



SOUTHEAST ALASKA POWER AGENCY

Regular Board Meeting AGENDA

The Landing Hotel | Ketchikan, Alaska

February 8, 2018 | 9:00 AM to 5:00 PM AKST

For Telephonic Participation: Dial 1-800-315-6338 (Access Code: 73272#)

1. Call to Order
 - A. Roll Call
 - B. Communications/Lay on the Table Items
 - C. Disclosure of Conflicts of Interest
2. Approval of the Agenda
3. Introduction of Board Members
4. Election of Officers
 - A. Chairman
 - B. Vice Chairman
 - C. Secretary/Treasurer
5. Persons to be Heard
6. Introduction to SEAPA (Joel Paisner)
7. Review and Approve Minutes
 - A. December 13-14, 2017 Minutes of Regular Board Meeting
8. Financial Reports
 - A. CEO Financial Cover Memo
 - B. Disbursement Approvals – December 2017 and January 2018
 - C. Controller's Report
 - D. kWh Graphs
 - E. Grant Summary
 - F. Financial Statements – December and November 2017
 - G. R&R Reports

9. New Business
 - A. Executive Session for Discussions Related to Hydrosite Investigations and CEO Evaluation Materials
 - B. Consideration and Approval of Funding for Swan Lake Unit #1 and Unit #2 Turbine Runner Cavitation Repairs Project
 - C. Discussion Re Consensus for Tyee Tunnel ROV Inspection
10. CEO Report
11. Staff Reports
 - A. Operations Manager's Report (*Henson*)
 - B. Power System Specialist's Report (*Schofield*)
 - C. Director of Engineering & Technical Services Report (*Siedman*)
12. Calendar Year 2018 Meeting Dates
13. Director Comments
14. Adjourn



SOUTHEAST ALASKA POWER AGENCY

Minutes of Regular Meeting December 13-14, 2017

Petersburg Assembly Chambers
Petersburg, Alaska

(An audio recording of this meeting is available on SEAPA's website at www.seapahydro.org)

1) Call to Order

A. Roll Call

Vice Chairman Stephen Prysunka called the meeting to order at 1:00 p.m. AKST on December 13, 2017. The following directors and alternates were present, thus establishing a quorum of the board:

Director	Alternate	Representing	
Karl Amylon	Charles Freeman	Swan Lake	Ketchikan
	Bob Sivertsen	Swan Lake	Ketchikan
	Mark Jensen	Swan Lake	Ketchikan
Stephen Prysunka	Clay Hammer	Tyee Lake	Petersburg
		Tyee Lake	Wrangell

The following SEAPA staff/counsel were present for all or part of the meeting:

Trey Acteson, Chief Executive Officer
Ed Schofield, Power System Specialist
Kay Key, Controller
Lisa Maddocks, Administrative Asst.

Steve Henson, Operations Manager
Robert Siedman, Dir. of Eng. & Tech Svc.
Joel Paisner, Ascent Law Partners, LLC

B. Communications/Lay on the Table Item(s):

- (i) Memo Re Swan Lake Spare Flash Board Gate Components Contract
- (ii) 2017 0630 BDO Audit Wrap-Up

C. Disclosure of Conflicts of Interest:

None.

2) Approval of the Agenda

➤ Motion	M/S (Jensen/Freeman) to approve the agenda as amended to add consideration and approval of the Swan Lake Spare Flash Board Gate Components Contract as Item C under New Business, with the remaining items moved forward accordingly. Motion approved unanimously by polled vote.	Action 18-624
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3) Proclamation Honoring Board Service

Mr. Hammer read a Proclamation recognizing, thanking, and honoring Mark Jensen, Charles Freeman, and Lew Williams for their service to the Agency.

4) Persons to be Heard

Joe Viechnicki, Reporter with KFSK Community Radio, voiced his objections to the Agency's Public Records policy adopted by the board and the form developed by the Agency for Public Records Requests.

5) Review and Approve Minutes

➤ Motion	M/S (Freeman/Jensen) to approve the Minutes of the Regular Meeting of September 28, 2017. Motion approved unanimously by polled vote.	Action 18-625
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6) Financial Reports

(A)-(H) Mr. Acteson affirmed the stability of the Agency's financial position and advised that a representative of BDO, the Agency's financial auditors, would be calling in to the meeting to present the Agency's FY2017 audited financials and respond to any board inquiries. He addressed an interest the board previously expressed on revisiting the size of the FY2017 rebate noting the matter could be discussed further under new business prior to approval of the rebate. He provided updates on the Agency's hedging of financial risk, revenue and expenses, grants, and renewal and replacement projects.

➤ Motion	M/S (Jensen/Freeman) to approve disbursements for the months of October and November 2017 in the amount of \$2,630,460.43. Motion approved unanimously by polled vote.	Action 18-626
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➤ Motion	M/S (Jensen/Freeman) to approve SEAPA's financial statements for the months of August, September and October 2017. Motion approved unanimously by polled vote.	Action 18-627
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➤ Motion	M/S (Jensen/Amylon) to accept the Southeast Alaska Power Agency Fiscal Year 2017 Audited Financial Statements as presented in the December 13-14, 2017 SEAPA Board packet. Following the motion, Joy Merriner of BDO joined the meeting telephonically to review the audited financial statements and answer questions from the board. She commended SEAPA's controller, Ms. Key, SEAPA management, and staff, on the positive results of the FY2017 audit. Mr. Jensen moved to postpone the pending motion until after the Rebate Distribution discussion scheduled later in the meeting. The motion failed to receive a second. The pending motion to accept the FY2017 Audited Financial Statements was approved unanimously by polled vote.	Action 18-628
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The meeting recessed at 2:01 p.m. and reconvened at 2:15 p.m.

7) New Business

A. *Executive Session for Discussions related to Hydrosite Investigations*

➤ Motion	M/S (Freeman/Jensen) to recess into Executive Session to conduct further discussions relating to the Agency's hydrosite investigations. The Executive Session will be conducted pursuant to SEAPA's Bylaws which are consistent with Alaska Statute 44.62.310 as the discussions may include matters the immediate knowledge of which would clearly have an adverse impact upon the finances of the Agency, the Projects, or any of its Member Utilities as well as the matters discussed with an attorney retained by the Board, the immediate knowledge of which could have an adverse effect on the legal position of the Agency. Motion approved unanimously by polled vote.	Action 18-629
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The meeting recessed at 2:17 p.m. for the executive session and reconvened the regular meeting at 4:04 p.m.

Vice Chairman Prysunka advised that management will continue on with the process of hydrosite investigation.

The meeting recessed at 4:05 p.m. and reconvened at 4:13 p.m.

B. *Consideration and Approval of Resolution No. 2018-069 Approving Signatories to First Bank Accounts.*

➤ Motion	M/S (Jensen/Freeman) to adopt Resolution No. 2018-069 authorizing signatories to the First Bank accounts named in the resolution. Motion approved unanimously by polled vote.	Action 18-630
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C. *Consideration and Approval of Swan Lake Spare Flash Board Gate Components Contract.*

➤ Motion	M/S (Freeman/Jensen) to authorize staff to enter into a contract with Kuenz America Inc. for SEAPA's Swan Lake Spare Flash Board Gate Components Project for the lump-sum bid amount of \$420,850. Motion approved unanimously by polled vote.	Action 18-631
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D. *Consideration and Approval of Independent Consultant for Swan Lake 2019 FERC Part 12 Report*

➤ Motion	M/S (Jensen/Amylon) to authorize staff to enter into a contract with Schnabel Engineering, LLC for an Independent Consultant for SEAPA's Swan Lake 2019 FERC Part 12 Report for the not-to-exceed amount of \$72,576. Motion approved unanimously by polled vote.	Action 18-632
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E. *Consideration and Approval of SEAPA's Operations Plan for 2018.*

Mr. Siedman displayed a Power Point presentation providing the highlights of SEAPA's proposed 2018 Operations Plan suggesting that guide curve elevations be used by the scheduling group as guides. If lake levels fall below the guide curves, SEAPA will manage water resources taking into consideration current conditions with the overall objective of restoring lake levels to their respective guide curves. He explained that as lake levels approach the annual minimum Board approved draft limits (Tyee, 1260 feet, and Swan Lake, 272 feet) that staff suggests SEAPA and the dedicated resource holder(s) enter into discussions as to whether curtailments will be issued. He provided a table with 2018 Operations Plan Guide Curve Values and past Operations Plan minimum draft limits. Mr. Acteson explained adjustments to the guide curves.

➤ Motion	M/S (Prysunka/Jensen) to approve the 2018 SEAPA Operations Plans as presented in the December 13-14, 2017 Board packet. Motion approved unanimously by polled vote.	Action 18-633
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F. *Consideration and Approval of Dedicated Funding for Submarine Cable Replacement.*

➤ Motion	M/S (Jensen/Prysunka) to authorize staff to reduce the FY2017 rebate by 30% and redirect those funds into a capital reserve fund to be used for replacement of SEAPA's Submarine Cables. Additional contributions and balances shall be reviewed annually. The motion failed 3 to 1 with Mr. Freeman, Mr. Amylon, and Mr. Prysunka voting no, and Mr. Jensen voting yes.	Action 18-634
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G. *Consideration and Approval of Distribution of Rebate to Member Utilities.*

➤ Motion	M/S (Jensen/Amylon) to authorize the distribution of a \$2,700,000 rebate with a pro rata share to each Member Utility based on an average of the last three years' firm kWh purchases from SEAPA as specified in the FY17 Rebate Memo dated December 1, 2017. Motion approved unanimously by polled vote.	Action 18-635
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H. *Consideration and Approval of Staff Bonuses.*

➤ Motion	M/S (Freeman/Jensen) to authorize SEAPA's CEO to issue staff bonuses not-to-exceed the total amount of \$12,000 payable on or before December 31, 2017. Motion approved unanimously by polled vote.	Action 18-636
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The meeting recessed at 5:18 p.m. on December 13, 2017.

The meeting reconvened at 9:00 a.m. on December 14, 2017.

A roll call was taken. The same directors and alternates present during the December 13, 2017 portion of the meeting were present for the December 14, 2017 portion of the meeting, thus establishing a quorum of the board.

I. *Executive Session for CEO Annual Evaluation.*

➤ Motion	M/S (Jensen/Amylon) to recess into Executive Session to conduct further discussions relating to an Annual Evaluation of SEAPA's Chief Executive Officer. The Executive Session will be conducted pursuant to SEAPA's Bylaws which are consistent with Alaska Statute 44.62.310 as the discussions may include subjects that tend to prejudice the reputation and character of any person. Motion approved unanimously by polled vote.	Action 18-637
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The meeting recessed for the executive session and reconvened into regular session at 10:17 a.m.

Vice Chairman Prysunka announced that the directors would like to make a motion resulting from the executive session and requested that the motion be made.

➤ Motion	M/S (Jensen/Amylon) to move for SEAPA's Board of Directors to authorize a \$5,000 bonus to SEAPA's Chief Executive Officer payable on or before December 31, 2017. Following Vice Chairman Prysunka's expression of appreciation for Mr. Acteson's leadership and achievements during the past year, the motion was approved unanimously by polled vote.	Action 18-638
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Vice Chairman Prysunka advised that further action resulting from the executive session was to request that the Agency's counsel develop a formal evaluation process for the CEO, which can be used for 2018 goal setting during the February 2018 board meeting in Ketchikan.

8) CEO Report

Mr. Acteson provided updates on federal activities relative to Agency business noting that FERC revised its license term policy establishing a 40-year default term over the previous 30-year term, which includes relicensing, a definite benefit to the Agency. He reported on his testimony before the House of Representatives Subcommittee in support of H.R. 219 optimistic that the legislation to correct the Swan Lake Project Boundary will eventually pass. He also reported that follow-up comments were filed requesting clarification on whether the lowered adjustment of 25% for federal land use fees imposed by FERC would be retroactive to last year and that SEAPA has once again joined in as an amicus to the State of Alaska's challenge to the Roadless Rule litigation. He advised that SEAPA will be responding to the RCA's response from the Agency's initial filing after a letter order issued regarding the close-out of TBPA's certificate of public convenience to operate Tyee. Mr. Paisner explained that the Agency's response to the RCA will support Wrangell, Petersburg, and the Agency's assertion that they are exempt from RCA regulation while holding long-term debt.

Mr. Acteson reported that a Public Records Request Form has been developed and will be posted on the Agency's website. Discussion followed with Mr. Acteson and Mr. Paisner explaining the Agency's process for access and transparency. Mr. Acteson closed his report with updates on personnel, the Whitman True-up, and Public Relations.

9) Staff Reports

A. Operations Manager Report

Mr. Henson requested a short break to prepare an overview of the weekly schedule meetings between SEAPA and the member utilities.

The meeting recessed at 10:54 a.m. and reconvened at 11:02 a.m.

Mr. Henson displayed and explained the various tables, schedules, and weather resources involved in weekly meetings to discuss and schedule ongoing maintenance items. He explained that everything SEAPA and the utilities are doing is discussed every Tuesday morning during these meetings.

Mr. Henson announced that following an inspection by the U.S. Army Corps of Engineers (USACE) to assist with a design and plan to alleviate silting in the Tyee Lake harbor area that USACE determined there is no federal interest in the project and that although there are no authorities in place for USACE to assist with a project and study to build a road through the tidelands out to deeper water, that would be the most prudent direction for the Agency to take for better access to Tyee.

Mr. Acteson supported building a road to tidewater as the best long-term solution for better access. He advised that the board's consideration would be requested at the next board meeting for funding to develop a scope and schedule for the project. Mr. Sivertsen suggested that funds be approved now. Mr. Henson advised there is currently \$350,000 that had been budgeted for dredging. Vice Chairman Prysunka expressed his concerns over the safety of the Tyee workers with the limited access currently available to the plant in the event of an emergency. Mr. Paisner advised that since funds were already budgeted a motion to amend the agenda was not necessary to move for reallocation of the funds.

➤ Motion	M/S (Jensen/Amylon) to reallocate the \$350,000 in funds currently in the SEAPA budget for the Dredging Project at Tyee to be reallocated to a Road Building Project to tidewater. Following discussion, it was determined that if some dredging was needed in the meantime, that funding could be requested at a future meeting for that purpose, so the road building project is not postponed. Motion approved unanimously by polled vote.	Action 18-639
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Mr. Henson provided updates on ATV use on the Tyee Transmission System, the STI final as-built survey and DNR ROW permitting process, Tyee Satellite platform survey and plat, and that brushing was complete in the Neets Bay area along the STI transmission line. He reported on maintenance activities that had taken place at Tyee and noted that KPU's Swan Lake Report was available in the board packet for an update of Swan Lake activities.

B. Power System Specialist Report

Mr. Schofield opened his report explaining the cause of a failure and repairs made to correct the failure on Swan Lake's Unit 1 Switchgear buss connection. He reported that repairs were complete at the Swan Lake dock, and provided an update on the history of Swan Lake housing advising that following a meeting between KPU and SEAPA seeking a resolution to KPU's housing concerns, it was determined that the originally proposed housing plan would be the best option

with the addition of 50 square feet to be built in the enclosed rear porch area of the proposed housing.

Mr. Schofield reported that he and Mr. Siedman descended 200 feet into the Tyee Lake Inlet Gate shaft to examine equipment for assurance that an emergency closure of the gate could be made if necessary. They noted several deficiencies given the humid environment the electrical and hydraulic equipment is subjected to in that location and described their plan for taking the electrical cabinets out and installing sealed type control pennants that extend from the top surface down to operate the hydraulics.

Mr. Schofield stressed the importance of assessing the condition of the tunnel explaining that because of the risk of draining the tunnel, an inspection has not been performed to date to determine if degradation of the tunnel walls has occurred. He explained the process involved for an ROV inspection to take place, which includes the ROV navigating through a 24-inch wide gate slot and around three 90° bends while descending a depth of 1,400 ft. and ascending 8,200 ft. to view the rock traps, which if successful, may break the current ROV descent on record. In the process the ROV will pass through four fault zones and could get hung up in the process. He explained that a re-analysis of the dewatering process was previously recommended by a board of consultants because of a failure that occurred when a contractor had to dewater to fix dresser couplers in the penstock. He advised that the Agency has retained an engineer to perform that analysis, so a process and procedure is in place for dewatering. Costs and risks of the ROV inspection were discussed, and it was noted that the ROV inspection of the tunnel could coincide with the submarine cable inspections that are also planned to save on mobilization costs.

Mr. Schofield closed his report with updates on the Tyee Lake Weir seepage inspection, Swan Lake Miscellaneous Metals Project, Emergency Action Plan, Marine Bulkhead Renovation, Spare Flashboards, and the SEAPA Ketchikan office remodel.

C. Director of Engineering & Technical Services

Mr. Siedman described the return on investment already realized following completion of the Agency's Swan Lake Reservoir Expansion Project and noted the 2018 Operations Plan provided more insight into the importance of the impounded water given the predicted upcoming low inflow season. He discussed a concern with the flashboards in the event of a large rain event and announced that SEAPA had developed an algorithm (a process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer) to predict lake levels based on forecasted rain events, which enables SEAPA to forecast lake levels and run scenarios to mitigate risk associated with large rain events.

Mr. Siedman provided an update on the Swan Lake DC Distribution upgrades advising that the upgrades are 90% complete and that the remaining work will require a powerhouse outage, which will not likely occur during the upcoming winter months. He reported that procurement of a relay testing system was 90% complete and explained the capabilities of the procured SMRT46D Megger Multi-Phase Relay Test System. He advised that SEAPA is also 90% complete with development of a test bed utilizing spare protective relays and that security cameras have been procured and are currently being installed at the Swan Lake dock, Powerhouse and Dam.

10) Next Meeting Date

There were no objections to the next board meeting date of February 8, 2018 in Ketchikan, Alaska.

11) Director Comments

Directors provided brief comments.

12) Adjourn

Vice Chairman Prysunka adjourned the meeting at 12:30 p.m.

Signed:

Attest:

Secretary/Treasurer

Chairman



SOUTHEAST ALASKA POWER AGENCY CEO FINANCIAL COVER MEMO

DATE: February 2, 2018
TO: SEAPA Board of Directors
FROM: Trey Acteson, CEO

SEAPA's financial position remains stable. The financial statements in your Board packets include November and December 2017. The financials also include power sales graphs reflecting the most recent available data for the month of January.

REBATE:

The \$2.7 million rebate for FY17 was distributed in December and is reflected in the financial statements. It is worth noting that this was the largest rebate in the history of the Agency, and demonstrates our continued commitment to safely provide low cost reliable electricity to the member communities we serve.

REVENUE & EXPENSES:

Total power purchase revenues through the end of January were \$7,381,921 actual vs. \$7,472,002 budget.

Total administrative and operating expenses through the end of December were \$3,071,294 actual vs. \$3,468,227 budget.

GRANTS:

The FY13 DCCED grant is the funding mechanism for our Regional Hydrosite Investigation (HSI) and there has been significant activity over the last year as we complete engineering, QA/QC, and database preparation ahead of public release. The original grant titled *Hydroelectric Storage, Generation, Transmission, and Business Analysis* was scheduled to expire on June 30, 2018. The Agency has successfully filed for and received a one-year extension. This will allow final work to be completed on the HSI and provide additional time to address remaining objectives specified in the grant.

RENEWAL & REPLACEMENT PROJECTS:

Staff continues to make excellent progress on approved R&R projects and they have provided detailed updates in their individual reports to help orientate new Board members. Several projects have already been completed and closeout summary sheets are included in your Board packets. Total expenditures through the first six months of the year were \$1,542,185 of the total FY18 budget of \$3,844,674.

We will be requesting approval of a new R&R project to address Swan Lake runner degradation. It would be most prudent to expedite repairs in conjunction with the scheduled spring outage window.

WHITMAN TRUE-UP:

Prudent reservoir water management and additional storage made available from the Swan Lake Expansion Project, resulted in no spill at SEAPA's hydro projects during the 2017 calendar year. This is great news for KPU. Although the Whitman hydroelectric project operated throughout the year, KPU is not required to pay any true-up for the entire measurement period.

Whitman renegotiation is near completion. The parties met again in January to address remaining issues and SEAPA has provided a final negotiated draft to KPU for review. Once we have confirmation of the tentative agreement from KPU, we will provide a copy to the Board for their consideration and approval. Although a lot of work has gone into improving the language and examples provided in the original agreement, substantive changes are minimal.

