

Informational Update from Electric Department

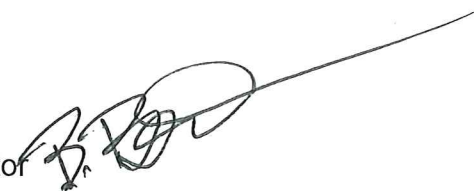


City and Borough of Sitka

100 Lincoln Street • Sitka, Alaska 99835

MEMORANDUM

To: Mayor Paxton and Assembly Members
Keith Brady, Municipal Administrator

From: Bryan J. Bertacchi, Electric Utility Director 

Cc: Jay Sweeney, CFAO

Date: 12/3/2018

Subject: Award of Transformer Procurement for Marine Street N-1 Project

Executive Summary

N-1 Capital Project (\$4.3M): The capital project to replace the forty year old Marine Street Substation is very important as this electrical substation provides service to over eighty percent of all Sitka customers. Recently, the CBS procurement policy was utilized to solicit bids for a new three phase transformer which is a critical component to this project. Four bidders responded to the solicitation and the successful bidder was Virginia Transformer. The four bidders were reviewed against a planned evaluation criteria, and Virginia Transformer was selected as the best value and specification compliant bidder. Subject to execution of a contract between CBS and Virginia Transformer, a Purchase Order will be issued by CBS for the approximate \$700,000 cost. The transformer will be constructed in Pocatello, Idaho. Presently, a total of \$4.3M is already appropriated for this project and no changes to existing electric rates are required to fund this project.

Details

On September 27, 2016 an Assembly Workshop detailed the Electric Department 10 Year Capital Plan (attached). A cornerstone of this review was the N-1 Project which details the replacement of the Marine Street Substation and the critical importance of this substation to the Community. Subsequent to this Workshop the Electric Department Capital was adjusted by means of Ordinance 2016-33 (attached) and additionally by annual budget appropriations in support of the 10 Year Capital Plan. At present, the N-1 Project is #90823 with a total of \$4.3M appropriated.

The engineering required to design this replacement substation, while providing minimal interruption to our customers, is substantial. The new design takes into account future projected loads while considering our physical constraints in the Marine Street location along with limits on crane size availability in SE Alaska. Our third party engineering consulting firm, EPS, was used to assist in evaluating the bidders. The bid evaluation is attached.



Tony Bird
T & D Manager, Electric Department
City & Borough of Sitka
105 Jarvis Street
Sitka, AK 99835

November 27, 2018

Subject: Marine Street Substation N-1 Project Transformer Bid Evaluation

Tony,

EPS evaluated the four quotes that the City and Borough of Sitka received for a new 15/20/25 MVA power transformer for the Marine Street Substation N-1 project. The evaluation consisted of lowest capital cost as well as a weighted cost of \$4,000 per kW of energy losses for each transformer. The quotes were based on the detailed specification created by EPS and used by CBS in their procurement process. The below table summarizes the bid results and findings.

Manufacturer	SPX	Virginia Transformer	WEG Transformers	ABB
XFMR DATA	Total Weighted Cost at \$4,000/kw	Total Weighted Cost at \$4,000/kw	Total Weighted Cost at \$4,000/kw	Total Weighted Cost at \$4,000/kw
No Load Losses kW	\$44,800	\$50,040	\$40,000	Not provided
Load Losses kW	\$213,400	\$259,880	\$208,800	Not provided
Losses Total Cost	\$258,200	\$309,920	\$248,800	Not provided
Transformer Bid Price	\$845,931	\$682,761	\$712,681	\$851,636
Shipping	\$0	\$0	\$0	\$0
Total Evaluated Price	\$1,104,131	\$992,681	\$961,481	Not available
Shipping Weight (lbs)	113,000	69,000	76,000	92,300
FOB Shipping Origin	Goldsborough, NC	Pocotello, ID	Tizayuca, Mexico	Crystal Springs, MS
Lead Time (wks)	45	30	34-36	32
Meets specifications	No (weight)	Yes *	No (FOB Origin)	Incomplete submittal

(* - clarifications required prior to contracting)

Virginia Transformers is found to be the lowest responsive bidder that meets intent of the technical specifications. Note that a brief clarification with Virginia Transformers on their proposal is needed prior to a contract being finalized. SPX was disqualified due to the shipping weight exceeding local limitations. WEG was disqualified due to the FOB origin not meeting the specification. ABB was found non-responsive due to missing information regarding losses.

