	1,120.00
				RENT BILLING AT ANNEX - JUL 2021	280.00
Total for Check/Tran - 126564:					1,400.00
126565 6/24/21	CHK	10858	ZOOM VIDEO COMMUNICATIONS, INC.	VID CONF SVC 6/22-7/21/21	327.21
				VID CONF SVC 6/22-7/21/21	81.80

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Bank Account: 1 - 1ST SECURITY - AP

Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
Total for Check/Tran - 126565:					409.01

Total Payments for Bank Account - 1 : (150) 1,396,229.21

Total Voids for Bank Account - 1 : (0) 0.00

Total for Bank Account - 1 : (150) 1,396,229.21

Grand Total for Payments : (150) 1,396,229.21

Grand Total for Voids : (0) 0.00

Grand Total : (150) 1,396,229.21

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Bank Account: 1 - 1ST SECURITY - AP

Check / Tran Date	Pmt Type	Vendor	Vendor Name	Reference	Amount
145 6/11/21	WIRE	10279	BPA-WIRE TRANSFER	PURCHASED POWER APR 2021	1,325,199.00
				TRANSMISSION APR 2021	157,058.00
				REGIONAL COORD SVC APR 2021	1,277.00
				REGIONAL COMP ENFOR APR 2021	1,596.00
Total for Check/Tran - 145:					1,485,130.00

Total Payments for Bank Account - 1 : (1) 1,485,130.00

Total Voids for Bank Account - 1 : (0) 0.00

Total for Bank Account - 1 : (1) 1,485,130.00

Grand Total for Payments : (1) 1,485,130.00

Grand Total for Voids : (0) 0.00

Grand Total : (1) 1,485,130.00

JEFFERSON COUNTY PUD NO 1

ISSUED PAYROLL CHECKS PAY DATE:6/11/2021

Empl	Position	Check #	Date #	Amount
2000	WATER DISTRIBUTION MANAGER II	70905	6/11/2021	1,676.96
2001	WATER DISTRIBUTION MANAGER II	70906	6/11/2021	2,174.99
3032	CUSTOMER SERVICE REP	70907	6/11/2021	1,231.18
2003	WATER TREATMENT PLANT OPERATOR III	70908	6/11/2021	2,121.76
2004	WATER TREATMENT PLANT OPERATOR III - LEAD	70909	6/11/2021	3,069.56
1049	STAKING ENGINEER	70910	6/11/2021	804.88
				11,079.33

JEFFERSON COUNTY PUD NO 1

ISSUED PAYROLL CHECKS PAY DATE:6/25/2021

Empl	Position	Check #	Date #	Amount
2000	WATER DISTRIBUTION MANAGER II	70911	6/25/2021	1,676.95
2001	WATER DISTRIBUTION MANAGER II	70912	6/25/2021	2,087.63
3032	CUSTOMER SERVICE REP	70913	6/25/2021	1,231.18
2003	WATER TREATMENT PLANT OPERATOR III	70914	6/25/2021	2,635.43
2004	WATER TREATMENT PLANT OPERATOR III - LEAD	70915	6/25/2021	2,759.53
				10,390.72

JEFFERSON COUNTY PUD NO 1

DIRECT DEPOSIT PAYROLL PAY DATE: 6/11/2021

Empl	Position	Pay Date	Net Pay
3039	ACCOUITING TECH 1	6/11/2021	1,281.58
3052	ADMINISTRATIVE ASSISTANT	6/11/2021	2,269.63
1044	APPRENTICE LINEMAN	6/11/2021	3,384.58
1026	BROADBAND SUPERVISOR	6/11/2021	2,042.14
4006	COMMISSIONER DIST 1	6/11/2021	934.34
4004	COMMISSIONER DIST 2	6/11/2021	2,323.92
4008	COMMISSIONER DIST 3	6/11/2021	1,663.34
3034	COMMUNICATIONS DIRECTOR	6/11/2021	2,349.18
3002	CUSTOMER SERVICE COORDINATOR	6/11/2021	1,206.88
3014	CUSTOMER SERVICE PROGRAM SPECIALIST	6/11/2021	1,322.10
3022	CUSTOMER SERVICE REP	6/11/2021	1,344.68
3046	CUSTOMER SERVICE REP	6/11/2021	1,189.38
3048	CUSTOMER SERVICE REP	6/11/2021	1,220.87
1027	ELECTRICAL ENGINEERING MANAGER	6/11/2021	2,998.88
1041	ELECTRICAL SUPERINTENDENT	6/11/2021	3,905.10
2007	ENGINEERING DIRECTOR	6/11/2021	3,335.96
3005	EXECUTIVE ASSISTANT/PUBLIC RECORDS OFFICER	6/11/2021	2,175.58
3033	FINANCE DIRECTOR	6/11/2021	3,566.89
1046	FLEET/WAREHOUSE HELPER	6/11/2021	2,580.99
1008	FOREMAN LINEMAN	6/11/2021	6,253.96
1012	FOREMAN LINEMAN	6/11/2021	4,069.92
1011	GENERAL MANAGER	6/11/2021	4,771.43
1042	GIS SPECIALIST	6/11/2021	2,323.66
1017	HEAD STOREKEEPER	6/11/2021	2,400.20
3047	HUMAN RESOURCES DIRECTOR	6/11/2021	2,616.96
3008	INFORMATION TECHNOLOGY MANAGER	6/11/2021	3,202.52
3028	IT SUPPORT TECHNICIAN	6/11/2021	1,770.98
1000	LINEMAN	6/11/2021	3,215.28
1016	LINEMAN	6/11/2021	4,589.26
1020	LINEMAN	6/11/2021	5,744.90
1034	LINEMAN	6/11/2021	5,819.67
1043	METER READER	6/11/2021	1,605.51
1047	METER READER	6/11/2021	1,771.19
1037	OPERATIONS DIRECTOR	6/11/2021	3,548.61
3004	RESOURCE MANAGER	6/11/2021	2,765.33
1003	SCADA TECH APPRENTICE	6/11/2021	3,231.18
3020	SERVICES DIRECTOR	6/11/2021	2,553.79
1031	STAKING ENGINEER	6/11/2021	2,447.69
1014	STOREKEEPER	6/11/2021	2,798.95
1015	SUBSTATION/METER FOREMAN	6/11/2021	3,012.60
1033	SUBSTATION/METERING TECH	6/11/2021	3,602.37
3013	UTILITY ACCOUNTANT II	6/11/2021	1,591.64
3029	UTILITY ACCOUNTANT II	6/11/2021	1,753.83
3003	UTILITY BILLING CLERK	6/11/2021	1,516.00
3027	UTILITY BILLING CLERK	6/11/2021	1,480.73
3000	UTILITY BILLING COORDINATOR	6/11/2021	1,599.37
2002	WATER DISTRIBUTION MANAGER II	6/11/2021	1,922.39
2005	WATER DISTRIBUTION MANAGER II	6/11/2021	1,483.30
			\$ 126,559.24

JEFFERSON COUNTY PUD NO 1

DIRECT DEPOSIT PAYROLL PAY DATE: 6/25/2021

Empl	Position	Pay Date	Net Pay
3039	ACCOUITING TECH 1	6/25/2021	1,281.56
3052	ADMINISTRATIVE ASSISTANT	6/25/2021	2,269.63
1044	APPRENTICE LINEMAN	6/25/2021	2,990.34
1026	BROADBAND SUPERVISOR	6/25/2021	2,042.14
4006	COMMISSIONER DIST 1	6/25/2021	2,060.72
4004	COMMISSIONER DIST 2	6/25/2021	965.27
4008	COMMISSIONER DIST 3	6/25/2021	723.74
3034	COMMUNICATIONS DIRECTOR	6/25/2021	2,349.19
3002	CUSTOMER SERVICE COORDINATOR	6/25/2021	1,388.63
3014	CUSTOMER SERVICE PROGRAM SPECIALIST	6/25/2021	1,322.11
3022	CUSTOMER SERVICE REP	6/25/2021	1,344.68
3046	CUSTOMER SERVICE REP	6/25/2021	1,192.42
3048	CUSTOMER SERVICE REP	6/25/2021	1,220.87
1027	ELECTRICAL ENGINEERING MANAGER	6/25/2021	2,998.88
1041	ELECTRICAL SUPERINTENDENT	6/25/2021	3,905.09
2007	ENGINEERING DIRECTOR	6/25/2021	3,335.96
3005	EXECUTIVE ASSISTANT/PUBLIC RECORDS OFFICER	6/25/2021	2,175.57
3033	FINANCE DIRECTOR	6/25/2021	3,566.88
1046	FLEET/WAREHOUSE HELPER	6/25/2021	2,427.63
1008	FOREMAN LINEMAN	6/25/2021	5,050.47
1012	FOREMAN LINEMAN	6/25/2021	5,223.66
1011	GENERAL MANAGER	6/25/2021	4,771.43
1042	GIS SPECIALIST	6/25/2021	2,323.67
1017	HEAD STOREKEEPER	6/25/2021	2,400.19
3047	HUMAN RESOURCES DIRECTOR	6/25/2021	2,616.95
3008	INFORMATION TECHNOLOGY MANAGER	6/25/2021	3,202.53
3028	IT SUPPORT TECHNICIAN	6/25/2021	1,770.98
1000	LINEMAN	6/25/2021	3,509.25
1016	LINEMAN	6/25/2021	4,679.50
1020	LINEMAN	6/25/2021	4,453.17
1034	LINEMAN	6/25/2021	5,065.47
1043	METER READER	6/25/2021	1,662.95
1047	METER READER	6/25/2021	1,514.71
1037	OPERATIONS DIRECTOR	6/25/2021	3,548.59
1050	PRE-APPRENTICE	6/25/2021	1,110.06
1051	PRE-APPRENTICE	6/25/2021	1,030.37
3004	RESOURCE MANAGER	6/25/2021	2,796.96
1003	SCADA TECH APPRENTICE	6/25/2021	2,807.29
3020	SERVICES DIRECTOR	6/25/2021	2,553.78
1031	STAKING ENGINEER	6/25/2021	3,276.48
1049	STAKING ENGINEER	6/25/2021	1,925.55
1014	STOREKEEPER	6/25/2021	2,401.73
1015	SUBSTATION/METER FOREMAN	6/25/2021	4,077.32
1033	SUBSTATION/METERING TECH	6/25/2021	2,850.42
3013	UTILITY ACCOUNTANT II	6/25/2021	1,591.62
3029	UTILITY ACCOUNTANT II	6/25/2021	1,753.84
3003	UTILITY BILLING CLERK	6/25/2021	1,454.44
3027	UTILITY BILLING CLERK	6/25/2021	1,480.73
3000	UTILITY BILLING COORDINATOR	6/25/2021	1,599.38
2002	WATER DISTRIBUTION MANAGER II	6/25/2021	2,413.77
2005	WATER DISTRIBUTION MANAGER II	6/25/2021	1,673.89
			128,152.46

Jefferson County PUD No. 1
Electric Division
Statement of Operations
As of May 31, 2021

PART A. STATEMENT OF OPERATIONS				
ITEM	YEAR-TO-DATE			THIS MONTH
	LAST YEAR (a)	THIS YEAR (b)	BUDGET (c)	
1. Operating Revenue and Patronage Capital	18,400,715	18,891,832	18,504,063	2,676,172
2. Power Production Expense	0	0	0	0
3. Cost of Purchased Power	6,963,472	6,894,246	7,033,107	1,068,848
4. Transmission Expense	844,947	837,255	859,176	120,160
5. Regional Market Operations Expense	0	0	0	0
6. Distribution Expense - Operation	703,619	741,995	797,464	147,136
7. Distribution Expense - Maintenance	1,307,830	1,331,058	1,526,057	245,536
8. Consumer Accounts Expense	532,467	698,739	651,679	178,202
9. Customer Service and Informational Expense	11,662	12,700	11,830	5,582
10. Sales Expense	0	0	0	0
11. Administrative and General Expense	1,042,031	1,553,244	1,211,019	298,127
12. Total Operation & Maintenance Expense (2 thru 11)	11,406,028	12,069,237	12,090,332	2,063,591
13. Depreciation & Amortization Expense	2,269,188	2,300,464	2,349,478	461,524
14. Tax Expense - Property & Gross Receipts	0	0	0	0
15. Tax Expense - Other	1,061,170	1,087,930	1,068,599	154,291
16. Interest on Long-Term Debt	1,125,860	1,072,286	1,082,683	216,847
17. Interest Charged to Construction (Credit)	0	0	0	0
18. Interest Expense - Other	0	0	0	0
19. Other Deductions	39	0	39	0
20. Total Cost of Electric Service (12 thru 19)	15,862,285	16,529,917	16,591,131	2,896,253
21. Patronage Capital & Operating Margins (1 minus 20)	2,538,430	2,361,915	1,912,932	(220,081)
22. Non Operating Margins - Interest	35,711	1,327	36,158	184
23. Allowance for Funds Used During Construction	0	0	0	0
24. Income (Loss) from Equity Investments	0	0	0	0
25. Non Operating Margins - Other	864,835	944,360	1,141,520	185,016
26. Generation & Transmission Capital Credits	0	0	0	0
27. Other Capital Credits & Patronage Dividends	12,803	0	0	0
28. Extraordinary Items	0	0	0	0
29. Patronage Capital or Margins (21 thru 28)	3,451,779	3,307,602	3,090,610	(34,881)

Times Interest Earned Ratio (TIER) (Year to Date)	4.07	4.08	3.85
Operating Times Interest Earned Ratio (OTIER) (Year to Date)	3.25	3.20	2.77
Debt Service Coverage Ratio (DSC) (Year to Date)	2.77	2.68	2.62
Operating Debt Service Coverage Ratio (ODSC) (Year to Date)	2.40	2.30	2.15
Rolling 12 Month TIER	2.54	2.67	