RATE STABILIZATION FUND:

During our December Board meeting we discussed a variety of mechanisms that could be used to set aside additional funds for larger capital projects that may occur down the road, including replacement of submarine cables and transmission lines. Due to the anticipated high cost of such replacements, the historical perspective has been they would be paid for through new long-term debt. The Board expressed a desire to delve deeper into minimizing the potential impact to rates that may result from these projects.

Of the options previously discussed, my recommendation is that we establish a rate stabilization fund that will provide maximum flexibility to the Agency to soften integration of large expenditures. As part of the framework, I recommend that we include an annual review cycle that coincides with annual rebate discussions to determine allocations to the fund. Although we may not be able to set aside monies every year, creating a long-term mechanism to hedge against future rate increases is a prudent approach.

Establishing a formal rate stabilization fund is more complicated than our typical fund accounts and will require additional work prior to presenting to the Board for consideration. My goal is to have the details fleshed out and a clear framework developed prior to our next regular meeting.

SOUTHEAST ALASKA POWER AGENCY - DISBURSEMENTS

Accounts	Total
Revenue Fund	\$3,600,380.23
R&R Fund	<u>\$206,656.20</u>
TOTAL	<u>\$3,807,036.43</u>

SUGGESTED MOTION
I move to approve disbursements for the months of December 2017 & January 2018 in the amount of \$3,807,036.43.

This list outlines significant expenditures paid during this period:		
FY17 Rebate	- Member Utilities Ketchikan, Petersburg & Wrangell	\$ 2,700,000
Kuenz	- Flash Gate Spare (RR278)	84,170
McMillen LLC	- Hydrosite (DCCED13), Engineering (RR281 RR283)	144,413
USDA FS	- 2018 Land Use rents	101,289
Wells Fargo	- Principal & Interest for 2009 Series and 2015 Series Bonds	264,533

December 2017 & January 2018

Invoice No.	Company (Vendor)	Revenue Fund	R&R Fund
5955828	4Imprint, Inc.	345.84	
17110969	Alaska Broadcast Communications, Inc.	560.00	
17111045	Alaska Broadcast Communications, Inc.	125.00	
17111046	Alaska Broadcast Communications, Inc.	125.00	
17121303	Alaska Broadcast Communications, Inc.	700.00	
17121389	Alaska Broadcast Communications, Inc.	125.00	
17121390	Alaska Broadcast Communications, Inc.	125.00	
I01412507	Alaska Dispatch News	72.21	
9407	Alaska Glass & Supply	535.00	
280	Alaska Miners Association	250.00	
APCM201710	Alaska Permanent Capital Inc	1,672.00	
APCM201711	Alaska Permanent Capital Inc	1,668.68	
APCM201712	Alaska Permanent Capital Inc	1,669.18	
3867	Alaska Power Association	600.00	
3887	Alaska Power Association	5,908.00	
1701	Alpine Mini Mart	83.00	
11627	Arrowhead LP Gas WRG	20.53	
2724	Ascent Law Partners LLP	6,720.00	
2725	Ascent Law Partners LLP	1,715.00	
2773	Ascent Law Partners LLP	9,132.93	
2774	Ascent Law Partners LLP	1,303.50	
55015	Bay Company Enterprises, LLC	88.20	
55129	Bay Company Enterprises, LLC	117.60	
908973	BDO USA LLP	9,077.90	
17138	Boyer Towing, Inc.	6,070.00	
CAM201801	Cambria Properties LLC	1,525.00	
CAM201802	Cambria Properties LLC	1,525.00	
302730	City Market	44.67	
301106	City Market	143.82	
301126	City Market	94.79	
302305	City Market	28.46	
300990	City Market	16.79	
204897	City Market	147.65	
C5532	Copper River Fleece	389.55	
C5536	Copper River Fleece	135.15	

SOUTHEAST ALASKA POWER AGENCY - DISBURSEMENTS

Invoice No.	Company (Vendor)	Revenue Fund	R&R Fund
14227094901-4	Dowl, LLC		11,420.55
121317	E&E Dining	1,280.40	
13925	Electric Power Systems Inc.		9,598.72
14257	Electric Power Systems Inc.	570.00	
41219	Evans Keane LLP	676.36	
32742	Frontier Shipping & Copyworks	7.65	
36208	Frontier Shipping & Copyworks	96.91	
SEAPA00617	G2 Risk Consulting	2,418.75	
1801S2	Glenn Brewer Consulting Engineer	2,470.00	
9638970757	Grainger	1,267.98	
9638970765	Grainger	169.00	
9639668954	Grainger	19.60	
9640145323	Grainger	19.60	
9641977633	Grainger	245.73	
9643815500	Grainger	197.50	
10384	Greater Ketchikan Chamber of Commerce	370.00	
418698	Hammer & Wikan	82.27	
418742	Hammer & Wikan	52.98	
418915	Hammer & Wikan	10.58	
418951	Hammer & Wikan	202.68	
5315	I Even Do Windows	300.00	
5337	I Even Do Windows	300.00	
S12030217	Jaco Analytical Lab	28.90	
S15030416	Jaco Analytical Lab	28.03	
201700000154	Ketchikan City of 334		1,062.19
REBATE_KTN_FY17	Ketchikan City of 334	1,405,294.51	
34474	Ketchikan Daily News	67.35	
KDN201712	Ketchikan Daily News	155.00	
87106	Ketchikan Gateway Borough	100.00	
139998	Ketchikan Gateway Borough	271.49	
KGB201801	Ketchikan Gateway Borough	4,470.68	
KGB201802	Ketchikan Gateway Borough	4,810.23	
14951	Ketchikan Mechanical, Inc.	392.00	
3206	Kuenz America Inc		84,170.00
4848	Landing Hotel & Restaurant	262.40	
5084	Landing Hotel & Restaurant	262.40	
20171220	Liv and Heidi's Kjekken	1,286.75	
98172	LNM Services	103.74	
98281	LNM Services	56.07	
98315	LNM Services	105.72	
21096	Mapcon Technologies, Inc.	2,611.00	
MARBLE201801	Marble Construction	321.00	
MARBLE201802	Marble Construction	321.00	
288849163821	Marsh USA Inc.	139.00	
6921	McMillen LLC		1,680.00
7001	McMillen LLC	88,870.00	
7046	McMillen LLC		480.00
7047	McMillen LLC		6,396.24
7039	McMillen LLC	33,425.25	
7149	McMillen LLC		385.00
7150	McMillen LLC		13,176.25
7151	McMillen LLC	1,895.00	
5853	Meridian Environmental	366.00	
M18168	National Hydropower Association	21,018.00	
34369	Northwest Public Power Assn	750.00	
35897	Northwest Public Power Assn	115.00	
2000712	NRECA 758777 Deferred	2,418.00	
17120630	NRECA 798185 Group Ins	19,320.41	

SOUTHEAST ALASKA POWER AGENCY - DISBURSEMENTS

Invoice No.	Company (Vendor)	Revenue Fund	R&R Fund
18010630	NRECA 798185 Group Ins	20,511.17	
18020630	NRECA 798185 Group Ins	20,250.17	
17120630A	NRECA 798324 Group Ins Admin	1,706.42	
18010630A	NRECA 798324 Group Ins Admin	1,785.48	
18020630A	NRECA 798324 Group Ins Admin	1,785.48	
17128042A	NRECA 798330 RSP Admin	571.14	
18018041A	NRECA 798330 RSP Admin	670.21	
18028040A	NRECA 798330 RSP Admin	670.21	
18018041	NRECA 798369 RSP Trust Contrib	32,573.67	
18028040	NRECA 798369 RSP Trust Contrib	32,573.67	
417784	Ottesen's Inc	35.97	
418106	Ottesen's Inc	76.95	
418313	Ottesen's Inc	15.16	
418375	Ottesen's Inc	141.98	
418376	Ottesen's Inc	24.98	
418435	Ottesen's Inc	57.96	
418508	Ottesen's Inc	71.97	
418802	Ottesen's Inc	315.97	
419162	Ottesen's Inc	16.78	
419601	Ottesen's Inc	92.73	
419634	Ottesen's Inc	107.94	
419688	Ottesen's Inc	132.74	
420130	Ottesen's Inc	58.99	
420149	Ottesen's Inc	359.99	
420250	Ottesen's Inc	35.97	
420310	Ottesen's Inc	369.99	
420345	Ottesen's Inc	50.00	
101440	Pacific Airways Inc	440.00	
3045	Pacific Wings Inc.	297.00	
3047	Pacific Wings Inc.	297.00	
REBATE_PSG_FY17	Petersburg Borough	685,158.12	
35018	Petersburg Bottled Gas	79.00	
35075	Petersburg Bottled Gas	48.00	
563925	Petro Marine Services-KTN	278.15	
565282	Petro Marine Services-KTN	243.39	
40095	Petro Marine Services-WRG	711.43	
40102	Petro Marine Services-WRG	270.25	
40819	Petro Marine Services-WRG	280.28	
41396	Petro Marine Services-WRG	601.85	
41518	Petro Marine Services-WRG	313.34	
41523	Petro Marine Services-WRG	372.45	
41683	Petro Marine Services-WRG	377.06	
42263	Petro Marine Services-WRG	283.38	
64808	Pilot Publishing, Inc.	173.00	
64809	Pilot Publishing, Inc.	285.00	
64988	Pilot Publishing, Inc.	71.25	
172727004	R&M Engineering-Ketchikan	1,763.10	
992	Ray Matiashowski & Associates	4,000.00	
1002	Ray Matiashowski & Associates	4,000.00	
RVINV017261	RedVector.com LLC	1,522.29	
S384KET14N	Samson Tug & Barge	96.75	
S386KET39N	Samson Tug & Barge	98.55	
S387WRA17N	Samson Tug & Barge		1,149.75
S389KET53N	Samson Tug & Barge	98.55	
S399KET03I	Samson Tug & Barge	109.50	
422542	Satellite & Sound Inc	2,243.00	
422570	Satellite & Sound Inc	250.00	
422611	Satellite & Sound Inc	250.00	

SOUTHEAST ALASKA POWER AGENCY - DISBURSEMENTS

Invoice No.	Company (Vendor)	Revenue Fund	R&R Fund
1213110202A	Scandia House Hotel	120.00	
1213110301A	Scandia House Hotel	120.00	
1213120203A	Scandia House Hotel	123.00	
1213120207A	Scandia House Hotel	113.00	
1213120212A	Scandia House Hotel	113.00	
1213120215A	Scandia House Hotel	113.00	
1213120303A	Scandia House Hotel	120.00	
1213120307A	Scandia House Hotel	113.00	
1213120309A	Scandia House Hotel	113.00	
1213120310A	Scandia House Hotel	120.00	
1213120311A	Scandia House Hotel	123.00	
1213120315A	Scandia House Hotel	113.00	
1213140302A	Scandia House Hotel	120.00	
0103100304A	Scandia House Hotel	861.00	
0103100314A	Scandia House Hotel	861.00	
2305IN	Schmolck Mechanical SIT		24,077.00
R184974IN	Schmolck Mechanical SIT		(105.00)
17269	Segrity LLC		41,107.50
17270	Segrity LLC	10,260.00	
17271	Segrity LLC	6,090.00	
18276	Segrity LLC	2,610.00	
18277	Segrity LLC	2,632.50	
18278	Segrity LLC		5,130.00
455491	Sentry Hardware & Marine	35.93	
455508	Sentry Hardware & Marine	62.06	
455537	Sentry Hardware & Marine	37.70	
455603	Sentry Hardware & Marine	75.37	
455729	Sentry Hardware & Marine	62.22	
456050	Sentry Hardware & Marine	26.19	
456174	Sentry Hardware & Marine	20.68	
456205	Sentry Hardware & Marine	6.69	
591122	Southeast Auto & Marine Parts, Inc	58.51	
592026	Southeast Auto & Marine Parts, Inc	67.33	
592123	Southeast Auto & Marine Parts, Inc	35.20	
592344	Southeast Auto & Marine Parts, Inc	37.18	
11341876	Standard & Poor's	5,000.00	
4629	Stikine Inn	124.00	
4630	Stikine Inn	147.00	
4672	Stikine Inn	124.00	
4674	Stikine Inn	147.00	
52857	Sunrise Aviation Inc	6,315.00	1,620.00
52863	Sunrise Aviation Inc	5,300.00	1,200.00
51258089	Tetra Tech Inc	361.75	
21212	TexRus	2,496.40	120.00
21221	TexRus	44.00	
21344	TexRus	2,452.99	480.00
201787	Three Dog Construction	50,000.00	
201889	Three Dog Construction	11,907.00	
1039130	Tongass Business Center	89.98	
1039810	Tongass Business Center	66.20	
1051970	Tongass Business Center	68.06	
1064500	Tongass Business Center	120.72	
1064501	Tongass Business Center	22.10	
1064502	Tongass Business Center	37.99	
FC2017	Tongass Business Center	2.34	
44352	TSS, Inc.	3,375.00	
44604	TSS, Inc.	175.00	
44811	TSS, Inc.	1,800.00	

SOUTHEAST ALASKA POWER AGENCY - DISBURSEMENTS

Invoice No.	Company (Vendor)	Revenue Fund	R&R Fund
BF100522X0024	USDA Forest Service	99,407.18	
BF100522X0028	USDA Forest Service	558.21	
BF100522X0029	USDA Forest Service	1,323.60	
402064	Van Ness Feldman PC	1,209.97	
402437	Van Ness Feldman PC	297.50	
403200	Van Ness Feldman PC	297.50	
WF09I-201801	Wells Fargo 2009 Interest	25,177.34	
WF09I-201802	Wells Fargo 2009 Interest	25,177.34	
WF09P-201801	Wells Fargo 2009 Principal	66,631.86	
WF09P-201802	Wells Fargo 2009 Principal	66,631.86	
WF15I-201801	Wells Fargo 2015 Interest	40,274.18	
WF15I-201802	Wells Fargo 2015 Interest	40,640.63	
2208	Welsh Whiteley Architects, LLC		3,483.00
2548	Wrangell Chamber of Commerce	500.00	
PH201711	Wrangell City & Borough	12.00	
REBATE_WRG_FY17	Wrangell City & Borough	609,547.37	
64799	Wrangell Sentinel	145.38	
65004	Wrangell Sentinel	57.00	
INV5153	X2nSat	1,590.00	
INV5261	X2nSat	1,590.00	
R32727063	YourMembership.com, Inc.	225.00	
R32727081	YourMembership.com, Inc.	100.00	
BOFA201711	Bank of America	16,580.65	25.00
BOFA201712	Bank of America	13,906.82	
Total Disbursements		\$ 3,600,380	\$ 206,656
		\$3,807,036.43	

* Bank of America credit card charges include all travel, most telecom and some utility:
 ACS, AT&T Mobility, AP&T, GCI, Globalstar, KPU, PSG Borough, Roadpost, Wrangell City & Boro
 These recurring telecom & utility charges are approximately \$12,000/month.



SOUTHEAST ALASKA POWER AGENCY CONTROLLER MEMO

Date: January 31, 2018

From: Kay Key

To: Trey Acteson

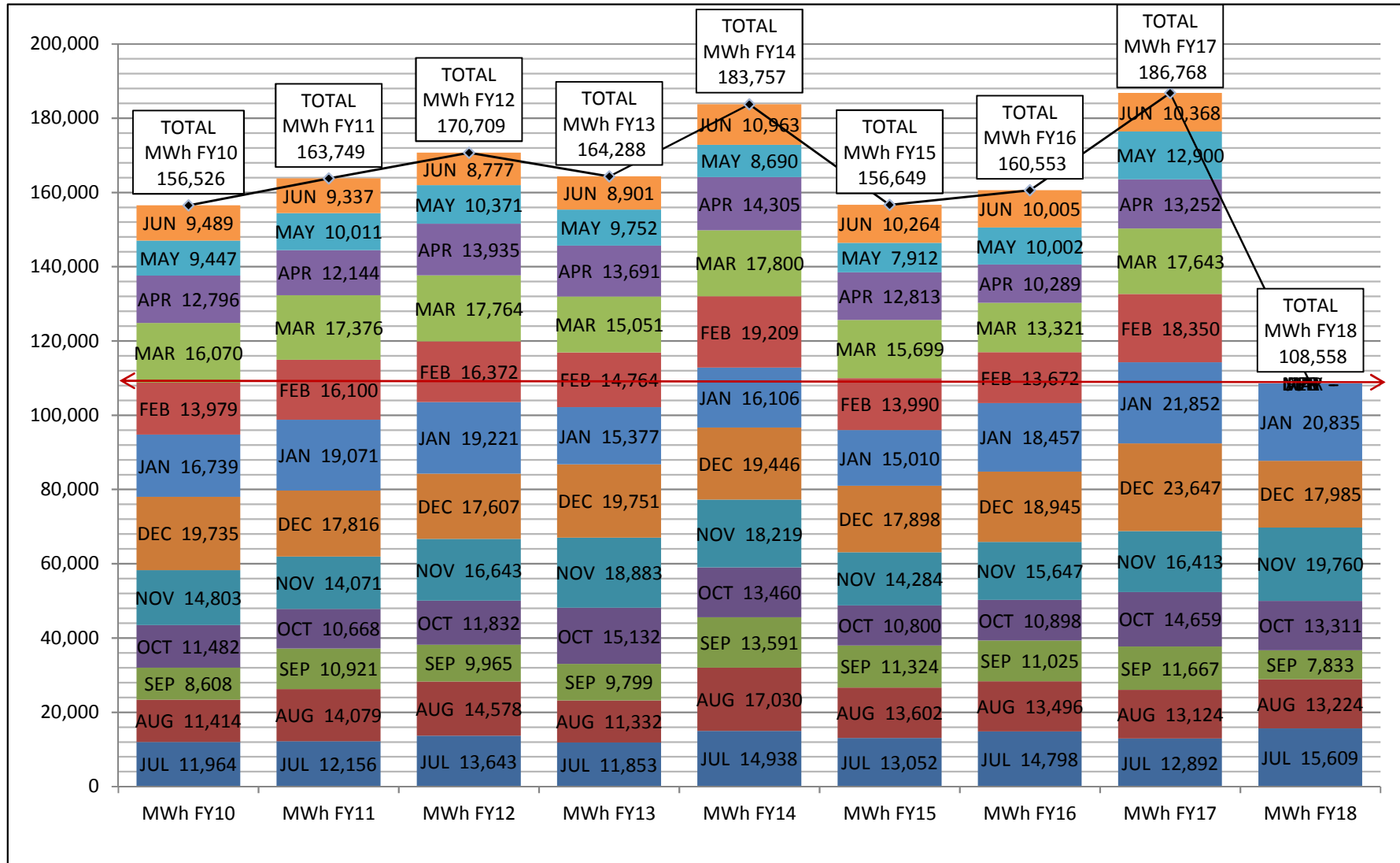
Subject: **FINANCIAL STATEMENTS**

SUGGESTED MOTION
I move to approve financial statements for the months of November and December 2017.