If you have questions or require additional information, feel free to contact me at 907-523-3104.

Thank you,

A handwritten signature in black ink, appearing to read 'William Brown-Farrell', written in a cursive style.

William Brown-Farrell, PE, PMP
Electrical Engineer
Electric Power Systems, Inc.

**Worksession: Electric Department 10 Year
Capital Plan and
an overview of Ordinance 2016-38**





September 1, 2016

To: Mark Gorman, Municipal Administrator
Via: Jay Sweeney, Chief Finance & Administrative Officer
From: Bryan Bertacchi, Electric Utility Director

Subject: Electric Department - 10 Year Capital Plan and Associated Funds Transfer

Executive Summary:

The Electric Department respectfully requests Assembly approval of a revised and consolidated ten year capital plan. This ten year plan includes expending a total of \$22M in capital over the ten year period while maintaining an emergency reserve of \$2.5M and a liquidity reserve of \$1.0M. These reserve requirements are based on industry best practice as recommended by the CBS Chief Finance and Administrative Officer. The currently available Electric Department total working capital of \$15,881,204 will be increased by a \$1.5M/year due to the bond covenants. This request includes a revision to all Electric Department existing capital projects ("re-appropriation") as well as newly identified projects to provide a complete consolidation. This recommendation comes after an eight month long process within the Electric Department which included detailed reviews coupled with 3rd party engineering studies. These projects are lengthy and interrelated, thus approval of the complete revision is requested.

Background:

The electrical infrastructure of the Electric Department required a thorough review to ensure that efficient and reliable operation will be sustained at the lowest reasonable cost. After review, it was identified that the available working capital was not sufficient to support the total number of capital projects identified. However, after an intensive and long process, staff is able to recommend a series of projects which can be completed within the existing capital constraints and that have the highest probability of ensuring reliability at low cost to our citizens and customers.

Highlights:

1. **N-1 Project (\$3.9M):** This term is used in our industry to describe redundancy and emergency backup. As we have often described, 80% of our citizens and customers are served from the Marine Street Substation. A back-up for this substation is imperative and necessary as the existing equipment is now over 35 years old. A new substation north of town would be ideal (Kramer Ave area) however the cost was identified as being too high (>\$13M of the available capital would be consumed). Alternatively, we are proposing to install a 2nd bay at the existing Marine Street Substation at a cost of approximately \$3.9M. This second bay would still utilize a portion of the older equipment, but the overall cost is substantially lower. This modification would also increase the amount of power that can be delivered from the Jarvis Substation to Marine Street customers in the

event of an emergency. While not ideal, this provides the greatest increase in emergency backup at the lowest cost.

