



RESOLUTION NO. U-11150

1
2 A RESOLUTION related to the purchase of materials, supplies, equipment
3 and the furnishing of services; authorizing the City officials to enter into
4 contracts and, where specified, waive competitive bidding requirements,
5 authorize sale of surplus property, or increase or extend existing
6 agreements.

7
8 WHEREAS the City of Tacoma, Department of Public Utilities, requested
9 bids/proposals for the purchase of certain materials, supplies, equipment and/or
10 the furnishing of certain services, or proposes to purchase off an agreement
11 previously competitively bid and entered into by another governmental entity, or
12 for the sales of surplus, or desires to increase and/or extend an existing
13 agreement, all as explained by the attached Exhibit "A," which by this reference
14 is incorporated herein, and

15
16 WHEREAS in response thereto, bids/proposals (or prices from another
17 governmental agreement) were received, all as evidenced by Exhibit "A," and

18
19 WHEREAS the Board of Contracts and Awards and/or the requesting
20 division have heretofore made their recommendations, which may include
21 waiver of the formal competitive bid process because it was not practicable to
22 follow said process, or because the purchase is from a single source, or there is
23 an emergency that requires such waiver, and/or waiver of minor deviations, and
24 in the case of sale of surplus, a declaration of surplus has been made certifying
25 that said items are no longer essential for continued effective utility service, as
26 explained in Exhibit "A," and



1 WHEREAS the Director requests authorization, pursuant to
2 TMC 1.06.269 A, to amend contract amounts up to \$200,000 and to approve
3 term extensions and renewals for all items contained in Exhibit "A;" Now,
4 therefore,

5 BE IT RESOLVED BY THE PUBLIC UTILITY BOARD OF THE CITY OF TACOMA:

6 That the Public Utility Board of the City of Tacoma hereby concurs and
7 approves the recommendations of the Board of Contracts and Awards and/or
8 the requesting division, and approves, as appropriate: (1) the purchase and/or
9 furnishing of those materials, supplies, equipment or services recommended for
10 acceptance; (2) the sale of surplus materials, supplies or equipment
11 recommended for acceptance; (3) the Interlocal agreement that authorizes
12 purchase off another governmental entity's contract; (4) the increase and/or
13 extension of an existing agreement, and said matters may include waiver of the
14 formal competitive bid process and/or waiver of minor deviations, all as set forth
15 on Exhibit "A," and authorizes the execution, delivery and implementation of
16 appropriate notices, contracts and documents by the proper officers of the City
17 for said transactions, and (5) the administrative authority of the Director, per
18 TMC 1.06.269 A., to amend contract amounts up to \$200,000 and to approve
19 term extensions and contract renewals for all items in Exhibit "A."
20
21

22 Approved as to form:

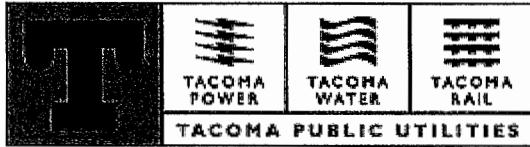
23 *[Signature]*
24 Chief Deputy City Attorney

Chair

Secretary

25 _____
26 Clerk

Adopted _____



RESOLUTION NO.: U-11150

ITEM NO.: 3

MEETING DATE: 3/25/2020

TO: Board of Contracts and Awards
FROM: Clay Norris, Tacoma Power/Power Management
Chris Juchau, Power Analyst, Tacoma Power/Power Management
COPY: Public Utility Board, Director of Utilities, Board Clerk, SBE Coordinator, , and
Seth Hartz, Finance/Purchasing
SUBJECT: Energy Imbalance Market (EIM) Software Solutions Implementation
Request for Proposals Specification No. PM19-0374F, Contract No.CW2233879
and CW2233881-3/25/2020
DATE: 3/13/2020

RECOMMENDATION SUMMARY:

The Power Management section of Tacoma Power recommends a contract be awarded to Power Costs, Inc., Norman, OK and Open Access Technologies, Minneapolis, MN, for the implementation and licensing of software that will enable Tacoma Power to participate in the California Independent System Operator's (CAISO) Energy Imbalance Market (EIM) , in the amount of \$7,940,000 (Power Costs, Inc.) and \$1,350,000 (Open Access Technologies), plus applicable taxes, for an initial contract term of seven years. There are no options included in the contracts to renew the contracts beyond the seven year term.

BACKGROUND:

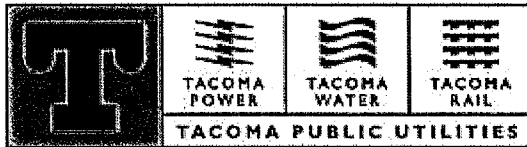
The California Independent System Operator (CAISO) Energy Imbalance Market (EIM) is an extension of the CAISO real-time bulk power centralized trading market to balancing areas outside of CAISO's footprint. Siting a cost/benefit analysis that identified likely net benefits from Tacoma Power's participation in the EIM as well as the mitigation of likely risks to the utility, the Tacoma Public Utilities Board authorized the Director of Utilities to enter into an EIM implementation agreement with CAISO on June 26th, 2019. The implementation agreement was subsequently signed in August of 2019.

The contracts submitted for approval in this C&A letter are for the procurement of software needed to join and participate in the EIM.

The contract with Power Costs, Inc., is for a software-as-a-service (SaaS) solution that will provide functionality needed for EIM participation. That functionality includes, but is not limited to: power trading, power scheduling, EIM base schedule submission, meter data management, and settlements and invoicing. The second EIM software contract is for the procurement of a SaaS generation and transmission Outage Management System (OMS).

ISSUE:

The purpose of the project is to procure and implement software that will enable Tacoma Power to safely, efficiently, and effectively participate in the EIM. While it is theoretically possible to interact with the EIM using CAISO's native interfaces, doing so would be extremely difficult. CAISO's native interfaces are bare-bones applications that are manual in nature and provide little to no situational awareness in a fast-moving, deadline driven market where a great many factors need to be constantly monitored and adjusted.



ALTERNATIVES:

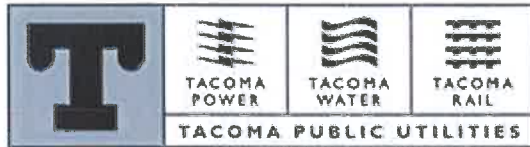
One alternative is to try and enter the EIM using CAISO's native interfaces. To-date, none of the entities that have joined the EIM, or are planning to join the EIM, have done so without the procurement and implementation of third-party software. While this could be done in theory, it would require hiring more staff than currently planned to manually perform all of the tasks that are normally automated by the third party software. It is likely that the additional staffing costs would be greater than the software costs. It is also likely that this approach would be so slow and cumbersome that Tacoma Power would not be able to make effective use of the EIM to economically dispatch its resources.

A second alternative is for Tacoma Power to attempt to build and maintain its own software suite. While there is one EIM entity that has taken this approach, due to geography that entity interacts with the EIM in a very different manner than all of the other EIM entities. This entity also has a very large information technology staff with significant experience in building applications used for power trading and scheduling. (The entity in question considers these applications to be proprietary, and is not interested in licensing or otherwise exporting their software.) Tacoma Power simply does not have the resources or experience to build and maintain its own EIM software at this point in time. This option would also likely be more expensive than procuring 3rd party software from an experienced vendor.

COMPETITIVE SOLICITATION:

Request For Proposals (RFP) Specification No. PM19-0374F was opened November 5th, 2019. Five companies were invited to bid in addition to normal advertising of the project. Four submittals were received. The RFP was structured in such a way that different vendors could be selected to supply different components. This approach was taken to give Tacoma Power the option to select best-in-class vendors for each component. The vendors were given a score based on 100 maximum possible points. The vendors were also required to respond to a cyber-security questionnaire. The scoring categories were as follows:

- Qualifications/Experience of Firm and Key Project Personnel – 20 points
- Responses to Technical Requirements – 25 points
- Project Methodology and Approach – 15 points
- Reporting Capabilities – 5 points
- Training Plan – 5 points
- Fees and Charges/Value – 15 points
- SBE/MWBE – 5 points
- Submittal Quality, Organization, and Completeness – 10 points
- Completion of Cyber-Security Worksheet – Pass/Fail



Based on their proposal, PCI was selected to provide all of the EIM software with the exception of the Outage Management System (OMS).

<u>Respondent</u> (RFP)	<u>Location</u> (city and state)	<u>Score</u>
Power Costs, Inc.	Norman, OK	88.2
Open Access Technologies Interational, Inc.	Minneapolis, MN	87.1
MCG Energy Solutions, LLC	Minneapolis, MN	86.1
Hartigen Solutions, LLC	Houston, TX	NA*

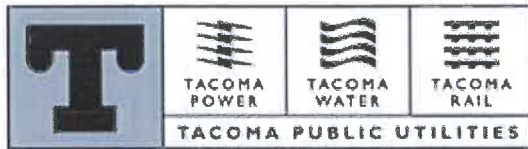
* Hartigen did not submit a proposal for one the software components included in this procurements and so cannot be scored relative to the other vendors.

OATI was selected to provide the OMS.

<u>Respondent</u> (RFP)	<u>Location</u> (city and state)	<u>Score</u>
Open Acces Technologies Internations, Inc.	Minneapolis, MN	89.7
Power Costs, Inc.	Norman, OK	87.5
MCG Energy Solutions, LLC	Minneapolis, MN	79.2
Hartigen Solutions, LLC	Houston, TX	67.9

CONTRACT HISTORY: New contract.

SBE/LEAP COMPLIANCE: There were no SBE repondents.



FISCAL IMPACT:

EXPENDITURES:

FUND NUMBER & FUND NAME *	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
Tacoma Power Fund 4700*	80000465	5310100	\$9,290,000
TOTAL			

*An EIM specific cost center is being established for costs that accrue after the current biennium.

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
TOTAL			

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$1,194,000

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Enter Yes, No, or N/A No, not for the current biennium.

IF EXPENSE IS NOT BUDGETED, PLEASE EXPLAIN HOW THEY ARE TO BE COVERED.

Staff believes the cost of procuring and implementing EIM software can be offset with budget reductions in other areas. Budget reductions have already been identified to cover the cost of EIM software in the current biennium.

Chris Robinson, Power Superintendent
Approved:

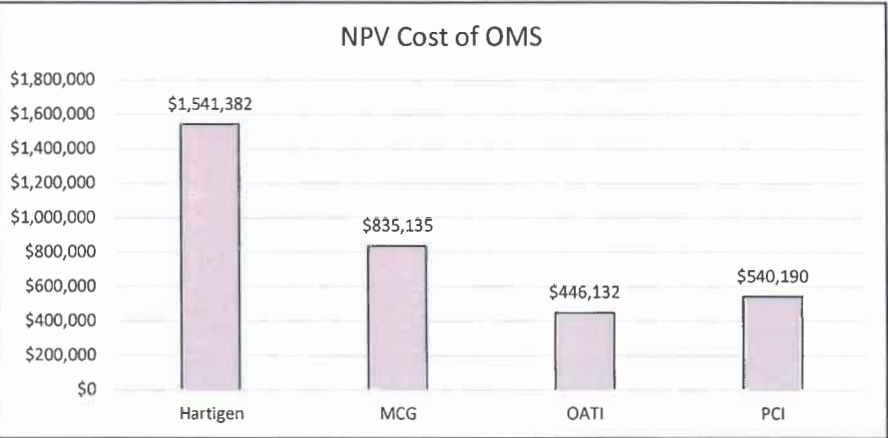
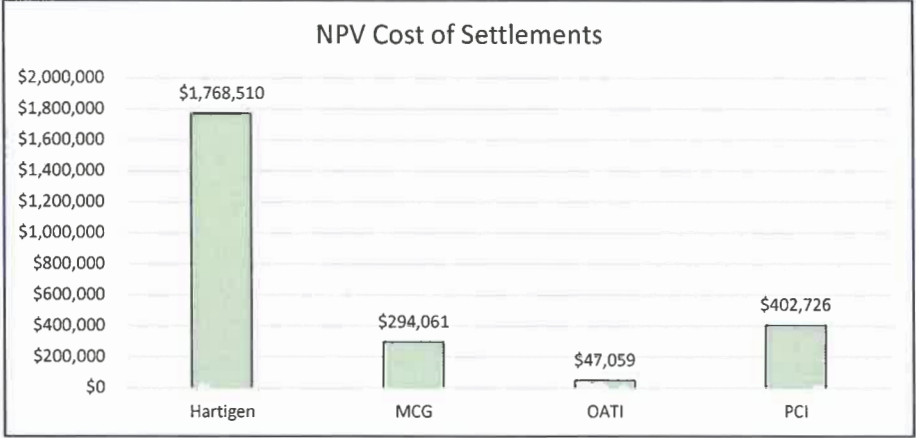
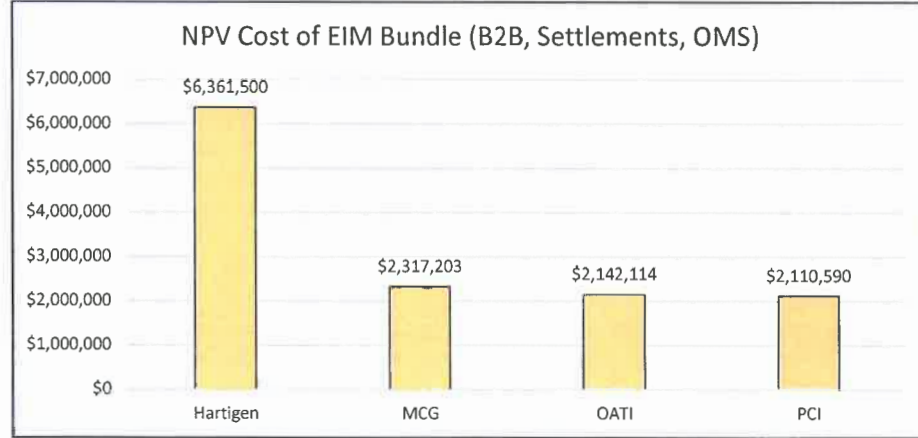
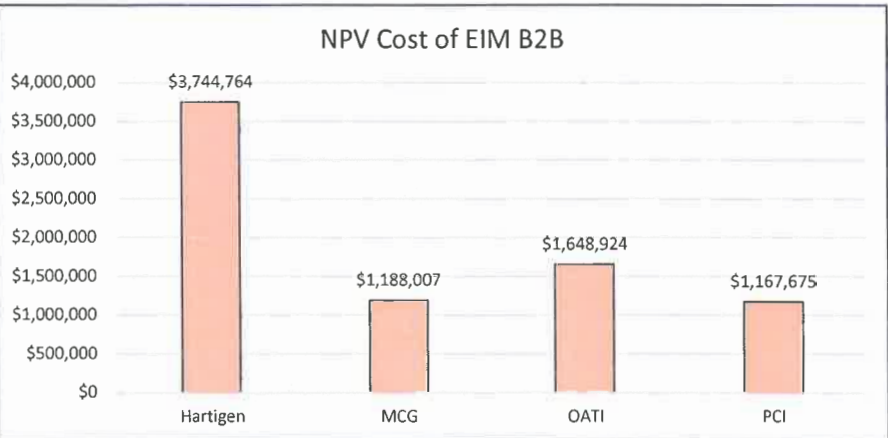
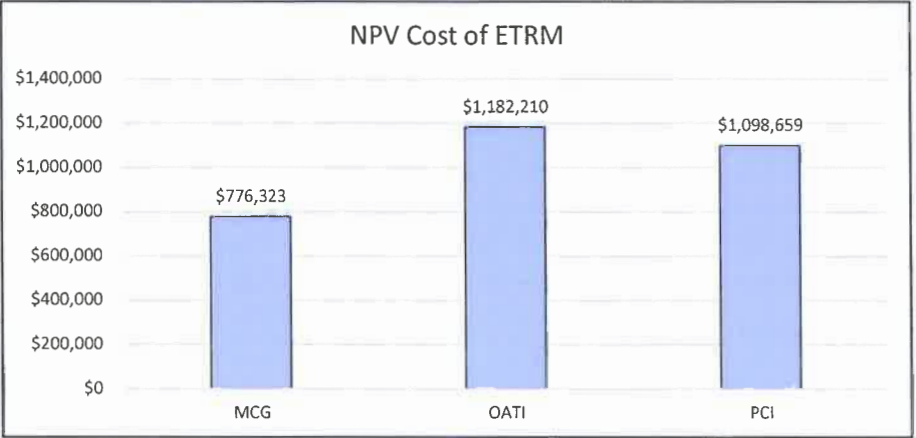
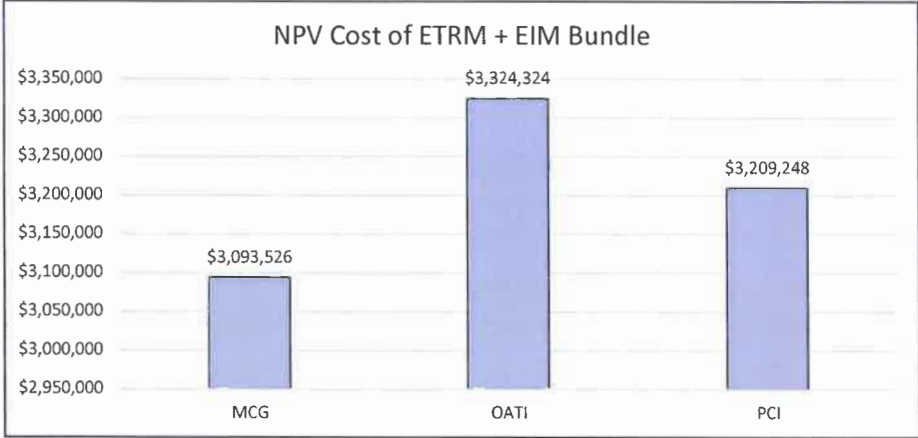
Jackie Flowers, Director of Utilities

RFP Proposal Costs				
Component	Hartigen	MCG	OATI	PCI
ETRM	NA	\$776,323	\$1,182,210	\$1,098,659
EIM B2B	\$3,744,764	\$1,188,007	\$1,648,924	\$1,167,675
Settlements	\$1,768,510	\$294,061	\$47,059	\$402,726
OMS	\$1,541,382	\$835,135	\$446,132	\$540,190
EIM Bundle	\$6,361,500	\$2,317,203	\$2,142,114	\$2,110,590
ETRM + EIM Bundle	NA	\$3,093,526	\$3,324,324	\$3,209,248

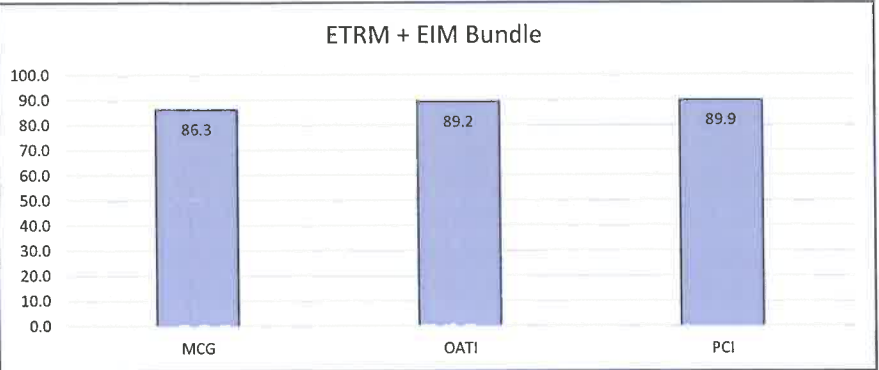
Budget Numbers			
System	Budget Item	Low	High
ETRM	All Costs	\$0	\$2,000,000
EIM	Implementation	\$2,300,000	\$4,300,000
EIM	Annual licensing	\$1,900,000	\$4,750,000
EIM Total	All EIM	\$4,200,000	\$9,050,000
ETRM + EIM	All ETRM + EIM	\$4,200,000	\$11,050,000

Note: OATI has provided a discounted price of \$2,787,624 if we purchase the entire bundle of products from them. PCI indicated in their proposal that they may also be willing to provide an "enterprise package discount", implementation credits, and complimentary optional modules if considered for all four areas of service. We could ask MCG for a bundled price as well.

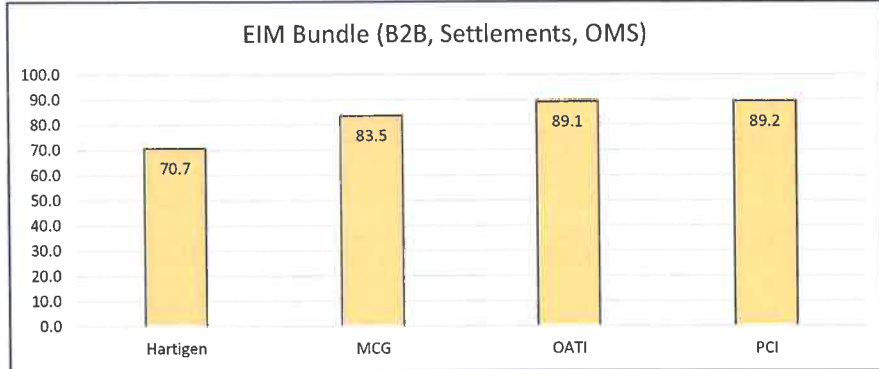
Note: NPV cost includes implementation and 5 years of licensing and maintenance



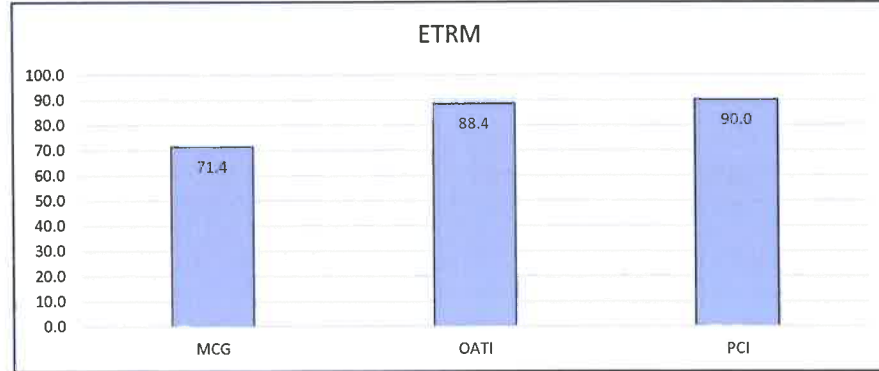
ETRM + EIM Bundle Total Score									
Criteria	SAC Members Average Scores				RFP Evaluation Matrix	Evaluation Points Awarded			
	Hartigen	MCG	OATI	PCI	Points Possible	Hartigen	MCG	OATI	PCI
Qualifications and Experience		7.2	9.6	8.5	20		14.9	20.0	17.6
Technical Requirements		10.0	9.8	10.3	25		24.1	23.7	25.0
Project Methodology		8.8	9.7	8.6	15		13.5	15.0	13.3
Reporting Capabilities		8.6	4.7	7.0	5		5.0	2.8	4.1
Training Plan		8.3	9.0	10.5	5		3.9	4.3	5.0
Fees and Charges		3.2	2.9	3.2	15		15.0	13.7	15.0
SBE, MWBE		0.0	0.0	0.0	5		0.0	0.0	0.0
Submittal Quality		9.3	9.3	9.5	10		9.8	9.8	10.0
Vendor Security Response		Acceptable	Recommended	Recommended	P/F		Pass	Pass	Pass
Sum							86.3	89.2	89.9



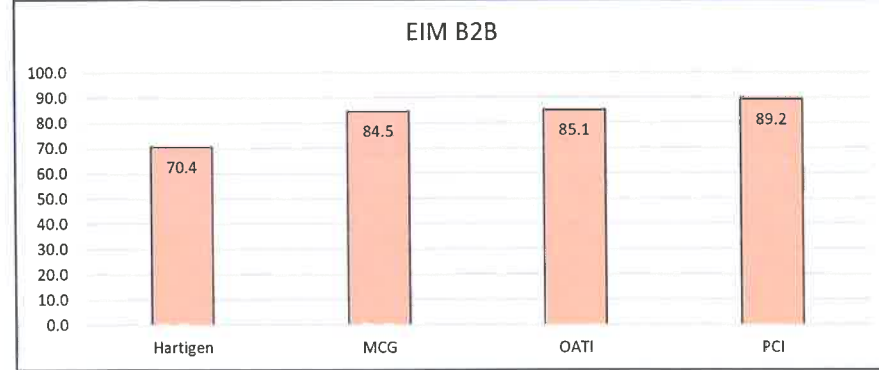
EIM Bundle (B2B, Settlements, OMS)									
Criteria	SAC Members Average Scores				RFP Evaluation Matrix	Evaluation Points Awarded			
	Hartigen	MCG	OATI	PCI	Points Possible	Hartigen	MCG	OATI	PCI
Qualifications and Experience	8.0	7.2	9.6	8.5	20	16.7	14.9	20.0	17.6
Technical Requirements	7.7	10.1	10.0	10.5	25	18.2	24.1	23.7	25.0
Project Methodology	8.2	8.8	9.7	8.6	15	12.7	13.5	15.0	13.3
Reporting Capabilities	10.0	8.6	4.7	7.0	5	5.0	4.3	2.4	3.5
Training Plan	9.4	8.3	9.0	10.5	5	4.5	3.9	4.3	5.0
Fees and Charges	1.2	4.4	4.7	5.0	15	3.6	13.2	14.1	15.0
SBE, MWBE	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0
Submittal Quality	9.7	9.3	9.3	9.5	10	10.0	9.6	9.6	9.8
Vendor Security Response	Acceptable	Acceptable	Recommended	Recommended	P/F	Pass	Pass	Pass	Pass
Sum						70.7	83.5	89.1	89.2