The following financial reports are included in this board packet:

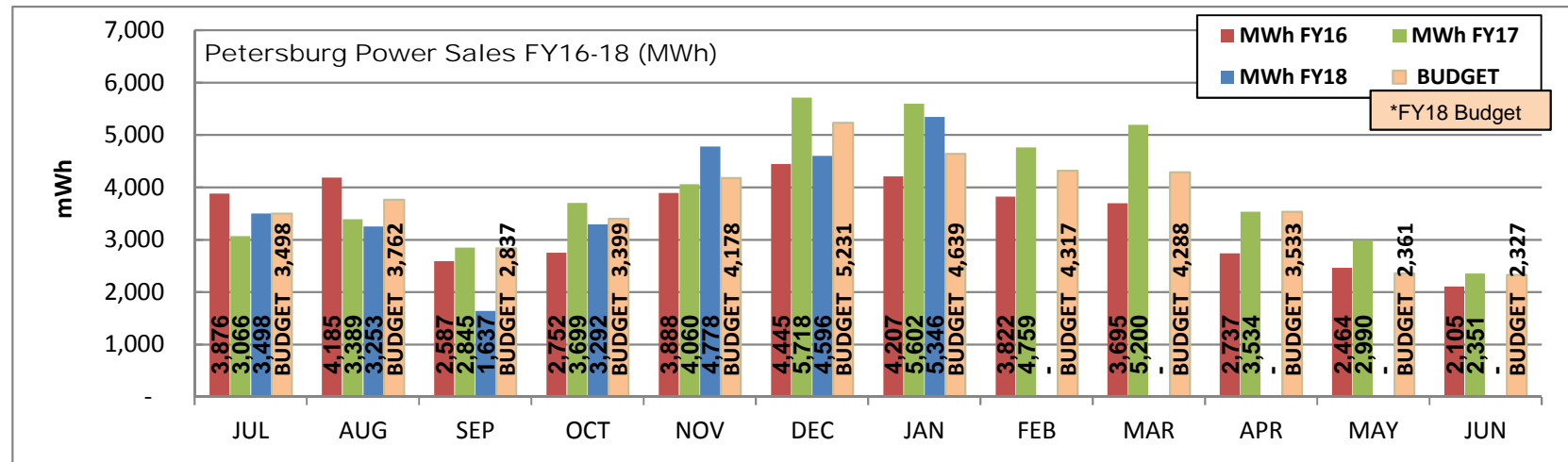
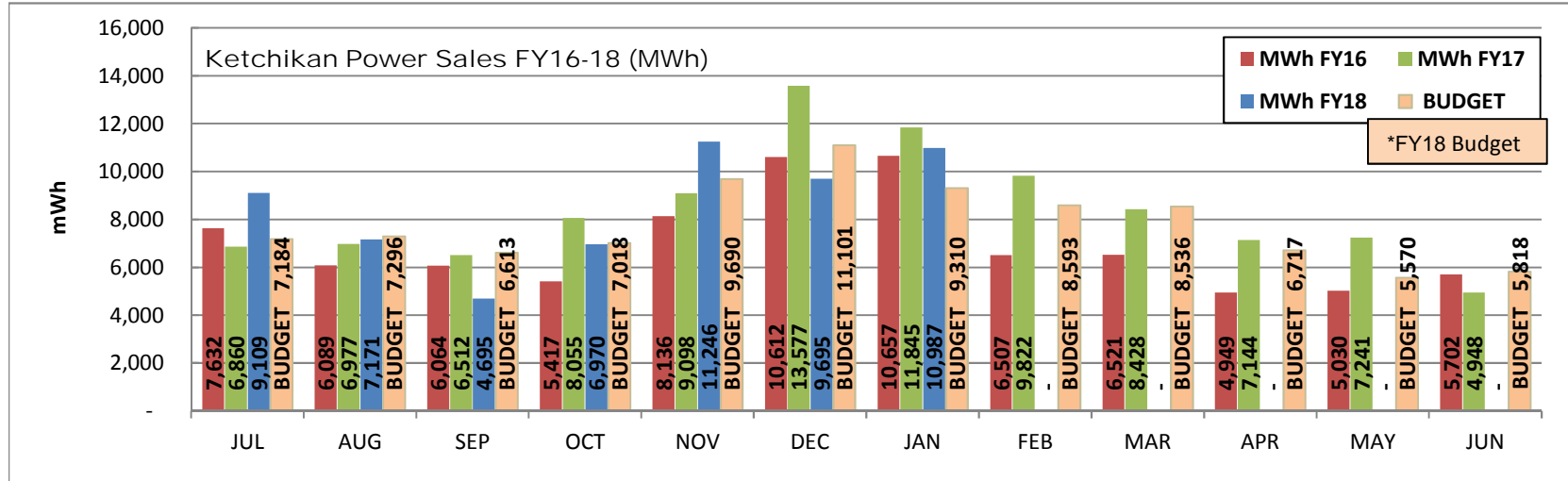
- **kWh Graphs**
 - ✓ MWH Year-Over-Year
 - ✓ Power Sales by Month (3 years)
- **Grant Summary** – December 2017 (quarterly)
- **Monthly Financial Statements for December and November:**
 - ✓ Financial Overview
 - ✓ Fund Allocation Graph
 - ✓ Statement of Financial Position – Summary Prior Year Comparison
 - ✓ Statement of Activities – Summary Prior Year Comparison
 - ✓ Statement of Financial Position – Detail
 - ✓ Statement of Activities – Budget Comparison Detail
- **R&R Reports**
 - ✓ Summary
 - ✓ Detail of Expenditures
 - ✓ R&R Project Close-outs

MWh Sales Year-to-Year Comparison



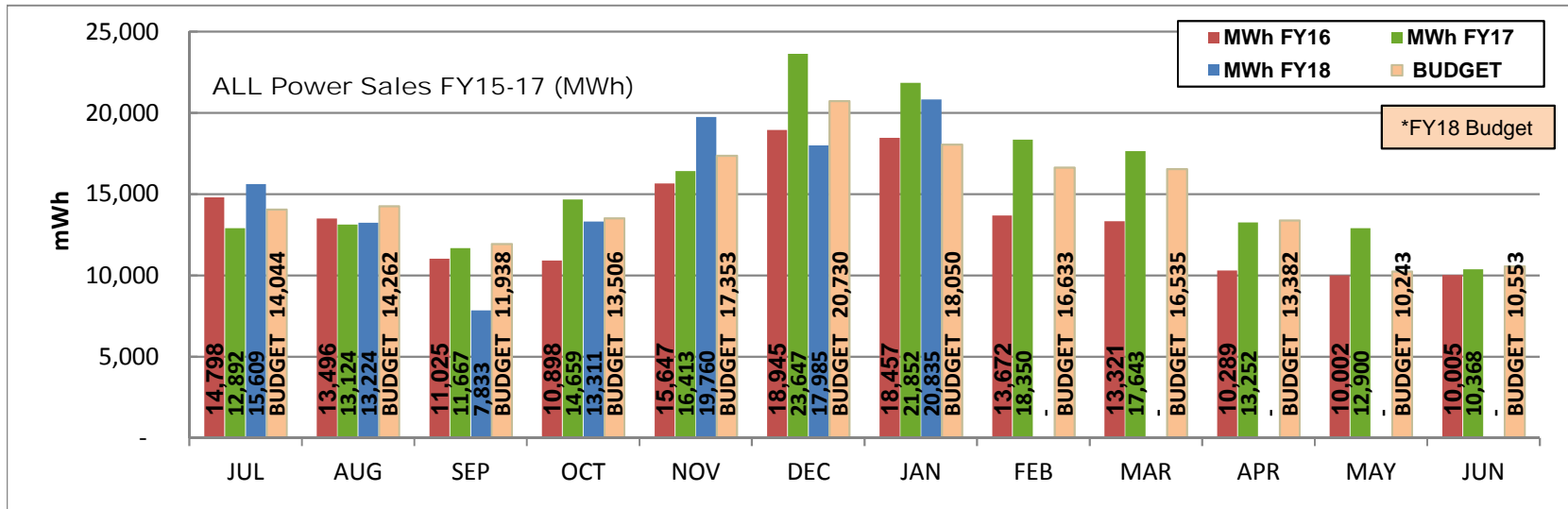
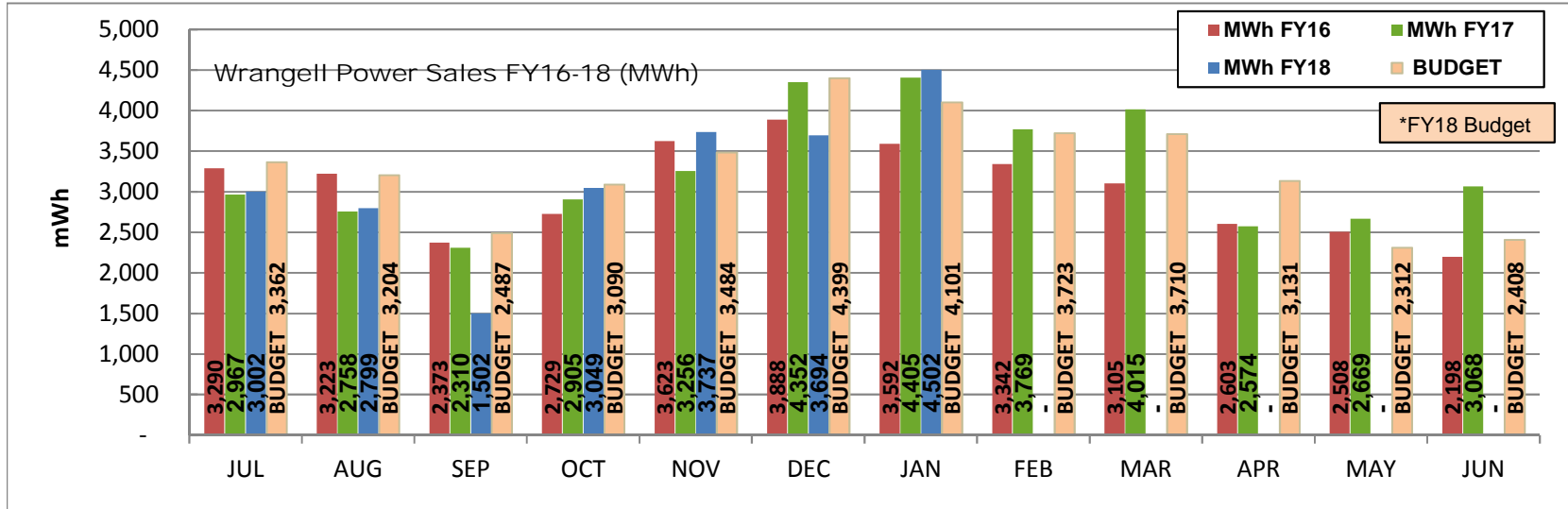
**SOUTHEAST ALASKA POWER AGENCY
FIRM POWER SALES (kWh / MWh)**

JAN 2018	FY18 kWh HYDROPOWER SALES	CURRENT MONTH		YEAR-TO-DATE	
		Actual	Budget	Actual	Budget
	Ketchikan Power Purchases	10,986,992	9,309,855	59,872,416	58,211,351
	Petersburg Power Purchases	5,345,821	4,639,018	26,399,961	27,543,256
	Wrangell Power Purchases	4,501,870	4,101,447	22,285,290	24,127,771
	Total Power Purchases	20,834,683	18,050,320	108,557,667	109,882,378



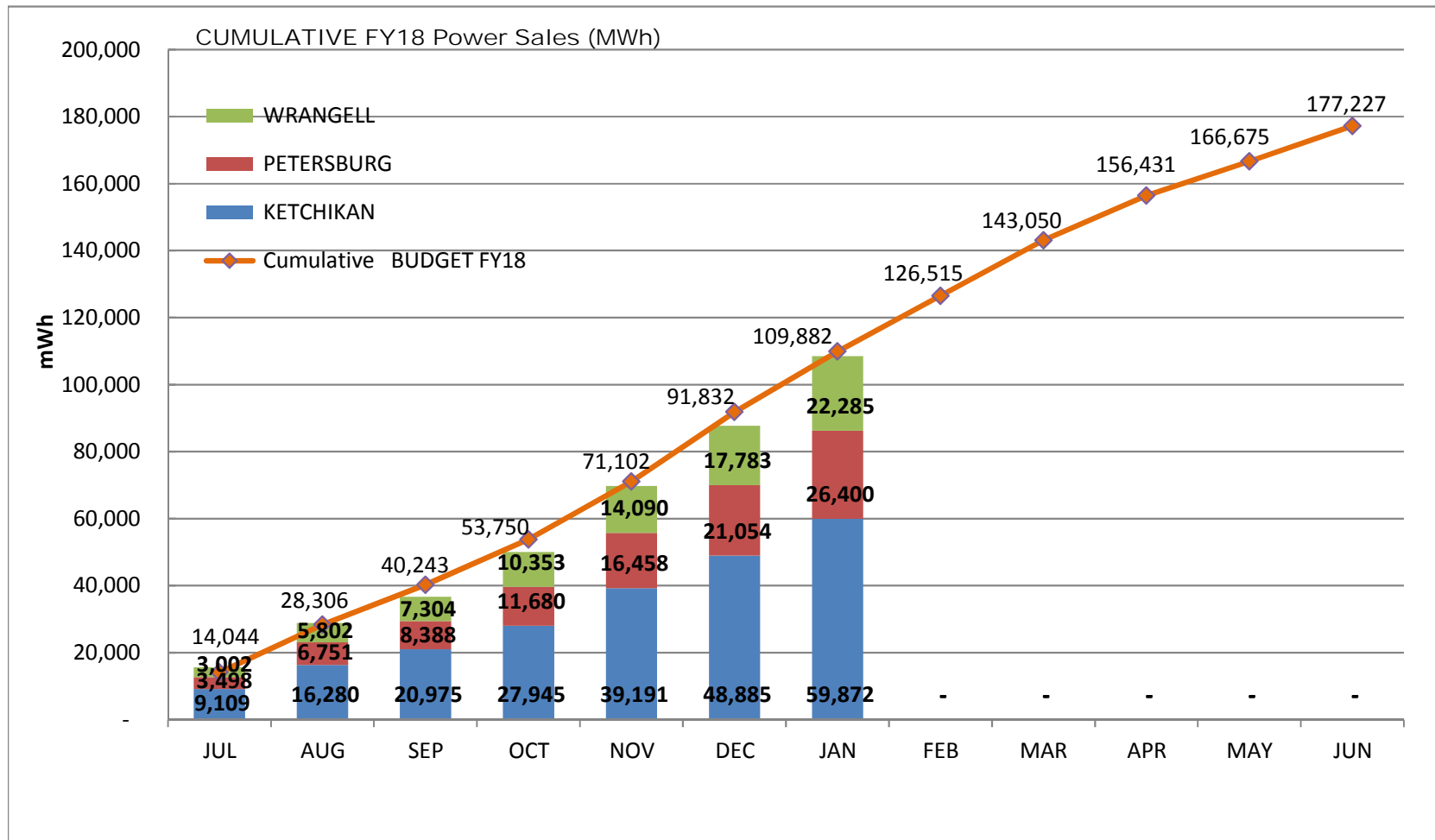
SOUTHEAST ALASKA POWER AGENCY
FIRM POWER SALES (kWh / MWh)

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**SOUTHEAST ALASKA POWER AGENCY
FIRM POWER SALES (kWh / MWh)**

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SOUTHEAST ALASKA POWER AGENCY
GRANT SUMMARY
DECEMBER 2017

AK DCCED GRANT 13-DC-553			
FY18 Grant Billing	Grant Budget	Billing thru FY18	Open Balance
1 - Hydro Storage	578,000	578,000	0
2 - G&T Site Evaluation	1,705,000	1,436,271	268,729
3 - Stability / Interconnectiv	146,000	0	146,000
4 - Load Balance Model	112,000	9,181	102,819
5 - Project Mgmt	309,000	255,712	53,288
6 - Business Analysis / PSA	150,000	48,015	101,985
Total FY13 AK DCCED	3,000,000	2,327,179	672,821

QUARTERLY BILLING		
Sep-17	Dec-17	FY18
-	-	-
45,455	122,295	167,750
-	-	-
-	-	-
-	-	-
-	-	-
45,455	122,295	167,750



DECEMBER 2017 FINANCIAL OVERVIEW

The following tables provide a snapshot of SEAPA's revenues and expenses for DECEMBER, 2017.

Revenues from kWh sales were under budget for the month:

FIRM kWh SALES	DECEMBER Sales	DECEMBER Budget	Prior Year Sales
Ketchikan	\$659,245	\$754,835	\$923,225
Petersburg	\$312,538	\$355,696	\$388,851
Wrangell	\$251,182	\$299,105	\$295,943
Total Revenue	\$1,222,966	\$1,409,636	\$1,608,019

Fiscal year-to-date revenues from kWh sales were under budget:

FIRM kWh SALES	YTD Sales	YTD Budget	Prior YTD Sales
Ketchikan	\$3,324,209	\$3,325,301	\$3,473,342
Petersburg	\$1,431,682	\$1,557,488	\$1,548,867
Wrangell	\$1,209,273	\$1,361,790	\$1,261,197
Total Revenue	\$5,965,163	\$6,244,579	\$6,283,407

FIRM kWh SALES (Year-Over-Year)	FISCAL YEAR	DECEMBER kWh	YTD JUL-DEC kWh
	FY2018	17,984,789	87,722,984
	FY2017	23,647,333	92,403,039
	FY2016	18,945,473	84,809,230

Administrative and operating expenses were under budget:

Administrative & Operating Expenses	DECEMBER Actual	DECEMBER Budget	Prior Yr Expense
	\$468,782	\$519,984	\$503,396
	YTD Actual	YTD Budget	Prior YTD Expense
	\$3,071,294	\$3,468,227	\$2,651,819

In accordance with the Whitman True-up Agreement with Ketchikan, displaced power sales are invoiced on a calendar-year basis each December 31. No displaced power sales were invoiced this December as there was no spill recorded at Swan Lake during the calendar year. In December 2016, displaced sales of \$516,210 were invoiced, consisting of FY16 sales (Jan-Jun 2016) of \$326,904 and FY17 sales (Jul-Dec) of \$189,305.

Capital project RR285 Dock Floats SWL was completed in December at a total cost of \$17,888. The project was expensed (545150) since it was less than the \$25K capitalization threshold.

AGENCY FUNDSOperations, Capital and Insurance Funds

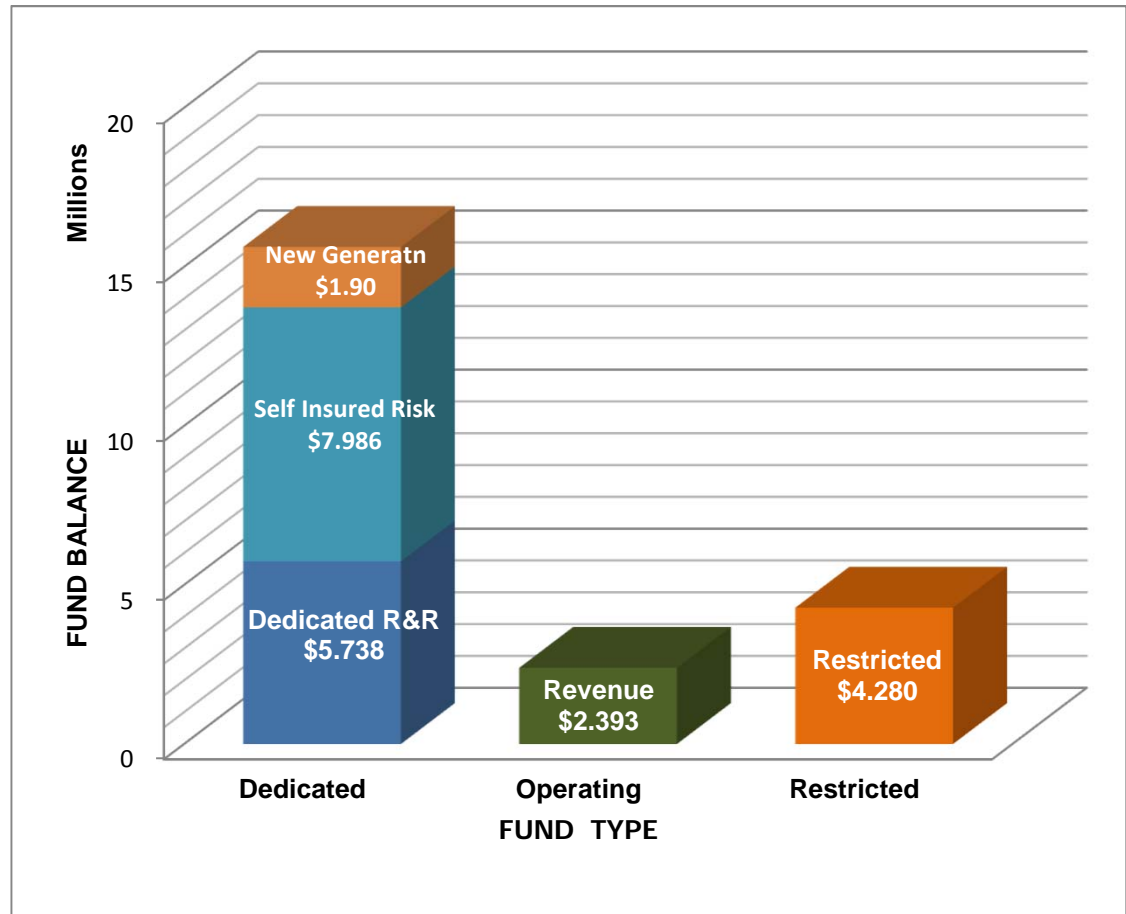
Revenue Fund FB	\$ 2,392,044
Required R&R Fund FB	1,000,308
Dedicated R&R Projects Fund FB	5,738,308
Commercial FB	995
New Generation Fund	1,898,642
Self Insured Risk Fund FNBA	7,986,209
Total Operations, Capital and Insurance Funds	19,016,506

Trustee Funds

2009 Bond Interest	\$ 50,718
2009 Bond Principal	534,426
2009 Bond Reserve	1,415,421
2015 Bond Interest	40,751
2015 Bond Reserve	213,600
Total Trustee Funds	2,254,916

Other Restricted Funds

STI - USFS CD WF	\$ 21,626
DNR Reclamation Fund WF	1,003,273
Total Other Restricted Funds	1,024,899
Total Agency Funds	\$ 22,296,321

Dedicated Funds

New Generation = Project feasibility funding (hydro, wind, geothermal)

Self-Insured Risk = Coverage for uninsured transmission lines, submarine cables and insurance deductibles.