2. Green Lake Power Plant Overhaul (\$4.8M): The Green Lake Power Plant is a very valuable asset for the community and has not been overhauled since the early 1990's. A major pre-inspection is scheduled for 2018 which will help to further define and identify the costs of a major overhaul. Similar plants have had overhauls in the cost range of \$8M when a full rewind of the generators was required. We are currently recommending a reserve of 4.8M for this item. Numerous small inspections during the last twelve months have clearly demonstrated specific needs to return this overhaul to the list of required capital items.
3. Jarvis Fuel System Repairs/Storage (\$1.5M) & Thimbleberry Bypass (\$3.8M): These two items are directly related. In August 2015 the fuel release demonstrated a need for extensive repairs and redesign to the Jarvis Street fuel storage system. Presently, the system was designed for over seven days of fuel storage. This period was defined by the time needed to repair the worst case scenario on the electrical transmission line...the Thimbleberry portion of the transmission line. The existing Thimbleberry portion of our 69kv backbone transmission line is installed in difficult and dangerous terrain and is subject to outages from fallen trees and extensive degradation of transmission poles. Presently, a repair during winter months has demonstrated to be dangerous and time-consuming (on the order of seven days), thus setting the amount of fuel storage required. This plan, proposes to permit and install a bypass to the existing transmission line from the Whale park area to the Blue Lake Switchyard. This line would be planned on the inside of the roadway to minimize the impacts to the viewshed. This line will reduce the cost of annual diesel fuel burned, reduce the redesign costs of the Jarvis fuel system (\$2M saved), likely eliminate the need to replace the very old diesel generation units at the Jarvis facility (\$10M saved), and eliminate the costly and dangerous maintenance required on the existing transmission line.
4. Feeder Improvements (\$1.6M): A host of miscellaneous feeder improvements are planned and required. Extensive aging and environment requires sufficient engineering, planning, inventory and lead time.
5. Blue Lake 3rd Turbine (\$2.48M): A significant host of items are needed to close out this project and are required for compliance with the FERC permit including but not limited to: the dam overlook project, the campground, safety ladders on the dam, rock removal, etc.
6. SCADA System (\$230,000): A significant amount of work has already been performed to remove the Electric Department control system from the interface with commercial carriers thus making the system significantly more secure. Additionally, the Green Lake power house and many of the system field breakers have only very limited control capability making outages more frequent and longer with extensive personnel overtime. These changes will improve safety and reliability and will bring old systems up to date significantly extending the life of the equipment (which lowers overall costs).
7. Capital for Fuel Conversions (\$1.2M): With the assistance of Siemens Engineering, a number of facilities have been identified for conversion to dual fuel (Electric Interruptible boilers). These projects have a three year return on the invested capital and will subsequently improve revenue for the department and reduce the need for rate increases to all citizens.
8. Harbor Meters (\$75,000): The revised electric rates will include an increase to the monthly rate for harbor meters which was reviewed and supported by the Harbor

Commission. This increase will generate annual revenue of approximately \$75,000 per year to support the needed replacement of failed harbor meters (currently approximately 75 meters out of service). These capital funds will be used to “kick start” this program to allow replacement of first 30 meters. Additional funding will be requested as the revenue is generated.

9. Jarvis Electric Storage and Shop Building (previously \$1.2M being reduced to \$85,000):
Assembly members previously expressed concern at the older approved capital project (over \$1.2M) to add a new warehouse to the Jarvis Street Complex. The approval of this project was suspended by the Electric Department last year and has been revised to adding a number of new replacement cargo containers and an office trailer adjacent to the existing switchgear room.
10. Other Items on the list – Include existing approved capital projects which are being updated to reflect the balance needed for completion. Some additional new items are included for Safety, automatic start of back-up generators at Blue Lake/Green Lake, and a replacement roof for Green Lake.

Recommendation:

Approve the Electric Department 10 year Capital Plan.