ETRM									
Criteria	SAC Members Average Scores				RFP Evaluation Matrix	Evaluation Points Awarded			
	Hartigen	MCG	OATI	PCI	Points Possible	Hartigen	MCG	OATI	PCI
Qualifications and Experience		7.2	9.6	8.5	20		14.9	20.0	17.6
Technical Requirements		9.6	9.3	9.9	25		24.2	23.5	25.0
Project Methodology		8.8	9.7	8.6	15		13.5	15.0	13.3
Reporting Capabilities		8.6	4.7	7.0	5		5.0	2.8	4.1
Training Plan		8.3	9.0	10.5	5		3.9	4.3	5.0
Fees and Charges		0.0	7.9	9.0	15		0.0	13.1	15.0
SBE, MWBE		0.0	0.0	0.0	5		0.0	0.0	0.0
Submittal Quality		9.3	9.3	9.5	10		9.8	9.8	10.0
Vendor Security Response		Acceptable	Recommended	Recommended	P/F		Pass	Pass	Pass
Sum							71.4	88.4	90.0



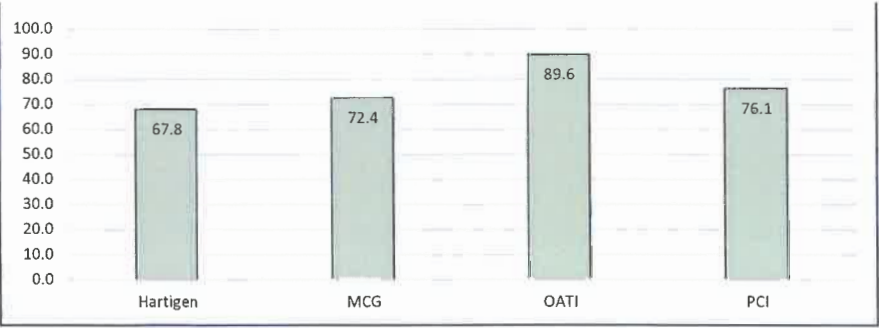
EIM B2B									
Criteria	SAC Members Average Scores				RFP Evaluation Matrix	Evaluation Points Awarded			
	Hartigen	MCG	OATI	PCI	Points Possible	Hartigen	MCG	OATI	PCI
Qualifications and Experience	8.0	7.2	9.6	8.5	20	16.7	14.9	20.0	17.6
Technical Requirements	7.7	10.1	10.0	10.5	25	18.2	24.1	23.7	25.0
Project Methodology	8.2	8.8	9.7	8.6	15	12.7	13.5	15.0	13.3
Reporting Capabilities	10.0	8.6	4.7	7.0	5	5.0	4.3	2.4	3.5
Training Plan	9.4	8.3	9.0	10.5	5	4.5	3.9	4.3	5.0
Fees and Charges	2.1	8.5	6.1	9.0	15	3.4	14.2	10.1	15.0
SBE, MWBE	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0
Submittal Quality	9.7	9.3	9.3	9.5	10	10.0	9.6	9.6	9.8
Vendor Security Response	Acceptable	Acceptable	Recommended	Recommended	P/F	Pass	Pass	Pass	Pass
Sum						70.4	84.5	85.1	89.2



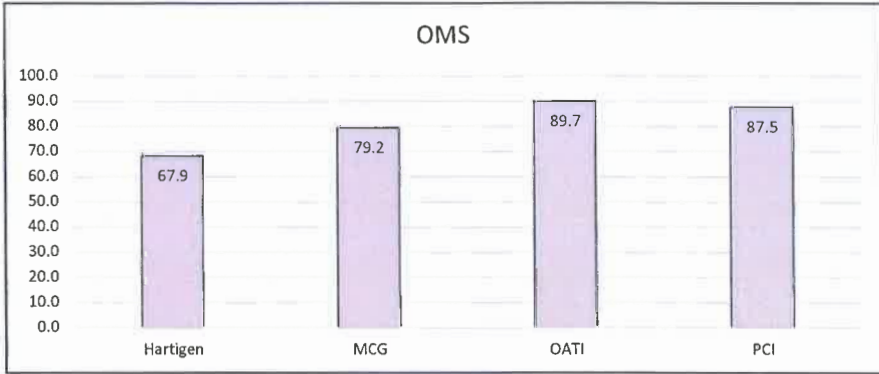
Settlements

Settlements

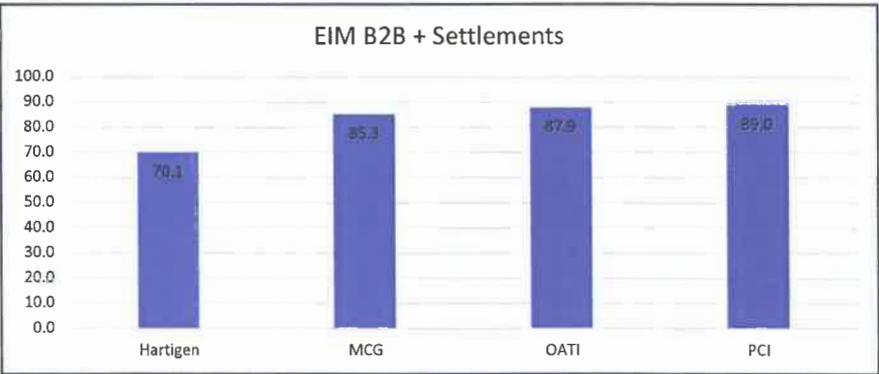
Criteria	SAC Members Average Scores				RFP Evaluation Matrix	Evaluation Points Awarded			
	Hartigen	MCG	OATI	PCI	Points Possible	Hartigen	MCG	OATI	PCI
Qualifications and Experience	8.0	7.2	9.6	8.5	20	16.7	14.9	20.0	17.6
Technical Requirements	8.0	10.1	10.0	10.7	25	18.7	23.7	23.4	25.0
Project Methodology	8.2	8.8	9.7	8.6	15	12.7	13.5	15.0	13.3
Reporting Capabilities	10.0	8.6	4.7	7.0	5	5.0	4.3	2.4	3.5
Training Plan	9.4	8.3	9.0	10.5	5	4.5	3.9	4.3	5.0
Fees and Charges	4.5	34.5	213.0	26.6	15	0.3	2.4	15.0	1.9
SBE, MWBE	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0
Submittal Quality	9.7	9.3	9.3	9.5	10	10.0	9.6	9.6	9.8
Vendor Security Response	Acceptable	Acceptable	Recommended	Recommended	P/F	Pass	Pass	Pass	Pass
Sum						67.8	72.4	89.6	76.1



OMS									
Criteria	SAC Members Average Scores				RFP Evaluation Matrix	Evaluation Points Awarded			
	Hartigen	MCG	OATI	PCI	Points Possible	Hartigen	MCG	OATI	PCI
Qualifications and Experience	8.0	7.2	9.6	8.5	20	16.7	14.9	20.0	17.6
Technical Requirements	6.9	10.6	10.1	10.8	25	16.1	24.5	23.4	25.0
Project Methodology	8.2	8.8	9.7	8.6	15	12.7	13.5	15.0	13.3
Reporting Capabilities	10.0	8.6	4.7	7.0	5	5.0	4.3	2.4	3.5
Training Plan	9.4	8.3	9.0	10.5	5	4.5	3.9	4.3	5.0
Fees and Charges	4.5	12.6	22.6	19.9	15	3.0	8.4	15.0	13.2
SBE, MWBE	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0
Submittal Quality	9.7	9.3	9.3	9.5	10	10.0	9.6	9.6	9.8
Vendor Security Response	Acceptable	Acceptable	Recommended	Recommended	P/F	Pass	Pass	Pass	Pass
Sum						67.9	79.2	89.7	87.5



EIM B2B + Settlements									
Criteria	SAC Members Average Scores				RFP Evaluation Matrix	Evaluation Points Awarded			
	Hartigen	MCG	OATI	PCI	Points Possible	Hartigen	MCG	OATI	PCI
Qualifications and Experience	8.0	7.2	9.6	8.5	20	16.7	14.9	20.0	17.6
Technical Requirements	7.7	10.1	10.0	10.5	25	18.2	24.1	23.7	25.0
Project Methodology	8.2	8.8	9.7	8.6	15	12.7	13.5	15.0	13.3
Reporting Capabilities	10.0	8.6	4.7	7.0	5	5.0	4.3	2.4	3.5
Training Plan	9.4	8.3	9.0	10.5	5	4.5	3.9	4.3	5.0
Fees and Charges	1.4	6.8	5.9	6.7	15	3.1	15.0	12.9	14.7
SBE, MWBE	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0
Submittal Quality	9.7	9.3	9.3	9.5	10	10.0	9.6	9.6	9.8
Vendor Security Response	Acceptable	Acceptable	Recommended	Recommended	P/F	Pass	Pass	Pass	Pass
Sum						70.1	85.3	87.9	89.0



ETRM + B2B + Settlements									
Criteria	SAC Members Average Scores				RFP Evaluation Matrix	Evaluation Points Awarded			
	Hartigen	MCG	OATI	PCI	Points Possible	Hartigen	MCG	OATI	PCI
Qualifications and Experience		7.2	9.6	8.5	20	0.0	14.9	20.0	17.6
Technical Requirements		9.8	9.6	10.2	25	0.0	23.9	23.7	25.0
Project Methodology		8.8	9.7	8.6	15	0.0	13.5	15.0	13.3
Reporting Capabilities		8.6	4.7	7.0	5	0.0	5.0	2.8	4.1
Training Plan		8.3	9.0	10.5	5	0.0	3.9	4.3	5.0
Fees and Charges		4.3	3.4	3.8	15	0.0	15.0	11.6	13.2
SBE, MWBE		0.0	0.0	0.0	5	0.0	0.0	0.0	0.0
Submittal Quality		9.3	9.3	9.5	10	0.0	9.8	9.8	10.0
Vendor Security Response		Acceptable	Recommended	Recommended	P/F	Pass	Pass	Pass	Pass
Sum						0.0	86.1	87.1	88.2





RESOLUTION NO. U-11151

A RESOLUTION relating to Tacoma Power; approving a Letter of Agreement ("LOA") between the City and the International Brotherhood of Electrical Workers, Local 483, Tacoma Power Unit ("IBEW").

WHEREAS the City of Tacoma, Department of Utilities, Light Division (d.b.a. "Tacoma Power"), and the International Brotherhood of Electrical Workers Local 483, Tacoma Power Unit ("IBEW"), have proposed a LOA regarding the pay scale and work rules for the classification of Systems Power Dispatcher Candidate, and

WHEREAS the adoption of a proposed LOA as negotiated with IBEW, is currently scheduled to be considered by City Council on April 7, 2020, and

WHEREAS due to changes in technology and in an effort to ensure our training programs are providing candidates with the most relevant and up-to-date information to be successful at the City of Tacoma, and Tacoma Power, the parties, in conjunction with the Joint Apprenticeship and Training Committee, have agreed to update the Systems Power Dispatcher Candidate program, and

WHEREAS retroactive January 24, 2020, the parties have agreed to eliminate the first step of the wage scale of the Systems Power Dispatcher Candidate program, and

WHEREAS employees who are currently at Step 1 shall receive compensation retroactively to January 24, 2020, at the new Step 1, and

WHEREAS it is in the best interests of the City that the proposed LOA negotiated by the Union and the City be approved; Now, therefore,



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BE IT RESOLVED BY THE PUBLIC UTILITY BOARD OF THE CITY OF TACOMA:

That the LOA between the City and the IBEW is approved, all actions taken by Tacoma Power in the approval and execution of the LOA are ratified, and the City Council is requested to concur in the approval and authorize the proper officers of the City to execute the LOA substantially in the form on file and as approved by the City Attorney.