Jefferson County PUD No. 1
Electric Division
Balance Sheet
May 31, 2021

PART B. BALANCE SHEET			
ASSETS AND OTHER DEBITS		LIABILITIES AND OTHER CREDITS	
1. Total Utility Plant in Service	180,304,958	29. Memberships	0
2. Construction Work in Progress	9,344,855	30. Patronage Capital	0
3. Total Utility Plant (1+2)	189,649,813	31. Operating Margins - Prior Years	0
4. Accum. Provision for Depreciation and Amort	69,066,533	32. Operating Margins - Current Year	2,361,915
5. Net Utility Plant (3-4)	120,583,280	33. Non-Operating Margins	945,687
6. Nonutility Property - Net	85,447	34. Other Margins & Equities	30,723,310
7. Investment in Subsidiary Companies	0	35. Total Margins & Equities (29 thru 34)	34,030,912
8. Invest. in Assoc. Org. - Patronage Capital	69,926	36. Long-Term Debt RUS (Net)	95,471,306
9. Invest. in Assoc. Org. - Other - General Funds	1,010	37. Long-Term Debt - Other (Net)	0
10. Invest in Assoc. Org. - Other - Nongeneral Funds	0	38. Total Long-Term Debt (36 + 37)	95,471,306
11. Investments in Economic Development Projects	0	39. Obligations Under Capital Leases - Non current	0
12. Other Investments	0	40. Accumulated Operating Provisions	1,517,089
13. Special Funds	94,250	41. Total Other Noncurrent Liabilities (39+40)	1,517,089
14. Total Other Property & Investments (6 thru 13)	250,633	42. Notes Payable	0
15. Cash-General Funds	3,963,858	43. Accounts Payable	3,770,107
16. Cash-Construction Funds-Trustee	0	44. Consumers Deposits	0
17. Special Deposits	0	45. Current Maturities Long-Term Debt	0
18. Temporary Investments	8,110,396	46. Current Maturities Long-Term Debt-Economic Dev.	0
19. Notes Receivable - Net	0	47. Current Maturities Capital Leases	0
20. Accounts Receivable - Net Sales of Energy	2,270,728	48. Other Current & Accrued Liabilities	1,977,513
21. Accounts Receivable - Net Other	(3,769,382)	49. Total Current & Accrued Liabilities (42 thru 48)	5,747,620
22. Renewable Energy Credits	0	50. Deferred Credits	425,536
23. Materials & Supplies - Electric and Other	2,608,346	51. Total Liabilities & Other Credits (35+38+41+49+50)	137,192,463
24. Prepayments	259,548		
25. Other Current & Accrued Assets	2,387,438	ESTIMATED CONTRIBUTION-IN-AID-OF-CONSTRUCTION	
26. Total Current & Accrued Assets (15 thru 25)	15,830,932	Balance Beginning of Year	0
27. Deferred Debits	527,618	Amounts Received This Year (Net)	615,638
28. Total Assets & Other Debits (5+14+26+27)	137,192,463	TOTAL Contributions-In-Aid-Of-Construction	615,638

Equity Ratio **24.81%**
 (Total Margins & Equities/Total Assets & Other Debits) x 100

Long-Term Debt to Total Plant Ratio **50.34%**
 (Long Term Debt/Total Utility Plant) x 100

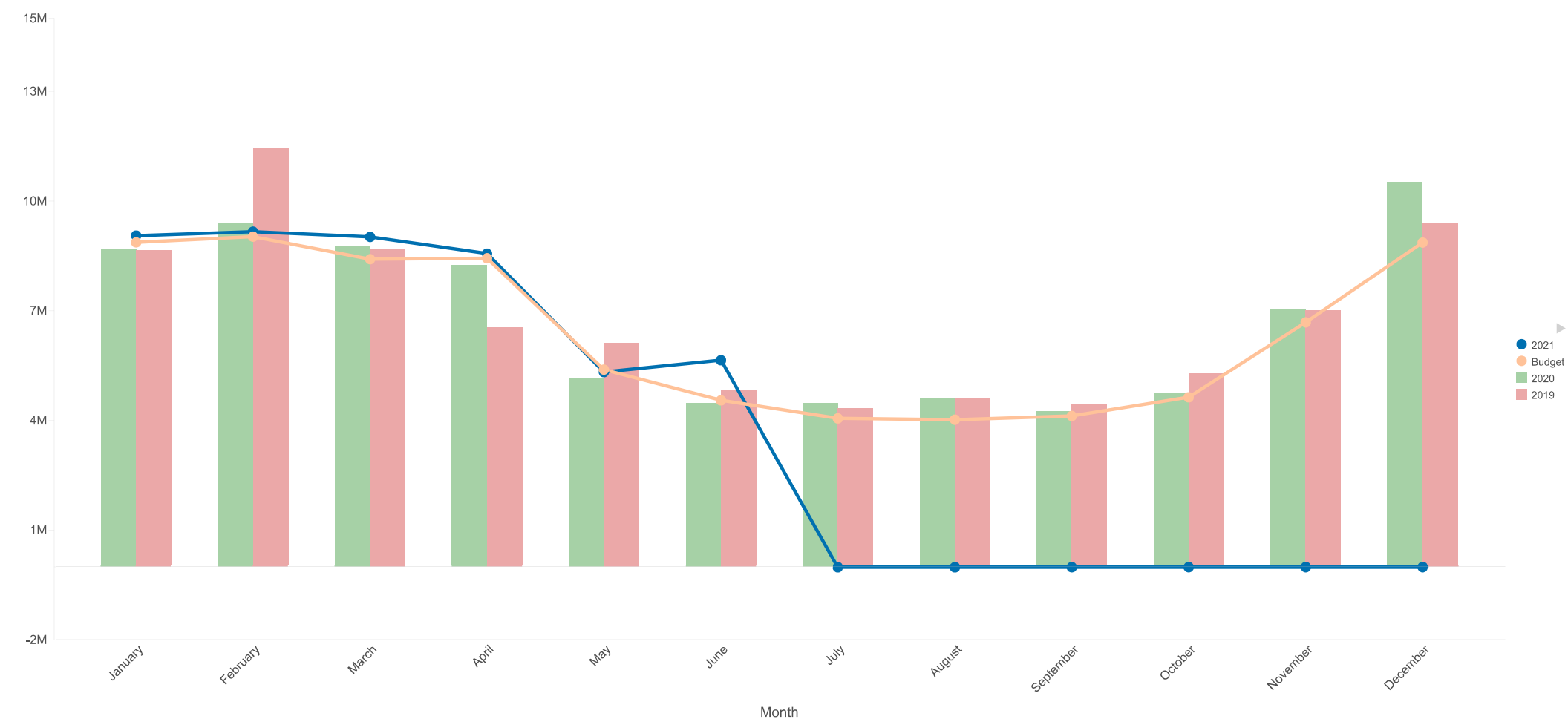
Jefferson County PUD #1
Power Requirements
As of May 31, 2021

PART C. POWER REQUIREMENTS DATABASE				
CLASSIFICATION	CONSUMER, SALES, AND REVENUE DATA	MAY CONSUMERS (b)	AVERAGE CONSUMERS (c)	Monthly KWH SALES AND REVENUE (d)
1. Residential Sales (excluding seasonal)	a. No. Consumers Served	17,770	17,734	
	b. KWH Sold			14,367,844
	c. Revenue			1,669,358
2. Residential Sales - Seasonal	a. No. Consumers Served	5	5	
	b. KWH Sold			0
	c. Revenue			0
3. Irrigation Sales	a. No. Consumers Served	2	2	
	b. KWH Sold			210
	c. Revenue			74
4. Comm. and Ind. 1000 KVA or Less	a. No. Consumers Served	2,418	2,405	
	b. KWH Sold			4,733,493
	c. Revenue			538,173
5. Comm. and Ind. Over 1000 KVA	a. No. Consumers Served	21	21	
	b. KWH Sold			8,232,089
	c. Revenue			434,293
6. Public Street & Highway Lighting	a. No. Consumers Served	208	209	
	b. KWH Sold			32,345
	c. Revenue			17,584
7. Non Metered Device Authority	a. No. Consumers Served	7	6	
	b. KWH Sold			0
	c. Revenue			1,710
8. Sales for Resales-RUS Borrowers	a. No. Consumers Served			
	b. KWH Sold			
	c. Revenue			
9. Sales for Resales-Other	a. No. Consumers Served			
	b. KWH Sold			
	c. Revenue			
10. TOTAL No. of Consumers (lines 1a thru 9a)		20,431	20,382	
11. TOTAL KWH Sold (lines 1b thru 9b)				27,365,981
12. TOTAL Revenue Received From Sales of Electric Energy (line 1c thru 9c)				2,661,192
13. Transmission Revenue				0
14. Other Electric Revenue				14,980
15. KWH - Own Use				538
16. TOTAL KWH Purchased				28,182,051
17. TOTAL KWH Generated				
18. Cost of Purchases and Generation				1,068,848
19. Interchange - KWH - Net				
20. Peak - Sum All KW Input (Metered)				56,223

Electric Division
Comparison 2021 Budget to 2021 Actuals Year to Date Through MAY

	2021 Budget MAY YTD	2021 Actuals MAY YTD	Variance
1. Operating Revenue and Patronage Capital	18,504,063	18,891,832	387,769
2. Power Production Expense	0	0	0
3. Cost of Purchased Power	7,033,107	6,894,246	(138,861)
4. Transmission Expense	859,176	837,255	(21,921)
5. Regional Market Operations Expense	0	0	0
6. Distribution Expense - Operation	797,464	741,995	(55,469)
7. Distribution Expense - Maintenance	1,526,057	1,331,058	(194,999)
8. Consumer Accounts Expense	651,679	698,739	47,060
9. Customer Service and Informational Expense	11,830	12,700	870
10. Sales Expense	0	0	0
11. Administrative and General Expense	1,211,019	1,553,244	342,225
12. Total Operation & Maintenance Expense (2 thru 11)	12,090,332	12,069,237	(21,095)
13. Depreciation & Amortization Expense	2,349,478	2,300,464	(49,014)
14. Tax Expense - Property & Gross Receipts	0	0	0
15. Tax Expense - Other	1,068,599	1,087,930	19,331
16. Interest on Long-Term Debt	1,082,683	1,072,286	(10,397)
17. Interest Charged to Construction (Credit)	0	0	0
18. Interest Expense - Other	0	0	0
19. Other Deductions	39	0	(39)
20. Total Cost of Electric Service (12 thru 19)	16,591,131	16,529,917	(61,214)
21. Patronage Capital & Operating Margins (1 minus 20)	1,912,932	2,361,915	448,983
22. Non Operating Margins - Interest	36,158	1,327	(34,831)
23. Allowance for Funds Used During Construction	0	0	0
24. Income (Loss) from Equity Investments	0	0	0
25. Non Operating Margins - Other	1,141,520	944,360	(197,160)
26. Generation & Transmission Capital Credits	0	0	0
27. Other Capital Credits & Patronage Dividends	0	0	0
28. Extraordinary Items	0	0	0
29. Patronage Capital or Margins (21 thru 28)	3,090,610	3,307,602	216,992

RUS Form 7 Income Statement by Month
ELECTRIC UTILITY FORM 7 FINANCIAL COMPARISON GRAPH
2019 - 2021



Jefferson County PUD No. 1
Water Division
Statement of Operations
As of April 30, 2021

PART A. STATEMENT OF OPERATIONS				
ITEM	YEAR-TO-DATE			THIS MONTH
	LAST YEAR	THIS YEAR	BUDGET	
	(a)	(b)	(c)	
1. Operating Revenue and Patronage Capital	952,239	980,687	958,905	210,572
2. Power Production Expense	268	0	271	0
3. Cost of Purchased Power	1,790	50,745	83,333	9,373
4. Transmission Expense	0	0	0	0
5. Regional Market Operations Expense	0	0	0	0
6. Distribution Expense - Operation	278,166	250,794	442,493	45,923
7. Distribution Expense - Maintenance	130,664	53,910	229,861	4,843
8. Consumer Accounts Expense	79,582	104,308	95,303	20,652
9. Customer Service and Informational Expense	110	0	0	0
10. Sales Expense	0	0	0	0
11. Administrative and General Expense	359,247	434,800	478,940	83,825
12. Total Operation & Maintenance Expense (2 thru 11)	849,827	894,557	1,330,201	164,616
13. Depreciation & Amortization Expense	291,120	320,646	305,715	64,661
14. Tax Expense - Property & Gross Receipts	0	0	0	0
15. Tax Expense - Other	46,100	49,083	46,422	11,621
16. Interest on Long-Term Debt	101,045	93,238	94,578	18,083
17. Interest Charged to Construction (Credit)	0	0	0	0
18. Interest Expense - Other	0	0	0	0
19. Other Deductions	0	0	0	0
20. Total Cost of Water Service (12 thru 19)	1,288,092	1,357,524	1,776,916	258,981
21. Patronage Capital & Operating Margins (1 minus 20)	(335,853)	(376,837)	(818,011)	(48,409)
22. Non Operating Margins - Interest	55,445	22,589	56,138	605
23. Allowance for Funds Used During Construction	0	0	0	0
24. Income (Loss) from Equity Investments	0	0	0	0
25. Non Operating Margins - Other	360,758	213,599	297,876	106,043
26. Generation & Transmission Capital Credits	0	0	0	0
27. Other Capital Credits & Patronage Dividends	3,201	0	0	0
28. Extraordinary Items	0	0	0	0
29. Patronage Capital or Margins (21 thru 28)	83,551	(140,649)	(463,997)	58,239

Jefferson County PUD No. 1
Water Division
Balance Sheet
April 30, 2021

PART B. BALANCE SHEET			
ASSETS AND OTHER DEBITS		LIABILITIES AND OTHER CREDITS	
1. Total Utility Plant in Service	31,104,038	29. Memberships	0
2. Construction Work in Progress	1,225,891	30. Patronage Capital	0
3. Total Utility Plant (1+2)	32,329,929	31. Operating Margins - Prior Years	0
4. Accum. Provision for Depreciation and Amort	12,722,979	32. Operating Margins - Current Year	(376,838)
5. Net Utility Plant (3-4)	19,606,950	33. Non-Operating Margins	236,189
6. Nonutility Property - Net	2,170,234	34. Other Margins & Equities	22,988,227
7. Investment in Subsidiary Companies	0	35. Total Margins & Equities (29 thru 34)	22,847,578
8. Invest. in Assoc. Org. - Patronage Capital	0	36. Long-Term Debt RUS (Net)	0
9. Invest. in Assoc. Org. - Other - General Funds	0	37. Long-Term Debt - Other (Net)	5,385,991
10. Invest in Assoc. Org. - Other - Nongeneral Funds	0	38. Total Long-Term Debt (36 + 37)	5,385,991
11. Investments in Economic Development Projects	0	39. Obligations Under Capital Leases - Non current	0
12. Other Investments	0	40. Accumulated Operating Provisions	0
13. Special Funds	17,817	41. Total Other Noncurrent Liabilities (39+40)	0
14. Total Other Property & Investments (6 thru 13)	2,188,051	42. Notes Payable	869,857
15. Cash-General Funds	171,565	43. Accounts Payable	(4,055,682)
16. Cash-Construction Funds-Trustee	0	44. Consumers Deposits	0
17. Special Deposits	0	45. Current Maturities Long-Term Debt	0
18. Temporary Investments	2,079,660	46. Current Maturities Long-Term Debt-Economic Dev.	0
19. Notes Receivable - Net	0	47. Current Maturities Capital Leases	0
20. Accounts Receivable - Net Sales of Energy	175,632	48. Other Current & Accrued Liabilities	28,148
21. Accounts Receivable - Net Other	527,657	49. Total Current & Accrued Liabilities (42 thru 48)	(3,157,677)
22. Renewable Energy Credits	0	50. Deferred Credits	0
23. Materials & Supplies - Electric and Other	24,142	51. Total Liabilities & Other Credits (35+38+41+49+50)	25,075,892
24. Prepayments	0	ESTIMATED CONTRIBUTION-IN-AID-OF-CONSTRUCTION	
25. Other Current & Accrued Assets	149,235	Balance Beginning of Year	0
26. Total Current & Accrued Assets (15 thru 25)	3,127,891	Amounts Received This Year (Net)	150,333
27. Deferred Debits	0	TOTAL Contributions-In-Aid-Of-Construction	150,333
28. Total Assets & Other Debits (5+14+26+27)	24,922,892		