ELECTRIC DEPARTMENT 10 YEAR CAPITAL PLAN

B. Bertacchi - 8/25/2016

Rev 2

		Required	Desired Status	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	TOTAL
63010	Green Lake FERC Compliance: Inspect and Upgrades	141,291	OPEN	105,000	36,291								141,291
90562	Green Lake Power Plant Improvements	334,697	OPEN	50,000	50,000	50,000	50,000	50,000	50,000	34,697			334,697
90594	Blue Lake Third Turbine and Dam Upgrade	2,477,001	OPEN	500,000	560,000	340,000	760,000	250,000	67,001				2,477,001
90610	Blue Lake FERC License Mitigation	423,734	OPEN	220,000	93,790	109,944							423,734
90614	Takatz Lake Hydroelectric (open pending Grant Aug FY17)	(0)	OPEN										0
90645	Jarvis Street Diesel Capacity Increase	(21,361)	CLOSE	(21,361)									(21,361)
90717	Jarvis Street Improvements	27,781	OPEN	27,781									27,781
90794	Jarvis Bulk Tank Improvements	0	OPEN										0
90804	Blue Lake Powerhouse Conversion	150,000	OPEN									150,000	150,000
- New -	Blue Lake Howell Bunker Valve	0	NEW										0
- New -	Green Lake Power Plant 35yr Overhaul	4,900,000	NEW		0	4,900,000	0	0					4,900,000
- New -	Green Lake Power Plant pre overhaul inspection	380,000	NEW		380,000								380,000
- New -	Jarvis Fuel System Repairs and Storage Tanks	1,500,000	NEW		200,000	700,000	500,000	100,000					1,500,000
- New -	Blue Lake Auto start Back-up Diesel	70,000	NEW			70,000							70,000
- New -	Green Lake Auto start Back-up Diesel	20,000	NEW				20,000						20,000
- New -	Green Lake Re-roof	225,000	NEW						225,000				225,000
80003	Feeder Improvements	1,600,000	OPEN	200,000	200,000	200,000	200,000	200,000	200,000	200,000	100,000	100,000	1,600,000
90261	Island Improvements	225,000	OPEN	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	225,000
90512	SMC Road Upgrades Express Feeder	0	CLOSE										0
90627	Marine Street Substation Voltage Regulator	0	CLOSE										0
90645	HPR - Kramer - Cascade Creek Line Riser	0	CLOSE										0
90648	Transmission & 1220 Upgrade	0	CLOSE										0
90672	Medevette Hatchery Transformer Replacement	45,000	OPEN	45,000									45,000
90718	Marine Street Substation Replacements	160,000	OPEN	20,000	20,000	20,000	20,000	20,000	20,000	20,000	10,000	10,000	160,000
90765	Jarvis St. Control Building Roof Replacement	0	CLOSE										0
- New -	Marine St N-1 Design to New HPR North Sub	3,900,000	NEW	1,400,000	1,500,000	0							2,900,000
- New -	69 kV Thimbleberry Trans Line Bypass	3,800,000	NEW		20,000	20,000	60,000	300,000	1,000,000	1,400,000	1,000,000		3,800,000
80040	Automated Meter Reading	32,085	OPEN	32,085									32,085
90410	SCADA System Enhancements	230,000	OPEN	110,000	120,000								230,000
90611	Microwave or Fiber Optic	0	CLOSE										0
90628	Demand Side Load Management- (close 6/30/15)	14,437	OPEN	14,437									14,437
90777	Meter Replacement Upgrading Meters	95,000	OPEN	45,000	50,000								95,000
90791	Dual Fuel Interruptible Power	0	CLOSE										0
90719	Jarvis Warehouse Paving	0	CLOSE										0
90776	Jarvis Electric Storage & Shop Building	85,000	OPEN	85,000									85,000
- New -	Capital for Fuel Conversions (Interruptibles)	1,200,000	NEW	600,000	600,000								1,200,000
- New -	Asset Management	12,800	NEW										12,800
- New -	Safety - Arc Flash, Training, Equipment and Implementation support	50,000	NEW	20,000	10,000	10,000	10,000						50,000
- New -	Harbor Meters	75,000	NEW	75,000									75,000
TOTAL		22,152,464		3,555,742	3,855,081	6,444,944	1,645,000	945,000	1,587,001	1,679,697	1,135,000	285,000	21,152,464

Existing Total Working Capital as of 8/2016	15,881,204											
Working Capital Growth per year	1,500,000			1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	
Liquidity to Maintain	(1,000,000)											
Emergency Reserve to Maintain	(2,500,000)											
Calculated Avail Cap per year	12,381,204			8,815,462	6,450,381	1,505,437	1,360,437	1,915,437	1,828,437	1,648,740	2,013,740	3,228,740