Approved as to form:

Z C Russell
Chief Deputy City Attorney

Chair

Secretary

Clerk

Adopted _____



Board Action Memorandum

TO: Jackie Flowers, Director of Utilities

COPY: Charleen Jacobs, Director and Board Offices

FROM: Karen Short, Senior Human Resources Analyst
Gary Buchanan, Human Resources Director
Dylan Carlson, Senior Labor Relations Manager
Bill Fosbre, City Attorney

MEETING DATE: March 25, 2020

DATE: March 13, 2020

SUMMARY:

A resolution recommending the adoption of a Letter of Agreement as negotiated with the International Brotherhood of Electrical Workers, Local 483, Tacoma Power Unit regarding the pay scale and work rules for the classification of Systems Power Dispatcher Candidate.

BACKGROUND:

The resolution will authorize the adoption of a proposed Letter of Agreement as negotiated with the International Brotherhood of Electrical Workers (IBEW), Local 483, Tacoma Power Unit. The Letter of Agreement is scheduled to be considered by the City Council as a resolution on April 7, 2020.

Due to changes in technology and in an effort to ensure our training programs are providing candidates with the most relevant and up to date information to be successful at the City of Tacoma and Tacoma Power, the Parties, in conjunction with the Joint Apprenticeship and Training Committee, have agreed to update the Systems Power Dispatcher Candidate program.

Effective January 24, 2020 the parties agree to eliminate the first step of the wage scale of the Systems Power Dispatcher Candidate program. Employees who are currently at Step 1 shall receive compensation retroactively to January 24, 2020 at the new Step 1.

ATTACHMENTS:

Letter of Agreement

CONTACT:

Karen Short, Senior Human Resources Analyst, (253) 591-5424
Presenter: Cecily Hutton, Labor Negotiator, (253) 591-5892

Letter of Agreement

Between

The City of Tacoma

Department of Public Utilities, Light Division (Tacoma Power)

And

International Brotherhood of Electrical Workers Local 483

The City of Tacoma and IBEW Local 483 Power Unit (hereinafter the Parties), enter into this Letter of Agreement (LOA) which shall be attached to the 2017-2021 IBEW 483 Power Collective Bargaining Agreement (CBA) and incorporated as though fully set forth therein.

Due to changes in technology and in an effort to ensure our training programs are providing candidates with the most relevant and up to date information to be successful at the City of Tacoma and Tacoma Power, the Parties, in conjunction with the Joint Apprenticeship and Training Committee, have agreed to update the Systems Power Dispatcher Candidate program.

Effective January 24, 2020 the parties agree to eliminate the first step of the wage scale of the Systems Power Dispatcher Candidate program. Employees who are currently at Step 1 shall receive compensation retroactively to January 24, 2020 at the new Step 1.

5119	Systems Operator Power Dispatcher Candidate		% of System Dispatch Generation Desk		
			70.79%	42.56	A
			74.33%	44.69	A
			78.04%	46.92	A
			81.94%	49.26	A
		q	86.04%	51.73	A

Wage increases for the Systems Power Dispatcher Candidate shall be based on increases provided by the current Collective Bargaining Agreement.

Nothing in this LOA is intended to be used as a precedent for future contract negotiations or other similar matters.

EXECUTED ON THIS _____ DAY OF _____, 2020.

City of Tacoma

Local 483, International Brotherhood
of Electrical Workers, Light Division
(Tacoma Power)

Elizabeth Pauli
City Manager

Alice Phillips
Business Manager

Jackie Flowers
Director of Public Utilities

Chris Robinson
Power Superintendent

Andy Cherullo
Finance Director

Dylan Carlson
Senior Labor Relations Manager

Approved as to form:

Deputy City Attorney



RESOLUTION NO. U-11152

A RESOLUTION relating to Tacoma Power; approving a Letter of Agreement ("LOA") between the City and the International Brotherhood of Electrical Workers, Local 483, Tacoma Power Unit ("IBEW").

WHEREAS the City of Tacoma, Department of Utilities, Light Division (d.b.a. "Tacoma Power"), and the International Brotherhood of Electrical Workers Local 483, Tacoma Power Unit ("IBEW"), have proposed a LOA regarding the creation of a new classification, the elimination of a salary step due to compression, and amendments to Section 9.1 of the collective bargaining agreement, and

WHEREAS the adoption of a proposed LOA as negotiated with IBEW, is currently scheduled to be considered by City Council on April 7, 2020, and

WHEREAS effective April 1, 2020, the proposed LOA provides for the creation of a new classification titled Electrician, Lead, into IBEW, with a one-step pay rate set at 10 percent above the current Electrician classification, and

WHEREAS the LOA also provides for the elimination of step one of the pay scale for the classification of the Heating/AC Maintenance Mechanic Supervisor, due to compression and clarification, and

WHEREAS, in addition, the LOA agrees to the amendments of Article 9.1 of the Collective Bargaining Agreement, in reference to temporary upgrade offers and compensation, and

WHEREAS it is in the best interests of the City that the proposed LOA negotiated by the Union and the City be approved; Now, therefore,



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BE IT RESOLVED BY THE PUBLIC UTILITY BOARD OF THE CITY OF TACOMA:

That the LOA between the City and the IBEW is approved, all actions taken by Tacoma Power in the approval and execution of the LOA are ratified, and the City Council is requested to concur in the approval and authorize the proper officers of the City to execute the LOA substantially in the form on file and as approved by the City Attorney.

Approved as to form:

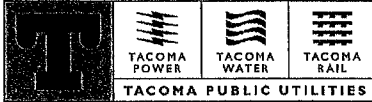
R. C. Merrill
Chief Deputy City Attorney

Chair

Secretary

Clerk

Adopted _____



Board Action Memorandum

TO: Jackie Flowers, Director of Utilities
COPY: Charleen Jacobs, Director and Board Offices
FROM: Karen Short, Senior Human Resources Analyst
Gary Buchanan, Human Resources Director
Dylan Carlson, Senior Labor Relations Manager
Bill Fosbre, City Attorney
MEETING DATE: March 25, 2020
DATE: March 13, 2020

SUMMARY:

A resolution recommending the adoption of a Letter of Agreement as negotiated with the International Brotherhood of Electrical Workers, Local 483, Tacoma Power Unit regarding the creation of a new classification, the elimination of a salary step due to compression, and amendments to Section 9.1 of the collective bargaining agreement.

BACKGROUND:

The resolution will authorize the adoption of a proposed Letter of Agreement as negotiated with the International Brotherhood of Electrical Workers (IBEW), Local 483, Tacoma Power Unit. The Letter of Agreement is scheduled to be considered by the City Council as a resolution on April 7, 2020.

The Letter of Agreement provides for the creation of a new classification titled Electrician, Lead, into the International Brotherhood of Electrical Workers, Local 483, Tacoma Power Unit. It establishes a one-step pay rate set at 10 percent above the current Electrician classification, effective April 1, 2020.

The Letter also provides for the elimination of step one of the pay scale for the classification of Heating/AC maintenance Mechanic Supervisor due to compression and for clarification. In addition, the letter agrees to amendments to Article 9.1 of the Collective Bargaining Agreement in reference to temporary upgrade offers and compensation.

ATTACHMENTS:

Letter of Agreement

CONTACT:

Karen Short, Senior Human Resources Analyst, (253) 591-5424
Presenter: Cecily Hutton, Labor Negotiator, (253) 591-5892

Letter of Agreement

Between

The City of Tacoma, Department of Public Utilities, Light Division (Tacoma Power)

And

International Brotherhood of Electrical Workers Local 483

Subject: New Electrician, Lead Classification

Effective: April 1, 2020

The City of Tacoma and IBEW Local 483 Power Union (hereinafter the Parties), enter into this Letter of Agreement (LOA) which shall be attached to the 2017-2021 IBEW 483 Power Collective Bargaining Agreement (CBA) and incorporated as though fully set forth therein.

The City has the need to establish a new classification of Electrician, Lead. It is hereby agreed that this classification is recognized as incorporated into and covered by the terms and conditions of the IBEW Local 483 Tacoma Power unit CBA. Further, the parties agree to the following:

1. The Electrician, Lead wages shall be a one-step wage schedule which has been set at ten percent (10%) higher than the current rate of pay for Electrician classification. The Electrician, Lead classification will be listed in Appendix A of the successor agreement. The Electrician, Lead classification is overtime category C (double time compensation for overtime).

Code	Job Title	1
52370	Electrician, Lead	45.88

2. Due to a compression issue and for clarification, the Parties agree to eliminate Step 1 of the current Heating/AC Maintenance Mechanic Supervisor Classification. The new salary scale shall be as follows:

Code	Job Title	1	2	3	4
51450	Heating/AC Maintenance Mechanic Supervisor	42.62	44.77	46.99	49.34

3. The Parties agree to amend Article 9, Section 9.1. as follows:

Section 9.1 Order of Selection The filling of any temporary vacancy or position which receives greater remuneration shall be considered a promotion. Such vacancies shall be filled in the following priority order:

- A. From a layoff register,
- B. From an existing Civil Service eligible list for said position.

- C.
 1. By appointing the employee with the longest permanent length of service in the next in-line lower classification, except for the following: (Note: for purposes of determining in-line progression, the descending order of pay scale within a craft group shall establish said progression.).
 2. In the interest of safety, when a crew lead (senior) or supervisor is absent from the job site for over two (2) hours, a temporary appointment shall be made from the next lower classification assigned to the crew for that day. Section 9.1.C.2 applies only to Line, Wire, Meter and Line Clearance crews. In the Wire Section, seniority on the crew shall be the senior most journey level Wire Electrician without regard to time on crew.
 3. Temporary upgrade to Communications Technician III in the Communications group will be done based on operational need, or when a communications crew (3 or more) is working in the field on a project and the Communications Technician III is absent from the crew for more than two (2) hours.
 4. Temporary upgrade in the Dispatch group will be when the Transmission or Distribution Coordinator is absent from the Control Center for four (4) hours or more, or the work is assigned by the Supervisor, during the regularly scheduled Coordinator shift, Monday through Friday.
- D. By appointing the JATC apprentice in accordance with the JATC by-laws.
- E. Exceptions to Section 9.1, A thru D:
 - Senior Line Electrician (SLE) vacancies of ten (10) days or less at South Service Center (SSC) may be filled by personnel in ranking order of SLE eligible list assigned to the SSC. If there is no eligible SLE on the eligible list at SSC, then the Line Electrician assigned to the SSC with the most seniority may be set-up for a maximum of three (3) days.
 - To allow flexibility in staffing, the Department may fill vacancies of three (3) days or less without regard to seniority.
 - Any Electrical Worker hired after April 8, 1998 will not be automatically eligible for set-up to Line Equipment Operator (i.e., Electrical Worker is no longer the next in-line lower classification to Line Equipment Operator).
 - Apprentices while enrolled in their respective apprentice program will not be set up to Line Equipment Operator while transporting or performing the operations of all the equipment utilized within Tacoma Power.
 - Temporary upgrades in Power shall be offered to the senior most Facilities Maintenance Mechanic, Electrician or Electrician, Lead if the HVAC Supervisor is absent from the job site for one day or more. The upgraded employee will be compensated at a rate of pay that is a minimum of five percent (5%) higher than the Electrician highest hourly rate of pay of those they are supervising. Should the Electrician, Lead be upgraded, the upgraded employee will be compensated at a rate of pay that is five percent (5%) higher than their current rate of pay. The upgraded

employee shall remain at the upgraded rate of pay until the end of the Supervisor's shift. The upgraded employee shall be compensated at the upgraded rate for all overtime which occurs concurrent to the work day.

This LOA does not establish a precedent for any future bargaining regarding this or other matters which may be brought forth by both parties.

The LOA will expire upon ratification and execution of the IBEW Local 483 Tacoma Power unit agreement.

EXECUTED ON THIS _____ DAY OF _____, 2020.

City of Tacoma

Local 483, International Brotherhood of
Electrical Workers, Light Division
(Tacoma Power)

Jackie Flowers
Director of Public Utilities

Alice Phillips
Business Manager

Chris Robinson
Power Superintendent

Dylan Carlson
Sr. Labor Relations Manager

Approved as to form:

Cheryl Comer
Deputy City Attorney



RESOLUTION NO. U-11155

A RESOLUTION relating to the revision of Chapter 12.06 of the Tacoma Municipal Code ("TMC"), requesting that the City Council declare an emergency and amend Ordinance No. 28551 to delay a scheduled increase to electric rates due to COVID-19 related state of emergency.