Equity Ratio **91.67%**
 (Total Margins & Equities/Total Assets & Other Debits) x 100

Long-Term Debt to Total Plant Ratio **16.66%**
 (Long Term Debt/Total Utility Plant) x 100

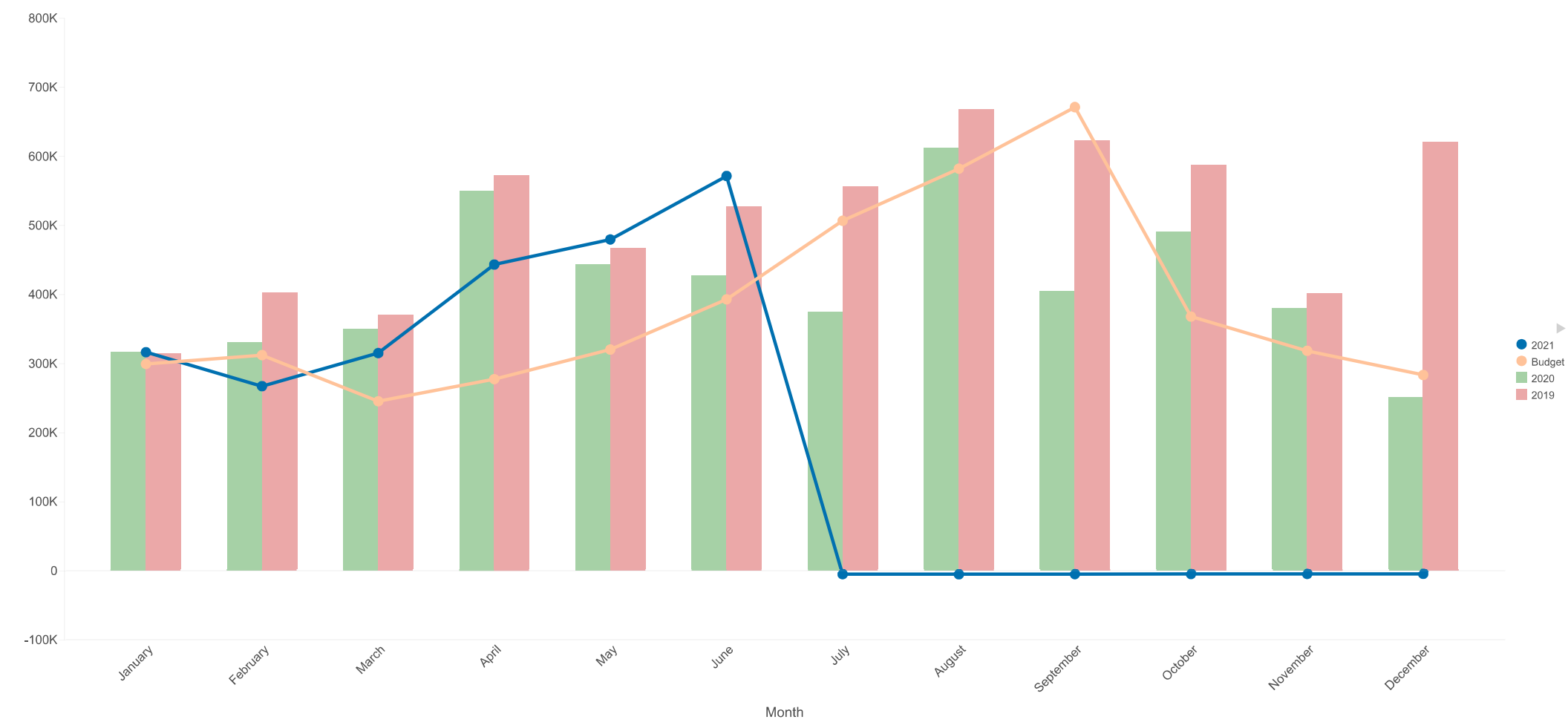
Jefferson County PUD #1
Water Requirements
As of May 31, 2021

PART C. WATER REQUIREMENTS DATABASE				
CLASSIFICATION	CONSUMER, SALES, AND REVENUE DATA	MAY CONSUMERS (b)	AVERAGE CONSUMERS (c)	Monthly Gallons SALES AND REVENUE (d)
1. Unmetered Water Sales	a. No. Consumers Served	12	12	
	b. Gallons Sold			11,000
	c. Revenue			1,359
2. Metered Residential Sales -	a. No. Consumers Served	4,565	4,539	
	b. Gallons Sold			16,504,629
	c. Revenue			162,859
3. Metered Commercial Sales	a. No. Consumers Served	320	318	
	b. Gallons Sold			3,991,289
	c. Revenue			33,328
4. Residential Multi-Family	a. No. Consumers Served	46	46	
	b. Gallons Sold			151,800
	c. Revenue			2,175
5. Metered Bulk Loadings	a. No. Consumers Served	1	1	
	b. Gallons Sold			0
	c. Revenue			29
6. Public Authority	a. No. Consumers Served	5	5	
	b. Gallons Sold			0
	c. Revenue			0
7. Master Meters	a. No. Consumers Served	22	22	
	b. Gallons Sold			3,837,040
	c. Revenue			0
8. Sewer/Drain Field--Residential	a. No. Consumers Served	375	375	
	b. Gallons Sold			0
	c. Revenue			10,207
9. Sales for Resales-Other	a. No. Consumers Served			
	b. Gallons Sold			
	c. Revenue			
10. TOTAL No. of Consumers (lines 1a thru 9a)		5,346	5,318	
11. TOTAL Gallons Sold (lines 1b thru 9b)				24,495,758
12. TOTAL Revenue Received From Sales of Water Gallons (line 1c thru 9c)				209,957
13. Bulk Water Gallons Sold Revenue				
14. Other Water Revenue				615
15. Gallons - Own Use				0
16. TOTAL Gallons Purchased				
17. TOTAL Gallons Produced				23,910,167
18. Cost of Purchases and Generation				9,373

Water Division
Comparison 2021 Budget to 2021 Actuals Year to Date Through MAY

	2021 Budget MAY YTD	2021 Actuals MAY YTD	Variance
1. Operating Revenue and Patronage Capital	958,905	980,687	21,782
2. Power Production Expense	271	0	(271)
3. Cost of Purchased Power	83,333	50,745	(32,588)
4. Transmission Expense	0	0	0
5. Regional Market Operations Expense	0	0	0
6. Distribution Expense - Operation	442,493	250,794	(191,699)
7. Distribution Expense - Maintenance	229,861	53,910	(175,951)
8. Consumer Accounts Expense	95,303	104,308	9,005
9. Customer Service and Informational Expense	0	0	0
10. Sales Expense	0	0	0
11. Administrative and General Expense	478,940	434,800	(44,140)
12. Total Operation & Maintenance Expense (2 thru 11)	1,330,201	894,557	(435,644)
13. Depreciation & Amortization Expense	305,715	320,646	14,931
14. Tax Expense - Property & Gross Receipts	0	0	0
15. Tax Expense - Other	46,422	49,083	2,661
16. Interest on Long-Term Debt	94,578	93,238	(1,340)
17. Interest Charged to Construction (Credit)	0	0	0
18. Interest Expense - Other	0	0	0
19. Other Deductions	0	0	0
20. Total Cost of Water Service (12 thru 19)	1,776,916	1,357,524	(419,392)
21. Patronage Capital & Operating Margins (1 minus 20)	(818,011)	(376,837)	441,174
22. Non Operating Margins - Interest	56,138	22,589	(33,549)
23. Allowance for Funds Used During Construction	0	0	0
24. Income (Loss) from Equity Investments	0	0	0
25. Non Operating Margins - Other	297,876	213,599	(84,277)
26. Generation & Transmission Capital Credits	0	0	0
27. Other Capital Credits & Patronage Dividends	0	0	0
28. Extraordinary Items	0	0	0
29. Patronage Capital or Margins (21 thru 28)	(463,997)	(140,649)	323,348

RUS Form 7 Income Statement by Month
WATER UTILITY FORM 7 FINANCIAL COMPARISON GRAPH
2019 - 2021



**Jefferson County PUD No. 1
Cash and Cash Equivalents
As of May 31, 2021**

<u>G/L #</u>	<u>Account Description</u>	<u>Balance</u>
1 131.12	Operating Account - Jefferson Co. Treasurer	\$2,882,773
1 131.11	Operating Depository Account - Bank of America	1,079,214
2 131.01	Cash-Jeff Co Treasurer General Account	127,433
2 131.11	1996 Bond LUD #8 - Jefferson Co. Treasurer	27,027
2 131.10	1996 Bond LUD #6 - Jefferson Co. Treasurer	8,697
2 131.14	2009 Bond LUD #14 - Jefferson Co. Treasurer	8,241 Restricted
1 135.21	Working Funds - Petty Cash and CSR Drawers	1,850
2 135.21	Cash Held in Trust by Property Manager	150
1 131.16	Payroll Clearing Account - 1st Security Bank	24
2 131.15	2008 Bond LUD #15 - Jefferson Co. Treasurer	18 Restricted
TOTAL LINE 15. BALANCE SHEET-CASH-GENERAL FUNDS		\$4,135,427
1 136.16	Tax Revenue Fund - Jefferson Co. Treasurer	\$3,344,708
1 136.10	Operating Account Related Investment - Jefferson Co. Treasurer	2,840,689
1 136.17	Tax Revenue Investment Fund - Jefferson Co. Treasurer	1,925,000
2 136.14	LUD #14 Bond Investment - Jefferson Co. Treasurer	1,042,680 Restricted
2 136.16	Tax Revenue Fund - Jefferson Co. Treasurer	724,011
2 136.15	LUD #15 Bond Investment - Jefferson Co. Treasurer	312,968 Restricted
TOTAL LINE 18. BALANCE SHEET-TEMPORARY INVESTMENTS		\$10,190,056
2 126.31	Tri Area Bond Reserve Investment Fund - Jefferson Co. Treasurer	\$164,806 Restricted
1 126.10	Capital Reserves	94,000 Restricted
2 126.10	Capital Reserves	6,000 Restricted
1 128.00	Other Special Funds	250 Restricted
2 126.21	Tri Area Bond Reserve Fund - Jefferson Co. Treasurer	10 Restricted
TOTAL LINE 13. BALANCE SHEET-SPECIAL FUNDS		\$265,066
RESTRICTED CASH BALANCE--MAY 2021		\$1,628,973
NON-RESTRICTED CASH BALANCE--MAY 2021		\$12,961,576
TOTAL CASH AND CASH EQUIVALENTS IN BANK--MAY 2021		\$14,590,549
TOTAL CASH AND CASH EQUIVALENTS IN BANK--APRIL 2021		\$13,965,656
Change in Bank Balance		\$624,893

July 6, 2021

PUD Calendar

July 6, 2021, Regular BOC Meeting per ZOOM, 5:00 pm

July 12, 2021, CAB Meeting; per ZOOM 2:00pm (postposed to week of July 26th tentatively)

July 15-16, WPUDA Associations Meetings; ZOOM or in person 9:00am-5:30pm July 15th and 8:30 am on July 16

July 20, 2021, Regular BOC Meeting per ZOOM, 5:00 pm



AGENDA REPORT

DATE: July 6, 2021
TO: Board of Commissioners
FROM: Jean Hall, Services Director
RE: Low Income Water Rate – Discussion of Options

BACKGROUND: Low-income water rate discount was adopted into the Water Rate Schedule with resolution 2021-017.

While the Board approved the discount as presented, the consensus was that there was room for improvement to the discount for the years 2022, 2023, and 2024. Staff was tasked with putting together some discount options.

ANALYSIS/FINDINGS: The attached Power Point presentation contains three additional options and the budgetary requirements for those options.

FISCAL IMPACT: TBD

RECOMMENDATION: Discuss options and provide staff with guidance as to the wishes of the Board.