ELECTRIC DEPARTMENT 10 YEAR CAPITAL PLAN

B. Bertacchi - 8/25/2016

Rev 2

		Required	Desired Status	FY17	Current Balance	Funding needed for FY2017	Closed Projects Re-appropriate Funds	Reappropriate	Balance
63010	Green Lake FERC Compliance: Inspect and Upgrades	141,291	OPEN	105,000	\$ 137,993.58				
90562	Green Lake Power Plant Improvements	334,697	OPEN	50,000	\$ 197,319.89				
90594	Blue Lake Third Turbine and Dam Upgrade	2,477,001	OPEN	500,000	\$ 5,531,526.28			\$ 971,213.76	\$ 4,060,312.52
90610	Blue Lake FERC License Mitigation	423,734	OPEN	220,000	\$ 423,733.62				
90614	Takatz Lake Hydroelectric (open pending Grant Aug FY17)	(0)	OPEN		\$ 488,555.66				
90646	Jarvis Street Diesel Capacity Increase	(21,361)	CLOSE	(21,361)	\$ 244,393.41		\$ 244,393.41		
90717	Jarvis Street Improvements	27,781	OPEN	27,781	\$ 27,780.97				
90794	Jarvis Bulk Tank Improvements	0	OPEN		\$ 381.05				
90804	Blue Lake Powerhouse Conversion	150,000	OPEN		\$ 150,000.00				
- New -	Blue Lake Howell Bunker Valve	0	NEW						
- New -	Green Lake Power Plant 35yr Overhaul	4,900,000	NEW						
- New -	Green Lake Power Plant pre overhaul inspection	380,000	NEW						
- New -	Jarvis Fuel System Repairs and Storage Tanks	1,500,000	NEW						
- New -	Blue Lake Auto start Back-up Diesel	70,000	NEW						
- New -	Green Lake Auto start Back-up Diesel	20,000	NEW						
- New -	Green Lake Re-roof	225,000	NEW						
80003	Feeder Improvements	1,600,000	OPEN	200,000	\$ 118,328.00	\$ 81,672.00			
90261	Island Improvements	225,000	OPEN	25,000	\$ 65,087.91				
90512	SMC Road Upgrades Express Feeder	0	CLOSE		\$ 9,574.57		\$ 9,574.57		
90627	Marine Street Substation Voltage Regulator	0	CLOSE		\$ 9,150.00		\$ 9,150.00		
90645	HPR - Kramer - Cascade Creek Line Riser	0	CLOSE		\$ 21,985.05		\$ 21,985.05		
90648	Transmission & 1220 Upgrade	0	CLOSE		\$ 4,519.98		\$ 4,519.98		
90672	Medevecje Hatchery Transformer Replacement	45,000	OPEN	45,000	\$ 153,954.20				
90718	Marine Street Substation Replacements	160,000	OPEN	20,000	\$ 89,521.54				
90765	Jarvis St. Control Building Roof Replacement	0	CLOSE		\$ 12,223.05		\$ 12,223.05		
- New -	Marine St N-1 Design to New HPR North Sub	3,900,000	NEW	1,400,000		\$ 1,400,000.00			
- New -	69 kV Thimbleberry Trans Line Bypass	3,800,000	NEW						
80040	Automated Meter Reading	32,085	OPEN	32,085	\$ 55,215.94				
90410	SCADA System Enhancements	230,000	OPEN	110,000	\$ 44,298.77	\$ 65,701.23			
90611	Microwave or Fiber Optic	0	CLOSE		\$ 37,618.48		\$ 37,618.48		
90628	Demand Side Load Management- (close 6/30/15)	14,437	OPEN	14,437	\$ 24,437.93				
90777	Meter Replacement Upgrading Meters	95,000	OPEN	45,000	\$ 181,514.75				
90791	Dual Fuel Interruptible Power	0	CLOSE		\$ 78,979.09		\$ 78,979.09		
90719	Jarvis Warehouse Paving	0	CLOSE		\$ 30,899.79		\$ 30,899.79		
90776	Jarvis Electric Storage & Shop Building	85,000	OPEN	85,000	\$ 919,616.05			\$ 834,616.05	\$ -
- New -	Capital for Fuel Conversions (Interruptibles)	1,200,000	NEW	600,000		\$ 600,000.00			
- New -	Asset Management	12,800	NEW	12,800		\$ 12,800.00			
- New -	Safety - Arc Flash, Training, Equipment and implementation support	50,000	NEW	20,000		\$ 20,000.00			
- New -	Harbor Meters	75,000	NEW	75,000		\$ 75,000.00			
TOTAL		22,152,464		3,565,742	\$ 1,372,580.80	\$ 2,255,173.23	\$ 449,343.42		
					Closed Accts	\$ 449,343.42			
						\$ 1,805,829.81			
						\$ 834,616.05	Jarvis Electric Storage & Shop Building #90776		
						\$ 971,213.76	Blue Lake Third Turbine and Dam Upgrade #90594		
					Balance	\$ -			