WHEREAS, the City of Tacoma, Department of Public Utilities, Power Division (d.b.a. "Tacoma Power"), passed Public Utility Board Resolution No. U-11033 on October 24, 2018, regarding electric regulations and rates, and

WHEREAS, the resolution provided for two system average 2.0% electric rate increases, one that will be effective April 1, 2019, and the other that will become effective April 1, 2020, and

WHEREAS, the Tacoma City Council passed Ordinance No. 28551 on November 20, 2018, which approved and adopted the requested revisions and increases to Tacoma Power's rates, and

WHEREAS, due to the emergency proclamation from the Mayor of Tacoma regarding coronavirus COVID-19 on March 12, 2020 and confirmation of that proclamation by the City Council on March 17, 2020; Tacoma Power proposes that the rate increase currently scheduled for April 1, 2020, be delayed until July 1, 2020, and

WHEREAS, in order to delay the rate increases that are set forth in Exhibits A and B to Ordinance No. 28551, Tacoma Power proposes superseding and replacing said Exhibits with Exhibits A-1 and B-1 attached hereto, and



WHEREAS revisions regarding electric regulations and rates require approval by the Public Utility Board and Tacoma City Council, pursuant to Tacoma City Charter section 4.11, and

WHEREAS, due to the state of emergency and in order to immediately implement a delay in an increase to electric rates, Tacoma Power requests that the City Council use its emergency powers to (1) dispense with the normal second reading and ten-day waiting period for adoption of an Ordinance, and (2) approve the proposed revisions to Exhibit A and Exhibit B of Ordinance No. 28551 and TMC 12.06 to become effective immediately; Now, Therefore,

BE IT RESOLVED BY THE PUBLIC UTILITY BOARD OF THE CITY OF TACOMA:

Sec. 1. The Board requests that the City Council supersede and replace Exhibits A and B to Council Ordinance No. 28551 with Exhibits A-1 and B-1 attached hereto in order to delay the scheduled rate increase, and

Sec. 2 The Board requests that the City Council uses its emergency powers to (1) dispense with a second reading and a ten-day waiting period for this Ordinance, and (2) approve Exhibits A-1 and B-1 to become effective April 1, 2020, with the rate increase specified in Exhibit B-1 to become effective per the date specified in Exhibit B-1.

Approved as to form:



Chief Deputy City Attorney

Chair

Secretary

Clerk

Adopted _____



TACOMA PUBLIC UTILITIES

3628 South 35th Street

Tacoma, Washington 98409-3192

March 19, 2020

To: Mayor Woodards and Tacoma City Council Members
Public Utility Board

Tacoma Power requests approval by the Public Utility Board and the City Council for rate adjustments effective April 1, 2020, and July 1, 2020, to delay the implementation the planned 2020 electric rate increase for three months due to the state of emergency caused by novel coronavirus COVID-19.

On October 24, 2018, the Public Utility Board passed Resolution No. U-11033 amending and revising Chapter 12.06 of the Tacoma Municipal Code regarding electric regulations and rates effective April 1, 2019 and April 1, 2020. The Resolution addressed a forecasted \$21.9 million revenue shortfall by implementing two system-average 2.0% electric rate increases to become effective April 1, 2019 and April 1, 2020. On November 20, 2018, the City Council passed Ordinance No. 28551 implementing these rate increases.

On March 12, 2020, the Mayor of Tacoma issued a proclamation of emergency due to novel coronavirus COVID-19. This state of emergency was confirmed by the City Council on March 17, 2020. In response to this emergency, Tacoma Power requests that the electric rate increase scheduled to become effective April 1, 2020 be delayed until July 1, 2020. This rate increase was designed to recover approximately \$7.5 million of additional revenue in the twelve months remaining in the Rate Period (April 1, 2020 through March 31, 2021). Tacoma Power now forecasts to collect \$5.7 million of additional revenue during the remaining Rate Period. No changes to rate design or apportionment of the rate increase among the classes is proposed.

In order to implement this rate increase delay in a timely fashion, Tacoma Power requests that the City Council use its emergency powers to dispense with the second reading and ten-day waiting period for this Ordinance change. Instead, the utility requests the City Council approval of the proposed rate adjustments in TMC 12.06 to become effective immediately.

Sincerely,

Jackie Flowers
Director of Utilities





Board Action Memorandum

TO: Jackie Flowers, Director of Utilities
COPY: Charleen Jacobs, Director and Board Offices
FROM:
MEETING DATE: Requested Board Meeting Date
DATE: Today's Date

SUMMARY: Provide a brief description of the action to be taken. Summarize the reason for the resolution and your recommendation.

Tacoma Power is requesting that the City Council revise Chapter 12.06 of the Tacoma Municipal Code ("TMC") by declaring an emergency and amend Ordinance No. 28551 to delay a scheduled increase to electric rates due to COVID-19 related state of emergency.

BACKGROUND: Provide information that is required to orient the Board. Provide context and frame the issue or topic.

On October 24, 2018, the Public Utility Board passed Resolution No. U-11033 amending and revising Chapter 12.06 of the Tacoma Municipal Code regarding electric regulations and rates effective April 1, 2019 and April 1, 2020. At that time, Tacoma Power's official revenue requirement analysis for the twenty-four month Rate Period (April 1, 2019 through March 31, 2021) projected a revenue shortfall of approximately \$21.9 million at current rates. The Resolution addressed this shortfall by implementing two system-average 2.0% electric rate increases to become effective April 1, 2019 and April 1, 2020.

On March 12, 2020, the Mayor of Tacoma issued a proclamation of emergency due to novel coronavirus COVID-19. This state of emergency was confirmed by the City Council on March 17, 2020. In response to this emergency, Tacoma Power recommends that the electric rate increase scheduled to become effective April 1, 2020 be delayed until July 1, 2020. This rate increase was designed to recover approximately \$7.5 million of additional revenue in the twelve months remaining in the Rate Period (April 1, 2020 through March 31, 2021). Tacoma Power now forecasts to collect \$5.7 million of additional revenue during the remaining Rate Period.

If applicable, outline all public and stakeholder outreach efforts undertaken.



Board Action Memorandum

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? No.

IF THE EXPENSE IS NOT BUDGETED, PLEASE EXPLAIN HOW THEY ARE TO BE COVERED.

The revenue increase was budgeted to occur on April 1st. The reduced revenue from implementing the rate increase on July 1st will be covered by utility reserves. No budget revision is necessary.

IF THE ACTION REQUESTED IS APPROVAL OF A CONTRACT, INCLUDE LANGUAGE IN RESOLUTION AUTHORIZING \$200,000 INCREASE IN ADMINISTRATIVE AUTHORITY TO DIRECTOR? No.

ATTACHMENTS: List any attachments (contracts, policies, agreements, etc.).

- a. Letter to Public Utility Board and City Council from Jackie Flowers dated March 17, 2020
- b. Proposed Amendments to Chapters 12.06 TMC

CONTACT: Provide name, title, and phone number of primary contact for this Board action item.

Bill Berry – Power Section Manager (253) 502-8294

Erin Erben – Power Section Assistant Manager (253) 502-8986



TO: Elizabeth Pauli, City Manager
FROM: Jackie Flowers, Director of Utilities, Tacoma Public Utilities
COPY: City Council and City Clerk
SUBJECT: Proposed Rate Ordinance – Amend and revise TMC Chapters 12.06
DATE: March 31, 2020

SUMMARY:

Tacoma Power is requesting that the City Council revise Chapter 12.06 of the Tacoma Municipal Code (“TMC”) by declaring an emergency and amend Ordinance No. 28551 to delay a scheduled increase to electric rates due to COVID-19 related state of emergency.

BACKGROUND:

On October 24, 2018, the Public Utility Board passed Resolution No. U-11033 amending and revising Chapter 12.06 of the Tacoma Municipal Code regarding electric regulations and rates effective April 1, 2019 and April 1, 2020. At that time, Tacoma Power’s official revenue requirement analysis for the twenty-four month Rate Period (April 1, 2019 through March 31, 2021) projected a revenue shortfall of approximately \$21.9 million at current rates. The Resolution addressed this shortfall by implementing two system-average 2.0% electric rate increases to become effective April 1, 2019 and April 1, 2020. On November 20, 2018, the City Council passed Ordinance No. 28551 implementing these rate increases.

ISSUE:

On March 12, 2020, the Mayor of Tacoma issued a proclamation of emergency due to novel coronavirus COVID-19. This state of emergency was confirmed by the City Council on March 17, 2020. In response to this emergency, Tacoma Power requests that the electric rate increase scheduled to become effective April 1, 2020 be delayed until July 1, 2020. This rate increase was designed to recover approximately \$7.5 million of additional revenue in the twelve months remaining in the Rate Period (April 1, 2020 through March 31, 2021). Tacoma Power now forecasts to collect only \$5.7 million of additional revenue during the remaining Rate Period. No changes to rate design or apportionment of the rate increase among the classes is proposed.

In order to implement this rate increase delay in a timely fashion, Tacoma Power requests that the City Council use its emergency powers to dispense with the second reading and ten-day waiting period for this Ordinance change. Instead, the utility requests the City Council approval of the proposed rate adjustments in TMC 12.06 to become effective immediately.

ALTERNATIVES:

If no action is taken, the rate increase will become effective on April 1, 2020 as outlined in Ordinance No. 28551, Exhibit B.

RECOMMENDATION:

Tacoma Power requests approval by the City Council for two rate adjustments effective April 1, 2020, and July 1, 2020.

FISCAL IMPACT:

With the rates outlined in Ordinance No. 28551, Exhibit B, Tacoma Power planned to recover approximately \$7.5 million of additional revenue between April 1, 2020 and March 31, 2021. Tacoma Power now forecasts to collect \$5.7 million of additional revenue during the same period. Therefore, the estimated revenue loss is \$1.8 million.

**EXPENDITURES:**

FUND NUMBER & FUND NAME *	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
TOTAL			

* General Fund: Include Department

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
Residential			-\$382,882
Commercial/Industrial			-\$1,382,637
Other			-\$25,345
TOTAL			-\$1,790,864

POTENTIAL POSITION IMPACT:

POSITION TITLE	PERMANENT/ PROJECT TEMPORARY POSITION	FTE IMPACT	POSITION END DATE
TOTAL			

This section should only be completed if a subsequent request will be made to increase or decrease the current position count.

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$-1.8 million

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? No

IF EXPENSE IS NOT BUDGETED, PLEASE EXPLAIN HOW THEY ARE TO BE COVERED.

Tacoma Power plans to use existing reserves and cost management to mitigate the impact the rate increase delay.



EXHIBIT "A-1"

Chapter 12.06

ELECTRIC ENERGY – REGULATIONS AND RATES

Sections:

- 12.06.010 General application.
- 12.06.020 Definitions.
- 12.06.030 Available voltages.
- 12.06.040 Application for service and contract.
- 12.06.050 Inspection.
- 12.06.060 Equipment and wires.
- 12.06.070 Rearranging lines or equipment.
- 12.06.080 Metering.
- 12.06.090 Connected load.
- 12.06.100 Deposits and connection charges.
- 12.06.110 Billing – Payment of bills and delinquency.
- 12.06.115 Disconnection of electric service.
- 12.06.120 Resale of electric energy prohibited.
- 12.06.130 Diversion of current.
- 12.06.140 Tampering and injury to City equipment.
- 12.06.150 City not liable for damages.
- 12.06.160 Residential service – Schedule A-1. Effective April 1, 20198, to March 31, 2020.
- 12.06.165 Low-income/senior and/or low-income/disabled discount residential service – Schedule A-2.
- 12.06.170 Small general service – Schedule B. Effective April 1, 20198, to March 31, 2020.
- 12.06.180 *Repealed.*
- 12.06.190 *Repealed.*
- 12.06.210 *Repealed.*
- 12.06.215 General service – Schedule G. Effective April 1, 20198, to March 31, 2020.
- 12.06.220 *Repealed.*
- 12.06.225 High voltage general service – Schedule HVG. Effective April 1, 20198, to March 31, 2020.
- 12.06.240 *Repealed.*
- 12.06.250 *Repealed.*
- 12.06.260 Contract industrial service – Schedule CP. Effective April 1, 20198, to March 31, 2020.
- 12.06.270 *Repealed.*
- 12.06.280 *Repealed.*
- 12.06.290 Street lighting and traffic signal service – Schedule H-1. Effective April 1, 20198, to March 31, 2020.
- 12.06.295 Street lighting service – Schedule H-3. Effective April 1, 20198, to March 31, 2020.
- 12.06.300 Private off-street lighting service – Schedule H-2. Effective April 1, 20198, to March 31, 2020.
- 12.06.310 Power factor provisions – Schedule P.
- 12.06.314 Tax credit – Schedule TC.
- 12.06.315 *Repealed.*
- 12.06.317 *Repealed.*
- 12.06.318 *Repealed.*
- 12.06.320 Additional rules may be made by director.
- 12.06.330 Customer service policies – Additional rules and regulations.
- 12.06.340 Violations – Penalties – Enforcement.
- 12.06.350 Severability.
- 12.06.360 *Repealed.*



12.06.370 Renewable Energy Program.

12.06.160 Residential service – Schedule A-1. Effective April 1, 2018, to March 31, 2020.

C. Monthly Rate. The sum of the following energy, delivery and customer charges:

1. Energy: All energy measured in kilowatt-hours at \$0.045351 per kWh.

2. Delivery: All energy delivered in kilowatt-hours at \$0.034891 034435 per kWh.

3. Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$16.950 per month, for all but collectively metered apartments; \$13.85 50 per month, for collectively metered apartments.