LOW-INCOME WATER RATE

Options Discussion

CURRENT WATER RATES – FOR REFERENCE

Effective Date:	June 5 2021	January 5 2022	January 5 2023	January 5 2024
Basic Charge:				
5/8" – Meter	\$ 32.65	\$ 34.80	\$ 40.83	\$42.61
1" – Meter	78.16	83.30	97.74	102.00
1.5" – Meter	152.75	162.80	191.02	199.36
Low Income Discount				
	\$ (12.73)	\$ (13.57)	\$ (15.92)	\$ (16.61)
Monthly Capital Surcharge:				
	\$ 0.00	\$ 5.00	\$ 5.00	\$ 7.00
Consumption Rate				
Per 100 Gallons:				
Tier 1 (0-5,000)	\$ 0.29	\$ 0.31	\$ 0.36	\$ 0.38
Tier 2 (5,001-10,000)	0.40	0.43	0.50	0.52
Tier 3 (10,000-30,000)	0.54	0.58	0.68	0.70
Tier 4 (> 30,000)	1.00	1.07	1.25	1.31

CURRENT WATER RATES



<i>Based on residential 5/8" meter</i>	2021	2022	2023	2024
Base Fee	\$32.65	\$ 34.80	\$40.83	\$42.61
Capital Surcharge	0.00	5.00	5.00	7.00
Low Income Discount	(12.73)	(13.57)	(15.92)	(16.61)
Percentage Discount	39%	34%	35%	33%

Rates for a standard residential customer with a 5/8" meter

LOW-INCOME DISCOUNT OPTIONS SUMMARY



Based on residential 5/8" meter Monthly Rate per Customer	2021	2022	2023	2024
Base + Surcharge	\$32.65	\$39.80	\$45.83	\$49.61
Current Discount	(12.73) 39.0%	(13.57) 34.1%	(15.92) 34.7%	(16.61) 33.5%
<u>Option 1</u> 30% Discount	(9.80)	(11.94)	(13.75)	(14.88)
<u>Option 2</u> 40% Discount	(13.06)	(15.92)	(18.33)	(19.84)
<u>Option 3</u> 30% Base 100% Surcharge	*keep current (12.73)	(15.44) 38.8%	(17.25) 37.6%	(19.78) 39.9%

Historically, water and sewer discount rates have been set at 30% of the base fee. The discount shown here is what has been approved. These numbers are based on the FCS suggested rates which do take into consideration the rise in consumption rates and the capital surcharge –

OPTION 1
30% OFF BASE & SURCHARGE



<i>Based on residential 5/8" meter Monthly Rate per Customer</i>	2021	2022	2023	2024
Base + Surcharge	\$32.65	\$39.80	\$45.83	\$49.61
Monthly Discount per Customer	(9.80)	(11.94)	(13.75)	(14.88)
Annual Discount per Customer	(117.60)	(143.28)	(165.00)	(178.56)
Projected Participation <i>Based on 3% program growth</i>	154	159	163	168
Annual Budgetary Requirement	\$18,110.40	\$22,781.52	\$26,895.00	\$29,998.08

Budgetary requirement does not include overhead costs. This is the cost of the discount only.

OPTION 2
40% OFF BASE & SURCHARGE



<i>Based on residential 5/8" meter Monthly Rate per Customer</i>	2021	2022	2023	2024
Base + Surcharge	\$32.65	\$39.80	\$45.83	\$49.61
Monthly Discount per Customer	(13.06)	(15.92)	(18.33)	(19.84)
Annual Discount per Customer	(156.72)	(191.04)	(219.96)	(238.08)
Projected Participation <i>Based on 3% program growth</i>	154	159	163	168
Annual Budgetary Requirement	\$24,134.88	\$30,375.36	\$35,853.48	\$39,997.44

Budgetary requirement does not include overhead costs. This is the cost of the discount only.

OPTION 3
30% OFF BASE &
100% OFF SURCHARGE



<i>Based on residential 5/8" meter Monthly Rate per Customer</i>	2021	2022	2023	2024
Base + Surcharge	\$32.65	\$39.80	\$45.83	\$49.61
Monthly Discount per Customer	*keep current (12.73)	(15.44)	(17.25)	(19.78)
Annual Discount per Customer	(152.76)	(185.28)	(206.99)	(237.40)
Projected Participation <i>Based on 3% program growth</i>	154	159	163	168
Annual Budgetary Requirement	\$23,525.04	\$29,459.52	\$33,739.04	\$39,882.53

Budgetary requirement does not include overhead costs. This is the cost of the discount only.

COMPARISON ANNUAL BUDGET REQUIREMENT



<i>Based on residential 5/8" meter</i>	2021	2022	2023	2024
Current Discount	\$23,525.04	\$25,891.56	\$31,139.52	\$33,485.76
<u>Option 1</u> 30% Discount	\$18,110.40	\$22,781.52	\$26,895.00	\$29,998.08
<u>Option 2</u> 40% Discount	\$24,134.88	\$30,375.36	\$35,853.48	\$39,997.44
<u>Option 3</u> 30% Base 100% Surcharge	\$23,525.04	\$29,459.52	\$33,739.04	\$39,882.53

Budgetary requirement does not include overhead costs. This is the cost of the discount only.



AGENDA REPORT

DATE: July 6, 2021
TO: Board of Commissioners
FROM: Jean Hall, Service Director
RE: Post COVID – Residential Arrears Recovery Plan

BACKGROUND: The COVID-19 pandemic and the shut-down of normal business practices created significant economic hardship on businesses and those dependent on those businesses for their livelihood. Among the protections for citizens put in place by the Governor's office in March of 2020 was Proclamation 20-23. This proclamation established a moratorium on utility disconnects and the charging of fees.

Currently, the PUD has more than 1100 residential customer accounts that are in arrears. Some of these accounts have not had a payment made on them since late 2019, these are the accounts that would have been disconnected the week that the PUD stopped normal collection processes.

ANALYSIS/FINDINGS: The PUD needs to resume disconnects as permitted by the Governor's office. In addition, the PUD needs to support our customer-owners by allowing extended payment arrangements and putting them in touch with assistance agencies such as St. Vincent De Paul and OlyCAP. The attached presentation lays out staff's plan to resume collections.

FISCAL IMPACT: Slow recovery of receivables

RECOMMENDATION: For information/Discussion only



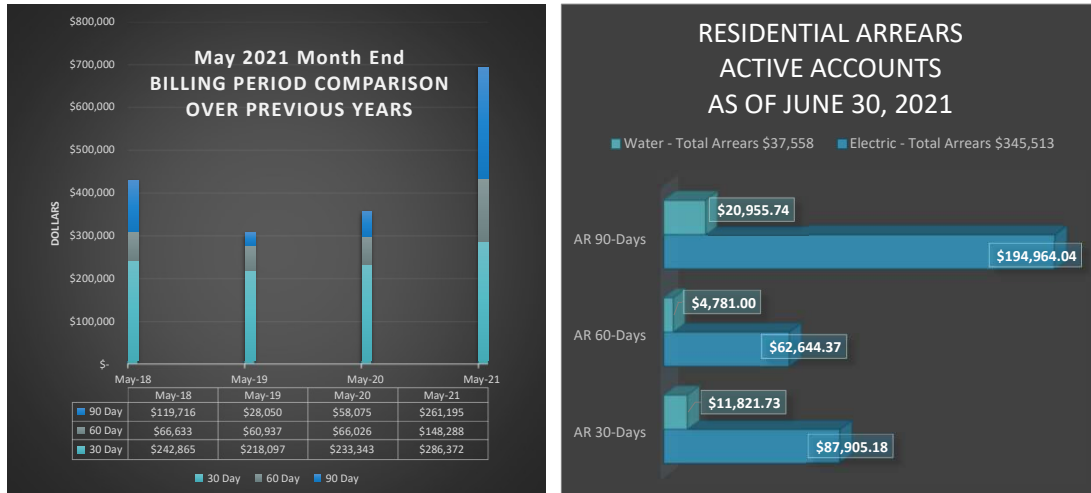
Residential Arrears Recovery

Payment Arrangements & Disconnects

I will entertain questions from the Board throughout the presentation, but request that public questions and comments be held until after the presentation.

Current Position –

1100+ ACTIVE RESIDENTIAL ACCOUNTS IN ARREARS



The Month End graph on the left shows the total for ALL arrears. All revenue classes, all services, budget billing accounts, and both active and inactive accounts. The graph on the right shows only active water and electric accounts and does not include budget billing balances. These are the balances for the accounts that will be included in the delinquent collection process and potentially disconnected. Budget billing will be used to set up extended payment arrangements in some cases. Once we start making these types of arrangements with customers, budget billing receivables will be included in all arrearage reports.

Current Measures

- Past Due Notice on Statement
- Delinquent Notice Letters w/COVID insert (pictured next slide)
- Automated Phone Calls
- Personal Phone Calls to 90-day arrears
- Actively Promoting WA-211, OlyCAP & St. Vincent
- Frequent Communication w/ OlyCAP & St. Vincent
- Offering Extended Payment Arrangements
- Offering Budget Billing



These are the current measures we are taking and have been since the onset of COVID. The only difference being, we have updated the COVID insert and are now only sending with delinquent letters.



Proclamation 20-23 which issued a moratorium on residential utility disconnects for non-payment, is set to expire on July 31, 2021. If you are experiencing financial difficulties please contact customer service at (360) 385-5800 during business hours to set up payment arrangements and see what resources may be available to you.

Olympic Community Action Programs (OlyCAP) has multiple energy assistance programs available. For more information or to apply on-line visit their website at [//olycap.org/energy-assistance-program](http://olycap.org/energy-assistance-program), or call (360) 385-2571. There may be other resources available in your community. For a listing of community assistance resources dial 211 from your phone or go to wa211.org.

- ☐ Currently being distributed with all delinquent notices
- ☐ Same language used for June/July ROBO calls



Insert is on neon green card stock.

Disconnect Moratorium Ends July 31, 2021

(Barring Gubernatorial Extensions/Mandates)

**Disconnects
will resume
August 10th**

Prior to Disconnect

- Disconnect Notice
- Robo Call
- Personal Phone Call
- Door Hanger (no charge)
- Payment Arrangement Options –
Up to 2 years in some cases



This is fluid and will depend greatly upon state mandates. We are trying to anticipate what Governor Inslee will do once the moratorium mandated by proclamation 20-23 ends and we are ready to make any necessary adjustments. We can not forgive balances without legislation allowing us to do so.

If Service is Disconnected

*Our experience dictates
that some folks won't
reach out until service has
been disconnected*



- Customer can have service reconnected by setting up a realistic* payment arrangement
- We will accept assistance vouchers as a form of payment for reconnect
- Reconnect fee will be waived for only this initial round of disconnects coming out of the COVID-19 disconnect moratorium

*Realistic Payment Arrangements – arrangement must fit the best interests of the customer and the PUD. If the arrangement is set too high, then there is a high probability that the customer will default on the arrangement. This causes additional stress to the customer and costs the PUD more staff time for the additional collection efforts.

Extended Payment Arrangements

It is better for the PUD in the long run to allow customers to pay off balances slowly over time rather than risk receiving no payment at all



PAYMENT ARRANGEMENTS GREATER THAN 6-MONTH DURATION WILL REQUIRE THE CUSTOMER TO APPLY FOR ASSISTANCE

- Being denied assistance will **NOT** disqualify the customer from being granted the arrangement
- This is also a requirement under the standard Moratorium
- Should a customer not be able to make an agreed upon payment they must call customer service and, in most cases, will be granted an extension
- Should a customer fail to contact the PUD prior to missing a payment, service may be disconnected

We need to avoid the risk of not collecting on these debts. People, when driven to desperation will and do find ways around paying utility balances.

Deposits

*The PUD released all
deposits in 2020*



RESUME CHARGING DEPOSITS

- Resume credit checks and deposit requirement for new accounts
- Customers who default on payment arrangements and whose service is disconnected will be charged a deposit prior to reconnect
- Installment payments for deposits will be allowed

We will not require people to repay the deposits that we released. Existing customers will only have to pay a new deposit if they default on a payment arrangement, failure to communicate with customer service the need for an extension, AND service is disconnected. We will allow the deposit to be paid in installments. In many cases, OlyCAP can help with deposits.



AGENDA REPORT

DATE: July 6, 2021
TO: Board of Commissioners
FROM: Kevin Streett
RE: **JPUD/Mason 3 PUD ILA**

BACKGROUND: The PUD has been working to lease dark fiber from BPA for 4 years. It started out as a SCADA project and now has a dual purpose that includes broadband. To make this feasible we have been working with Mason 3 PUD to share the cost of the dark fiber lease.

ANALYSIS/FINDINGS: With the agreement between Mason 3 PUD and Jefferson PUD we will have connections at Discovery Bay, Quilcene, and Brinnon. These connections allow JPUD to build broadband into areas that are under and unserved.

Connecting to BPA fiber will provide our SCADA network additional capacity for smart grid operations.

FISCAL IMPACT: Lease costs are minimal and future broadband connections will help fund the project.

SCADA will contribute to the cost as we connect the substation on the fiber. It will connect line equipment and other smart grid equipment.

RECOMMENDATION: For discussion only.

**INTERLOCAL AGREEMENT
BETWEEN THE JEFFERSON COUNTY PUD NO. 1 AND
PUBLIC UTILITY DISTRICT NO. 3 OF MASON COUNTY**

This Interlocal Agreement ("Agreement") made and entered into this ____ day of _____, 2021, pursuant to the provisions of Chapter 39.34 RCW, the Interlocal Cooperation Act (the "Act"), by and between Jefferson County PUD No. 1 ("JPUD") and Public Utility District No. 3 Of Mason County ("PUD 3") (collectively referred to as "the Parties").

WHEREAS, JPUD and PUD 3 are Washington state Public Utility Districts; and

WHEREAS, RCW 39.34.080 permits Public Utility Districts to contract with one another for the performance of certain governmental services. Under the Act, Public Utility Districts may enter into agreements with one another for joint or cooperative action. and

WHEREAS, JPUD has entered into a construction agreement with the Bonneville Power Agency ("BPA") for construction of certain fiber optic connections to BPA facilities that connect to both JPUD and PUD 3 owned facilities and a portion of the work will be completed by PUD 3 to benefit its system; and

WHEREAS, in order to facilitate the completion of the BPA Contract, JPUD has agreed to enter into the agreement directly with BPA.

NOW, THEREFORE, based upon mutual covenants to be derived from this Agreement, the Parties agree as follows:

1. **Purpose:** It is the purpose of this Agreement to allow the Parties to cooperate and make the most efficient use of their resources by working together to complete the work outlined in the attached agreement and incorporated herein as Exhibit A (the "BPA Contract"). The fiber routes to be built are listed in Exhibit B, incorporated herein by this reference.

2. **JPUD Work.** . JPUD has entered into an agreement with BPA to provide for the construction of fiber optic facilities to be located, in part, in each Party's substations, and interconnecting with BPA as more fully described in the BPA Contract. JPUD has agreed to build certain fiber optic connections to BPA's facilities at Happy Valley, Fairmont, Quilcene, Duckabush, and Potlatch Substations, and assume all costs related to its improvements. '

3. **PUD 3 Work.** PUD 3 has agreed to complete a portion of the work in the BPA Contract, assume all costs related to that work, as further described in the BPA Contract and Exhibit B. JPUD and PUD 3 agree to allocate between them the costs of the BPA Contract, and allow each Party the future use of dark fiber constructed pursuant to the BPA Contract.