1002 O'Connell Ave.
Room 229
Sitka, AK
(907)747-1811

Meeting Agenda

City and Borough Assembly

Mayor Mim McConnell
Deputy Mayor Matt Hunter
Vice-Deputy Mayor Benjamin Miyasato
Aaron Swanson, Steven Eisenbeisz
Tristan Guevin, and Bob Potrzuski

Municipal Administrator: Mark Gorman
Municipal Attorney: Brian Hanson

Tuesday, September 27, 2016

6:00 PM

Assembly Chambers

WORKSESSION 5:00 PM

16-168

Worksession: Electric Department 10 Year Capital Plan and Overview of Ordinance 2016-38: Amending Sitka General Code Chapter 15.01 "Electric Utility Policies", at Section 15.01.020 "Electrical Rates", by increasing electrical rates, adding provisions to interruptible rates, and removing Section 15.01.015 "Construction Guidelines", Section 15.01.085 "Carrier Current" and Section 15.01.090 "Rebate Program for Electric Heat Pump Heating Systems" (no action will be taken during the worksession)

Attachments: [Memo Electric Department 10 Year Capital Plan.pdf](#)

[Electric Department -Rates and 10 year plan.pdf](#)

[Ord 2016-38.pdf](#)

[Finance Department Customer Service Procedures 9-9-2016.pdf](#)

[Electrical Dept Construction Guidelines.pdf](#)

CITY AND BOROUGH OF SITKA - Action Details

Details

File #: ORD 16-33 Version: 1
Type: Ordinance
Title: Adjusting the FY17 Budget
Mover: [Benjamin Miyasato](#)
Result: Pass

Seconded by: [Aaron Swanson](#)

Agenda note:

Minutes note:

Chief Finance and Administrative Officer, Jay Sweeney, stated the Ordinance included a series of capital project appropriations (10 year plan) for the Electric Department. Sweeney reminded that capital project appropriations did not expire and remained in place until the project was complete or the project no longer existed. Potzowski, Guevin, and McConnell expressed appreciation to the Electric Department for their work in completing a 10 year capital project plan. Eisenbeisz wished to see the Blue Lake Dam overlook project/campground be given a higher priority to give rate payers access to the area. Utility Director, Brian Bertacchi, stated the Blue Lake Road repair project had been awarded. He noted this was a key step in regaining public access to the dam overlook and campground. Bertacchi hoped the area would be open to the public by late summer 2017.

Action:

APPROVED

Action text:

A motion was made by Miyasato that this Ordinance be APPROVED on SECOND AND FINAL READING. The motion PASSED by the following vote.

Votes (7:0)

9 records Group Export

Person Name	Vote
Mim McConnell	Yes
Aaron Swanson	Yes
Benjamin Miyasato	Yes

CITY AND BOROUGH OF SITKA

ORDINANCE NO. 2016-33

**AN ORDINANCE OF THE CITY AND BOROUGH OF SITKA
ADJUSTING THE FY17 BUDGET**

BE IT ENACTED by the Assembly of the City and Borough of Sitka, Alaska as follows:

1. **CLASSIFICATION.** This ordinance is not of a permanent nature and is not intended to be a part of the Sitka General Code of the City and Borough of Sitka, Alaska.