Dedicated R&R = Funds Replacement & Repair projects approved by the SEAPA Board in the budget.

Operating Funds

Revenue Fund & Commercial Checking: All SEAPA income is deposited to the Revenue Fund as required by Bond Indentures.

Restricted Funds (Legally or contractually restricted)

Bonds = All Trustee Funds: Bond Interest, Principal, Reserve and Escrow accounts

R&R = \$1,000,000 minimum balance required by bond indenture

DNR = Alaska DNR Reclamation Agreement

USFS = USFS Land Remediation Certificate of Deposit

SOUTHEAST ALASKA POWER AGENCY
Financial Position - Prior Year Comparison
As of December 31, 2017

	DEC 31, 2017	DEC 31, 2016
ASSETS		
Current Assets		
Agency Funds		
111000 · Ops/Capital/Insurance Funds	19,016,506	20,589,905
112000 · Trustee Funds	2,254,916	2,232,607
113000 · Other Restricted Funds	1,024,899	948,892
Total Agency Funds	22,296,321	23,771,404
Accounts Receivable		
110000 · Accounts Receivable	2,677,770	2,878,452
110100 · Grants Receivable	122,295	22,692
Total Accounts Receivable	2,800,065	2,901,145
Other Current Assets		
120200 · Other Receivables	5,800	4,606
120300 · Accrued Interest Receivable	25,826	21,573
120500 · Prepaid Fees	388,752	342,282
120700 · Inventory Assets	1,042,239	1,116,928
Total Other Current Assets	1,462,617	1,485,389
Total Current Assets	26,559,003	28,157,938
Fixed Assets		
130100 · Capital Assets	177,662,993	162,592,221
132200 · R&R Projects WIP Capital Improv	514,942	11,959,131
132900 · Accumulated Depreciation	(42,687,473)	(38,029,009)
Total Fixed Assets	135,490,462	136,522,343
Other Assets		
183000 · Deferred Assets	119,846	385,945
Total Other Assets	119,846	385,945
TOTAL ASSETS	162,169,310	165,066,225
LIABILITIES & EQUITY		
Liabilities		
Current Liabilities		
Accounts Payable		
210100 · Accounts Payable General	83,899	1,640,741
Total Accounts Payable	83,899	1,640,741
Other Current Liabilities		
210150 · Other Current Liabilities	124,512	38,750
210152 · DNR Fund - CVEA KEA Portion	337,500	300,000
210300 · Reserve Interest Payable	95,736	68,367
210400 · Wages Payable	58,542	259,167
210401 · PTO Payable	174,991	-
210500 · Payroll Liabilities	25,269	28,222
Total Other Current Liabilities	816,551	694,506
Total Current Liabilities	900,449	2,335,246
Long Term Liabilities		
220100 · Series B Bonds 2009	6,390,000	7,160,000
220120 · 2009 Bond Issuance Discount	(25,814)	(29,837)
220121 · PERS Unfunded Liability WRG	1,005,501	1,005,501
220130 · Series 2015 Bonds	10,295,000	10,295,000
220131 · 2015 Bond Issuance Premium	848,815	903,874
Total Long Term Liabilities	18,513,503	19,334,538
Total Liabilities	19,413,952	21,669,785
Equity		
310000 · Net Position	142,591,882	142,657,410
Net Income	163,476	2,037,887
Total Equity	142,755,358	144,695,298
TOTAL LIABILITIES & EQUITY	162,169,310	166,365,082

SOUTHEAST ALASKA POWER AGENCY
Statement of Activities - Prior Year Comparison
December 2017

	DEC 2017	DEC 2016
Operating Income/Expense		
Operating Income		
410000 · Hydro Facility Revenues	1,222,966	1,797,324
Total Operating Income	1,222,966	1,797,324
Operating Expense		
535000 · Hydro Ops-Suprvsn & Engineering	6,984	25,083
538000 · Electric Expenses	382	6,173
539000 · Misc Power Generation Expense	18,974	27,130
540000 · Rents	15,599	15,432
541000 · Hydro Power Station Maintenance	2,768	4,190
543000 · Dams, Reservoirs & Waterways	-	18,059
544000 · Maintenance of Electric Plant	100,800	92,852
545000 · Plant Miscellaneous Maintenance	22,811	4,994
561000 · Control System Maintenance	11,474	2,954
562000 · Trans/Operations Station Exp	2,236	1,773
564000 · Trans/Submarine Cable Expense	15	887
571000 · Trans/Maint Overhead Lines(OHL)	68,004	15,749
920000 · Admin Wages & Benefits	132,296	177,311
921000 · Office Expenses	6,370	17,063
922000 · Legislative Affairs	4,000	4,000
923000 · Contract Services	16,374	18,798
924000 · Insurance	37,410	38,279
928000 · Regulatory Commission Expense	6,601	11,854
930000 · General Expenses	7,760	13,882
931000 · Admin Rent	7,925	6,934
Total Operating Expense	468,782	503,396
Net Operating Income	754,184	1,293,927
Nonoperating Income/Expense		
Nonoperating Income		
941000 · Grant Income	122,295	22,692
942000 · Interest Income	11,001	7,424
944000 · Realized Gain/Loss	(3,937)	(1,152)
945000 · Unrealized Gain/Loss	(2,266)	1,827
Total Nonoperating Income	127,093	30,792
Nonoperating Expense		
950001 · Misc Nonoperating Expense	-	(6,239)
952000 · Bond Interest 2009 Series	27,069	29,642
952001 · Bond Interest 2015 Series	35,686	36,052
953000 · Depreciation Expense	405,758	367,024
954000 · Grant Expenses	33,284	2,108
955000 · Interest Expense	473	-
Total Nonoperating Expense	502,270	428,588
Net Nonoperating Income	(375,177)	(397,796)
Net Change in Financial Position	379,007	896,131

SOUTHEAST ALASKA POWER AGENCY
Statement of Financial Position - Detail
as of December 31, 2017

ASSETS	
Current Assets	
Agency Funds	
111000 · Ops/Capital/Insurance Funds	
111100 · Revenue Fund FB	2,392,044
111200 · Required R&R Fund FB	1,000,308
111210 · Dedicated R&R Projects Fund FB	5,738,308
111300 · Commercial FB	995
111401 · New Generation Fund	1,898,642
111500 · Self Insured Risk Fund FNBA	7,986,209
Total 111000 · Ops/Capital/Insurance Funds	19,016,506
112000 · Trustee Funds	
112100 · WF Trust 2009 Bond Interest	50,718
112200 · WF Trust 2009 Bond Principal	534,426
112300 · WF Trust 2009 Bond Reserve	1,415,421
112501 · WF Trust 2015 Bond Interest	40,751
112503 · WF Trust 2015 Bond Reserve	213,600
Total 112000 · Trustee Funds	2,254,916
113000 · Other Restricted Funds	
113100 · STI - USFS CD WF	21,626
113500 · DNR Reclamation Fund WF	1,003,273
Total 113000 · Other Restricted Funds	1,024,899
Total Agency Funds	22,296,321
Accounts Receivable	
110000 · Accounts Receivable	2,677,770
110100 · Grants Receivable	122,295
Total Accounts Receivable	2,800,065
Other Current Assets	
120200 · Other Receivables	5,800
120300 · Accrued Interest Receivable	25,826
120500 · Prepaid Fees	
120520 · Prepaid Insurance	374,097
120530 · Prepaid Operating Expense	13,731
120550 · Prepaid Admin Benefits	924
Total 120500 · Prepaid Fees	388,752
120700 · Inventory Assets	
1207001 · Inventory - Spares-Stores	151,834
1207003 · Inventory - SWL Winding Replace	890,405
Total 120700 · Inventory Assets	1,042,239
Total 120000 - Other Current Assets	1,462,617
Total Current Assets	26,559,003
Fixed Assets	
130100 · Capital Assets	
130110 · Swan Lake	30,632,174
130120 · Tyee Lake	31,425,703
130130 · SEAPA Office	809,677
132100 · Swan Tyee Intertie in Operation	114,795,439
Total 130100 · Capital Assets	177,662,993
132200 · R&R Projects WIP Capital Improv	
132210 · R&R Projects - WIP Swan Lake	192,915
132220 · R&R Projects - WIP Tyee Lake	317,482
132240 · R&R Projects - WIP SEAPA Office	4,545
Total 132200 · R&R Projects WIP Capital Improv	514,942
132900 · Accumulated Depreciation	(42,687,473)
Total 130000 - Fixed Assets	135,490,462
Other Assets	
183000 · Deferred Assets	
183003 · 2009 Bond - Refunded Discount	119,846
Total 183000 · Deferred Assets	119,846
TOTAL ASSETS	162,169,310

SOUTHEAST ALASKA POWER AGENCY
Statement of Financial Position - Detail
as of December 31, 2017

LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
210100 · Accounts Payable General	83,899
Total Accounts Payable	83,899
Other Current Liabilities	
210150 · Other Current Liabilities	124,512
210152 · DNR Fund - CVEA KEA Portion	337,500
210300 · Reserve Interest Payable	95,736
210400 · Wages Payable	58,542
210401 · PTO Payable	174,991
210500 · Payroll Liabilities	
210521 · FICA Payable	4,604
210522 · SUI Tax Payable	715
210531 · IBEW H&W Payable	11,114
210540 · 457(b) Payable	1,075
210541 · IBEW Pension Payable	7,023
210550 · IBEW Dues Payable	738
Total 210500 · Payroll Liabilities	25,269
Total Other Current Liabilities	816,551
Total Current Liabilities	900,449
Long Term Liabilities	
220100 · Series B Bonds 2009	6,390,000
220120 · 2009 Bond Issuance Discount	(25,814)
220121 · PERS Unfunded Liability WRG	1,005,501
220130 · Series 2015 Bonds	10,295,000
220131 · 2015 Bond Issuance Premium	848,815
Total Long Term Liabilities	18,513,503
Total Liabilities	19,413,952
Net Position	
310000 · Net Position	
3100001 · Net Investment Capital Assets	119,036,952
3100002 · Restricted for Debt Service	1,589,894
3100003 · Restricted by External Agreement	1,024,898
3100004 · Unrestricted	20,940,138
Total 310000 · Net Position	142,591,882
Net Income	163,476
Total Net Position	142,755,358
TOTAL LIABILITIES & NET POSITION	162,169,310

SOUTHEAST ALASKA POWER AGENCY
Statement of Activities - Budget Comparison
December 2017

	Dec 2017	Budget	Jul-Dec'17	YTD Budget	Annual Budget
Operating Income/Expense					
Operating Income					
410000 · Hydro Facility Revenues					
410100 · Ketchikan Power Purchases	659,245	754,835	3,324,209	3,325,301	6,354,335
410200 · Petersburg Power Purchases	312,538	355,696	1,431,682	1,557,488	3,017,107
410300 · Wrangell Power Purchases	251,182	299,105	1,209,273	1,361,790	2,680,012
Total 410000 · Hydro Facility Revenues	1,222,966	1,409,636	5,965,163	6,244,579	12,051,454
Total Operating Income	1,222,966	1,409,636	5,965,163	6,244,579	12,051,454
Operating Expense					
535000 · Hydro Ops-Suprvsn & Engineering					
535100 · Hyd/Ops Sup & Eng - Swan Lake	573	1,540	4,310	9,240	18,480
535150 · Hyd/Ops Sup & Eng - SWL SEAPA	321	2,760	14,805	3,510	79,000
535250 · Hyd/Ops Sup & Eng -TYL SEAPA	-	3,350	1,462	11,600	21,500
535400 · Hyd/Op Sup & Eng - Proj Drawing	6,090	7,500	17,090	35,000	91,000
Total 535000 · Hydro Ops-Suprvsn & Engineering	6,984	15,150	37,667	59,350	209,980
537000 · Hydraulic Expenses					
537150 · Hydraulic Expense - SWL SEAPA	-	-	-	-	2,500
537250 · Hydraulic Expense - TYL SEAPA	-	-	-	-	2,500
Total 537000 · Hydraulic Expenses	-	-	-	-	5,000
538000 · Electric Expenses					
538100 · Electric Expense - Swan Lake	-	2,000	5,206	13,000	25,000
538150 · Electric Expense - SWL SEAPA	-	3,000	8,300	17,000	35,000
538200 · Electric Expense - Tyee Lake	382	1,700	3,212	10,300	20,500
538250 · Electric Expense - TYL SEAPA	-	3,000	-	16,000	35,000
Total 538000 · Electric Expenses	382	9,700	16,718	56,300	115,500
539000 · Misc Power Generation Expense					
539100 · Misc Exp - Swan Lake	3,131	8,000	34,884	49,000	104,195
539150 · Misc Expense - SWL SEAPA	243	250	1,841	7,250	9,000
539151 · Misc Expense - SWL Communicatn	1,990	2,600	17,580	14,800	29,500
539200 · Misc Expense - Tyee Lake	5,156	7,500	30,434	42,500	87,500
539250 · Misc Expense - TYL SEAPA	1,522	2,500	23,117	14,500	36,500
539251 · Misc Expense - TYL Communicatn	6,931	7,600	40,252	45,300	91,400
Total 539000 · Misc Power Generation Expense	18,974	28,450	148,108	173,350	358,095
540000 · Rents					
540300 · FERC Land Use Fee - Swan Lake	1,667	1,670	10,000	9,980	20,000
540400 · FERC Land Use Fee - Tyee Lake	5,667	5,670	34,000	33,980	68,000
540500 · USDA Land Use Fee - USFS ROW	1,997	2,000	11,981	11,900	24,500
540600 · USDA Land Use Fee - STI	6,116	6,100	36,696	36,600	75,000
540601 · AK DNR Land Use Fee - STI	-	2,000	-	8,000	20,000
540700 · USDA Tyee Passive Reflector	108	110	650	650	1,400
540710 · USDA Etolin Burnett Radio	45	50	274	300	600
Total 540000 · Rents	15,599	17,600	93,601	101,410	209,500
541000 · Hydro Power Station Maintenance					
541100 · Maintenance - Swan Lake	2,768	2,400	9,242	14,400	29,000
541150 · Maintenance - SWL SEAPA	-	2,200	1,214	13,600	27,500
541200 · Maintenance - Tyee Lake	-	1,700	9,240	10,200	21,500
541250 · Maintenance - TYL SEAPA	-	2,200	3,473	13,200	27,500
Total 541000 · Hydro Power Station Maintenance	2,768	8,500	23,169	51,400	105,500
543000 · Dams, Reservoirs & Waterways					
543100 · Dams Res & Waterwys - Swan Lake	-	400	1,133	2,600	5,000
543150 · Dams Res & Waterwys - SWL SEAPA	-	2,800	2,812	31,700	48,500
543200 · Dams Res & Waterwys - Tyee Lake	-	500	-	3,500	6,500
543250 · Dams Res & Waterwys - TYL SEAPA	-	12,500	17,000	29,500	45,000
Total 543000 · Dams, Reservoirs & Waterways	-	16,200	20,945	67,300	105,000

SOUTHEAST ALASKA POWER AGENCY
Statement of Activities - Budget Comparison
December 2017

	Dec 2017	Budget	Jul-Dec'17	YTD Budget	Annual Budget
544000 · Maintenance of Electric Plant					
544100 · Maint Electric Plant-Swan Lake	51,154	50,514	303,977	303,082	606,166
5442900 · TYL Plant Wages & Benefits					
5442911 · TYL Plant Wages/PTO	31,757	28,300	193,690	183,600	384,000
5442912 · TYL Plant Wages OT	2,761	1,960	21,688	12,150	36,000
5442920 · TYL Plant Benefit - Taxes	2,853	2,930	16,774	16,020	33,700
5442930 · TYL Plant Benefits - Insurance	7,338	7,340	44,028	44,040	89,200
5442940 · TYL Plant Benefits - Retirement	4,937	4,930	29,575	28,720	58,100
5442992 · TYL Plant Grant-Capital Payroll	-	-	(5,832)	-	-
Total 5442900 · TYL Plant Wages & Benefits	49,646	45,460	299,923	284,530	601,000
Total 544000 · Maintenance of Electric Plant	100,800	95,974	603,900	587,612	1,207,166
545000 · Plant Miscellaneous Maintenance					
545100 · Plant Misc Maint - Swan Lake	4,186	4,900	6,007	29,400	59,000
545150 · Plant Misc Maint - SWL SEAPA	17,888	1,000	28,792	11,000	16,600
545200 · Plant Misc Maint - Tyee Lake	738	1,700	10,324	10,200	20,500
545251 · Plant Misc Maint - WRG Warehous	-	-	8,382	13,000	13,000
Total 545000 · Plant Miscellaneous Maintenance	22,811	7,600	53,505	63,600	109,100
561000 · Control System Maintenance					
561150 · Control System Maint. - SWL	4,151	3,200	26,776	19,300	38,500
561250 · Control System Maint. - TYL	7,323	3,000	31,542	20,500	38,500
Total 561000 · Control System Maintenance	11,474	6,200	58,317	39,800	77,000
562000 · Trans/Operations Station Exp					
562100 · Trans/Ops Station - Swan Lake	-	1,250	-	7,500	15,000
562200 · Trans/Ops Station - Tyee Lake	780	1,000	4,118	6,000	12,200
562250 · Trans/Ops Station-TYL SEAPA	1,456	1,500	10,838	8,100	17,200
Total 562000 · Trans/Operations Station Exp	2,236	3,750	14,956	21,600	44,400
564000 · Trans/Submarine Cable Expense					
564200 · Trans/Sub Cable Exp - Tyee Lake	15	625	729	3,750	542,500
Total 564000 · Trans/Submarine Cable Expense	15	625	729	3,750	542,500
571000 · Trans/Maint Overhead Lines(OHL)					
571100 · Trans/Maint OHL - Swan Lake	-	1,000	2,610	6,300	24,000
571150 · Trans/Maint OHL - SWL SEAPA	-	1,000	-	6,000	303,223
571151 · Trans/Maint OHL - SWL ROW Clear	50,000	8,000	50,000	42,000	55,000
571200 · Trans/Maint OHL - Tyee Lake	1,063	3,600	18,296	21,600	43,250
571250 · Trans/Maint OHL - TYL SEAPA	366	1,000	90,713	104,000	318,014
5712900 · TYL Brushing Wages & Benefits					
5712911 · TYL Brushing Wages/PTO	9,902	12,300	62,061	77,200	151,000
5712912 · TYL Brushing Wages OT	65	500	5,254	6,900	14,000
5712920 · TYL Brushing Benefit - Taxes	852	620	5,474	8,330	13,500
5712930 · TYL Brushing Benefit- Insurance	3,669	3,740	22,014	22,440	44,600
5712940 · TYL Brushing Benefit- Retirement	2,087	2,400	13,814	14,460	28,900
5712992 · TYL Brush Grant-Capital Payroll	-	-	(206)	-	-
Total 5712900 · TYL Brushing Wages & Benefits	16,574	19,560	108,412	129,330	252,000
571300 · Trans/Maint OHL STI Maintenance	-	1,500	256,210	243,500	515,907
571500 · Trans/Maint OHL STI Therm Scan	-	250	-	1,500	3,400
571700 · Trans/Maint OH STI Clearing	-	-	-	34,000	65,000
571800 · Trans/Maint OHL System Events	-	4,000	-	21,000	40,000
Total 571000 · Trans/Maint Overhead Lines(OHL)	68,004	39,910	526,240	609,230	1,619,794

SOUTHEAST ALASKA POWER AGENCY
Statement of Activities - Budget Comparison
December 2017