4. Exceptions:

(a) Within the City of Fife:

(1) Energy: All energy measured in kilowatt-hours at \$0.045351 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.034891 034435 per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$16.950 per month, for all but collectively metered apartments; \$13.85 50 per month, for collectively metered apartments.

(b) Within the City of Fircrest:

(1) Energy: All energy measured in kilowatt-hours at \$0.045351 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.034891 034435 per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$16.950 per month, for all but collectively metered apartments; \$13.85 50 per month, for collectively metered apartments.

(c) Within the City of Lakewood:

(1) Energy: All energy measured in kilowatt-hours at \$0.045351 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.034891 034435 per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$16.950 per month, for all but collectively metered apartments; \$13.85 50 per month, for collectively metered apartments.

(d) Within the City of Steilacoom:

(1) Energy: All energy measured in kilowatt-hours at \$0.045351 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.034891 034435 per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$16.950 per month, for all but collectively metered apartments; \$13.85 50 per month, for collectively metered apartments.

(e) Within the City of University Place:

(1) Energy: All energy measured in kilowatt-hours at \$0.045351 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.034891 034435 per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$16.950 per month, for all but collectively metered apartments; \$13.85 50 per month, for collectively metered apartments.

12.06.170 Small general service – Schedule B. Effective April 1, 2018, to March 31, 2020.

B. Monthly Rate. The sum of the following energy, delivery and customer charges:



1. Energy: All energy measured in kilowatt-hours at \$0.044616 per kWh.
2. Delivery: All energy delivered in kilowatt-hours at \$0.~~034895~~ ~~034587~~ per kWh.
3. Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$2~~32.05~~0 per month, for all but unmetered services; \$17.~~95~~0 per month, for unmetered services.
4. Exceptions:
 - (a) Within the City of Fife:
 - (1) Energy: All energy measured in kilowatt-hours at \$0.044616 per kWh.
 - (2) Delivery: All energy delivered in kilowatt-hours at \$0.~~034895~~ ~~034587~~ per kWh.
 - (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$2~~32.05~~0 per month, for all but unmetered services; \$17.~~95~~0 per month, for unmetered services.
 - (b) Within the City of Fircrest:
 - (1) Energy: All energy measured in kilowatt-hours at \$0.044616 per kWh.
 - (2) Delivery: All energy delivered in kilowatt-hours at \$0.~~034895~~ ~~034587~~ per kWh.
 - (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$2~~32.05~~0 per month, for all but unmetered services; \$17.~~95~~0 per month, for unmetered services.
 - (c) Within the City of Lakewood:
 - (1) Energy: All energy measured in kilowatt-hours at \$0.044616 per kWh.
 - (2) Delivery: All energy delivered in kilowatt-hours at \$0.~~034895~~ ~~034587~~ per kWh.
 - (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$2~~32.05~~0 per month, for all but unmetered services; \$17.~~95~~0 per month, for unmetered services.
 - (d) Within the City of Steilacoom:
 - (1) Energy: All energy measured in kilowatt-hours at \$0.044616 per kWh.
 - (2) Delivery: All energy delivered in kilowatt-hours at \$0.~~034895~~ ~~034587~~ per kWh.
 - (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$2~~32.05~~0 per month, for all but unmetered services; \$17.~~95~~0 per month, for unmetered services.
 - (e) Within the City of University Place:
 - (1) Energy: All energy measured in kilowatt-hours at \$0.044616 per kWh.
 - (2) Delivery: All energy delivered in kilowatt-hours at \$0.~~034895~~ ~~034587~~ per kWh.
 - (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$2~~32.05~~0 per month, for all but unmetered services; \$17.~~95~~0 per month, for unmetered services.
- ***
- 12.06.215 General service – Schedule G. Effective April 1, 2018, to March 31, 2020.**
- ***
- B. Monthly Rate. The sum of the following energy, delivery, and customer charges:
 1. Energy: All energy measured in kilowatt-hours at \$0.~~047317~~ ~~044813~~ per kWh.
 2. Delivery: All kilowatts of Billing Demand delivered at \$8.~~43~~ ~~35~~ per kW.
 3. Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$7~~86~~.00 per month.



4. Exceptions:

(a) Within the City of Fife:

- (1) Energy: All energy measured in kilowatt-hours at \$0.047317 044813-per kWh.
- (2) Delivery: All kilowatts of Billing Demand delivered at \$8.43 35-per kW.
- (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$786.00 per month.

(b) Within the City of Fircrest:

- (1) Energy: All energy measured in kilowatt-hours at \$0.047317 044813-per kWh.
- (2) Delivery: All kilowatts of Billing Demand delivered at \$8.43 35-per kW.
- (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$786.00 per month.

(c) Within the City of Lakewood:

- (1) Energy: All energy measured in kilowatt-hours at \$0.047317 044813-per kWh.
- (2) Delivery: All kilowatts of Billing Demand delivered at \$8.43 35-per kW.
- (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$786.00 per month.

(d) Within the City of Steilacoom:

- (1) Energy: All energy measured in kilowatt-hours at \$0.047317 044813-per kWh.
- (2) Delivery: All kilowatts of Billing Demand delivered at \$8.43 35-per kW.
- (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$786.00 per month.

(e) Within the City of University Place:

- (1) Energy: All energy measured in kilowatt-hours at \$0.047317 044813-per kWh.
- (2) Delivery: All kilowatts of Billing Demand delivered at \$8.43 35-per kW.
- (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$786.00 per month.

12.06.225 High voltage general service – Schedule HVG. Effective April 1, 2018, to March 31, 2020.

A. Availability. For general power use where a demand meter is installed and where a customer served does not require the use of Tacoma Power's distribution facilities other than substation transformation. Customers over 8 Megawatts who do not have a Power Service Agreement (Contract) with Tacoma Power will take service under TMC 12.06.215, General Service. A Power Service Agreement (Contract) with Tacoma Power is required for customers who begin taking service under TMC 12.06.225 High voltage general service after April 16, 2017. For customers who provide all of their own transformation from Tacoma Power's transmission system voltage, a credit of 20.00 percent will be applicable to the delivery charge.

~~High voltage general service customers shall be billed the following rates under Subsection 12.06.225.B (a two-step rate increase effective April 16, 2017 and April 1, 2018) unless the Customer files by April 21, 2017, a written notice in a form approved by Tacoma Power that irrevocably elects to be billed under the alternative rates under Subsection 12.06.225.C (a one-step rate increase effective April 16, 2017 with a second default rate increase effective April 1, 2019, unless superseded prior to the effective date).~~

B. Monthly Rate. The sum of the following energy, delivery, and customer charges:

1. Energy: All energy measured in kilowatt-hours at \$0.042915 041691-per kWh.
2. Delivery: All kilowatts of Billing Demand delivered at \$4.89 75-per kW.
3. Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$1,5490.00 per month.



4. Exceptions:

(a) Within the City of Fife:

(1) Energy: All energy measured in kilowatt-hours at \$0.042915 041691-per kWh.

(2) Delivery: All kilowatts of Billing Demand delivered at \$4.89 75-per kW.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$1,5490.00 per month.

(b) Within the City of Firecrest:

(1) Energy: All energy measured in kilowatt-hours at \$0.042915 041691-per kWh.

(2) Delivery: All kilowatts of Billing Demand delivered at \$4.89 75-per kW.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$1,5490.00 per month.

(c) Within the City of Lakewood:

(1) Energy: All energy measured in kilowatt-hours at \$0.042915 041691-per kWh.

(2) Delivery: All kilowatts of Billing Demand delivered at \$4.89 75-per kW.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$1,5490.00 per month.

(d) Within the City of Steilacoom:

(1) Energy: All energy measured in kilowatt-hours at \$0.042915 041691-per kWh.

(2) Delivery: All kilowatts of Billing Demand delivered at \$4.89 75-per kW.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$1,5490.00 per month.

(e) Within the City of University Place:

(1) Energy: All energy measured in kilowatt-hours at \$0.042915 041691-per kWh.

(2) Delivery: All kilowatts of Billing Demand delivered at \$4.89 75-per kW.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$1,5490.00 per month.

C. Monthly Rate (a one-step rate increase effective April 16, 2017, with a second default rate increase effective April 1, 2019, unless superseded prior to the effective date).

	Effective 4/16/2017	Effective 4/1/2019 unless superseded prior to effective date
Energy	\$0.039987	\$0.041691
Delivery	\$4.63	\$4.75
Customer Charge	\$1,175.00	\$1,490.00
Exceptions:		
Within the City of Fife		
Energy	\$0.039987	\$0.041691
Delivery	\$4.63	\$4.75
Customer Charge	\$1,175.00	\$1,490.00
Within the City of Firecrest		
Energy	\$0.039987	\$0.041691
Delivery	\$4.63	\$4.75
Customer Charge	\$1,175.00	\$1,490.00



Within the City of Lakewood		
Energy	\$0.039987	\$0.041691
Delivery	\$4.63	\$4.75
Customer Charge	\$1,175.00	\$1,490.00
Within the City of Steilacoom		
Energy	\$0.039987	\$0.041691
Delivery	\$4.63	\$4.75
Customer Charge	\$1,175.00	\$1,490.00
Within the City of University Place		
Energy	\$0.039987	\$0.041691
Delivery	\$4.63	\$4.75
Customer Charge	\$1,175.00	\$1,490.00

DC. Billing Demand. Determined by means of a demand meter, 30-minute interval, reset monthly. The billing demand shall be the higher of:

1. The highest measured demand for the month adjusted for power factor, or
2. 60 percent of the highest measured demand occurring during any of the preceding 11 months after adjustment for power factor.

For purposes of the determination of Billing Demand in subsection 2 above, the 11 months of history shall be carried forward from the customer's previous account(s).

ED. Service Conditions.

1. Power factor provision applicable.
2. Applicable provisions of the Tacoma Municipal Code, General Provisions, and Customer Service Policies governing the sale of electric energy shall apply.

12.06.260 Contract industrial service – Schedule CP. Effective April 1, 2018, to March 31, 2020.

B. Monthly Rate. The sum of the following power service, delivery, customer and other charges:

1. Power Service Charges:

(a) Energy: All Contract Energy (as set forth in the Contract) measured in kilowatt-hours at \$0.033038 per kWh.

(b) Demand: All kilowatts of Billing Demand delivered at \$4.6833-per kW.

(c) Minimum Charge: The Demand Charge.

(d) Contract Energy Overrun: All energy measured in excess of the Contract Energy (as set forth in the Contract) is subject to a Contract Energy Overrun charge, pursuant to the following formula:

Contract Energy Overrun Charge = (MWh + Losses) x (THI + Tx) x 120%.

Where: MWh = the aggregate MWh over the day the customer's total measured daily load was above the Contract Energy amount; Losses = MWh x 1.9%; THI = the highest hourly price observed on the Tacoma Hourly Index within the day of overrun; Tx = applicable BPA or successor organization, transmission rate in \$ per MWh.

(e) Contract Demand Overrun: A Contract Demand Overrun charge shall be imposed when the total measured demand (highest 30-minute integrated demand) exceeds the Contract Demand (as set forth in the Contract). Said charge is pursuant to the following formula:

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Contract Demand Overrun Charge = MW x 300% x DC

Where: MW = MW of metered Demand in excess of the Contract Demand; DC = Demand Charge.

2. Delivery: All kilowatts of Billing Demand delivered at \$4.22.00 per kW.

3. Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$32,980.00 per month.