4. Hold Harmless and Indemnification: Each party (the “Indemnitor”) shall hold the other (the “Indemnatee”), harmless, indemnify and defend the other, its board or commission members, officers, officials, employees and agents, from and against any and all claims, actions, suits, liability, loss, expenses, damages, and judgments of any nature whatsoever, including, but not limited to, reasonable costs and attorneys’ fees in defense thereof, for injury, sickness, disability or death to persons or damage to property or business, caused by or arising out of the performance of this contract, its employees, agents, or subcontractors or anyone for whose acts any of them may be liable, except for injuries and damages caused by the sole negligence of the Indemnatee. If the claim, suit or action involves concurrent negligence of the Parties, the indemnity provisions provided herein shall be applicable only to the extent of the percentage of each party's negligence. It is further specifically and expressly understood that the indemnification provided herein constitutes each party’s waiver of immunity under Industrial Insurance, Title 51 RCW, solely for the purposes of this indemnification. This waiver has been mutually negotiated by the parties. The provisions of this Section shall survive the expiration or termination of this Contract.

5. Insurance: The PUD is self-insured through its membership in the Pacific Underwriters Management Services. PUD 3 is self-insured through its membership in the _____. Within 30 days of executing this Agreement the JPUD and the PUD 3 shall mutually provide to each other certificates of coverage from their respective Risk Pools. Both Parties agree that not less than thirty(30) days prior to cancellation, suspension, reduction or material change in the membership of a party in its respective Risk Pool, notice of same shall be given to the other party by registered mail, return receipt requested and by email. The Parties further agree that their membership in their respective Risk Pools provide coverage for the following categories of risk and with coverage limits that equal or exceed what is listed below:

General Liability—with a minimum limit per occurrence of one million dollars 1,000;000) and an aggregate of not less than two million dollars(\$ 2, 000,000) for bodily injury, death and property damage unless otherwise specified in the contract specifications.

Business Automobile Liability coverage— with a minimum limit per occurrence of one million dollars(\$1,000,000) and an aggregate of not less than two million dollars \$2,000,000). Said coverage shall include liability coverage for all owned, non- owned and hired motor vehicles.

Worker's Compensation insurance with minimum limits not less than that required by state law.

Errors and Omissions for Professional Services Provided

Each party to this Agreement agrees that the coverage provided to it by its membership in its respective Risk Pool shall be primary with respect to any third- party claim presented to that party for the alleged negligent act and omissions of its employees, contractors or representatives. With respect to all claims of third- party liability against one party to this Agreement the coverage provided to the OTHER party by its membership in a Risk Pool shall be non- contributory.

6. **Compliance with Laws:** Each party hereto, in its performance of this Agreement, agrees to comply with all applicable local, State, and Federal laws and ordinances.

7. **Relationship of the Parties:** No agent, employee or representative of any party shall be deemed to be an agent, employee or representative of any other party for any purpose, and the employees of one party are not entitled to any of the benefits any other party provides to its employees. The relationship between PUD 3 and GHPUD is that of independent contractors and nothing in this Agreement shall be construed to create a partnership, joint venture, or agency relationship between PUD 3 and JPUD.

8. **Assignment.** Neither party shall assign, sublease, transfer or convey this Agreement without the prior written consent of the other party, which consent shall be in such party's sole discretion

9. **Agreement Not for Benefit of Third Parties:** This Agreement is entered into solely for the benefit of the Parties hereto and vests no rights in, or is it enforceable by, any third parties.

10. **Dispute Resolution:** In the event any dispute should occur under this Agreement or related to the performance of any person or equipment, the dispute shall be referred to the General Manager of JPUD and the General Manager of PUD 3 for resolution. If not resolved within (30) days of referral, either party may pursue such legal actions as it may have available.

11. **Waiver and Venue:** A failure by any party to exercise its rights under this Agreement shall not preclude that party from subsequent exercise of such rights and shall not constitute a waiver of any other rights under this Agreement unless stated to be such in a writing signed by an authorized representative of the party and attached to the original Agreement. This Agreement will be governed by the laws of the State of Washington, both as to interpretation and performance. Any action at law, suit in equity or other judicial proceeding for the enforcement of this agreement may be instituted only in a court of competent jurisdiction in the State of Washington, County of Jefferson.

12. **Duration and Termination:** This Agreement shall commence and be effective upon execution and remain in full force and effect until terminated by agreement of the Parties, or by written notice of termination given by one party to the other party at least thirty (30) days prior to the date of such termination.

13. **Severability:** If any provision of this Agreement or any provision of any document incorporated by reference shall be held invalid, such invalidity shall not affect the other provisions of this Agreement which can be given effect without the invalid provision, if such remainder conforms to the requirements of applicable law and the fundamental

purpose of this agreement, and to this end the provisions of this Agreement are declared to be severable.

14. Entire Agreement – Modification: The written provisions and terms of this Agreement supersede all prior written and verbal agreements and/or statements by any representative of the Parties, and those statements shall not be construed as forming a part of or altering in any manner this Agreement. This Agreement shall contain the entire Agreement between the parties unless modified in writing and signed by authorized representatives of the Parties.

15. Filing: Pursuant to RCW 39.34.040, this Agreement shall be posted on the JPUD and PUD 3 websites and/or filed with the County Auditor.

In Witness Whereof, the parties have executed this Agreement this ____ day of _____, 2021.

JEFFERSON COUNTY PUD NO. 1

**PUBLIC UTILITY DISTRICT NO. 3, MASON
COUNTY**

Kevin Streett, General Manager

Annette Creekpaum General Manager

EXHIBIT A

**CONSTRUCTION CONTRACT BETWEEN
JEFFERSON COUNTY PUD NO. 1 OF JEFFERSON COUNTY, WASHINGTON
AND
BONNEVILLE POWER ADMINISTRATION**

EXHIBIT B

DESCRIPTION OF FIBER ROUTES ALLOCATED TO JPUD AND PUD 3

JPUD Fiber Lease Project

1. JPUD and Mason 3 will lease 2 BPA dark Fiber from Port Angeles to Olympia
2. JPUD will lease dark fiber from Port Angeles to Duckabush +
3. Mason 3 will lease dark fiber from Potlatch + to Olympia
4. JPUD and Mason 3 will interconnect at Duckabush
5. JPUD and Mason 3 will share the fiber lease cost between Potlatch and Duckabush.

Happy Valley Substation

1. BPA determines existing dark fiber that was terminated for NoaNet and assigns these fibers to JPUD and Mason 3
2. JPUD will connect through NoaNet for conductivity
3. JPUD will try and utilize the leased fiber to Port Angeles
4. JPUD will coordinate with NoaNet for any new equipment required at Happy Valley

Fairmont Substation

1. JPUD will run fiber from Discovery Bay Substation to Fairmont
2. BPA will splice fiber in front of Fairmont substation along Hwy. 101: PDF site view named Fairmont BPA Fiber Vault
3. JPUD will install C/O at Discovery Bay Substation
4. JPUD will coordinate with NoaNet and others for equipment and engineering

Quilcene Substation

1. JPUD will run fiber/conduit from BPA fiber vault to JPUD building
2. BPA will splice fiber in front of Quilcene substation along East Quilcene Rd. PDF site view named BPA Quilcene Fiber Vault
3. JPUD equipment is under review
4. JPUD will coordinate with NoaNet and others for equipment and engineering

Duckabush Substation (Mason 1)

1. Mason 3 will run fiber/conduit to new equipment site
2. Mason 3 and JPUD to work out inter connection agreement and shared costs
3. JPUD will install network equipment and coordinate with Mason 3, NoaNet and others

New fiber from Discovery Bay Substation to 310 Four Corners

1. JPUD will install fiber from Discovery Bay Substation to Four Corners C/O ~ 7.5 miles
2. Equipment at Discovery Bay Substation will be capable of re-routing traffic over the BTOP fiber or the BPA leased fiber

3. JPUD will coordinate with NoaNet and others for engineering, network design and equipment requirements.

**U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
AGREEMENT**

1. AGREEMENT NUMBER	2. AGREEMENT EFFECTIVE FROM DATE IN BLOCK 4 UNTIL	3. AMENDMENT NO.	4. EFFECTIVE DATE
20TP-12112	See Section 11 of the Division of Responsibilities Statement	-1-	Same as Block #17

ISSUED TO		ISSUED BY	
5. ORGANIZATION AND ADDRESS Public Utility District No. 1 of Jefferson County ATTN: Mr. Kevin Streett, General Manager 310 Four Corners Road Port Townsend, WA 98368		6. ORGANIZATION AND ADDRESS U.S. Department of Energy Bonneville Power Administration ATTN: Christine Wiese – TPCC/TPP-4 P.O. Box 61409 Vancouver, WA 98666	
7. TECHNICAL CONTACT Lori Rae	PHONE NUMBER (360) 385-8358	8. TECHNICAL CONTACT Andy Lavin	PHONE NUMBER (360) 619-6329
9. ADMINISTRATIVE CONTACT Kevin Streett	PHONE NUMBER (360) 385-8360	10. ADMINISTRATIVE CONTACT James Hall	PHONE NUMBER (360) 619-6057

11. TITLE/BRIEF DESCRIPTION OF WORK TO BE PERFORMED UNDER THIS AGREEMENT

AMENDMENT NO. 1: CONSTRUCTION ACTIVITIES ASSOCIATED WITH PUBLIC UTILITY DISTRICT NO. 1 OF JEFFERSON COUNTY'S PROPOSED FIBER OPTIC PROJECT AT OLYMPIA, SHELTON, POTLATCH, DUCKABUSH, QUILCENE, FAIRMONT, HAPPY VALLEY AND PORT ANGELES SUBSTATIONS

Background: Reimbursable Agreement No. 20TP-12112 (Agreement) between the Bonneville Power Administration (BPA) and Public Utility District No. 1 of Jefferson County (Jefferson) provided for BPA, at Jefferson's expense, to perform engineering, real property and environmental reviews of Jefferson's proposed fiber optic connection to facilities at Olympia, Shelton, Potlatch, Duckabush, Quilcene, Fairmont, Happy Valley and Port Angeles Substations (Project).

Amendment No. 1: This Amendment No. 1 (Amendment) to the Agreement provides for the break out of construction activities at each facility, division of responsibilities, ownership, operation and maintenance of installed materials, access privileges, environmental compliance obligations, and the additional funding required to complete this Project. Specific duties are defined in the attached Division of Responsibilities Statement.

This Amendment is between BPA and Jefferson. All references to "customer fiber" refer to the Jefferson leased fibers on BPA's Olympia-Port Angeles dark fiber route with splice points at the aforementioned facilities. This Amendment makes occasional reference to Public Utility District No. 1 of Mason County (Mason 1), Public Utility District No. 3 of Mason County (Mason 3) and Northwest Open Access Network (NoaNet) because Jefferson intends to sublease fiber optic cable to Mason 1, Mason 3 and NoaNet. Where this Amendment calls for BPA to perform work on or within Mason 1, Mason 3 or NoaNet facilities or property, such work is contingent on Jefferson first providing BPA with written permission from the facility or property owner to access and perform such work. During the performance of BPA work on Mason 1, Mason 3 and NoaNet property, Jefferson shall provide a Jefferson representative to accompany BPA personnel to the work site.

This Amendment is hereby incorporated and made a part of the original Agreement and is subject to all the provisions therein. All provisions of the original Agreement, unless expressly deleted, modified, or otherwise superseded in the Amendment shall continue to be binding on all parties hereto.

The following documents are attached to and become a part of this Amendment:

- Division of Responsibilities Statement, Amendment No. 1
- Financial Terms and Conditions Statement, Amendment No. 1 (FTC)

12. AMOUNT TO BE PAID BY BPA \$-0-		13. AMOUNT TO BE PAID TO BPA \$35,000 (estimated-see FTC)	
14. SUBMIT SIGNED AMENDMENT TO U.S. Department of Energy Bonneville Power Administration ATTN: Christine Wiese – TPCC/TPP-4 P.O. Box 61409 Vancouver, WA 98666		15. ACCOUNTING INFORMATION <i>(For BPA Use Only)</i>	
		16. SUBMIT INVOICE TO <i>(Name and Address)</i> Same as Block #5 above.	
PARTICIPANT		BPA	
17. APPROVED BY <i>(Signature)</i>	DATE <i>(mm/dd/yyyy)</i>	18. APPROVED BY <i>(Signature)</i>	DATE <i>(mm/dd/yyyy)</i>
NAME AND TITLE		NAME AND TITLE Transmission Account Executive Transmission Sales	

BPA and Jefferson hereby agree as follows:

1. DIVISION OF RESPONSIBILITIES

(a) BPA shall, at Jefferson's expense:

(1) At BPA's Olympia Substation:

- (A)** Provide a BPA representative to open Customer Vault(s) (CV(s)) as needed and to supervise splicing in any CV. The anticipated splicing will occur in AF 2CV1 SC1A.
- (B)** Perform necessary splicing to connect customer fiber to BPA optical fibers located in Bonneville Vault(s) (BV(s)). The anticipated splicing will occur in AF 2BV.

(2) At BPA's Shelton Substation:

- (A)** Provide a BPA representative to open CV(s) as needed and to supervise splicing in any CV. The anticipated splicing will occur in RN 1CV1 and RN 1CV2.
- (B)** Perform necessary splicing to connect customer fiber to BPA optical fibers located in BV(s). The anticipated splicing will occur in BY 2BV and RN 1BV.

(3) At BPA's Potlatch Substation:

- (A)** Provide a BPA representative to open CV(s) as needed and to supervise splicing in any CV. The anticipated splicing will occur in ASM 3CV. BPA will supply a 3M splice case and the cable connecting the two vaults.
- (B)** Review trenching routes to BV(s) so that cable can be installed, linking Jefferson/Mason 3's system with BPA's system. The trench will run from a fiber vault near Mason 3 S/N: 600-01 to ASM 3CV, approaching the wall of the vault at a right angle.
- (C)** Perform necessary splicing to connect customer fiber to BPA optical fibers located in BV(s). The anticipated splicing will occur in ASM 3CV.

(4) At Mason 1's Duckabush Substation:

- (A)** BPA work at Mason 1's Duckabush Substation is contingent on Jefferson first providing BPA with Mason 1's written permission to access and perform work at Mason 1's Duckabush Substation. During the performance of BPA work

DIVISION OF RESPONSIBILITIES STATEMENT

at Mason 1's Duckabush Substation, BPA personnel shall be accompanied by a Jefferson representative.