	Dec 2017	Budget	Jul-Dec'17	YTD Budget	Annual Budget
920000 · Admin Wages & Benefits					
9201911 · Admin Wages/PTO	84,667	73,000	445,153	438,000	952,000
9201912 · Admin Wages - Overtime	-	150	-	900	2,000
9201920 · Admin Benefit - Taxes	5,459	5,400	26,517	32,400	65,000
9201930 · Admin Benefit - H&W Insurance	19,178	19,200	115,069	115,200	271,000
9201940 · Admin Benefit - Retirement	22,991	23,000	138,947	137,850	292,000
Total 920000 · Admin Wages & Benefits	132,296	120,750	725,686	724,350	1,582,000
921000 · Office Expenses					
921100 · Office Supplies	1,008	1,250	7,319	7,500	15,000
921200 · Office Equipment	1,056	1,250	11,292	7,500	15,000
921300 · Phone, Courier, Internet	1,552	1,975	9,587	11,850	23,700
921400 · System Network / IT Support	2,498	4,600	15,758	26,100	55,700
921600 · Vehicle Expenses	256	350	634	2,100	4,200
Total 921000 · Office Expenses	6,370	9,425	44,590	55,050	113,600
922000 · Legislative Affairs	4,000	5,000	24,000	28,000	58,000
923000 · Contract Services					
923200 · Annual Financial Audit	-	6,000	23,596	35,000	35,000
923300 · Bank & Trustee Fees	258	300	1,644	1,800	16,400
923400 · Insurance Consultant	-	400	8,663	7,050	9,000
923500 · Investment Consultant	1,669	1,950	10,031	11,100	24,500
923600 · Legal Fees	10,847	15,000	80,044	90,000	180,000
923700 · Recruitment	2,721	1,500	10,852	11,000	26,000
923800 · Other Professional Services	880	4,250	1,466	25,500	51,000
Total 923000 · Contract Services	16,374	29,400	136,295	181,450	341,900
924000 · Insurance	37,410	40,200	228,045	236,800	478,000
928000 · Regulatory Commission Expense					
928001 · Other Regulatory Expense	1,763	29,000	148,692	202,000	204,700
928150 · FERC SWL Admin Fees	2,513	3,000	12,948	18,000	36,000
928151 · FERC SWL Other Expenses	-	10,000	14,795	28,000	122,000
928250 · FERC TYL Admin Fees	2,325	2,750	11,905	16,500	33,000
928251 · FERC TYL Other Expenses	-	-	-	-	-
Total 928000 · Regulatory Commission Expense	6,601	44,750	188,340	264,500	395,700
930000 · General Expenses					
930100 · Advertising Expense	196	250	719	1,500	3,000
930110 · Public Relations	950	3,000	12,637	16,300	32,500
930111 · PR - SEAPA History Project	-	-	-	-	-
930300 · Association Dues Expense	370	500	22,138	22,000	33,000
930310 · Professional Assn Dues	-	-	350	375	575
930400 · Board Meeting Expenses	3,378	6,000	15,951	22,500	37,000
930500 · Training Expense	1,620	-	18,507	18,500	30,500
930600 · Travel Expense	1,266	3,500	11,457	17,500	35,000
930700 · Non-Travel Incidental	(19)	350	751	1,900	4,000
Total 930000 · General Expenses	7,760	13,600	82,510	100,575	175,575
931000 · Admin Rent					
931010 · Office Rent	6,098	5,300	32,551	31,900	64,600
931100 · Apartment Rent - Ketchikan	1,827	1,900	11,422	10,900	22,000
Total 931000 · Admin Rent	7,925	7,200	43,974	42,800	86,600
Total Operating Expense	468,782	519,984	3,071,294	3,468,227	7,939,910
Net Operating Income	754,184	889,652	2,893,869	2,776,352	4,111,544

SOUTHEAST ALASKA POWER AGENCY
Statement of Activities - Budget Comparison
December 2017

	Dec 2017	Budget	Jul-Dec'17	YTD Budget	Annual Budget
Nonoperating Income/Expense					
Nonoperating Income					
941000 · Grant Income	122,295		147,715		
942000 · Interest Income					
942100 · Misc Interest Income	1,880		10,227		
942200 · Investment Interest Income	9,121		50,364		
Total 942000 · Interest Income	11,001		60,591		
944000 · Realized Gain/Loss					
944200 · Realized Gain/Loss on Invest	(3,937)		(7,606)		
Total 944000 · Realized Gain/Loss	(3,937)		(7,606)		
945000 · Unrealized Gain/Loss					
945200 · Unrealized Gain/Loss Investment	(2,266)		(38,552)		
Total 945000 · Unrealized Gain/Loss	(2,266)		(38,552)		
946000 · Misc Nonoperating Income					
946002 · Gain/Loss on Property Dispositi	-		7,000		
Total 946000 · Misc Nonoperating Income	-		7,000		
Total Nonoperating Income	127,093		169,149		
Nonoperating Expense					
950001 · Misc Nonoperating Expense	-		(20)		
952000 · Bond Interest 2009 Series	27,069		162,414		
952001 · Bond Interest 2015 Series	35,686		215,948		
953000 · Depreciation Expense	405,758		2,373,010		
954000 · Grant Expenses					
954002 · Grant Contractual	33,425		147,715		
954008 · Grant Travel	(142)		-		
Total 954000 · Grant Expenses	33,284		147,715		
955000 · Interest Expense					
955200 · Investment Interest Expense	473		473		
Total 955000 · Interest Expense	473		473		
Total Nonoperating Expense	502,270		2,899,541		
Net Nonoperating Income	(375,177)		(2,730,392)		
Net Income	379,007	889,652	163,476	2,776,352	4,111,544



NOVEMBER 2017 FINANCIAL OVERVIEW

The following tables provide a snapshot of SEAPA's revenues and expenses for NOVEMBER, 2017.

Revenues from kWh sales were over budget for the month:

FIRM kWh SALES	NOVEMBER Sales	NOVEMBER Budget	Prior Year Sales
Ketchikan	\$764,714	\$658,946	\$618,635
Petersburg	\$324,894	\$284,100	\$276,046
Wrangell	\$254,092	\$236,930	\$221,399
Total Revenue	\$1,343,700	\$1,179,976	\$1,116,080

Fiscal year-to-date revenues from kWh sales were under budget:

FIRM kWh SALES	YTD Sales	YTD Budget	Prior YTD Sales
Ketchikan	\$2,664,964	\$2,570,466	\$2,550,118
Petersburg	\$1,119,144	\$1,201,792	\$1,160,017
Wrangell	\$958,090	\$1,062,685	\$965,254
Total Revenue	\$4,742,197	\$4,834,943	\$4,675,388

FIRM kWh SALES (Year-Over-Year)	FISCAL YEAR	NOVEMBER kWh	YTD JUL-NOV kWh
	FY2018	19,760,292	69,738,195
	FY2017	16,412,945	68,755,706
	FY2016	15,646,536	65,863,757

Administrative and operating expenses were under budget:

Administrative & Operating Expenses	NOVEMBER Actual	NOVEMBER Budget	Prior Yr Expense
	\$501,834	\$522,354	\$432,803
	YTD Actual	YTD Budget	Prior YTD Expense
	\$2,602,374	\$2,948,243	\$2,148,423

The policy year for SEAPA's commercial property and liability insurance begins November 1. Premiums totaling \$448,777 were recorded as prepaid insurance (120520) this month, and were offset by one month's insurance expense of \$37,410 (924000).

AGENCY FUNDSOperations, Capital and Insurance Funds

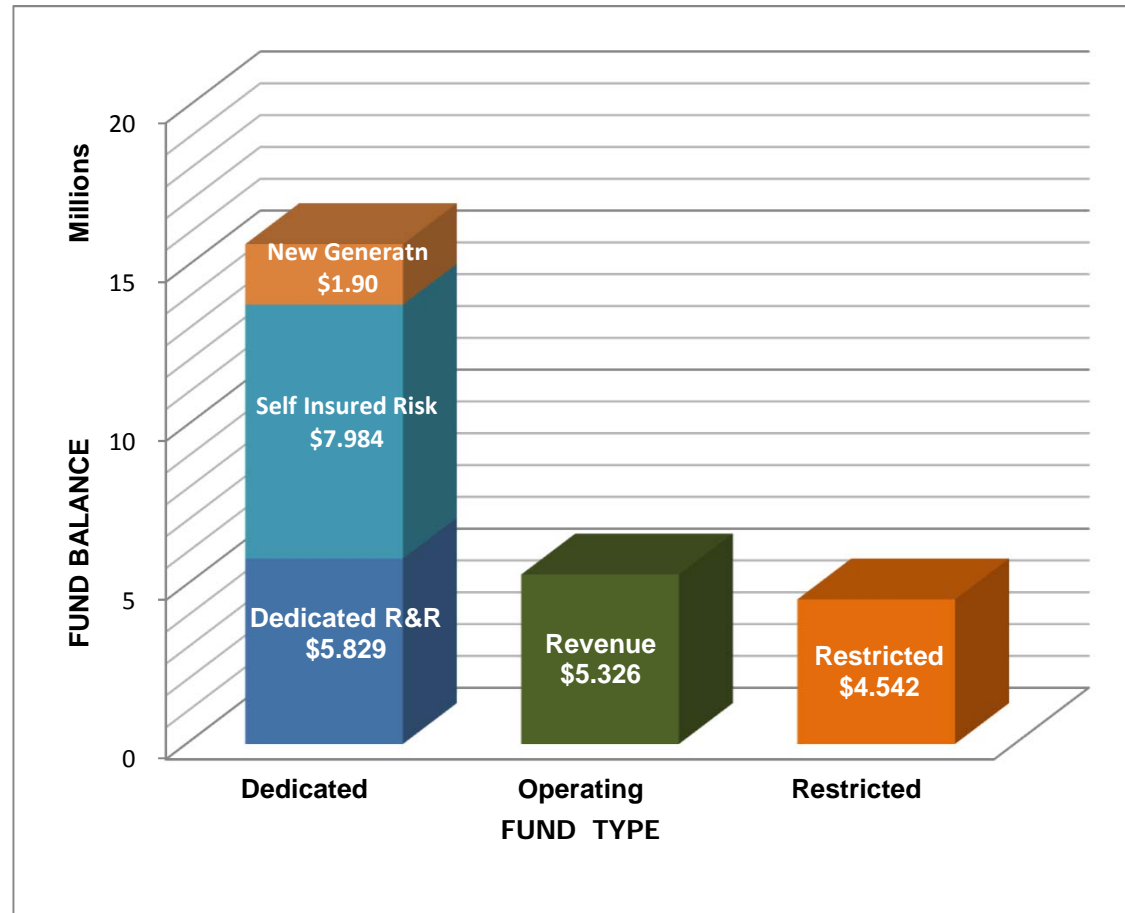
Revenue Fund FB	\$ 5,325,341
Required R&R Fund FB	1,000,256
Dedicated R&R Projects Fund FB	5,828,583
Commercial FB	1,000
New Generation Fund	1,898,543
Self Insured Risk Fund FNBA	7,984,038
Total Operations, Capital and Insurance Funds	<u>22,037,760</u>

Trustee Funds

2009 Bond Interest	\$ 176,563
2009 Bond Principal	467,578
2009 Bond Reserve	1,414,696
2015 Bond Interest	244,210
2015 Bond Reserve	213,490
Total Trustee Funds	<u>2,516,537</u>

Other Restricted Funds

STI - USFS CD WF	\$ 21,626
DNR Reclamation Fund WF	1,003,273
Total Other Restricted Funds	<u>1,024,899</u>
Total Agency Funds	<u><u>\$ 25,579,195</u></u>

Dedicated Funds

New Generation = Project feasibility funding (hydro, wind, geothermal)

Self-Insured Risk = Coverage for uninsured transmission lines, submarine cables and insurance deductibles.

Dedicated R&R = Funds Replacement & Repair projects approved by the SEAPA Board in the budget.

Operating Funds

Revenue Fund & Commercial Checking: All SEAPA income is deposited to the Revenue Fund as required by Bond Indentures.

Restricted Funds (Legally or contractually restricted)

Bonds = All Trustee Funds: Bond Interest, Principal, Reserve and Escrow accounts

R&R = \$1,000,000 minimum balance required by bond indenture

DNR = Alaska DNR Reclamation Agreement

USFS = USFS Land Remediation Certificate of Deposit

SOUTHEAST ALASKA POWER AGENCY
Financial Position - Prior Year Comparison
as of November 30, 2017

	NOV 30, 2017	NOV 30, 2016
ASSETS		
Current Assets		
Agency Funds		
111000 · Ops/Capital/Insurance Funds	22,037,760	22,127,145
112000 · Trustee Funds	2,516,537	2,510,376
113000 · Other Restricted Funds	1,024,899	948,892
Total Agency Funds	25,579,195	25,586,414
Accounts Receivable		
110000 · Accounts Receivable	1,929,373	1,541,982
110010 · Unbilled Displaced Sales	-	326,905
Total Accounts Receivable	1,929,373	1,868,887
Other Current Assets		
120200 · Other Receivables	5,800	4,606
120300 · Accrued Interest Receivable	25,786	24,057
120500 · Prepaid Fees	455,772	413,661
120700 · Inventory Assets	1,042,239	1,001,642
Total Other Current Assets	1,529,597	1,443,966
Total Current Assets	29,038,165	28,899,266
Fixed Assets		
130100 · Capital Assets	177,317,481	162,102,073
132200 · R&R Projects WIP Capital Improv	755,829	12,215,855
132900 · Accumulated Depreciation	(42,281,714)	(37,661,985)
Total Fixed Assets	135,791,595	136,655,942
Other Assets		
183000 · Deferred Assets	121,402	387,423
Total Other Assets	121,402	387,423
TOTAL ASSETS	164,951,162	165,942,631
LIABILITIES & EQUITY		
Liabilities		
Current Liabilities		
Accounts Payable		
210100 · Accounts Payable General	220,273	1,640,741
Total Accounts Payable	220,273	1,640,741
Other Current Liabilities		
210150 · Other Current Liabilities	112,342	25,833
210151 · Member Utility Rebate Payable	2,700,000	800,000
210152 · DNR Fund - CVEA KEA Portion	337,500	300,000
210300 · Reserve Interest Payable	425,232	410,323
210400 · Wages Payable	58,356	54,862
210401 · PTO Payable	179,834	177,077
210500 · Payroll Liabilities	23,506	23,351
Total Other Current Liabilities	3,836,769	1,791,446
Total Current Liabilities	4,057,041	3,432,187
Long Term Liabilities		
220100 · Series B Bonds 2009	6,390,000	7,160,000
220120 · 2009 Bond Issuance Discount	(26,149)	(30,172)
220121 · PERS Unfunded Liability WRG	1,005,501	1,005,501
220130 · Series 2015 Bonds	10,295,000	10,295,000
220131 · 2015 Bond Issuance Premium	853,404	908,462
Total Long Term Liabilities	18,517,756	19,338,791
Total Liabilities	22,574,797	22,770,978
Equity		
310000 · Net Position	142,591,882	142,657,410
Net Income	(215,516)	1,141,756
Total Equity	142,376,365	143,799,166
TOTAL LIABILITIES & EQUITY	164,951,162	166,570,145

SOUTHEAST ALASKA POWER AGENCY
Statement of Activities - Prior Year Comparison
November 2017

	NOV 2017	NOV 2016
Operating Income/Expense		
Operating Income		
410000 · Hydro Facility Revenues	1,343,700	1,116,080
Total Operating Income	1,343,700	1,116,080
Operating Expense		
535000 · Hydro Ops-Suprvsn & Engineering	5,926	3,034
538000 · Electric Expenses	3,492	1,743
539000 · Misc Power Generation Expense	33,079	19,893
540000 · Rents	15,600	15,432
541000 · Hydro Power Station Maintenance	4,506	6,017
543000 · Dams, Reservoirs & Waterways	-	4,871
544000 · Maintenance of Electric Plant	101,439	100,379
545000 · Plant Miscellaneous Maintenance	6,525	2,259
561000 · Control System Maintenance	15,124	2,428
562000 · Trans/Operations Station Exp	2,272	1,245
564000 · Trans/Submarine Cable Expense	46	-
571000 · Trans/Maint Overhead Lines(OHL)	20,019	20,807
920000 · Admin Wages & Benefits	117,330	116,995
921000 · Office Expenses	7,717	11,091
922000 · Legislative Affairs	4,000	4,000
923000 · Contract Services	55,677	44,316
924000 · Insurance	37,410	38,279
928000 · Regulatory Commission Expense	39,906	5,583
930000 · General Expenses	24,731	27,818
931000 · Admin Rent	7,036	6,612
Total Operating Expense	501,834	432,803
Net Operating Income	841,866	683,277
Nonoperating Income/Expense		
Nonoperating Income		
942000 · Interest Income	10,263	4,747
944000 · Realized Gain/Loss	-	1,399
945000 · Unrealized Gain/Loss	(23,947)	(37,784)
Total Nonoperating Income	(13,685)	(31,639)
Nonoperating Expense		
950001 · Misc Nonoperating Expense	(20)	-
952000 · Bond Interest 2009 Series	27,069	29,642
952001 · Bond Interest 2015 Series	36,052	36,048
953000 · Depreciation Expense	392,684	358,885
954000 · Grant Expenses	88,995	155
954100 · Contributed Capital	-	(1,796)
Total Nonoperating Expense	544,781	422,934
Net Nonoperating Income	(558,466)	(454,572)
Net Change in Financial Position	283,400	228,705

SOUTHEAST ALASKA POWER AGENCY
Statement of Financial Position - Detail
as of November 30, 2017

ASSETS	
Current Assets	
Agency Funds	
111000 · Ops/Capital/Insurance Funds	
111100 · Revenue Fund FB	5,325,341
111200 · Required R&R Fund FB	1,000,256
111210 · Dedicated R&R Projects Fund FB	5,828,583
111300 · Commercial FB	1,000
111401 · New Generation Fund	1,898,543
111500 · Self Insured Risk Fund FNBA	7,984,038
Total 111000 · Ops/Capital/Insurance Funds	22,037,760
112000 · Trustee Funds	
112100 · WF Trust 2009 Bond Interest	176,563
112200 · WF Trust 2009 Bond Principal	467,578
112300 · WF Trust 2009 Bond Reserve	1,414,696
112501 · WF Trust 2015 Bond Interest	244,210
112503 · WF Trust 2015 Bond Reserve	213,490
Total 112000 · Trustee Funds	2,516,537
113000 · Other Restricted Funds	
113100 · STI - USFS CD WF	21,626
113500 · DNR Reclamation Fund WF	1,003,273
Total 113000 · Other Restricted Funds	1,024,899
Total Agency Funds	25,579,195
Accounts Receivable	
110000 · Accounts Receivable	1,929,373
Total Accounts Receivable	1,929,373
Other Current Assets	
120200 · Other Receivables	5,800
120300 · Accrued Interest Receivable	25,786
120500 · Prepaid Fees	
120520 · Prepaid Insurance	411,367
120530 · Prepaid Operating Expense	14,945
120540 · Prepaid USDA FS Land Use Fees	8,266
120550 · Prepaid Admin Benefits	21,193
Total 120500 · Prepaid Fees	455,772
120700 · Inventory Assets	
1207001 · Inventory - Spares-Stores	151,834
1207003 · Inventory - SWL Winding Replace	890,405
Total 120700 · Inventory Assets	1,042,239
Total 120000 · Other Current Assets	1,529,597
Total Current Assets	29,038,165
Fixed Assets	
130100 · Capital Assets	
130110 · Swan Lake	30,575,359
130120 · Tyee Lake	31,137,006
130130 · SEAPA Office	809,677
132100 · Swan Tyee Intertie in Operation	114,795,439
Total 130100 · Capital Assets	177,317,481
132200 · R&R Projects WIP Capital Improv	
132210 · R&R Projects - WIP Swan Lake	175,972
132220 · R&R Projects - WIP Tyee Lake	579,857
Total 132200 · R&R Projects WIP Capital Improv	755,829
132900 · Accumulated Depreciation	(42,281,714)
Total 130000 · Fixed Assets	135,791,595
Other Assets	
183000 · Deferred Assets	
183003 · 2009 Bond - Refunded Discount	121,402
Total 183000 · Deferred Assets	121,402
TOTAL ASSETS	164,951,162

SOUTHEAST ALASKA POWER AGENCY
Statement of Financial Position - Detail
as of November 30, 2017

LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
210100 · Accounts Payable General	220,273
Total Accounts Payable	220,273
Other Current Liabilities	
210150 · Other Current Liabilities	112,342
210151 · Member Utility Rebate Payable	2,700,000
210152 · DNR Fund - CVEA KEA Portion	337,500
210300 · Reserve Interest Payable	425,232
210400 · Wages Payable	58,356
210401 · PTO Payable	179,834
210500 · Payroll Liabilities	
210521 · FICA Payable	3,243
210522 · SUI Tax Payable	147
210531 · IBEW H&W Payable	11,114
210540 · 457(b) Payable	1,075
210541 · IBEW Pension Payable	7,170
210550 · IBEW Dues Payable	757
Total 210500 · Payroll Liabilities	23,506
Total Other Current Liabilities	3,836,769
Total Current Liabilities	4,057,041
Long Term Liabilities	
220100 · Series B Bonds 2009	6,390,000
220120 · 2009 Bond Issuance Discount	(26,149)
220121 · PERS Unfunded Liability WRG	1,005,501
220130 · Series 2015 Bonds	10,295,000
220131 · 2015 Bond Issuance Premium	853,404
Total Long Term Liabilities	18,517,756
Total Liabilities	22,574,797
Net Position	
310000 · Net Position	
3100001 · Net Investment Capital Assets	119,036,952
3100002 · Restricted for Debt Service	1,589,894
3100003 · Restricted by External Agreement	1,024,898
3100004 · Unrestricted	20,940,138
Total 310000 · Net Position	142,591,882
Net Income	(215,516)
Total Net Position	142,376,365
TOTAL LIABILITIES & NET POSITION	164,951,162