2. **SEVERABILITY.** If any provision of this ordinance or any application thereof to any person or circumstance is held invalid, the remainder of this ordinance and application thereof to any person and circumstances shall not be affected thereby.

3. **PURPOSE.** The purpose of this ordinance is to adjust the FY17 budgets for known changes.

4. **ENACTMENT.** The Assembly of the City and Borough of Sitka hereby adjusts the FY17 budget for known changes. In accordance with Section 11.10(a) of the Charter of the City and Borough of Sitka, Alaska, the budget for the fiscal period beginning July 1, 2016 and ending June 30, 2017 is hereby adjusted as follows:

<u>FISCAL YEAR 2017 EXPENDITURE BUDGETS</u>
<p>In accordance with Section 11.10(a) of the Charter of the City and Borough of Sitka, Alaska, the budget for the fiscal period beginning July 1, 2016 and ending June 30, 2017 is hereby adjusted as follows for the purchase orders open as of June 30, 2016.</p> <p>General Fund -- Amount of \$219,205.38; Electric Fund - \$129,805.47; Water Fund - \$865.70; Wastewater Treatment Fund - \$19,210.09; Solid Waste Fund - \$1,503; Harbor Fund - \$42,204.92; Gary Paxton Industrial Complex Fund - \$40,106.59; MIS Fund - \$84,647.56; Central Garage Fund - \$75,394.00; and Building Maintenance Fund - \$34,811.36.</p>
<p>Finance -- Operations: The Finance Director has requested to re-appropriate funds in the amount of \$30,000 from personnel to contracted/ purchased services. This is due to the services performed from an outside accounting firm due to the Deputy Finance Director position vacancy.</p>

ENTERPRISE AND INTERNAL SERVICE FUNDS

Electric Department – Capital Projects: The Electric Utility Director has requested to re-appropriate the following projects and amounts: Jarvis Street Diesel Capacity Increase #90646 in the amount of \$244,393; SMC Road Upgrades Express Feeder #90512 for \$9,574; Marine Street Substation Voltage Regulator #90627 for \$9,150; HPR-Kramer Cascade Creek Line Riser #90645 for \$21,985; Transmission & 1220 Upgrade #90648 for \$4,519; Jarvis St. Control Building Roof Replacement #90765 for \$12,223; Microwave or Fiber Optic #90611 for \$37,618; Dual Fuel Interruptible Power #90791 for \$78,979; Jarvis Warehouse Paving #90719 for \$30,899 to the following existing and new requested projects: Feeder Improvements #80003 for \$195,838; SCADA System Enhancements #90410 for \$65,702; Capital for Fuel Conversions (Interruptible) for \$100,000; Asset Management for \$12,800; and Harbor Meters for \$75,000.

Electric Department – Personnel: At the August 9, 2016 meeting, the Assembly approved the 2016-2019 International Brotherhood of Electrical Workers (IBEW), Local 1547 Collective Bargaining Agreement. An amount of \$79,106 in wages and benefits will be increased in the Electric Department's personnel account.

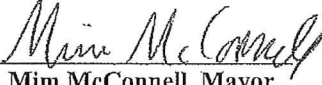
EXPLANATION

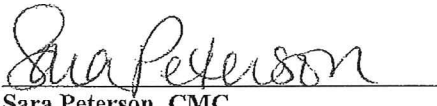
Necessary revisions in the FY 2017 budget were identified. These changes involve the increase of expenditure accounts and causes decreased cash flows to the fund balance of various funds. A short explanation of each budget revision is included.

5. EFFECTIVE DATE. This ordinance shall become effective on the day after the date of its passage.

PASSED, APPROVED, AND ADOPTED by the Assembly of the City and Borough of Sitka, Alaska this 11th Day of October, 2016.

ATTEST:


Mim McConnell, Mayor


Sara Peterson, CMC
Municipal Clerk

1st reading 9/27/16
2nd reading 10/11/16