- (B) Provide a BPA representative to open CV(s) as needed and to supervise splicing in any CV. The anticipated splicing will occur in ASM 6CV.
 - (C) Review trenching routes to BPA vaults (review assesses the route for adverse impacts to BPA equipment). Trenching routes will connect Jefferson/Mason 3's system to BPA's system. The trench will go from a fiber cabinet and vault to ASM6 CV.
 - (D) Review cabinet and vault locations to prevent adverse impacts to BPA equipment.
 - (E) Perform necessary splicing to connect customer fiber to BPA optical fibers located in BV(s). The anticipated splicing will occur in ASM 6 BV.
- (5) At Jefferson's Quilcene Substation:
- (A) Provide a BPA representative to open CV(s) as needed and to supervise splicing in any CV. The anticipated splicing will occur in RN 358CV.
 - (B) Review trenching routes to BPA vaults to connect Jefferson's system to BPA's system.
 - (C) Perform necessary splicing to connect customer fiber to BPA optical fibers located in BV(s). The anticipated splicing will occur in RN 358BV. See Section 1(a)(9), Note Pertaining to Sections 1(a)(5)(C) and 1(a)(6)(B).
- (6) At BPA's Fairmont Substation:
- (A) Provide a BPA representative to open BPA owned CVs as needed and to supervise splicing in any BPA owned CV. The anticipated splicing will occur in FAMT 1CV and BPA will provide a 3M splice case.
 - (B) Perform necessary splicing to connect customer fiber to BPA optical fibers located in BVs. The anticipated splicing will occur in ASM 9BV and EL 313RBV. See Section 1(a)(9), Note Pertaining to Sections 1(a)(5)(C) and 1(a)(6)(B).

- (7) At BPA's Happy Valley Substation:
 - (A) Provide a BPA representative to open CV(s) as needed and to supervise splicing in CV(s). Anticipated splicing will occur in HAPY 1CV and HAPY 2CV.
 - (B) Perform necessary splicing to connect customer fiber to BPA optical fibers located in BV(s). Anticipated splicing will occur in PY 100BV and ASM 10BV.
- (8) At BPA's Port Angeles Substation:
 - (A) Provide a BPA representative to open CV(s) as needed and to supervise splicing in CV(s). Anticipated splicing will occur in ASM 13CV.
 - (B) Perform necessary splicing to connect customer fiber to BPA optical fiber located in BV(s). Anticipated splicing will occur in PY 223BV.
 - (C) The Port Angeles-Happy Valley fiber section will be leased by Jefferson, but will not likely be used.
- (9) Note Pertaining to Sections 1(a)(5)(C) and 1(a)(6)(B). The splices described under Sections 1(a)(5)(C) and 1(a)(6)(B) may not be necessary because the required connections already exist or because they will not be used. If splices exist, Jefferson will only be charged for the time required to verify splicing. Jefferson will arrange for the use of an Optical Time Domain Reflectometer (OTDR) to verify and characterize the route. To save on field verification costs, the results will be shared with BPA and will help establish where work is needed. If connectivity questions still exist after the OTDR test, vaults will be opened and splices verified to ensure connectivity and reliability of service. The substations where splices likely already exist are Olympia, Shelton, Happy Valley, and Port Angeles Substations.

(b) Jefferson shall, at Jefferson's expense:

- (1) At BPA's Olympia Substation:
 - (A) Obtain permission from NoaNet to connect inside NoaNet's fiber cabinet.
 - (B) Perform any necessary fiber splicing, with BPA supervision, inside of CV(s). The only anticipated splicing is in AF 2CV1 SC1A. See Section 1(b)(9), Note Pertaining to Section 1(b)(1)(B).

DIVISION OF RESPONSIBILITIES STATEMENT

- (2) At BPA's Shelton Substation:
 - (A) Perform any necessary fiber splicing, with BPA supervision, inside of CV(s). The anticipated splicing will occur in RN 1CV1 and RN 1CV2.
 - (B) Connect fibers from NoaNet's portion of Mason 3's Mt. View Collocation Building to Mason 3's network equipment within the same building.
- (3) At BPA's Potlatch Substation:
 - (A) With BPA supervision, trench along pre-approved path to ASM3CV using trench detail laid out in DWG 255593 and 338269. Trench must conform to a minimum of HL-93 loading standards to accommodate heavy vehicle loading.
 - (B) With BPA supervision, install non-conductive fiber conduits in the trench using a 4" SCH 80 PVC pipe with two innerducts, bundling ducts together about every 2 meters. Metallic locate wire SHALL NOT BE USED on BPA property or rights of way. Follow detail provided in BPA DWG 255283, DWG 255593 and 338269. Conduit shall be oriented at approximate right angles to the vault walls, be terminated flush with the inside of the vaults, be grouted in place, and contain two pulling ropes in addition to the innerducts. Install fiber within the appropriate innerduct.
 - (C) With BPA supervision, provide and install Omni Marker Balls along the path of the new underground conduit. Omni Marker Balls shall be placed at the beginning, at the end, at every deflection point, and at 40' increments (or less) along path of underground conduit. Provide and install cable marker posts above each Omni Marker Ball. Detail is provided in BPA DWG 260147.
 - (D) Perform any necessary fiber splicing, with BPA supervision, inside of CV(s). The anticipated splicing will occur in ASM 3CV. BPA will supply a 3M splice case.
- (4) At Mason 3's Duckabush Substation:
 - (A) With BPA supervision, trench along pre-approved path to ASM6CV using trench detail laid out in DWG 255593 and 338269. The trench must conform to a minimum of HL-93 loading standards to accommodate heavy vehicle loading.

- (B) Provide BPA with an as-built drawing of the trench route referenced in 1(b)(4)(A).
 - (C) With BPA supervision, install non-conductive fiber conduits in the trench, bundling ducts together about every 2 meters. Metallic locate wire SHALL NOT BE USED on BPA property or rights of way. Detail is provided in BPA DWG 255283, DWG 255593 and 338269. Conduit shall be oriented at approximate right angles to the vault walls, be terminated flush with the inside of the vaults, be grouted in place, and contain two pulling ropes in addition to the innerducts. Install fiber within the appropriate innerduct.
 - (D) With BPA supervision, provide and install Omni Marker Balls along path of the new underground conduit. Omni Marker Balls shall be placed at the beginning, at the end, at every deflection point, and at 40' increments (or less) along path of underground conduit. Provide and install cable marker posts above each Omni Marker Ball. Detail is provided in BPA DWG 260147.
 - (E) With BPA supervision, install a vault and fiber cabinet on the south/southeast side of the existing QWEST fiber cabinet. Prior to installation/construction, Jefferson shall consult with BPA on the location of the fiber cabinet.
 - (F) Perform any necessary fiber splicing, with BPA supervision, inside of CV(s). The anticipated splicing will occur in ASM6CV.
- (5) At Jefferson's Quilcene Substation:
- (A) With BPA supervision, trench from the preexisting fiber cabinet along pre-approved path to RN358CV using trench detail laid out in DWG 255593 and 338269. The trench must conform to a minimum of HL-93 loading standards to accommodate heavy vehicle loading.
 - (B) With BPA supervision, install non-conductive fiber in the trench using a 4" SCH 80 PVC pipe with three 1 ¼" innerducts, bundling cables together about every 2 meters. Metallic locate wire SHALL NOT BE USED on BPA property or rights of way. Detail is provided in BPA DWG 255283, DWG 255593 and 338269. Conduit shall be oriented at approximate right angles to the vault walls, be terminated flush with the inside of the vaults, be grouted in place, and contain pulling ropes within each of the innerducts.

DIVISION OF RESPONSIBILITIES STATEMENT

- (C) With BPA supervision, provide and install Omni Marker Balls along path of the new underground conduit. Omni Marker Balls shall be placed at the beginning, at the end, at every deflection point, and at 40' increments (or less) along path of underground conduit. Provide and install cable marker posts above each Omni Marker Ball. Detail is provided in BPA DWG 260147.
- (D) Perform any necessary fiber splicing, with BPA supervision, inside of CV(s). The anticipated splicing will occur in RN 358CV.
- (6) At BPA's Fairmount Substation:
 - (A) Perform any necessary fiber splicing, with BPA supervision, inside of CVs. The anticipated splicing will occur in FAMT 1CV and BPA will provide a 3M splice case.
 - (B) Perform all work and obtain all permits necessary to route fiber back up structure and over 101 to Jefferson land.
- (7) At BPA's Happy Valley Substation:
 - (A) Obtain permission from NoaNet to connect inside their fiber cabinet.
 - (B) Perform any necessary fiber splicing, with BPA supervision, inside of CV(s). Anticipated splicing will occur in HAPY 1CV and HAPY 2CV.
- (8) At BPA's Port Angeles Substation:
 - (A) Obtain permission from NoaNet to connect inside their fiber cabinet.
 - (B) Perform any necessary fiber splicing, with BPA supervision, inside of CV(s). Anticipated splicing will occur in ASM 13CV.
 - (C) The Port Angeles-Happy Valley fiber section will be leased by Jefferson, but will not likely be used.
- (9) Note Pertaining to Section 1(b)(1)(B). Some of the splices described under Section 1(b) may not be necessary because the required connections already exist or because they will not be used. If splices exist, Jefferson will only be charged for the time required to verify splicing. Jefferson will arrange for the use of an OTDR to verify and characterize the route. The results will be shared with BPA and will help establish where work needs to be performed to save on field verification costs. If connectivity questions still exist after the OTDR

test, vaults will be opened and splices verified to ensure connectivity and reliability of service. The substations where splices likely already exist are Olympia, Shelton, Happy Valley, and Port Angeles Substations.

2. OWNERSHIP, OPERATION AND MAINTENANCE

- (a) BPA shall, at BPA's expense, own, operate and maintain the BV(s), CV(s), all of the fiber inside the BV(s), the conduit and fiber between the BV(s) and CV(s), the fiber that enters the CV(s) from the BV(s) all the way to the splice cases, and the splice cases themselves.

Locations where construction is anticipated:

- (1) Potlatch Substation: ASM3BV, ASM3CV, the conduit and fiber running between ASM3BV and ASM3CV, the fiber extending from the conduit in the CV up to the splice case, and the splice case itself.
- (2) Duckabush Substation: ASM6BV, ASM6CV, the conduit running between ASM6BV and ASM6CV, the fiber extending from the conduit in the CV up to the splice case, and the splice case itself.
- (3) Quilcene Substation: RN358BV, RN358CV, the conduit and fiber running between RN358BV and RN 358CV, the fiber extending from the conduit in the CV up to the splice case, and the splice case itself.
- (4) Fairmount Substation: FAMT1CV, the fiber extending from the conduit in the CV up to the splice case, and the splice case itself.

- (b) Jefferson shall, at Jefferson's expense, own, operate and maintain (or ensure that Jefferson's sublessee owns, operates and maintains to industry standards) the fiber and hardware from their external systems to the entrance of the CV(s), including conduit, trenches, fiber, Omni marker balls, and cable marker posts. Jefferson will also own, operate, and maintain (or ensure that Jefferson's sublessee owns, operates and maintains to industry standards) the fiber connecting to the BPA fiber leased by Jefferson that extends into the CV(s) from their external system, up to the splice case. If those splices/fiber routes already exist, Jefferson will, without the involvement of BPA, purchase, lease or enter into a written agreement with the current owner to allow for the operation and maintenance of the fiber from the splice case to Jefferson's system (or to the system of Jefferson's sublessee) and provide BPA with the terms of those agreements for archival purposes.

Locations where construction is anticipated and may impact Jefferson hardware or hardware owned Jefferson's sublessee:

- (1) Potlatch Substation: the fiber extending from their external system into ASM3CV up to the splice case. (Mason 3).

- (2) Duckabush Substation: the fiber extending from their external system into ASM6CV up to the splice case. (Mason 3).
- (3) Quilcene Substation: the fiber extending from their external system into RN358CV up to the splice case. (Jefferson).
- (4) Fairmount Substation: the fiber extending from their external system into FAMT1CV up to the splice case. (Jefferson).

3. ACCESS

Jefferson grants BPA access to enter Jefferson's Quilcene Substation described under this Amendment at all reasonable times and in accordance with safety and security requirements in order to access the equipment installed by BPA under Section 1(a) above, as long as such equipment remains within Jefferson's facilities.

BPA grants Jefferson access to enter its facilities described under this Amendment at all reasonable times and in accordance with BPA's safety and security requirements currently in effect in order to access the equipment installed by Jefferson under Section 1(b) above, as long as such equipment remains within BPA's facilities.

4. RELATED AGREEMENTS

Fiber License Agreement, Contract No. 21TX-17092.

5. ENVIRONMENTAL COMPLIANCE

Upon execution of this Amendment, the parties may proceed with all preliminary engineering and project management work. The performance of all construction work under this Amendment is contingent on BPA's completion of its environmental review process under the National Environmental Policy Act (NEPA), if applicable, as BPA shall determine. After completion of this process BPA will decide whether to proceed with the construction work and, if so, whether modifications to such work should be made based on the NEPA review. BPA reserves the right to choose any alternatives considered in the NEPA process, including the no-action alternative, and nothing in this Amendment shall be construed as obligating BPA to proceed with construction work under this Amendment or to allow Jefferson to proceed with construction work under this Amendment before BPA has completed the NEPA review process and made a decision regarding how to proceed. If BPA decides that modifications to the construction work under this Amendment should be made, the parties shall modify their respective obligations under this Amendment to be consistent with such modifications.

6. UNCONTROLLABLE FORCES

The parties shall not be in breach of their respective obligations to the extent the failure to fulfill any obligation is due to an Uncontrollable Force. "Uncontrollable Force" means an event beyond the reasonable control of, and without the fault or negligence of, the party claiming the Uncontrollable Force, that prevents that party from performing its contractual obligations under this Amendment and which, by exercise of that party's reasonable care, diligence and foresight, such party was unable to avoid. Uncontrollable Forces include, but are not limited to:

- (a) strikes or work stoppage;
- (b) floods, earthquakes, fire, or other natural disasters; terrorist acts; epidemics, pandemics and
- (c) final orders or injunctions issued by a court or regulatory body having competent subject matter jurisdiction which the party claiming the Uncontrollable Force, after diligent efforts, was unable to have stayed, suspended, or set aside pending review by a court of competent subject matter jurisdiction.

Neither the unavailability of funds or financing, nor conditions of national or local economies or markets shall be considered an Uncontrollable Force. The economic hardship of either party shall not constitute an Uncontrollable Force. Nothing contained in this provision shall be construed to require either party to settle any strike or labor dispute in which it may be involved.