SOUTHEAST ALASKA POWER AGENCY
Statement of Activities - Budget Comparison
November 2017

	Nov 2017	Budget	Jul-Nov'17	YTD Budget	Annual Budget
Operating Income/Expense					
Operating Income					
410000 · Hydro Facility Revenues					
410100 · Ketchikan Power Purchases	764,714	658,946	2,664,964	2,570,466	6,354,335
410200 · Petersburg Power Purchases	324,894	284,100	1,119,144	1,201,792	3,017,107
410300 · Wrangell Power Purchases	254,092	236,930	958,090	1,062,685	2,680,012
Total 410000 · Hydro Facility Revenues	1,343,700	1,179,976	4,742,197	4,834,943	12,051,454
Total Operating Income	1,343,700	1,179,976	4,742,197	4,834,943	12,051,454
Operating Expense					
535000 · Hydro Ops-Suprvsn & Engineering					
535100 · Hyd/Ops Sup & Eng - Swan Lake	1,894	1,540	3,736	7,700	18,480
535150 · Hyd/Ops Sup & Eng - SWL SEAPA	1,627	150	14,484	750	79,000
535250 · Hyd/Ops Sup & Eng -TYL SEAPA	1,306	1,650	1,306	8,250	21,500
535400 · Hyd/Op Sup & Eng - Proj Drawing	1,100	7,500	11,000	27,500	91,000
Total 535000 · Hydro Ops-Suprvsn & Engineering	5,926	10,840	30,526	44,200	209,980
537000 · Hydraulic Expenses					
537150 · Hydraulic Expense - SWL SEAPA	-	-	-	-	2,500
537250 · Hydraulic Expense - TYL SEAPA	-	-	-	-	2,500
Total 537000 · Hydraulic Expenses	-	-	-	-	5,000
538000 · Electric Expenses					
538100 · Electric Expense - Swan Lake	2,270	2,000	5,206	11,000	25,000
538150 · Electric Expense - SWL SEAPA	-	3,000	8,300	14,000	35,000
538200 · Electric Expense - Tyee Lake	1,222	1,700	2,617	8,600	20,500
538250 · Electric Expense - TYL SEAPA	-	3,000	-	13,000	35,000
Total 538000 · Electric Expenses	3,492	9,700	16,123	46,600	115,500
539000 · Misc Power Generation Expense					
539100 · Misc Exp - Swan Lake	12,503	8,000	31,753	41,000	104,195
539150 · Misc Expense - SWL SEAPA	712	250	1,597	7,000	9,000
539151 · Misc Expense - SWL Communicatn	4,233	2,400	15,590	12,200	29,500
539200 · Misc Expense - Tyee Lake	3,831	7,500	25,491	35,000	87,500
539250 · Misc Expense - TYL SEAPA	4,875	2,500	21,595	12,000	36,500
539251 · Misc Expense - TYL Communicatn	6,925	7,600	33,321	37,700	91,400
Total 539000 · Misc Power Generation Expense	33,079	28,250	129,347	144,900	358,095
540000 · Rents					
540300 · FERC Land Use Fee - Swan Lake	1,667	1,670	8,333	8,310	20,000
540400 · FERC Land Use Fee - Tyee Lake	5,667	5,670	28,333	28,310	68,000
540500 · USDA Land Use Fee - USFS ROW	1,997	2,000	9,984	9,900	24,500
540600 · USDA Land Use Fee - STI	6,116	6,100	30,580	30,500	75,000
540601 · AK DNR Land Use Fee - STI	-	2,000	-	6,000	20,000
540700 · USDA Tyee Passive Reflector	108	110	542	540	1,400
540710 · USDA Etolin Burnett Radio	46	50	229	250	600
Total 540000 · Rents	15,600	17,600	78,002	83,810	209,500
541000 · Hydro Power Station Maintenance					
541100 · Maintenance - Swan Lake	517	2,400	6,473	12,000	29,000
541150 · Maintenance - SWL SEAPA	-	2,400	1,214	11,400	27,500
541200 · Maintenance - Tyee Lake	1,145	1,700	9,240	8,500	21,500
541250 · Maintenance - TYL SEAPA	2,843	2,200	3,473	11,000	27,500
Total 541000 · Hydro Power Station Maintenance	4,506	8,700	20,401	42,900	105,500
543000 · Dams, Reservoirs & Waterways					
543100 · Dams Res & Waterwys - Swan Lake	-	400	1,133	2,200	5,000
543150 · Dams Res & Waterwys - SWL SEAPA	-	2,800	2,812	28,900	48,500
543200 · Dams Res & Waterwys - Tyee Lake	-	500	-	3,000	6,500
543250 · Dams Res & Waterwys - TYL SEAPA	-	-	17,000	17,000	45,000
Total 543000 · Dams, Reservoirs & Waterways	-	3,700	20,945	51,100	105,000

SOUTHEAST ALASKA POWER AGENCY
Statement of Activities - Budget Comparison
November 2017

	Nov 2017	Budget	Jul-Nov'17	YTD Budget	Annual Budget
544000 · Maintenance of Electric Plant					
544100 · Maint Electric Plant-Swan Lake	52,549	50,514	252,822	252,568	606,166
5442900 · TYL Plant Wages & Benefits					
5442911 · TYL Plant Wages/PTO	32,585	31,100	161,933	155,300	384,000
5442912 · TYL Plant Wages OT	1,324	2,920	18,926	10,190	36,000
5442920 · TYL Plant Benefit - Taxes	2,658	2,840	13,921	13,090	33,700
5442930 · TYL Plant Benefits - Insurance	7,338	7,340	36,690	36,700	89,200
5442940 · TYL Plant Benefits - Retirement	4,986	5,110	24,638	23,790	58,100
5442992 · TYL Plant Grant-Capital Payroll	-	-	(5,832)	-	-
Total 5442900 · TYL Plant Wages & Benefits	48,890	49,310	250,277	239,070	601,000
Total 544000 · Maintenance of Electric Plant	101,439	99,824	503,099	491,638	1,207,166
545000 · Plant Miscellaneous Maintenance					
545100 · Plant Misc Maint - Swan Lake	-	4,900	1,822	24,500	59,000
545150 · Plant Misc Maint - SWL SEAPA	6,070	1,000	10,904	10,000	16,600
545200 · Plant Misc Maint - Tyee Lake	455	1,700	9,587	8,500	20,500
545251 · Plant Misc Maint - WRG Warehous	-	3,000	8,382	13,000	13,000
Total 545000 · Plant Miscellaneous Maintenance	6,525	10,600	30,694	56,000	109,100
561000 · Control System Maintenance					
561150 · Control System Maint. - SWL	7,302	3,200	22,625	16,100	38,500
561250 · Control System Maint. - TYL	7,822	3,000	24,218	17,500	38,500
Total 561000 · Control System Maintenance	15,124	6,200	46,843	33,600	77,000
562000 · Trans/Operations Station Exp					
562100 · Trans/Ops Station - Swan Lake	-	1,250	-	6,250	15,000
562200 · Trans/Ops Station - Tyee Lake	738	1,000	3,338	5,000	12,200
562250 · Trans/Ops Station-TYL SEAPA	1,534	1,500	9,382	6,600	17,200
Total 562000 · Trans/Operations Station Exp	2,272	3,750	12,720	17,850	44,400
564000 · Trans/Submarine Cable Expense					
564200 · Trans/Sub Cable Exp - Tyee Lake	46	625	714	3,125	542,500
Total 564000 · Trans/Submarine Cable Expense	46	625	714	3,125	542,500
571000 · Trans/Maint Overhead Lines(OHL)					
571100 · Trans/Maint OHL - Swan Lake	-	2,200	2,610	5,300	24,000
571150 · Trans/Maint OHL - SWL SEAPA	-	1,000	-	5,000	303,223
571151 · Trans/Maint OHL - SWL ROW Clear	-	8,000	-	34,000	55,000
571200 · Trans/Maint OHL - Tyee Lake	1,572	3,600	17,232	18,000	43,250
571250 · Trans/Maint OHL - TYL SEAPA	-	1,000	90,347	103,000	318,014
5712900 · TYL Brushing Wages & Benefits					
5712911 · TYL Brushing Wages/PTO	11,755	12,300	52,159	64,900	151,000
5712912 · TYL Brushing Wages OT	-	1,200	5,189	6,400	14,000
5712920 · TYL Brushing Benefit - Taxes	840	880	4,622	7,710	13,500
5712930 · TYL Brushing Benefit- Insurance	3,669	3,740	18,345	18,700	44,600
5712940 · TYL Brushing Benefit- Retirement	2,184	2,420	11,728	12,060	28,900
5712992 · TYL Brush Grant-Capital Payroll	-	-	(206)	-	-
Total 5712900 · TYL Brushing Wages & Benefits	18,448	20,540	91,838	109,770	252,000
571300 · Trans/Maint OHL STI Maintenance	-	1,000	256,210	242,000	515,907
571500 · Trans/Maint OHL STI Therml Scan	-	250	-	1,250	3,400
571700 · Trans/Maint OH STI Clearing	-	-	-	34,000	65,000
571800 · Trans/Maint OHL System Events	-	4,000	-	17,000	40,000
Total 571000 · Trans/Maint Overhead Lines(OHL)	20,019	41,590	458,237	569,320	1,619,794

SOUTHEAST ALASKA POWER AGENCY
Statement of Activities - Budget Comparison
November 2017

	Nov 2017	Budget	Jul-Nov'17	YTD Budget	Annual Budget
920000 · Admin Wages & Benefits					
9201911 · Admin Wages/PTO	71,828	73,000	360,487	365,000	952,000
9201912 · Admin Wages - Overtime	-	150	-	750	2,000
9201920 · Admin Benefit - Taxes	3,333	5,400	21,057	27,000	65,000
9201930 · Admin Benefit - H&W Insurance	19,178	19,200	95,891	96,000	271,000
9201940 · Admin Benefit - Retirement	22,991	23,000	115,956	114,850	292,000
Total 920000 · Admin Wages & Benefits	117,330	120,750	593,390	603,600	1,582,000
921000 · Office Expenses					
921100 · Office Supplies	690	1,250	6,310	6,250	15,000
921200 · Office Equipment	2,216	1,250	10,236	6,250	15,000
921300 · Phone, Courier, Internet	1,575	1,975	8,035	9,875	23,700
921400 · System Network / IT Support	3,105	4,500	13,402	21,500	55,700
921600 · Vehicle Expenses	132	350	379	1,750	4,200
Total 921000 · Office Expenses	7,717	9,325	38,362	45,625	113,600
922000 · Legislative Affairs	4,000	5,000	20,000	23,000	58,000
923000 · Contract Services					
923200 · Annual Financial Audit	23,596	5,000	23,596	29,000	35,000
923300 · Bank & Trustee Fees	233	300	1,386	1,500	16,400
923400 · Insurance Consultant	2,419	400	8,663	6,650	9,000
923500 · Investment Consultant	1,669	1,950	8,362	9,150	24,500
923600 · Legal Fees	27,525	15,000	69,197	75,000	180,000
923700 · Recruitment	236	2,000	8,132	9,500	26,000
923800 · Other Professional Services	-	4,250	586	21,250	51,000
Total 923000 · Contract Services	55,677	28,900	119,921	152,050	341,900
924000 · Insurance	37,410	40,000	190,636	196,600	478,000
928000 · Regulatory Commission Expense					
928001 · Other Regulatory Expense	34,118	29,000	146,929	173,000	204,700
928150 · FERC SWL Admin Fees	2,513	3,000	10,435	15,000	36,000
928151 · FERC SWL Other Expenses	950	2,000	14,795	18,000	122,000
928250 · FERC TYL Admin Fees	2,325	2,750	9,580	13,750	33,000
928251 · FERC TYL Other Expenses	-	-	-	-	-
Total 928000 · Regulatory Commission Expense	39,906	36,750	181,740	219,750	395,700
930000 · General Expenses					
930100 · Advertising Expense	83	250	523	1,250	3,000
930110 · Public Relations	810	2,500	11,687	13,300	32,500
930111 · PR - SEAPA History Project	-	-	-	-	-
930300 · Association Dues Expense	21,768	20,500	21,768	21,500	33,000
930310 · Professional Assn Dues	-	-	350	375	575
930400 · Board Meeting Expenses	375	3,500	12,448	16,500	37,000
930500 · Training Expense	448	2,500	16,888	18,500	30,500
930600 · Travel Expense	644	3,500	10,191	14,000	35,000
930700 · Non-Travel Incidental	603	350	770	1,550	4,000
Total 930000 · General Expenses	24,731	33,100	74,625	86,975	175,575
931000 · Admin Rent					
931010 · Office Rent	5,213	5,350	26,454	26,600	64,600
931100 · Apartment Rent - Ketchikan	1,823	1,800	9,595	9,000	22,000
Total 931000 · Admin Rent	7,036	7,150	36,049	35,600	86,600
Total Operating Expense	501,834	522,354	2,602,374	2,948,243	7,939,910
Net Operating Income	841,866	657,622	2,139,824	1,886,700	4,111,544

SOUTHEAST ALASKA POWER AGENCY
Statement of Activities - Budget Comparison
November 2017

	Nov 2017	Budget	Jul-Nov'17	YTD Budget	Annual Budget
Nonoperating Income/Expense					
Nonoperating Income					
941000 · Grant Income	-		25,420		
942000 · Interest Income					
942100 · Misc Interest Income	1,862		8,347		
942200 · Investment Interest Income	8,400		41,243		
Total 942000 · Interest Income	10,263		49,589		
944000 · Realized Gain/Loss					
944200 · Realized Gain/Loss on Invest	-		(3,668)		
Total 944000 · Realized Gain/Loss	-		(3,668)		
945000 · Unrealized Gain/Loss					
945200 · Unrealized Gain/Loss Investment	(23,947)		(36,286)		
Total 945000 · Unrealized Gain/Loss	(23,947)		(36,286)		
946000 · Misc Nonoperating Income					
946002 · Gain/Loss on Property Dispositn	-		7,000		
Total 946000 · Misc Nonoperating Income	-		7,000		
Total Nonoperating Income	(13,685)		42,056		
Nonoperating Expense					
950001 · Misc Nonoperating Expense	(20)		(20)		
952000 · Bond Interest 2009 Series	27,069		135,345		
952001 · Bond Interest 2015 Series	36,052		180,262		
953000 · Depreciation Expense	392,684		1,967,252		
954000 · Grant Expenses					
954002 · Grant Contractual	88,870		114,290		
954008 · Grant Travel	125		267		
Total 954000 · Grant Expenses	88,995		114,557		
Total Nonoperating Expense	544,781		2,397,396		
Net Nonoperating Income	(558,466)		(2,355,340)		
Net Income	283,400	657,622	(215,516)	1,886,700	4,111,544

Southeast Alaska Power Agency R&R CAPITAL PROJECTS	FY2018		WIP CAPITAL PROJECTS December 31, 2017	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL SPENT	Overall BUDGET
	Budget	Expenditures									
232-13 Communications Upgrade	\$ 89,758	20,789	Tyee satellite to be installed.	12,160	186,520	15,995	165,667	70,545	20,789	\$ 471,675	520,100
241-13 Stream Gauge TYL	\$ 55,000	10,866	Complete grouting FY18	37,845	562,635	22,753	106,528	75,368	10,866	\$ 815,994	8,662,024
256-15 Alarm Trip Protectn SWL-TYL	\$ 48,266	62,610	CLOSED NOV 2017			611	157,765	35,883	62,610	\$ 256,869	253,500
258-15 System Control Improve SWL-TYL	\$ 39,650	1,625	CLOSED NOV 2017			28,766	44,194	4,441	1,625	\$ 79,026	116,800
259-15 Turbine Shutoff Valves TYL	\$ 35,000	-	In-place repairs FY18.			84,857	170,774	-	-	\$ 255,631	290,630
263-16 CTs-Relay CircSwitcr WRG	\$ 102,465	102,559	CLOSED NOV 2017				20,963	51,573	102,559	\$ 175,094	201,000
265-16 Marker Balls OHL TYL	\$ 805,104	796,517	CLOSED SEP 2017				-	4,896	796,517	\$ 801,412	810,000
269-16 Guy Thimbles STI	\$ 80,100	-	Yr1 of 3 installed Jun 2017				-	44,781	-	\$ 44,781	270,000
270-16 Dampeners OHL TYL	\$ 67,681	33,307	Yr1 of 3 installed SEP 2017				8,696	(8,696)	33,307	\$ 33,307	99,900
272-17 Needle Assembly TYL	\$ 65,610	30,377	CLOSED AUG 2017					51,713	30,377	\$ 82,091	123,000
273-17 XFMR Bushing TYL	\$ 47,232	17,792	CLOSED SEP 2017					7,768	17,792	\$ 25,560	55,000
275-17 Manifold TYL	\$ 20,689	22,590	CLOSED AUG 2017					19,637	22,590	\$ 42,228	39,000
276-17 Schweitzer RTAC SWL-TYL	\$ 26,800	27,602	CLOSED NOV 2017					10,124	27,602	\$ 37,725	37,000
278-17 Flashboard Kickers SWL	\$ 544,819	84,232	Spares					-	84,232	\$ 84,232	544,819
279-18 Battery Monitoring System	\$ 61,000	6,917	Battery-Hydrogen Monitoring						6,917	\$ 6,917	61,000
280-18 Boat Motors-Transom TYL	\$ 54,000	59,270	CLOSED SEP 2017						59,270	\$ 59,270	54,000
281-18 Bulkhead Repair SWL	\$ 223,000	-	In permitting phase						-	\$ -	223,000
282-18 Control Rm Touchscrn SWL	\$ 36,000	6,527	Hardware update						6,527	\$ 6,527	36,000
283-18 Dam Misc Metals SWL	\$ 186,000	15,987	Ladders, railing					526	15,987	\$ 16,513	186,000
284-18 Data Historian KTN	\$ 71,000	-	Hardware, programming						-	\$ -	71,000
285-18 Dock Floats SWL	\$ 58,000	17,888	EXPENSED NOV 2017						17,888	\$ 17,888	58,000
286-18 Duplex Housing SWL	\$ 393,000	-	Duplex for operator housing						-	\$ -	393,000
287-18 Flatbed WRG	\$ 42,000	42,866	CLOSED DEC 2017						42,866	\$ 42,866	42,000
288-18 Furnaces TYL	\$ 35,000	25,592	CLOSED DEC 2017						25,592	\$ 25,592	35,000
289-18 Governor Moderniztn SWL	\$ 92,000	-	Replace digital governors						-	\$ -	92,000
290-18 Helipad Ramps STI	\$ 76,000	-	Helipad access ramps						-	\$ -	76,000
291-18 Meggar Relay Test Set	\$ 104,000	74,454	Test rack under construction						74,454	\$ 74,454	104,000
292-18 Office Walls KTN	\$ 55,000	4,545	February construction						4,545	\$ 4,545	55,000
293-18 Phone Server KTN	\$ 76,000	-	Update server, phones						-	\$ -	76,000
294-18 Pickup TYL	\$ 38,500	32,256	CLOSED SEP 2017						32,256	\$ 32,256	38,500
295-18 Power Line Carrier SW-TY	\$ 48,000	45,019	October installation						45,019	\$ 45,019	48,000
296-18 Power Pole Replace SWL	\$ 49,000	-	Damaged pole replacement						-	\$ -	49,000
297-18 Powerhs Parapet Seal SWL	\$ 59,000	-	Seal parapet wall						-	\$ -	59,000
298-18 Unit Control PLC-RTD SWL	\$ 60,000	-	PLC Backplanes and RTDs						-	\$ -	60,000
Total WIP R&R Capital Projects	\$3,844,674	\$1,542,185		\$50,004	\$749,155	\$152,982	\$674,586	\$368,559	\$1,542,185	\$3,537,472	\$13,839,273