4. Exceptions:

(a) Within the City of Fife:

(1) Power Service Charges:

(i) Energy: All Contract Energy (as set forth in the Contract) measured in kilowatt-hours at \$0.033038 per kWh.

(ii) Demand: All kilowatts of Billing Demand delivered at \$4.68.31 per kW.

(iii) Minimum Charge: The Demand Charge.

(iv) Contract Energy Overrun: All energy measured in excess of the Contract Energy (as set forth in the Contract) is subject to a Contract Energy Overrun charge, pursuant to the following formula:

Contract Energy Overrun Charge = (MWh + Losses) x (THI + Tx) x 1204.1319%

Where: MWh = the aggregate MWh over the day the customer's total measured daily load was above the Contract Energy amount; Losses = MWh x 1.9%; THI = the highest hourly price observed on the Tacoma Hourly Index within the day of overrun; Tx = applicable BPA or successor organization, transmission rate in \$ per MWh.

(v) Contract Demand Overrun: A Contract Demand Overrun charge shall be imposed when the total measured demand (highest 30-minute integrated demand) exceeds the Contract Demand (as set forth in the Contract). Said charge is pursuant to the following formula:

Contract Demand Overrun Charge = MW x 300% x DC

Where: MW = MW of metered Demand in excess of the Contract Demand; DC = Demand Charge.

(2) Delivery: All kilowatts of Billing Demand delivered at \$4.22.00 per kW.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$32,980.00 per month.

12.06.290 Street lighting and traffic signal service – Schedule H-1. Effective April 1, 2018, to March 31, 2020.

B. Monthly Rates: Rates stated herein are for (1) unmetered installations [items 1 and 2] where charges are per fixture and shall be applied to the number of installed units on the system as determined by Tacoma Power at the time the billing is rendered, and (2) metered installations [item 3].

1. Street Lighting Units (Unmetered):

(a) Incandescent Lamps:

Nominal Wattage	Energy Charge Per Unit
Up to 150 Watts	\$3.22 \$3.10
151-220 Watts	\$4.73 \$4.55
221-320 Watts	\$6.87 \$6.61
321-520 Watts	\$11.17 \$10.74
521 & Over Watts	\$17.62 \$16.94

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(b) High Intensity Discharge Lamps:

Energy Charge Per Unit			
Nominal Wattage	Continuous	Dusk to Dawn	Dusk to 2:20 a.m.
50 Watts	\$2.39 \$2.30	\$1.29 \$1.24	\$0.81 \$0.78
70 Watts	\$3.34 \$3.21	\$1.81 \$1.74	\$1.13 \$1.09
100 Watts	\$4.77 \$4.59	\$2.58 \$2.48	\$1.62 \$1.56
150 Watts	\$7.17 \$6.89	\$3.87 \$3.72	\$2.43 \$2.34
175 Watts	\$8.35 \$8.03	\$4.51 \$4.34	\$2.84 \$2.73
200 Watts	\$9.55 \$9.18	\$5.16 \$4.96	\$3.24 \$3.12
250 Watts	\$11.94 \$11.48	\$6.45 \$6.20	\$4.06 \$3.90
310 Watts	\$14.80 \$14.23	\$8.00 \$7.69	\$5.03 \$4.84
400 Watts	\$19.09 \$18.36	\$10.32 \$9.92	\$6.49 \$6.24
700 Watts	\$33.42 \$32.13	\$18.04 \$17.35	\$11.37 \$10.93
1000 Watts	\$43.76 \$42.08	\$23.64 \$22.73	\$14.88 \$14.31
1500 Watts	\$71.60 \$68.85	\$38.68 \$37.19	\$24.36 \$23.42

(c) At the discretion of Tacoma Power, all lamps may be charged the following equivalent rate: Energy charge for lamp installations at the rate of ~~\$39.78~~ \$38.25, ~~\$21.49~~ \$20.66, and ~~\$13.53~~ \$13.01 per month per kilowatt of total connected load for Continuous, Dusk to Dawn, and Dusk to 2:20 a.m. lamps, respectively.

3. Street Lighting and Traffic Control Units (Metered): The sum of the following energy, delivery and customer charges:

(a) Energy: All energy measured in kilowatt-hours at \$0.035690 per kWh.

(b) Delivery: All energy delivered in kilowatt-hours at ~~\$0.015415~~ \$0.14961 per kWh.

(c) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$10.00 per month.

12.06.295 Street Lighting Service – Schedule H-3. Effective April 1, 2018.

D. Monthly Rates: The sum of the following energy and capital recovery charges:

1. Energy: Energy charge for lamp installations shall be the monthly rate of the otherwise applicable published rate schedule as set forth in Chapter 12.06.290 Street lighting and traffic signal service at the rate of ~~\$39.25, \$20.66, and \$13.01 per month per kilowatt of total connected load for Continuous, Dusk to Dawn, and Dusk to 2:20 a.m. lamps, respectively.~~

2. Capital Recovery Charge:

b. Accounting records shall be kept that record the differences between actual and estimated installation cost, and actual and estimated fixture-months billed. For biennia subsequent to that in which the fixtures are installed, the Capital Recovery Charge shall be calculated as follows:

(1) The amount required to be recovered from the Jurisdiction each month of the Capital Recovery Period shall be a net present value calculation based on the Utility Financing Cost and actual installation cost.

(2) The amount calculated in (1) shall be multiplied by the number of months in the rate period.

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(3) The amount in (2) shall be divided by the estimated number of fixture-months to be billed during the rate period.

(4) The amount in (3) shall be adjusted to reflect ~~thein~~ difference between actual and estimated expenses and recoveries during the biennium during which the fixtures were installed.

12.06.300 Private off-street lighting service – Schedule H-2. Effective April 1, 2018~~9~~, to March 31, 2020.

* * *

C. Monthly Rate.

1. High Pressure Sodium Lamps:

Lamp Rating (Watts/Lamp)	Type	Rental Charge
100-Watt	Sodium Vapor	\$13.47 \$12.95
200-Watt	Sodium Vapor	\$17.33 \$16.66
400-Watt	Sodium Vapor	\$34.65 \$33.32

2. All Other Lamps:

Lamp Rating (Watts-Equivalent/Lamp)	Rental Charge
0-200 Watt Equivalent	\$15.40 \$14.81
201-400 Watt Equivalent	\$34.65 \$33.32
401-800 Watt Equivalent	\$53.91 \$51.84
801-1000 Watt Equivalent	\$73.16 \$70.35
1001-1500 Watt Equivalent	\$92.42 \$88.87

* * *



EXHIBIT "B-1"

Chapter 12.06

ELECTRIC ENERGY – REGULATIONS AND RATES

Sections:

- 12.06.010 General application.
- 12.06.020 Definitions.
- 12.06.030 Available voltages.
- 12.06.040 Application for service and contract.
- 12.06.050 Inspection.
- 12.06.060 Equipment and wires.
- 12.06.070 Rearranging lines or equipment.
- 12.06.080 Metering.
- 12.06.090 Connected load.
- 12.06.100 Deposits and connection charges.
- 12.06.110 Billing – Payment of bills and delinquency.
- 12.06.115 Disconnection of electric service.
- 12.06.120 Resale of electric energy prohibited.
- 12.06.130 Diversion of current.
- 12.06.140 Tampering and injury to City equipment.
- 12.06.150 City not liable for damages.
- 12.06.160 Residential service – Schedule A-1. Effective April/July 1, 2020/19.
- 12.06.165 Low-income/senior and/or low-income/disabled discount residential service – Schedule A-2.
- 12.06.170 Small general service – Schedule B. Effective April/July 1, 2020/19.
- 12.06.180 *Repealed.*
- 12.06.190 *Repealed.*
- 12.06.210 *Repealed.*
- 12.06.215 General service – Schedule G. Effective April/July 1, 2020/19.
- 12.06.220 *Repealed.*
- 12.06.225 High voltage general service – Schedule HVG. Effective April/July 1, 2020/19.
- 12.06.240 *Repealed.*
- 12.06.250 *Repealed.*
- 12.06.260 Contract industrial service – Schedule CP. Effective April/July 1, 2020/19.
- 12.06.270 *Repealed.*
- 12.06.280 *Repealed.*
- 12.06.290 Street lighting and traffic signal service – Schedule H-1. Effective April/July 1, 2020/19.
- 12.06.295 Street lighting service – Schedule H-3. Effective April 1, 2018.
- 12.06.300 Private off-street lighting service – Schedule H-2. Effective April/July 1, 2020/19.
- 12.06.310 Power factor provisions – Schedule P.
- 12.06.314 Tax credit – Schedule TC.
- 12.06.315 *Repealed.*
- 12.06.317 *Repealed.*
- 12.06.318 *Repealed.*
- 12.06.320 Additional rules may be made by director.
- 12.06.330 Customer service policies – Additional rules and regulations.
- 12.06.340 Violations – Penalties – Enforcement.
- 12.06.350 Severability.
- 12.06.360 *Repealed.*
- 12.06.370 Renewable Energy Program.



12.06.160 Residential service – Schedule A-1. Effective ~~April~~ July 1, 2019 to March 31, 2020.

C. Monthly Rate. The sum of the following energy, delivery and customer charges:

1. Energy: All energy measured in kilowatt-hours at \$0.045351 per kWh.

2. Delivery: All energy delivered in kilowatt-hours at \$0.035353 ~~034891~~ per kWh.

3. Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: ~~\$16.90~~ 17.30 per month, for all but collectively metered apartments; ~~\$13.85~~ 14.15 per month, for collectively metered apartments.

4. Exceptions:

(a) Within the City of Fife:

(1) Energy: All energy measured in kilowatt-hours at \$0.045351 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.035353 ~~034891~~ per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: ~~\$16.90~~ 17.30 per month, for all but collectively metered apartments; ~~\$13.85~~ 14.15 per month, for collectively metered apartments.

(b) Within the City of Fircrest:

(1) Energy: All energy measured in kilowatt-hours at \$0.045351 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.035353 ~~034891~~ per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: ~~\$16.90~~ 17.30 per month, for all but collectively metered apartments; ~~\$13.85~~ 14.15 per month, for collectively metered apartments.

(c) Within the City of Lakewood:

(1) Energy: All energy measured in kilowatt-hours at \$0.045351 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.035353 ~~034891~~ per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: ~~\$16.90~~ 17.30 per month, for all but collectively metered apartments; ~~\$13.85~~ 14.15 per month, for collectively metered apartments.

(d) Within the City of Steilacoom:

(1) Energy: All energy measured in kilowatt-hours at \$0.045351 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.035353 ~~034891~~ per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: ~~\$16.90~~ 17.30 per month, for all but collectively metered apartments; ~~\$13.85~~ 14.15 per month, for collectively metered apartments.

(e) Within the City of University Place:

(1) Energy: All energy measured in kilowatt-hours at \$0.045351 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.035353 ~~034891~~ per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: ~~\$16.90~~ 17.30 per month, for all but collectively metered apartments; ~~\$13.85~~ 14.15 per month, for collectively metered apartments.



12.06.170 Small general service – Schedule B. Effective ~~April~~ July 1, 2020~~19 to March 31, 2020~~.

B. Monthly Rate. The sum of the following energy, delivery and customer charges:

1. Energy: All energy measured in kilowatt-hours at \$0.044616 per kWh.

2. Delivery: All energy delivered in kilowatt-hours at \$0.~~035207~~ ~~034895~~-per kWh.

3. Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$23.~~50~~ ~~00~~-per month, for all but unmetered services; \$~~18.30~~ ~~17.90~~ per month, for unmetered services.

4. Exceptions:

(a) Within the City of Fife:

(1) Energy: All energy measured in kilowatt-hours at \$0.044616 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.~~035207~~ ~~034895~~-per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$23.~~50~~ ~~00~~-per month, for all but unmetered services; \$~~18.30~~ ~~17.90~~ per month, for unmetered services.

(b) Within the City of Fircrest:

(1) Energy: All energy measured in kilowatt-hours at \$0.044616 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.~~035207~~ ~~034895~~-per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$23.~~50~~ ~~00~~-per month, for all but unmetered services; \$~~18.30~~ ~~17.90~~ per month, for unmetered services.

(c) Within the City of Lakewood:

(1) Energy: All energy measured in kilowatt-hours at \$0.044616 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.~~035207~~ ~~034895~~-per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$23.~~50~~ ~~00~~-per month, for all but unmetered services; \$~~18.30~~ ~~17.90~~ per month, for unmetered services.