If an Uncontrollable Force prevents a party from performing any of its obligations under this Amendment, such party shall: (1) immediately notify the other party of such Uncontrollable Force by any means practicable and confirm such notice in writing as soon as reasonably practicable; (2) use its best efforts to mitigate the effects of such Uncontrollable Force, remedy its inability to perform, and resume full performance of its obligation hereunder as soon as reasonably practicable; (3) keep the other party apprised of such efforts on an ongoing basis; and (4) provide written notice of the resumption of performance. Written notices sent under this section must comply with Section 7, Notices.

7. NOTICES

Any notice or other communication related to this Amendment shall be delivered in person, by email, First Class mail or overnight delivery service to the Technical or Administrative contact set forth above. Notices are effective on the date received.

8. LIMITATION OF LIABILITY

Neither party shall be liable to the other party for any lost or prospective profits or any special, punitive, exemplary, consequential, incidental or indirect losses or damages under this Amendment.

Jefferson is solely responsible to BPA for damage to United States (BPA) property caused by Jefferson, and its employees, contractors, and agents. Jefferson is also solely responsible for any claims arising out of negligent conduct by its employees, contractors, and agents performing the work described in this Amendment on or at United States-owned (BPA-owned) real property, facilities, or equipment. Any claim for personal injury, death, or property damage against BPA (the United States) must be made in accordance with the Federal Tort Claims Act, 28 U.S.C. §§ 1346(b), 1402(b), 2401(b), and ch. 171. Jefferson and its contractors must carry general liability insurance in the amount of at least \$1 million for all performance under this Amendment, and the policy must name the United States/BPA as an additional insured.

9. COVID-19 PANDEMIC

Based on the evolving situation with the COVID-19 pandemic, and following the issuance of orders and other guidance by governmental authorities and public health organizations calling for social distancing measures in BPA's service territory, BPA, on August 12, 2020, closed its facilities to nonessential employees and contractors and limited the resources available to perform certain types of work. BPA has now resumed construction work. The future availability of BPA employees and contractors to perform certain types of work under this Amendment may be subject to change based on BPA's future responses to the COVID-19 pandemic.

10. PROJECT SCHEDULE

Work under this Amendment shall commence upon BPA's receipt of a signed Amendment and payment of the amount listed in the attached Financial Terms and Conditions Statement. The estimated timeframe for conducting the work under this Amendment is six months. BPA reserves the right to modify the project schedule by providing written notice to Jefferson of the schedule change.

11. TERMINATION

This Amendment shall become effective upon execution by both parties and shall terminate upon full performance by both parties of their respective obligations as set forth herein, but in no event shall the term of this Amendment exceed five years from its effective date.

FINANCIAL TERMS AND CONDITIONS STATEMENT

BPA's cost of performing the project at Jefferson's expense shall be the actual cost of doing the work specified in this Amendment, plus an overhead rate of 41%, representing the indirect costs of the project office plus the contractual support costs of contract negotiation, billing and accounting functions, and contract management.

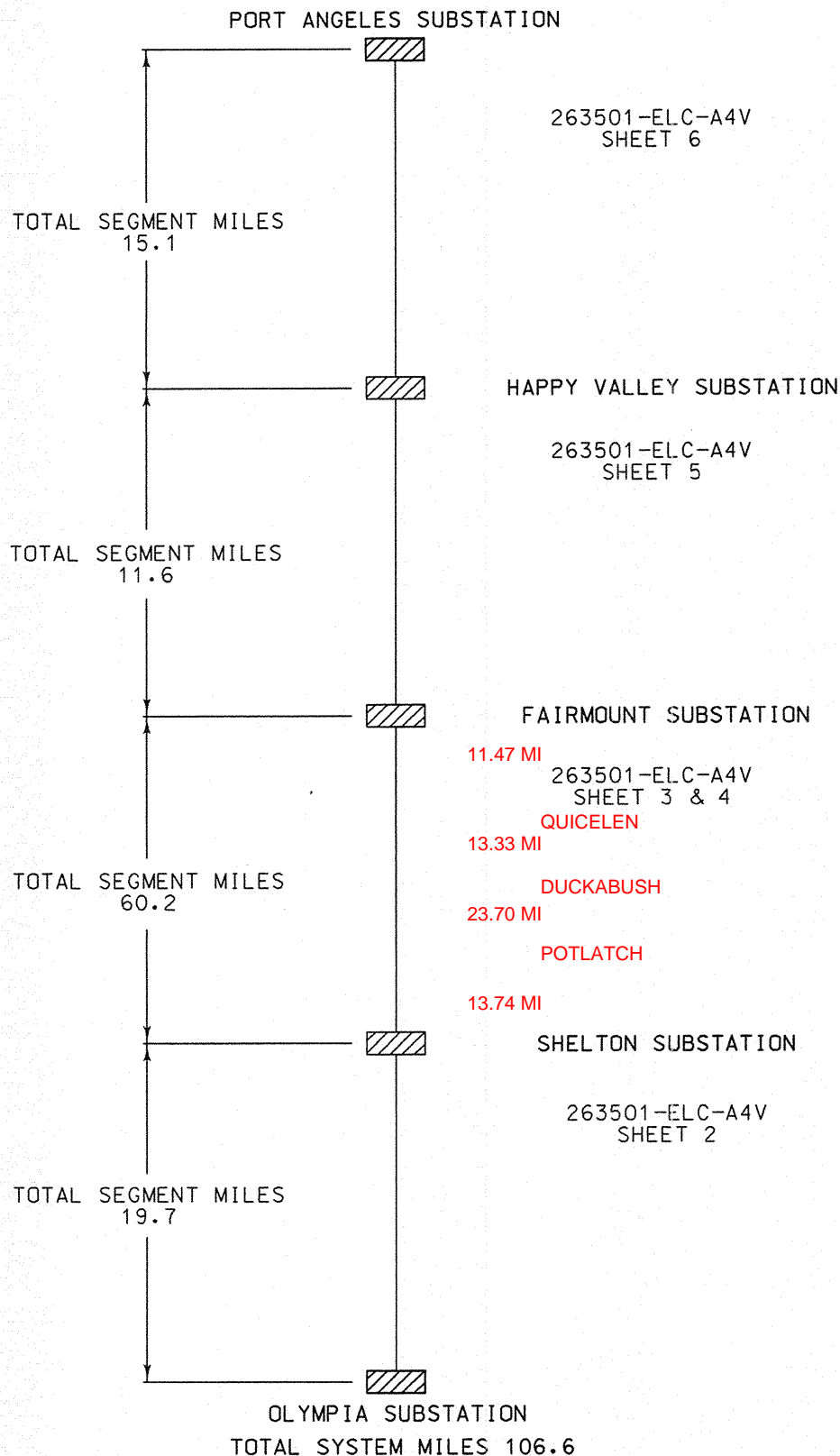
Jefferson hereby agrees to advance \$35,000, the estimated project cost, to BPA based on the following payment schedule:

Payment	Amount	Date Due
1	\$10,000	<i>Received July 28, 2020</i>
2	\$ 5,000	<i>Additional funding received October 19, 2020</i>
3	\$20,000	Upon execution of this Amendment

Payments made to BPA will be held in an account established for this Amendment. If BPA needs additional funds to complete the work at any time during performance of the project, BPA may request, in writing, for Jefferson to advance such additional funds to BPA for deposit in the account. Jefferson shall advance such additional funds within 30 days of BPA's written request, and BPA may temporarily stop work until Jefferson supplies the requested funds. If Jefferson does not advance such additional funds by the due date or, if at any time before completion of the project Jefferson elects to stop work under this Amendment, BPA has the right to cease all work and restore, as a cost to the project at Jefferson's expense, government facilities and/or records to their condition prior to the beginning of work under this Amendment.

Within a reasonable time after completion of the project, or if this Amendment terminates because BPA has decided not to proceed after completing its NEPA review, BPA shall make a full accounting to Jefferson showing the actual costs charged against the account. BPA shall either remit any unexpended balance in the account to Jefferson or bill for any costs in excess of the deposits in the account. Jefferson shall pay any excess costs within 30 days of the invoice date (due date).

Payments not received by the due date will accrue interest on the amount due beginning the first calendar day after the due date to the date paid, at an annual interest rate equal to the higher of i) the prime rate (as reported in the Wall Street Journal in the first issue published during the month in which payment by Jefferson is due) plus 4 percent; or ii) such prime rate multiplied by 1.5.



LINE SECTIONS OF THE OLYMPIA-PORT ANGELES FIBER SYSTEM

OPERATING NAME	ONE-LINE DRW. NO.
OLYMPIA-KITSAP NO 3	78263A
SHELTON-FAIRMOUNT NO 1	85462
FAIRMOUNT-PORT ANGELES NO 1	177561

1		CORRECTED SHEET NUMBERS		CDC	10/22/03	1-1						
NO.	*	PLS	25798	COMPUTER REVISION ONLY								
* C=CONTRACT CONSTRUCTION, FA=FORCE ACCOUNT, R=RECORD				BY	DATE	APPROVED						
APPROVED				UNITED STATES DEPARTMENT OF ENERGY BONNEVILLE POWER ADMINISTRATION HEADQUARTERS, PORTLAND, OREGON								
COMPILED	W. SCHROEDER		FIBER OPTIC ONE-LINE DIAGRAM OLYMPIA-PORT ANGELES FIBER SYSTEM SUMMARY DIAGRAM									
DRAWN	L. SURRETT											
CHECKED	G. MCQUELLAN											
APPROVED	FRW											
Date	6-4-02		Serial	263501	Source	ELC	Size	A4V	Sheet	1 OF 6	Revision	1



AGENDA REPORT

DATE: July 6, 2021
TO: Board of Commissioners
FROM: Kevin Streett
RE: **New Construction Rates**

BACKGROUND: The PUD set the current construction rates with resolution 2020-004. Since that time, we have had increases in labor, material, fuel, and equipment.

The PUD has offered an overhead option for new construction. While this is less expensive for the new customers, it does cost existing customers in outage response and maintenance.

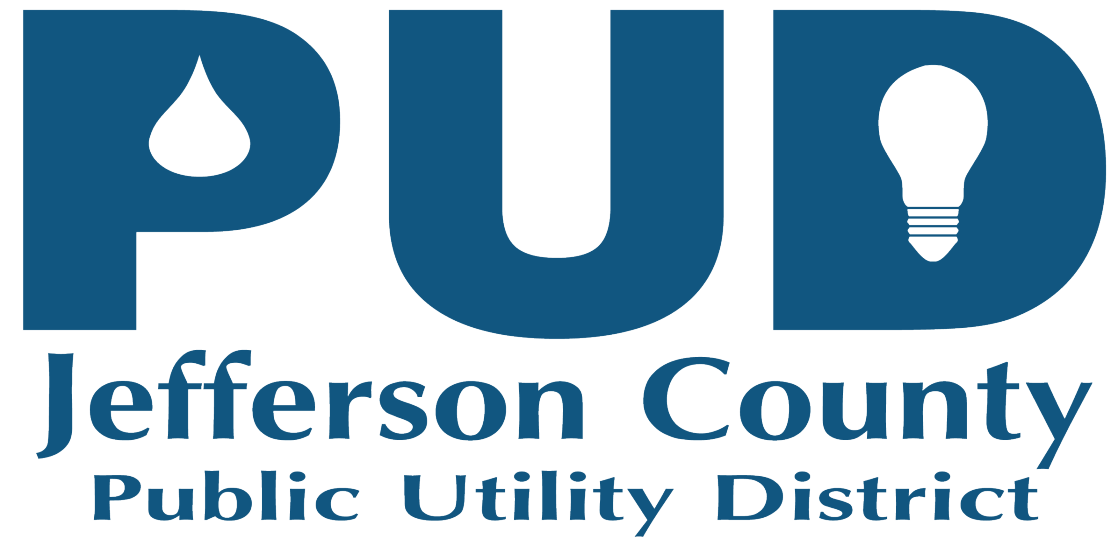
ANALYSIS/FINDINGS: As material costs go up the PUD must raise our rates. Most of the increases are at 10% and will help recover our cost for new construction. This recommendation is one step in making growth pay for growth.

The restriction on overhead construction will reduce outage costs, increase reliability, reduce wildfire concerns, reduce maintenance costs, and help modernize our grid.

FISCAL IMPACT: New construction rates will help cover the increases in labor, material, fuel, and equipment.

Restriction on overhead will reduce cost out into the future.

RECOMMENDATION: For discussion only.



Underground vs. Overhead Distribution

Scott Bancroft, Operations Director

July 6, 2021

National Undergrounding Trends

- Many municipalities, co-ops and utilities have made rules requiring new distribution facilities to be placed underground.
- Costs of new underground distribution covered by developers and ultimately paid by property owners.
- Provide better protection from storm damage and improve reliability of the power system.
- Better prevention from wildfires.



Underground Construction and Storm Protection.

- Underground construction can improve the reliability of the electric power system by minimizing damage to the system from:
 - High winds.
 - Ice and snow-storms.
 - Falling trees
- If part of the system is impervious to storm caused damage, faster restoration of the system is possible.





Underground Electrical Construction and Fire Protection.

- Underground prevents Downed Lines:
- Underground prevents Vegetation Contact.
- Underground prevents Conductor Slap.



At the time of this presentation the Jefferson County PUD year to date has had 1,150-hours of outages.

Reasons for the outage are broken down into the following categories:

- 8 Tree Growth
- 90 Tree Overhang
- 25 Small Animal
- 16 Equipment Failure
- 59 Other





Undergrounding of dip poles.

A dip pole is a utility pole with overhead conductor that has underground wire coming down the pole into the ground.

Dip poles are used in our system as an easier, less costly way for a customer to cross a State or County roadway.

What saves the customer monetarily is not always the best long-term solution for the PUD.



As of this presentation the cost for a customer to install a dip pole is \$1,800

Once the dip pole is installed it is the responsibility of the PUD to maintain. The cost is about \$1,550 per dip pole every 4-7 years.

The cost of a customer to bore under a roadway is about \$3,200 Once the conduit is installed underground, maintenance costs are negligible.



Overhead secondary service lines are PUD owned conductor that spans from a utility pole along a roadway to the customers property. Maintenance of the overhead secondary service is the responsibility of the property owner.

Some property owners do a great job of maintaining the secondaries. Some do not as shown in the pictures above. PUD will be called at some point to replace both secondary service lines.



Overhead Pros

- Lower initial cost.
- Quicker construction.
- Easier to spot damage and faults.
- Less expensive to repair and upgrade
- Can be built in any terrain

Overhead cons

- Susceptible to wind, ice and snow.
- More vulnerable to damage from trees and vegetation, which requires right of way trimming.
- Vulnerable to blinks when animals and branches contact lines
- Susceptible to damage from vehicle collisions.
- Less attractive.
- Higher long-term maintenance costs to the PUD.