Date	Num	Vendor	FY18 BUDGET \$	Expenditures	Description
232-13 Communications Upgrade			\$89,758	-	Satellite dishes and telephone systems installed at Swan Lake and SEAPA Office in December 2013. Tyee Lake satellite dish permitting approved Sep 2015. Satellite service provider replaced in 2016. Newly programmed equipment installed May 2017. Tyee installation to take place in FY18. (Henson/Siedman)
	\$ 12,160	<i>FY13 Expenditures</i>			
	\$ 186,520	<i>FY14 Expenditures</i>			
	\$ (177,163)	<i>FY14 Capitalize SWL-SEA Office</i>			
	\$ 15,995	<i>FY15 Expenditures</i>			
	\$ 165,667	<i>FY16 Expenditures</i>			
	\$ 70,545	<i>FY17 Expenditures</i>			
	\$ (68,113)	<i>FY17 Capitalize SWL-KTN Office</i>			PARTIALLY CAPITALIZED
	\$ 20,789	<i>FY18 Expenditures</i>			FY14 SWL-SEAPA Office \$177,163
07/20/17	20618	TexRUs		9,857	FY17 SWL-SEAPA Office \$ 68,113
08/07/17	20758	TexRus		3,920	
08/15/17	422426	Satellite & Sound Inc		780	
08/23/17	Sat&Sound	Alaska Air		172	
08/31/17	52804	Sunrise Aviation Inc		900	
09/11/17	20940	TexRus		3,360	
11/08/17	21212	TexRus		120	
12/08/17	21344	TexRus		480	
12/31/17	52863	Sunrise Aviation Inc		1,200	
Total 232-13 Communications Upgrade				226,399	
241-13 Stream Gauge TYL			\$55,000	-	Logs cleared Jul 2013. Weir construction completed and helipad placed by Sep 2013. Initial grout work completed Apr 2016. Emergency shelter to be installed, after which USGS can install stream gage. Need for additional grout work evaluated as circumstances allow. (Henson / Schofield)
	\$ 37,845	<i>FY13 Expenditures</i>			
	\$ 562,635	<i>FY14 Expenditures</i>			
	\$ (598,332)	<i>FY14 Weir & Helipad Capitalized</i>			
	\$ 22,753	<i>FY15 Expenditures</i>			
	\$ 106,528	<i>FY16 Expenditures</i>			
	\$ 75,368	<i>FY17 Expenditures</i>			PARTIALLY CAPITALIZED:
	\$ (34,499)	<i>FY17 Helipad2 Capitalized</i>			FY14 CAPITALIZED WEIR & HELIPAD \$598,332
	\$ (133,847)	<i>FY17 Grouting Capitalized</i>			FY17 CAPITALIZED GROUT & HELIPAD \$168,345
	\$ 10,866	<i>FY18 Expenditures</i>			
07/09/17	31322	Temsco Helicopters, Inc.		2,741	
07/31/17	619	Tyee Payroll		206	
10/02/17	31729	Temsco Helicopters, Inc.		1,940	
10/02/17	31730	Temsco Helicopters, Inc.		3,987	
10/12/17	31760	Temsco Helicopters, Inc.		1,168	
10/24/17		Alaskan & Proud Mkt KTN		5	
10/25/17		Alaskan & Proud Mkt KTN		4	
10/30/17	224	Helicopter Air Alaska LLC		814	
Total 241-13 Stream Gauge TYL				49,317	
256-15 Alarm Trip Protection SWL-			\$48,266		Two-year project; review sensors and relays, reliability and critical protection issue. Board awarded to Segrity (Mar 2015). Complete by end-of calendar year. (Henson/ Schofield)
	\$ 611	<i>FY15 Expenditures</i>			
	\$ 157,765	<i>FY16 Expenditures</i>			
	\$ 35,883	<i>FY17 Expenditures</i>			
	\$ (194,259)	<i>FY17 Capitalize completed portion</i>			
	\$ 62,610	<i>FY18 Expenditures</i>			CLOSED NOV 2018
08/31/17	17251	Segrity LLC		5,100	FY17 CAPITALIZED COMPLETED PORTION \$194,259
10/05/17	17258	Segrity LLC		4,050	FY18 CAPITALIZED \$62,611
10/05/17	17259	Segrity LLC		3,780	
11/06/17	17265	Segrity LLC		8,573	
11/17/17	17269	Segrity LLC		41,108	
12/31/17	655	CAPITALIZE SWL ALARM PROTECT		(37,718)	
12/31/17	655	CAPITALIZE TYL ALARM PROTECT		(24,893)	
Total 256-15 Alarm Trip Protection SWL-TYL				-	

Date	Num	Vendor	FY18 BUDGET \$	Expenditures	Description
258-15 System Control Improve			\$39,650		Two-year project to increase reliability at both plants; coordinate facilities' operations. Board awarded to Segrity (Mar 2015). Completion Nov 2017. (Henson / Schofield)
	\$	28,766	<i>FY15 Expenditures</i>		
	\$	44,194	<i>FY16 Expenditures</i>		
	\$	4,441	<i>FY17 Expenditures</i>		
	\$	(77,401)	<i>FY17 Capitalize completed portion</i>		CLOSED NOV 2018
	\$	1,625	<i>FY18 Expenditures</i>		FY17 CAPITALIZED COMPLETED PORTION \$77,401
11/06/17	17264	Segrity LLC		1,625	FY18 CAPITALIZED REMAINDER \$1,625
12/31/17	655	CAPITALIZE SWL SYSTEM IMPROVE.		(813)	
12/31/17	655	CAPITALIZE TYL SYSTEM IMPROVE.		(813)	
Total 258-15 System Control Improvements SWL-TYL				-	
259-15 Turbine Shutoff Valves TYL			\$35,000		Implementation of recommendations from HDR engineering review. Researching project with qualified contractors for toroidal cylinder repair. (Henson)
	\$	84,857	<i>FY15 Expenditures</i>		
	\$	170,774	<i>FY16 Expenditures</i>		
	\$	(255,631)	<i>Capitalized FY16</i>		
	\$	-	<i>FY17 Expenditures</i>		PARTIALLY CAPITALIZED:
	\$	-	<i>FY18 Expenditures</i>		FY16 COMPLETED PORTION \$255,631
Total 259-15 Turbine Shutoff Valve TYL				(0)	
263-16 CTs-Relay WRG Circuit Swtct			\$102,465		Additional protection-control relays and current-sensing equipment in the Wrangell switchyard. Electrical design (Electrical Power Systems). Installed SEP 2017; pending final engineering invoice. (Henson)
	\$	20,963	<i>FY16 Expenditures</i>		
	\$	51,573	<i>FY17 Expenditures</i>		
	\$	102,559	<i>FY18 Expenditures</i>		
07/06/17	S344WRA15N	Samson Tug & Barge		521	
07/06/17	7103436164	ABB Inc.		22,956	CLOSED - NOV 2017
09/18/17	13456	Electric Power Constructors		69,484	FY18 CAPITALIZED \$175,094
11/17/17	13925	Electric Power Systems Inc.		9,599	
12/31/17	655	CAPITALIZE CTs-RELAY		(175,094)	
Total 263-16 CTs-Relay WRG Circuit Sw				-	
265-16 Marker Balls OHL TYL			\$805,104		Replacement of original marker balls on the Tyeen transmission line. Marker balls inventoried; Northern Powerline Constructors (Anchorage) successful bidder. Installed SEP 2017. (Henson)
	\$	4,896	<i>FY17 Expenditures (includes marker ball inventory)</i>		
	\$	796,517	<i>FY18 Expenditures</i>		
09/01/17	628R			(103,132)	
09/25/17	3129	Northern Powerline Constructors, Inc		103,132	
09/30/17	52827	Sunrise Aviation Inc		450	CLOSED - IN SERVICE SEP 2017
09/30/17	3173	Northern Powerline Constructors, Inc		588,651	
09/30/17	1806	Marker Ball Inventory		104,284	
10/31/17	641	CAPITALIZE MARKER BALLS		(801,412)	
Total 265-16 Marker Balls OHL TYL				-	
269-16 Guy Thimbles STI			\$80,100		Replace guy thimbles on STI. Three-year project scheduled during each spring shutdown. (Henson)
	\$	44,781	<i>FY17 Expenditures</i>		
	\$	(44,781)	<i>FY17 Capitalized installed thimbles</i>		PARTIALLY CAPITALIZED:
	\$	-	<i>FY18 Expenditures</i>		FY17 - 53 INSTALLED \$44,781
05/25/17	T80591	Tyler Industrial Supply		1,302	
05/25/17	T80591	INVENTORY - Guy Thimbles (Tyler Ir		2,383	
06/21/17	12852	Electric Power Constructors		43,479	
06/30/17	T80591	Tyler Industrial Supply		(2,383)	
06/30/17	611	FY17 CAPITALIZE INSTALLED PORTIC		(44,781)	
Total 269-16 Guy Thimbles STI				-	

Date	Num	Vendor	FY18 BUDGET \$	Expenditures	Description
270-16 Dampeners OHL TYL			\$67,681		Replacement of dampeners on Tyee transmission line over three years. Initial installation of 180 dampeners took place SEP 2017. (Henson)
	\$	8,696 <i>FY16 Expenditures</i>			
	\$	(8,696) <i>FY17 Expenditures</i>			
	\$	33,307 <i>FY18 Expenditures</i>			
09/18/17	13448	Electric Power Constructors		24,611	YEAR 1 DAMPENERS IN SERVICE - SEP 2017
09/30/17	1805	Dampeners from inventory		8,696	
10/31/17	641	CAPITALIZE FY18 DAMPERS		(33,307)	
Total 270-16 Dampeners OHL TYL				-	
272-17 Needle Assembly TYL			\$65,610		Repair to needle position feedback assembly. Prototype successfully tested Apr 2017. Remaining assemblies installed AUG 2017 followed by final drawings and documentation. (Henson)
	\$	51,713 <i>FY17 Expenditures</i>			
	\$	(14,499) <i>FY17 Capitalize Prototype</i>			
	\$	30,377 <i>FY18 Expenditures</i>			
07/19/17	17240	Segrity LLC		6,598	
08/10/17	S354WRA15N	Samson Tug & Barge		231	CAPITALIZED:
08/15/17	4427	Stikine Inn		44	FY17 PROTOTYPE INSTALLED \$14,499
08/22/17	4447	Stikine Inn		36	FY18 NEEDLE ASSEMBLIES \$67,592
08/29/17	17245	Segrity LLC		847	CLOSED - IN SERVICE - AUG 2017
08/31/17	17248	Segrity LLC		12,586	
08/31/17	624	Payroll - Tyee		4,816	
10/05/17	17256	Segrity LLC		5,220	
10/31/17	641	CAPITALIZE Needle Assembly		(67,592)	
Total 272-17 Needle Assembly TYL				-	
273-17 XFMR Bushing TYL			\$47,232		Replace STI transformer bushing at Tyee substation. Installed Sep 2017. (Henson)
	\$	7,768 <i>FY17 Expenditures</i>			
	\$	17,792 <i>FY18 Expenditures</i>			
09/30/17	52827	Sunrise Aviation Inc		1,125	CLOSED - IN SERVICE - SEP 2017
10/31/17	13760	Electric Power Constructors		16,667	
10/31/17	641	CAPITALIZE XFMR BUSHING		(25,560)	
Total 273-17 XFMR Bushing TYL				-	
275-17 Manifold Replace. TYL			\$20,869		Replace manifold on governor at Tyee Lake. Prototype installed APR 2017; second manifold installed AUG 2017. (Henson)
	\$	19,637 <i>FY17 Expenditures</i>			
	\$	(18,131) <i>FY17 One manifold capitalized</i>			
	\$	22,590 <i>FY18 Expenditures</i>			
08/15/17	4427	Stikine Inn		44	PARTIALLY CAPITALIZED:
08/22/17	4447	Stikine Inn		36	FY17 Manifold Prototype \$18,131
08/29/17	17244	Segrity LLC		2,146	FY18 Manifold \$24,097
08/31/17	17250	Segrity LLC		4,260	CLOSED - IN SERVICE - AUG 2017
08/31/17	624	Payroll		371	
10/05/17	17255	Segrity LLC		15,733	
10/31/17		CAPITALIZE Manifolds		(24,097)	
Total 275-17 Manifold Replacement TYL				-	

Date	Num	Vendor	FY18 BUDGET \$	Expenditures	Description
276-17 Schweitzer RTAC Upgrades			\$26,800		Replace existing relays with RTACs. RTACs programmed; installed in August. Completion pending drawings and documentation. (Henson)
	\$ 10,124	<i>FY17 Expenditures</i>			
	\$ 27,602	<i>FY18 Expenditures</i>			
08/15/17	4427	Stikine Inn		44	
08/22/17	4447	Stikine Inn		36	CLOSED - NOV 2017
08/24/17	21245	Pacific Wings Inc.		830	CAPITALIZED \$37,725
08/27/17	99943	Pacific Airways Inc		440	
08/31/17	17247	Segrity LLC		24,011	
08/31/17	624	Payroll Tyee		645	
10/06/17	17261	Segrity LLC		1,595	
12/31/17	655	CAPITALIZE SWL RTAC		(18,285)	
12/31/17	655	CAPITALIZE TYL RTAC		(19,441)	
Total 276-17 Schweitzer RTAC Upgrade				-	
278-17 Flashboard-Kickers SWL			\$544,819		Spare set of flashboards and kickers for SWL. RFP issued fall 2017. (Acteson)
	\$ -	<i>FY17 No expenditures</i>			
	\$ 84,232	<i>FY18 Expenditures</i>			
10/25/17	I01412112	Alaska Dispatch News		62	
12/22/17	3206	Kuenz America Inc		84,170	
Total 278-17 Flashboard-Kickers SWL				84,232	
279-18 Battery Monitoring Systm			\$61,000		Battery and hydrogen monitoring system for both facilities. System on order. (Siedman)
	\$ 6,917	<i>FY18 Expenditures</i>			
08/21/17	243579	First City Electric, Inc.		6,917	
Total 279-18 Battery Monitoring Systm				6,917	
280-18 Boat Motors-Transom TYL			\$54,000		Replacement of motors and extension of transom on Svendsen boat. (Henson)
	\$ 59,270	<i>FY18 Expenditures</i>			
09/08/17	1107	Svendsen Marine		6,251	
10/03/17	6152006	Bay Company Enterprises, LLC		46,019	CLOSED - IN SERVICE SEP 2017
10/31/17	6152006	Bay Company Enterprises, LLC		7,000	
10/31/17	641	CAPITALIZE BOAT MOTORS-TRANSC		(59,270)	
Total 280-18 Boat Motors-Transom TYL				-	
281-18 Bulkhead Repair SWL			\$223,000		Repair of marine bulkhead at SWL currently in permitting phase. (Schofield)
	\$ -	<i>FY18 Expenditures</i>			
Total 281-18 Bulkhead Repair SWL				-	
282-18 Control Rm Touchscrn SWL			\$36,000		Control Room hardware update at SWL. Engineering has been initiated. (Siedman)
	\$ 6,527	<i>FY18 Expenditures</i>			
11/08/17	4650	Landing Hotel & Restaurant		131	
12/04/17	7047	McMillen LLC		6,396	
Total 282-18 Control Rm Touchscrn SWL				6,527	

Southeast Alaska Power Agency

WORK-IN-PROGRESS R&R Capital Projects as of DEC 31, 2017

Date	Num	Vendor	FY18 BUDGET \$	Expenditures	Description
283-18 Dam Misc Metals SWL			\$186,000		Installation of SWL access ladders, handrails, trigger guard.
	\$ 526	<i>FY17 Expenditures</i>			Contract award to BAM LLC approved in Aug 2017.
	\$ 15,987	<i>FY18 Expenditures</i>			Installation is dependent upon lake levels, but tentatively scheduled for April. (Schofield)
07/20/17	34043	Ketchikan Daily News		80	
07/22/17	3327575	Daily Journal of Commerce		74	
07/30/17	ADN201707	Alaska Dispatch News		82	
08/05/17	64255	Pilot Publishing, Inc.		70	
08/05/17	64239	Wrangell Sentinel		58	
09/13/17	6855	McMillen LLC		13,464	
11/01/17	6921	McMillen LLC		1,680	
12/04/17	7046	McMillen LLC		480	
Total 283-18 Dam Misc Metals SWL				16,513	
284-18 Data Historian KTN			\$71,000		Data Historian upgrade, hardware and programming.
	\$ -	<i>FY18 Expenditures</i>			(Siedman)
Total 284-18 Data Historian KTN				-	
285-18 Dock Floats SWL			\$58,000		Replace piling hoops and add flotation at SWL dock float.
	\$ 17,888	<i>FY18 Expenditures</i>			Parts ordered. Installation performed Nov 2017. (Schofield)
10/17/17	2160671	Madison Lumber & Hardware Inc		2,185	
10/17/17	49446	Mohawk Metal Company		2,685	CLOSED NOV 2017
10/20/17	S375KET28N	Samson Tug & Barge		133	EXPENSED \$17,888
11/03/17	2202801	Madison Lumber & Hardware Inc		30	
11/06/17	2208501	Madison Lumber & Hardware Inc		189	
11/06/17	2208581	Madison Lumber & Hardware Inc		157	
11/13/17	20171113	Diversified Diving Service		12,508	
12/31/17	655	EXPENSE DOCK FLOATS		(17,888)	
Total 285-18 Dock Floats SWL				0	
286-18 Duplex Housing SWL			\$393,000		Replace one SWL housing unit with prefab duplex.
	\$ 905	<i>FY18 Expenditures</i>			Permitting process initiated Nov 2017. Architectural design underway. (Schofield)
11/08/17	100959	Pacific Airways Inc		880	
11/14/17		CC Vendors		25	
Total 286-18 Duplex Housing SWL				905	
287-18 Flatbed WRG			\$42,000		Flatbed truck for WRG warehouse. Delivered in December.
	\$ 42,866	<i>FY18 Expenditures</i>			(Henson)
11/21/17	FORD201711	Horizon Ford		41,716	
12/01/17	S387WRA17N	Samson Tug & Barge		1,150	CLOSED DEC 2017
12/31/17	655	CAPITALIZED FLATBED		(42,866)	CAPITALIZED \$42,866
Total 287-18 Flatbed WRG				-	
288-18 Furnaces TYL			\$35,000		Replace furnaces (5) in TYL housing.
	\$ 25,592	<i>FY18 Expenditures</i>			November installation. (Henson)
11/30/17	52857	Sunrise Aviation Inc		1,620	
12/06/17	2305IN	Schmolck Mechanical SIT		24,077	CLOSED DEC 2017
12/07/17	R184974IN	Schmolck Mechanical SIT		(105)	CAPITALIZED \$25,592
12/31/17	655	CAPITALIZED FURNACES		(25,592)	
Total 288-18 Furnaces TYL				-	
289-18 Governor Modernizatn SWI			\$92,000		Update governor control hardware and software at SWL.
	\$ -	<i>FY18 Expenditures</i>			Parts on order, engineering underway. (Siedman)
Total 289-18 Governor Modernizatn SWL				-	