(d) Within the City of Steilacoom:

(1) Energy: All energy measured in kilowatt-hours at \$0.044616 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.~~035207~~ ~~034895~~-per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$23.~~50~~ ~~00~~-per month, for all but unmetered services; \$~~18.30~~ ~~17.90~~ per month, for unmetered services.

(e) Within the City of University Place:

(1) Energy: All energy measured in kilowatt-hours at \$0.044616 per kWh.

(2) Delivery: All energy delivered in kilowatt-hours at \$0.~~035207~~ ~~034895~~-per kWh.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$23.~~50~~ ~~00~~-per month, for all but unmetered services; \$~~18.30~~ ~~17.90~~ per month, for unmetered services.

12.06.215 General service – Schedule G. Effective ~~April~~ July 1, 2020~~19 to March 31, 2020~~.

B. Monthly Rate. The sum of the following energy, delivery, and customer charges:

1. Energy: All energy measured in kilowatt-hours at \$0.~~049961~~ ~~047317~~-per kWh.



2. Delivery: All kilowatts of Billing Demand delivered at \$8.~~51.43~~ per kW.
3. Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$~~8078~~.00 per month.
4. Exceptions:
- (a) Within the City of Fife:
- (1) Energy: All energy measured in kilowatt-hours at \$0.~~049961 047317~~ per kWh.
- (2) Delivery: All kilowatts of Billing Demand delivered at \$8.~~51.43~~ per kW.
- (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$~~8078~~.00 per month.
- (b) Within the City of Fircrest:
- (1) Energy: All energy measured in kilowatt-hours at \$0.~~049961 047317~~ per kWh.
- (2) Delivery: All kilowatts of Billing Demand delivered at \$8.~~51.43~~ per kW.
- (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$~~8078~~.00 per month.
- (c) Within the City of Lakewood:
- (1) Energy: All energy measured in kilowatt-hours at \$0.~~049961 047317~~ per kWh.
- (2) Delivery: All kilowatts of Billing Demand delivered at \$8.~~51.43~~ per kW.
- (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$~~8078~~.00 per month.
- (d) Within the City of Steilacoom:
- (1) Energy: All energy measured in kilowatt-hours at \$0.~~049961 047317~~ per kWh.
- (2) Delivery: All kilowatts of Billing Demand delivered at \$8.~~51.43~~ per kW.
- (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$~~8078~~.00 per month.
- (e) Within the City of University Place:
- (1) Energy: All energy measured in kilowatt-hours at \$0.~~049961 047317~~ per kWh.
- (2) Delivery: All kilowatts of Billing Demand delivered at \$8.~~51.43~~ per kW.
- (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$~~8078~~.00 per month.
- ***
- 12.06.225 High voltage general service – Schedule HVG. Effective ~~April~~ July 1, 20~~2019~~ to March 31, 2020.**
- ***
- B. Monthly Rate. The sum of the following energy, delivery, and customer charges:
1. Energy: All energy measured in kilowatt-hours at \$0.~~044175 042915~~ per kWh.
2. Delivery: All kilowatts of Billing Demand delivered at \$~~5.034.89~~ per kW.
3. Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$1.~~65~~90.00 per month.
4. Exceptions:
- (a) Within the City of Fife:
- (1) Energy: All energy measured in kilowatt-hours at \$0.~~044175 042915~~ per kWh.
- (2) Delivery: All kilowatts of Billing Demand delivered at \$~~5.034.89~~ per kW.
- (3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$1.~~65~~90.00 per month.
- (b) Within the City of Fircrest:



- (1) Energy: All energy measured in kilowatt-hours at \$0.~~044175~~ ~~042915~~ per kWh.
(2) Delivery: All kilowatts of Billing Demand delivered at \$~~5.034.89~~ per kW.
(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$1,~~65~~90.00 per month.

(c) Within the City of Lakewood:

- (1) Energy: All energy measured in kilowatt-hours at \$0.~~044175~~ ~~042915~~ per kWh.
(2) Delivery: All kilowatts of Billing Demand delivered at \$~~5.034.89~~ per kW.
(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$1,~~65~~90.00 per month.

(d) Within the City of Steilacoom:

- (1) Energy: All energy measured in kilowatt-hours at \$0.~~044175~~ ~~042915~~ per kWh.
(2) Delivery: All kilowatts of Billing Demand delivered at \$~~5.034.89~~ per kW.
(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$1,~~65~~90.00 per month.

(e) Within the City of University Place:

- (1) Energy: All energy measured in kilowatt-hours at \$0.~~044175~~ ~~042915~~ per kWh.
(2) Delivery: All kilowatts of Billing Demand delivered at \$~~5.034.89~~ per kW.
(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$1,~~65~~90.00 per month.

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12.06.260 Contract industrial service – Schedule CP. Effective ~~April~~ July 1, 20~~2019~~ to March 31, 2020.

* * *

1. Power Service Charges:

(a) Energy: All Contract Energy (as set forth in the Contract) measured in kilowatt-hours at \$0.033038 per kWh.

(b) Demand: All kilowatts of Billing Demand delivered at \$~~5.074.68~~ per kW.

(c) Minimum Charge: The Demand Charge.

(d) Contract Energy Overrun: All energy measured in excess of the Contract Energy (as set forth in the Contract) is subject to a Contract Energy Overrun charge, pursuant to the following formula:

Contract Energy Overrun Charge = (MWh + Losses) x (THI + Tx) x 120%.

Where: MWh = the aggregate MWh over the day the customer's total measured daily load was above the Contract Energy amount; Losses = MWh x 1.9%; THI = the highest hourly price observed on the Tacoma Hourly Index within the day of overrun; Tx = applicable BPA or successor organization, transmission rate in \$ per MWh.

(e) Contract Demand Overrun: A Contract Demand Overrun charge shall be imposed when the total measured demand (highest 30-minute integrated demand) exceeds the Contract Demand (as set forth in the Contract).

Said charge is pursuant to the following formula:

Contract Demand Overrun Charge = MW x 300% x DC

Where: MW = MW of metered Demand in excess of the Contract Demand; DC = Demand Charge.

2. Delivery: All kilowatts of Billing Demand delivered at \$4.~~4523~~ per kW.

3. Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$~~13~~,980.00 per month.

4. Exceptions:

(a) Within the City of Fife:



(1) Power Service Charges:

(i) Energy: All Contract Energy (as set forth in the Contract) measured in kilowatt-hours at \$0.033038 per kWh.

(ii) Demand: All kilowatts of Billing Demand delivered at ~~\$5.074~~ ~~68~~ per kW.

(iii) Minimum Charge: The Demand Charge.

(iv) Contract Energy Overrun: All energy measured in excess of the Contract Energy (as set forth in the Contract) is subject to a Contract Energy Overrun charge, pursuant to the following formula:

Contract Energy Overrun Charge = (MWh + Losses) x (THI + Tx) x 120%

Where: MWh = the aggregate MWh over the day the customer's total measured daily load was above the Contract Energy amount; Losses = MWh x 1.9%; THI = the highest hourly price observed on the Tacoma Hourly Index within the day of overrun; Tx = applicable BPA or successor organization, transmission rate in \$ per MWh.

(v) Contract Demand Overrun: A Contract Demand Overrun charge shall be imposed when the total measured demand (highest 30-minute integrated demand) exceeds the Contract Demand (as set forth in the Contract). Said charge is pursuant to the following formula:

Contract Demand Overrun Charge = MW x 300% x DC

Where: MW = MW of metered Demand in excess of the Contract Demand; DC = Demand Charge.

(2) Delivery: All kilowatts of Billing Demand delivered at ~~\$4.4522~~ per kW.

(3) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: ~~\$43,980.00~~ per month.

C. Billing Demand. Determined by means of a demand meter, 30-minute interval, reset monthly.

1. The Billing Demand shall be the highest of:

(a) The highest measured demand for the month, adjusted for power factor;

(b) 60 percent of the highest measured demand occurring during any of the preceding 11 months after adjustment for power factor;

(c) A demand level equal to the Contract Energy, in average megawatt (as set forth in the Contract); or

(d) 60 percent of the highest Contract Demand (as set forth in the Contract) during any of the preceding 11 months.

12.06.290 Street lighting and traffic signal service – Schedule H-1. Effective ~~April~~ ~~July~~ 1, 20~~20~~~~19~~ to March 31, 2020.

B. Monthly Rate. Rates stated herein are for (1) unmetered installations [items 1 and 2] where charges are per fixture and shall be applied to the number of installed units on the system as determined by Tacoma Power at the time the billing is rendered, and (2) metered installations [item 3].

1. Street Lighting Units (Unmetered):

(a) Incandescent Lamps:

Nominal Wattage	Energy Charge Per Unit
Up to 150 Watts	\$3.35 \$3.22
151-220 Watts	\$4.92 \$4.73
221-320 Watts	\$7.15 \$6.87
321-520 Watts	\$11.62 \$11.17
521 & Over Watts	\$18.32 \$17.62



(b) High Intensity Discharge Lamps:

Energy Charge Per Unit			
Nominal Wattage	Continuous	Dusk to Dawn	Dusk to 2:20 a.m.
50 Watts	\$2.49 \$2.39	\$1.34 \$1.29	\$0.84 \$0.81
70 Watts	\$3.47 \$3.34	\$1.88 \$1.81	\$1.18 \$1.13
100 Watts	\$4.96 \$4.77	\$2.68 \$2.58	\$1.69 \$1.62
150 Watts	\$7.45 \$7.17	\$4.02 \$3.87	\$2.53 \$2.43
175 Watts	\$8.69 \$8.35	\$4.69 \$4.51	\$2.95 \$2.84
200 Watts	\$9.93 \$9.55	\$5.36 \$5.16	\$3.37 \$3.24
250 Watts	\$12.42 \$11.94	\$6.71 \$6.45	\$4.22 \$4.06
310 Watts	\$15.39 \$14.80	\$8.32 \$8.00	\$5.23 \$5.03
400 Watts	\$19.86 \$19.09	\$10.73 \$10.32	\$6.75 \$6.49
700 Watts	\$34.75 \$33.42	\$18.77 \$18.04	\$11.82 \$11.37
1000 Watts	\$45.51 \$43.76	\$24.58 \$23.64	\$15.48 \$14.88
1500 Watts	\$74.47 \$71.60	\$40.22 \$38.68	\$25.33 \$24.36

(c) At the discretion of Tacoma Power, all lamps may be charged the following equivalent rate: Energy charge for lamp installations at the rate of ~~\$41.37~~ \$39.78, ~~\$22.35~~ \$21.49, and ~~\$14.07~~ \$13.53 per month per kilowatt of total connected load for Continuous, Dusk to Dawn, and Dusk to 2:20 a.m. lamps, respectively.

3. Street Lighting and Traffic Control Units (Metered): The sum of the following energy, delivery and customer charges:

(a) Energy: All energy measured in kilowatt-hours at \$0.035690 per kWh.

(b) Delivery: All energy delivered in kilowatt-hours at \$0.015~~883~~ \$1.45 per kWh.

(c) Customer Charge: Calculated on a monthly basis, invoiced, and collected pursuant to the applicable customer service policies: \$10.00 per month.

12.06.300 Private off-street lighting service – Schedule H-2. Effective April~~July~~ 1, 20~~19~~20 to March 31, 2020.

C. Monthly Rate.

1. High Pressure Sodium Lamps:

Lamp Rating (Watts/Lamp)	Type	Rental Charge
100-Watt	Sodium Vapor	\$14.01 \$13.47
200-Watt	Sodium Vapor	\$18.02 \$17.33
400-Watt	Sodium Vapor	\$36.04 \$34.65

2. All Other Lamps:

Lamp Rating (Watts-Equivalent/Lamp)	Rental Charge
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0-200 Watt Equivalent	\$16.02 \$15.40
201-400 Watt Equivalent	\$36.04 \$34.65
401-800 Watt Equivalent	\$56.07 \$53.91
801-1000 Watt Equivalent	\$76.09 \$73.16
1001-1500 Watt Equivalent	\$96.12 \$92.42

3. Additional Equipment: Fixtures will be installed on existing poles. Additional poles required for a lighting installation may be installed at applicant expense. A maximum of three poles will be allowed at a cost of \$624.23 per pole. Ancillary materials will be an additional expense. The customer shall pay the entire installation cost prior to installation.

4. For customers billed under low-income senior and/or low-income disabled discount residential service, Rate Schedule A-2, a discount will be provided by reducing the monthly bill by 30 percent.

D. Service Conditions. Applicable provisions of the Tacoma Municipal Code, General Provisions, and Customer Service Policies governing the sale of electric energy shall apply.

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