Underground Pros

- Not vulnerable to damage from tree branches.
- Does not interfere with views.
- No right of way (tree trimming) required.
- Less susceptible to damage from vehicle collisions.
- Not impacted by wind, ice and snow.
- Less vulnerable to blinks when animals and branches contact lines.
- The tree trimming budget will decrease as the overhead distribution is replaced.

Underground Cons

- More expensive to build initially but lower long term maintenance costs.
- Fed by overhead lines at some point making the lines vulnerable to outages and interruptions. *NOTE: As PUD undergrounds more of our distribution this issue will diminish.*
- Can be vulnerable to dig-ins.

Staff respectfully
requests the
Board adopt the
new more
restrictive policy
on new overhead
construction.

Thank you.

**PUBLIC UTILITY DISTRICT NO. 1
OF
JEFFERSON COUNTY**

RESOLUTION NO. 2021-XXX

A RESOLUTION of the Board of Commissioners of the Public Utility District No 1 of Jefferson County, Washington (“the PUD”), revising Exhibits B of Resolution 2020-004 and adopting various construction rates for electric services.

WHEREAS, the PUD staff has reviewed PUD Resolution 2020-004 and its (“Exhibit B”): Schedule of Deposits and Charges and Electrical Line Extension Unit Prices; and

WHEREAS, the PUD staff has revised construction rates for new services to reflect an increase in labor and material rates; and

WHEREAS, new service quotes issued prior to **New Date**, 2021 with rates set under Resolution 2020-004, shall be honored through the quote expiration date, which is 90 days after the issue date; and

WHEREAS, Schedule of Deposits and Charges (“Exhibit B”) has been revised for electric.

NOW, THEREFORE, BE IT RESOLVED, by the Board of Commissioners of Public Utility District No. 1 of Jefferson County, Washington as follows:

The PUD adopts the revised rates in the exhibit titled “Public Utility District No. 1 of Jefferson County Schedule of Charges for Electric Services (“Exhibit B”)”, attached hereto and incorporated by reference, effective **DATE XX**.

ADOPTED by the Board of Commissioners of Public Utility District No. 1 of Jefferson County, Washington, at a regular open meeting held this ___th day of XXX 2021.

Dan Toepper, President

Kenneth Collins, Vice President

ATTEST:

Jeff Randall, Secretary



AGENDA REPORT

DATE: July 6, 2021
TO: Board of Commissioners
FROM: Kevin Streett
RE: **Draft Retail and Wholesale Broadband Rates**

BACKGROUND: The PUD has not revised its rates for broadband services since 2018. Since that time many circumstances have changed. The PUD has completed two phases of Strategic Planning for broadband. Washington state has made it legal for PUDs to become retail ISPs; and the PUD BOC has voted to approve staff's request for the PUD to become a retail ISP. Amidst all this change, the PUD has continued to connect wholesale customers to its network using the old pricing model developed before the PUD's studies and before retail authority was granted.

ANALYSIS/FINDINGS: In consultation with CCG consulting, who performed the PUD's Broadband business planning study, staff have drafted new rates for wholesale and retail broadband services. The proposed rates better reflect the goals of the PUD's broadband business plan, which uses a growth model to increase revenues. Revised wholesale rates are necessary to meet the needs of existing wholesale customers and to encourage expansion of the network. New retail rates are needed to conduct financial modeling for grant applications.

FISCAL IMPACT: Wholesale rates will reduce revenue on a per customer basis but will improve total revenues received by providing lower prices for ISPs and end users. The retail rates will allow the PUD to achieve profitability over time as described in our Broadband business plan.

RECOMMENDATION: For discussion only, no vote required.

Jefferson County PUD
RATE SCHEDULE
Wholesale Broadband Services
Effective XX/XX/2021

- A. The rates listed on this schedule are available to qualified Internet Service Providers (ISPs) desiring to use the PUD's wholesale fiber optic network. The PUD reserves the right, at its sole option to discontinue services listed in this rate schedule at anytime.
- B. All wholesale fiber optic and wireless network services provided by the PUD are subject to the terms and conditions in the PUD's Telecommunications Policies, as may be amended from time-to-time.
- C. The amount of any tax levied by any governmental entity at any level, and in accordance with the laws of the State of Washington, will be added to the charges shown in this rateschedule.
- D. Rates listed in all tables below are monthly recurring charges unless otherwise noted.
- E. The products delivered with Residential Ethernet Services and Business Ethernet Services are intended to serve a single User location. It is prohibited to use the bandwidth from these products to connect to or sell services to additional customer locations.
- F. The District's fiber optic network is able to provide other features such as dark fiber, point-to-multipoint VLANs, and other backhaul solutions. The District is willing to sell such services under contractual arrangements. Please contact the District at broadband@jeffersonPUD.org to discuss your needs.
- G. The PUD may enter into contractual arrangements with an RSP for any services not included on this rate sheet, on an individual case basis. The PUD must get Board approval for any contract greater than \$1,000 in monthly recurring fees.

Set-up of New Service Provider	\$250 non-recurring. This is applied one time for a new RSP.
Residential Ethernet Services:	
100/100 Mbps Basic Access (per unique premises) Tier 1 technical support provided 24/7, higher tiers of support available only during PUD's normal business hours. Includes data and/or Ethernet voice ports	\$35

250/250 Mbps Basic Access (per unique premises) Tier 1 technical support provided 24/7, higher tiers of support available only during PUD's normal business hours. Includes data and/or Ethernet voice ports	\$40
1 Gbps/1 Gbps Basic Access (per unique premises) Tier 1 technical support provided 24/7, higher tiers of support available only during PUD's normal business hours. Includes data and/or Ethernet voice ports	\$45
Premium Support (per unique premises) Added to any of the above products. Provides priority restoration following network outages.	\$10
Business Ethernet Services:	
100/100 Mbps Basic Access (per unique premises) Tier 1 technical support provided 24/7, higher tiers of support available only during PUD's normal business hours. Includes data and/or Ethernet voice ports	\$40
250/250 Mbps Basic Access (per unique premises) Tier 1 technical support provided 24/7, higher tiers of support available only during PUD's normal business hours. Includes data and/or Ethernet voice ports	\$45
1 Gbps/1 Gbps Basic Access (per unique premises) Tier 1 technical support provided 24/7, higher tiers of support available only during PUD's normal business hours. Includes data and/or Ethernet voice ports	\$50
Premium Support (per unique premises) Added to any of the above products. Provides priority restoration following network outages.	\$15
Customer VLAN Off-Network Services: (Includes Premium Support)	
100 Mbps port – Month-to-Month billing	\$500
100 Mbps port – 3-Year Contract	\$300
100 Mbps port – 5-Year Contract	\$200
250 Mbps port – Month-to-Month billing	\$700
250 Mbps port – 3-Year Contract	\$500
250 Mbps port – 5-Year Contract	\$300
1 Gbps port – Month-to-Month billing	\$1,100
1 Gbps port – 3-Year Contract	\$900

1 Gbps port – 5-Year Contract	\$650
Collocation:	
The following are monthly recurring charges for collocating equipment in District Facilities. The rates include cabinet or rack space, access to 20 amp AC power, and keyed entry for Customer access.	
Full Rack Space	\$500
Half Rack Space	\$250
One-Third Rack Space	\$170
One-Fourth Rack Space	\$125
DC Power – per each 5 amps of total installed breaker capacity	\$18
Labor Charges. To be applied per hour to any work requested by Customer that is not included in a standard installation. Minimum charge is for ½ hour of time.	
Standard Labor Charge	\$100 per hour
Overtime Labor Charge	\$150 per hour
Connection Fee per new Service Drop	Installation is generally free for any drop of 1,000 feet or less. The PUD reserves the right to apply special construction charges for drops over that length. The PUD also reserves the right to bill extra charges for shorter drops that require construction under a significant amount of concrete or pavement.

Jefferson County PUD
RATE SCHEDULE
Retail Broadband Services
Effective XX/XX/2021

- A. The rates listed on this schedule are available to residents and businesses who are within reach to connect to the Jefferson PUD fiber network. The PUD reserves the right, at its sole option to discontinue or modify services and prices listed in this rate schedule at any time.
- B. All retail broadband and related services provided by the PUD are subject to the terms and conditions in the PUD's Retail Telecommunications Policies, as may be amended from time-to-time.
- C. The amount of any tax levied by any governmental entity at any level of government, and in accordance with the laws of the State of Washington, will be added to the charges shown in this rateschedule.
- D. Rates listed in all tables below are monthly recurring charges unless otherwise noted.
- E. All payment-related terms and conditions such as late payment fees, charges for bad checks, etc. are subject to the PUD Customer Service Policies.
- F. The PUD may enter into contractual arrangements with a customer for any services not included on this rate sheet, on an individual case basis. The PUD must get Board approval for any contract greater than \$1,000 in monthly recurring fees.

Residential Retail Rates:	
Broadband	
Connection Fee per new Service Drop	Installation is generally free for any drop of 1,000 feet or less. The PUD reserves the right to apply special construction charges for drops over that length. The PUD also reserves the right to bill extra charges for shorter drops that require construction under a significant amount of concrete or pavement.
100/100 Mbps Broadband Access Unlimited usage with no data caps.	\$65

250/250 Mbps Broadband Access Unlimited usage with no data caps	\$75
1 Gbps/1 Gbps Broadband Access Unlimited usage with no data caps	\$90
Premium Service Adds to any rate above. Guarantees evening and weekend repair services for outages caused by the PUD network.	\$20
Wi-Fi Modem Rental	\$10
Voice over IP Telephone Service	
Local Telephone Line with numerous features and unlimited long distance calling to the continental United States and a few other countries.	\$20
Business Retail Rates:	
Broadband	
100/100 Mbps Broadband Access Unlimited usage with no data caps.	\$75
250/250 Mbps Broadband Access Unlimited usage with no data caps	\$85
1 Gbps/1 Gbps Broadband Access Unlimited usage with no data caps	\$100
Premium Service Adds to any rate above. Guarantees evening and weekend repair services for outages caused by the PUD network.	\$25
Wi-Fi Modem Rental	\$10
Voice over IP Telephone Service	
Local Telephone Line with numerous features and unlimited long distance calling to the continental United States and a few other countries.	\$30
Labor Charges	
To be applied per hour to any work requested by customer that is not included in a standard installation. Applies to both residential and business customers. Minimum charge is for ½ hour of time.	
Standard Labor Charge	\$100 per hour
Overtime Labor Charge	\$150 per hour



AGENDA REPORT

DATE: July 6, 2021
TO: Board of Commissioners
FROM: Will O'Donnell
RE: Resolution Authorizing Submittal of NTIA Grant Application

BACKGROUND: The Washington State Broadband Office (WSBO) is requesting project information in response to the National Telecommunications and Information Administration (NTIA) Broadband Infrastructure Program Funding Opportunity announced in May 2021. The WSBO will serve as a central coordinating body to apply on behalf of Washington State for the NTIA grant opportunity and is initially soliciting project information from eligible project partners who wish to join the WSBO application on behalf of Washington State for NTIA broadband infrastructure funding.

The NTIA has \$288 million available for grant awards and expects to award project grants in amounts ranging from \$5 million to \$30 million. The WSBO will commit state matching funds of up to 10% for the combined state grant application. **Project Information is due to the State Broadband Office is due at 5pm July 7, 2021.** To be considered for partnership, prospective applicants must have an approved resolution from their governing body authorizing their application and approving the committal of resources to the project.

ANALYSIS/FINDINGS: Staff is currently working with CCG Consulting to craft a grant application for NTIA funding to buildout fiber to the premises for customers located along the eastern edge of the Olympic National Forest from Quilcene to Gardiner.

FISCAL IMPACT: Matching dollars for the NTIA grant will come from the state. JPUD will contribute in-kind matching via construction costs incurred to connect to BPA dark fiber.

RECOMMENDATION: Approve Resolution 2021-XXXX authorizing staff to apply for a partnership with the Washington State Broadband Office on application for NTIA funding to build middle and last mile fiber connections in the Quilcene, Discovery Bay and Gardiner areas.

**PUBLIC UTILITY DISTRICT NO.1
OF
JEFFERSON COUNTY**

RESOLUTION NO. 2021-

A Resolution of the Board of Commissioners of Public Utility District (JPUD) No. 1 of Jefferson County, Washington, authorizing submission of project information to the Washington State Broadband Office (WSBO), and committing resources to the project.

WHEREAS, JPUD is planning to extend a high-speed broadband fiberoptic network through the communities of Quilcene, Discovery Bay and Gardiner in Jefferson County, Washington; and

WHEREAS, the proposed area is both unserved and underserved in broadband infrastructure; and

WHEREAS, JPUD is seeking funding support to extend the broadband fiberoptic network through application to the National Telecommunications and Information Administration (NTIA), United States Department of Commerce through its NTIA-Broadband-Infrastructure-Program-21, and

WHEREAS, the NTIA grant requires, among other things, that the application be a “covered partnership” as further defined in the Notice of Funding Opportunity, and a “covered partnership” includes a State and a provider of fixed broadband, and

WHEREAS, JPUD qualifies as a provider of fixed broadband with the passage of SB 5383 and HB 1336 authorizing Public Utility Districts to provide wholesale and retail Internet Services, and JPUD intends to extend its fixed broadband service to an “Eligible Service Area” as defined in the Notice of Funding Opportunity to provide Qualifying Broadband Service; and

WHEREAS The WSBO will serve as a central coordinating body to apply on behalf of Washington State for the NTIA grant opportunity and has solicited project information from eligible project partners who wish to join the WSBO application on behalf of Washington State for NTIA broadband infrastructure funding; and

WHEREAS The WSBO has issued a Request for Information and will serve as a central coordinating body to apply on behalf of Washington State for the NTIA grant opportunity

and is initially soliciting project information from eligible project partners who wish to join the WSBO application on behalf of Washington State for NTIA broadband infrastructure funding; and

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of Public Utility District No. 1 of Jefferson County, that staff is hereby authorized to respond to WSBO's Request for Information and commit resources necessary to serve as a provider for fixed broadband for the proposed project in the unserved and underserved communities of the communities of Quilcene, Discovery Bay and Gardiner in Jefferson County, Washington

ADOPTED at a regular meeting of the Board of Commissioners of Public Utility District No. 1 of Jefferson County, this 6th day of July 2021.

Dan Toepper, President

Ken Collins, Vice President

ATTEST:

Jeff Randall, Secretary