Southeast Alaska Power Agency

WORK-IN-PROGRESS R&R Capital Projects as of DEC 31, 2017

Date	Num	Vendor	FY18 BUDGET \$	Expenditures	Description
290-18 Helipad Ramps STI			\$76,000		Build and install ramps for personnel access to STI helipads.
	\$	-	<i>FY18 Expenditures</i>		Installation spring 2018. (Henson)
				-	
Total 290-18 Helipad Ramps STI				-	
291-18 Meggar Relay Test Set			\$104,000		Purchase relay test set for rotating use at all SEAPA locations. Test set purchased. Test rack under construction. (Siedman)
	\$	74,454	<i>FY18 Expenditures</i>		
09/25/17	5590452896	Megger		72,089	
09/29/17	14644	Hardcraft Industries, Inc.		2,094	
10/06/17	S370KET23N	Samson Tug & Barge		143	
10/17/17		Madison Lumber & Hardware Inc		7	
10/17/17		Madison Lumber & Hardware Inc		10	
10/19/17		Madison Lumber & Hardware Inc		90	
10/23/17		Madison Lumber & Hardware Inc		21	
Total 291-18 Meggar Relay Test Set				74,454	
292-18 Office Walls KTN			\$55,000		Create two offices at White Cliff location. Construction scheduled Feb-Mar. (Schofield)
	\$	4,545	<i>FY18 Expenditures</i>		
12/08/17	2208	Welsh Whiteley Architects, LLC		3,483	
12/11/17	201700000154	Ketchikan City of 334		1,062	
Total 292-18 Office Walls KTN				4,545	
293-18 Phone Server KTN			\$76,000		Replace obsolete phone server in Ketchikan office; upgrade handsets. Evaluating options. (Siedman)
	\$	-	<i>FY18 Expenditures</i>		
				-	
Total 293-18 Phone Server KTN				-	
294-18 Pickup TYL			\$38,500		Pickup replacement for Tyee. 2017 Ford F150 delivered to Wrangell. (Henson)
	\$	32,256	<i>FY18 Expenditures</i>		
08/18/17	FORD201708	Horizon Ford		30,027	
08/24/17	S358WRA19N	Samson Tug & Barge		1,129	CLOSED - IN SERVICE SEP 2017
09/21/17	1572	Stikine Transportation		1,100	
10/31/17	641	CAPITALIZE PICKUP		(32,256)	
Total 294-18 Pickup TYL				-	
295-18 Power Line Carrier SW-TY			\$48,000		Add power line carrier channel from SWL to TYL. Channel installed and successfully tested October 2017. (Henson)
	\$	45,019	<i>FY18 Expenditures</i>		
09/25/17	421740046	Hubbell Power Systems, Inc.		34,833	
10/05/17	S370WRA12N	Samson Tug & Barge		54	
10/24/17	100786	Pacific Airways Inc		880	
10/24/17		Alaskan & Proud Mkt KTN		46	
10/24/17		Alaskan & Proud Mkt KTN		46	
10/25/17	4571	Landing Hotel & Restaurant		158	
10/25/17	4570	Landing Hotel & Restaurant		177	
10/25/17		CC KTN Airport		3	
10/25/17		CC KTN Airport		26	
10/26/17		Alltek Network Solutions Inc		77	
10/31/17	52838	Sunrise Aviation Inc		1,950	
10/31/17	422060827	Hubbell Power Systems, Inc.		6,770	
Total 295-18 Power Line Carrier SW-TY				45,019	
296-18 Power Pole Replace SWL			\$49,000		Replace damaged Pole 197 on SWL transmission line. (Henson)
	\$	-	<i>FY18 Expenditures</i>		
				-	
Total 296-18 Power Pole Replace SWL				-	

Southeast Alaska Power Agency

WORK-IN-PROGRESS R&R Capital Projects as of DEC 31, 2017

Date	Num	Vendor	FY18 BUDGET \$	Expenditures	Description
297-18 Powerhs Parapet Seal SWL			\$59,000		Surface coating on exterior parapet wall of SWL powerhouse. Work is weather dependent. (Schofield)
	\$	-	<i>FY18 Expenditures</i>		
				-	
Total 297-18 Powerhs Parapet Seal SWL				-	
298-18 Unit Control PLC-RTD SWL			\$60,000		Update PLC backplanes and RTDs at SWL; in design phase. (Siedman)
	\$	-	<i>FY18 Expenditures</i>		
				-	
Total 298-18 Unit Control PLC-RTD SWL				-	
Total WIP R&R Capital Projects			\$3,844,854	\$ 514,828	

* Total Work-In-Progress includes deductions for capitalized projects, and therefore does not match the Total Expenditures on the Summary page.



CLOSED R&R 256-15 ALARM TRIP PROTECTION

Project	ALARM TRIP PROTECTION – SWL TYL
Description	Alarm and Protection System - Review and renovation

Cost: \$256,869	Completion: DEC 2017	Project Mgmt: Henson / Schofield
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Project Discussion
<p>The alarm and protection system for both Tyee and Swan Lake needed to reflect the dual point of control system (Swan Lake and Tyee Lake) that is now in place. Many of the existing sensors and relays that drive this system were non-serviceable and in need of replacement. This project was time-intensive as each point, from measuring surface all the way to Programmable Logic Controller (PLC), had to be checked. After review and replacement of signal paths, the redesigned system was integrated with updates to the existing SCADA system. Project closeout was completed in FY18, including drawings, documentation and testing.</p>

Original Project Cost Estimate					EXPENDITURES	
Alarm/Trip/Protection System	SWL	TYL	Bailey	Total		
Drawings Technical Review	10,800	5,400		\$16,200		
Verify sensor to annunciator function	16,200	8,100		\$24,300		
Engineering analysis-Alarm, Trip Methodology	17,000	17,000		\$34,000		
Replace known faulty bearing RTDs	15,000			\$15,000		
Replace faulty bearing metal sensors	12,000	12,000		\$24,000		
Reprogramming of SCADA	12,000	12,000		\$24,000		
Add remote Transformer Indication		12,000	22,000	\$34,000		
Analog Signal Add to PLC	4,000	4,000	4,000	\$12,000	FY15	\$611
Flights to SWL & Tyee	2,400	4,000		\$6,400	FY16	157,765
Travel to KTN & Food for Contractor	7,000			\$7,000	FY17	35,883
15% Contingency on Labor & Materials				\$25,095	FY18	\$62,610
Project Total				\$221,995	Total	\$256,869



Project	SYSTEM CONTROL IMPROVEMENTS – Swan Lake / Tyee Lake				
Description	Design control system to coordinate operations of the two facilities, maximize operational efficiency and stability and integrate STICS/SCADA.				
COST:	\$79,025	Completion:	Nov 2017	Project Mgmt:	Henson / Schofield
PROJECT DISCUSSION					
<p>The existing 86 trip protection is to be split out between electrical and mechanical trip events. Electrical events will still activate an 86, while a new 86R relay system will shut down the machine in a controlled manner. Additionally, automatic start and stop of Tyee units is necessary for better water management. This project will improve control, improve capacity utilization during varying inflow conditions and increase operational efficiency through better water use.</p> <p>FY15 – The board awarded the contract for the Alarms-Control-Protection project to Segrity, LLC in March 2015 and the work began in April. Preliminary engineering design is complete.</p> <p>FY16 – Design and implement control wiring changes at Tyee, utilizing the new SEL RTAC (Schweitzer Engineer Labs real-time automatic controller).</p> <p>FY17 – System integration complete.</p> <p>FY18 – Final testing, documentation and drawings completed November 2017.</p>					
PROJECT COST ESTIMATE				EXPENDITURES	
System Operations Control Programming		Cost	FY15 Expenditures		\$28,766
Design/implement automatic CW pump, control loop		16,050	FY16 Expenditures		44,193
Design 86 and 86R separation, Tyee master start		8,700	FY17 Expenditures		4,441
Swan cooling water throttling valve, throttling PID control loop		3,675	FY18 Expenditures		\$1,625
Add/integrate SWL cooling water flow meter(s)		3,450	Project Total		\$79,025
Add Tyee CW gpm & header pressure to SCADA		1,350			
Develop specifications for process, control and indication components, implementation		13,800			
Documentation, Project Management		9,750			
Construction (Control wiring modifications)		60,025			
Project Total		\$116,800			



CLOSED RR 263-16

CTs & RELAY - WRG SWITCHYD CIRCUIT SWITCHER

Project	CTs & Relay for Circuit Switcher – WRG Switchyard		
Description	Install current transformers and control relay on the T-36, new circuit switcher.		
Cost:	\$175,094	Completed: NOV 2017	Project Mgmt: S. Henson
Project Discussion			
<p>New current transformers (CTs) and additional protection-control relays now allow the Wrangell circuit switcher to sense fault conditions when they occur on the line from the Wrangell switchyard to the Wrangell substation, automatically opening the relay and sectionalizing this section of the transmission line. Previously if a fault occurred between the substation and switchyard, the breaker would have opened at Tyee, cutting power to both Wrangell and Petersburg. Installation of Smart Tap® current-sensing equipment with protection relay and associated equipment resulted in a very small footprint, attaching to the bushing with bolts.</p> <p>FY16 – Electrical Power Systems design, using existing civil structures.</p> <p>FY17 – The Board awarded the installation contract to Electric Power Constructors. Installation scheduled during the spring shutdown was delayed due to manufacturing. Three CTs were ordered, but one failed manufacturer testing prior to shipment. EPC was rescheduled to perform all work possible in June 2017 (except placing CTs) to minimize a short installation shutdown in the fall.</p> <p>FY18 – Installation took place in September during our maintenance outage. Final as-built drawings were received. Project is complete.</p>			

PROJECT COST ESTIMATE		EXPENDITURES	
DESCRIPTION	ESTIMATE		
		FY16 Expenditures	\$20,962
Design/Drawings	\$35,500	FY17 Expenditures	51,573
CTs	21,000	FY18 Expenditures	102,559
Install-Materials	104,100	Project Total	\$175,094
Expenses	6,900		
Contingency	33,500		
Subtotal	\$201,000		



CLOSED RR276-17 Schweitzer RTAC Upgrades SWL-TYL

Project	SCHWEITZER RTAC UPGRADES – Swan Lake & Tyee Lake		
Description	Replace existing relays with RTACs		
COST:	\$37,725	Completion: NOV 2017	Project Mgmt: S.Henson
Project Discussion			
<p>The SEL 3354 relays in the STICs system were running on an obsolete software program that was no longer supported. This project replaced the 3354s with Real-Time Automation Controllers (RTACs), upgraded the software and programming at both facilities, and added an Ethernet connection to the exciters. RTACs were been purchased in FY17 and programming was initiated.</p> <p>FY18 – RTAC's were installed in September 2017 at both Tyee Lake and Swan Lake.</p>			

PROJECT COST			
DESCRIPTION	ESTIMATE	EXPENDITURES	SPENT
Engineering-Programming	\$8,100	FY17 Expenditures	\$10,124
Hardware	12,400	FY18 Expenditures	27,602
Installation-Testing	16,000	PROJECT TOTAL	\$37,726
Total	\$36,500		

Project:	FLATBED TRUCK- Wrangell Office		
Description:	One-ton flatbed truck for Wrangell warehouse		
COST:	\$42,866	Completion:	DEC 2017
		Project Mgmt:	S. Henson
PROJECT DISCUSSION			
<p>The half-ton pickup at the Wrangell warehouse was adequate for the brushing crew's needs, but not sufficient for pulling the Svendsen landing craft or hauling freight of the size and weight we receive for the Tyee project. A one-ton flatbed crew cab (Ford F350) was purchased to take the place of the smaller truck. The F150 was moved to Petersburg to replace the standard cab 2000 Ford that will be disposed.</p>			

PROJECT COST ESTIMATE		
BREAKDOWN	ESTIMATE	BUDGET REQUEST FY2018
Truck / Chassis	\$38,500	
Tow Package	1,000	
Shipping	2,000	
Total	\$41,500	\$42,866



287-18 Flatbed WRG		\$42,000
\$	42,866	<i>FY18 Expenditures</i>
11/21/17	FORD201711	Horizon Ford
12/01/17	S387WRA17N	Samson Tug & Barge
12/31/17	655	CAPITALIZED FLATBED
Total 287-18 Flatbed WRG		-

Project: FURNACES (5) – Tyee Lake			
Description:	Replace furnaces in employee housing and staff quarters.		
COST:	\$25,592	Completion:	DEC 2017
		Project Mgmt:	HENSON
PROJECT DISCUSSION			
<p>The electric furnaces in the housing at Tyee Lake were approaching the 30-year mark. The furnace model was no longer manufactured, and it became increasingly difficult to find repair parts. Duct work was slightly modified to fit the new model furnaces. This project upgraded all five dwellings at Tyee Lake with modern, more efficient furnaces.</p>			

PROJECT COST		
BREAKDOWN	ESTIMATE	EXPENDITURES
Furnaces, duct, demo, install	\$18,000	
Electrical	5,000	
Contingency	2,000	
Total	\$25,000	FY18 Expenditures \$25,592

288-18 Furnaces TYL		\$35,000
	\$ 25,592	FY18 Expenditures
11/30/17 52857	Sunrise Aviation Inc	1,620
12/06/17 2305IN	Schmolck Mechanical SIT	24,077
12/07/17 R184974IN	Schmolck Mechanical SIT	(105)
12/31/17 655	CAPITALIZED FURNACES	(25,592)
Total 288-18 Furnaces TYL		-

**MEMORANDUM
ATTORNEY-CLIENT COMMUNICATIONS**

TO: Steve Prysunka, Vice Chairman
Southeast Alaska Power Agency

FROM: Joel R. Paisner, Ascent Law Partners, LLP

DATE: January 30, 2018

RE: Suggested Motion for Executive Session Re: Hydrosite Investigations and CEO
Evaluation Materials

To the extent that the Board of Directors seeks to conduct further discussions relating to hydrosite investigations and CEO evaluation materials, I recommend the following motion be made:

I move to recess into Executive Session to conduct further discussions relating to the Agency's hydrosite investigations and CEO evaluation materials. The Executive Session will be conducted pursuant to SEAPA's Bylaws which are consistent with Alaska Statute 44.62.310. The discussions may include matters that: (1) the immediate knowledge of which would clearly have an adverse impact upon the finances of the Agency, the Projects, or any of its Member Utilities; (2) certain matters will be discussed with an attorney retained by the Board, the immediate knowledge of which could have an adverse effect on the legal position of the Agency; and (3) the discussions may also include subjects that tend to prejudice the reputation and character of any person.

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Proposed RR299-18 RUNNER REPAIR SWL

Project: RUNNER REPAIR UNITS 1&2 – SWAN LAKE			
Description:	Cavitation repair of runners on units 1 and 2 at Swan Lake		
Cost Estimate:	\$395,000	Completion:	JUN 2018
		Project Mgmt:	Ed Schofield
PROJECT DISCUSSION			
<p>Cavitation damage on hydro runners (turbines) is an unavoidable consequence of hydro generation. Operation of the runners creates a vacuum on their back (low-pressure) side. This condition precipitates the formation of water vapor, and the vapor bubbles collapse on the runner, eroding the surface. As the areas of cavitation increase, the flow of the water is further disturbed by the indented surface, and the rate of detrition escalates.</p> <p>The 2017 annual runner inspection at Swan Lake indicated a rapid detrition of some runner blades. The proposal is to conduct the repair during the spring 2018 maintenance shutdown. The repair of both units is estimated to take 10-12 days working two shifts per day. Only one runner will be worked on at a time.</p> <p>An RFP will be issued for the runner cavitation repair. The process would begin, however, with a third-party Magnaflux magnetic particle inspection (MPI) to identify the extent of the damage, which cannot be evaluated visually. A second inspection would take place upon completion of the repairs to confirm the quality of the repairs.</p>			

PROJECT COST ESTIMATE			
BREAKDOWN	ESTIMATE	BUDGET REQUEST	
Magnaflux inspection	\$48,000	FY2018	\$400,000
Cavitation repair	347,000		
Total	\$395,000		
Project Cost Estimate Discussion			
<p>The cost of this project is highly variable as the extent of the cavitation damage will not be known until the initial Magnaflux inspection of both units takes place. A second Magnaflux inspection will take place when welding is complete on Unit 1 and a third inspection when welding is completed on Unit 2. The cost estimate represents a worst-case scenario; we are optimistic that final costs will be less.</p>			

Please consider the following suggested motion:

SUGGESTED MOTION
I move to increase the FY2018 R&R Budget by \$400,000 for Project RR299-18 for Runner Repairs on Units 1 and 2 at Swan Lake.

Proposed RR299-18 RUNNER REPAIR SWL



Runner cavitation monitoring inspection



Typical cavitation damage appears as light gray areas on the runner (known as frosting)



Runner cavitation frosting close-up



Closer view of runner cavitation damage



FLUX CAPACITOR



SOUTHEAST ALASKA POWER AGENCY Tyee Lake Tunnel ROV Inspection

Date: January 31, 2018 To: Board of Directors From: Trey Acteson

SUGGESTED MOTION
I move to authorize staff to conduct an ROV inspection of the Tyee Lake tunnel in fiscal year 2018.

As previously discussed with the Board at the December 2017 meeting, staff is requesting formal approval from the Board to perform an ROV inspection of the Tyee Lake tunnel.

This maintenance expense item was not included in the FY2018 budget and would be recorded under code 543250 Dams Reservoirs & Waterways. The rough order of magnitude to perform the ROV inspection is \$250K. No budget increase is requested at this time because staff anticipates performance of the \$535K submarine cable assessment, budgeted under code 564200, will not occur in this fiscal year.

Upon approval of the suggested motion, an RFP will be issued, and its results will be presented to the Board for final approval. Additional details regarding this project are included in the Power System Specialist's board report.



SOUTHEAST ALASKA POWER AGENCY

DATE: February 1, 2018
TO: SEAPA Board of Directors
FROM: Trey Acteson, CEO
SUBJECT: CEO Report

SAFETY:

There have been no recordable or lost time incidents.

GOVERNMENTAL AFFAIRS:

The Alaska Legislature is back in session and at the time of this writing I am in Juneau for the Alaska Power Association's (APA) 2018 Legislative Conference. I have highlighted legislative initiatives below that are of interest. We have been working to consolidate position statements and draft potential alternative language for the more impactful issues. During the event I have had an opportunity to connect with the Governor, the new Deputy Commissioner of ADNR, the State of Alaska's lead on the Roadless Rule challenge, and the new Executive Director of the Alaska Energy Authority. APA also hosted panels with House and Senate leadership and key Administration personnel.

HB 199 (Rep. Stutes): I chaired a meeting of APA's hydro working group on January 24, at which there were significant concerns voiced regarding the burden of duplicative requirements that HB199 would unnecessarily impose on FERC jurisdictional hydroelectric projects in Alaska. Evolving out of this meeting, APA has issued a whitepaper on HB199. It details specific conflicts with the Federal Power Act and provides a recommendation for an exemption to be carved out for FERC jurisdictional projects. A subsequent meeting with Representative Stutes indicated she is not open to a carve out for FERC jurisdictional projects and negotiations are ongoing. However, working to find workable language for HB 199 may be the lesser of two evils. There is a parallel citizen's initiative called Stand for Salmon that is currently under review in the Alaska Supreme Court. This is of greater concern to future development throughout the state and will likely have expensive repercussions, even to our member municipalities. It will also be much more difficult stop if the Supreme Court allows it to get on the ballot. SEAPA has always been a strong supporter and partner in maintaining healthy fisheries, but we do not need another costly duplicative layer of bureaucracy imposed upon our industry. It appears that both of these initiatives are targeted at the mining industry and we would just be collateral damage.

HB 255 (Rep. Tuck): This bill seeks to change elements of the Certificate of Fitness requirements for electrical workers (and other trades) and reduces the threshold for exemptions. It also increases fines from \$500 to potentially over \$25,000! It also takes away the right of utilities to

litigate fines. Alaska is the only state in the union that I'm aware of that imposes a Certificate of Fitness for electrical workers and it has led to unnecessary shortages of "qualified" workers and resulted in added expense to utilities across the state.

SB 173 (Sen. Micciche): This is a "good" bill that our industry needs to rally behind – "An Act relating to the liability of a person or the state for the release of certain pesticides during application of a utility pole." Anyone that has poles that are treated with Penta has significant exposure with recent developments on the Kenai Peninsula associated with testing and remediation upon removal.

SB 64 (Sen. Micciche): This is another "good" bill - "An Act adopting the Uniform Environmental Covenants Act; relating to environmental real property covenants and notices of activity and use limitation at contaminated sites to ensure the protection of human health, safety, and welfare, and the environment; and providing for an effective date." The bill addresses contaminants that perhaps are impractical to fully clean-up (e.g., a small oil spill that migrates under a concrete foundation but does not impact the intended use of the property or public safety). It is not uncommon for utilities to encounter these types of events.

RCA DOCKET:

SEAPA continues to support Petersburg and Wrangell in responding to a letter order from the Regulatory Commission of Alaska (RCA) pertaining to an application to close-out TBPA's certificate of public convenience to operate Tyee. We received a response from the RCA to our initial filing and are formulating a follow-up. Mr. Paisner will be available to provide an update.

PERSONNEL:

The Agency has hired Barry Haskel as our new Tyee Project Maintenance and Operations Foreman to replace Mr. Beers who has given formal notice of retirement effective April 15, 2018. Mr. Haskel has completed orientation and is already out at the site working with the team. Having worked at Terror Lake (Tyee's sister plant) for several years, he is a perfect fit for the position and brings a wealth of knowledge and experience.

A national recruitment effort is fully underway for a new SEAPA Operations Manager. Interviews will be conducted in February and we hope to transition someone into the position ahead of Mr. Henson's retirement date at the end of June. This will provide an opportunity for his replacement to work in parallel through the spring transmission line maintenance activities and annual budget process.

Lisa Maddocks, SEAPA's Administrative Assistant, has tendered her notice of resignation. Ms. Maddocks has been with the Agency for over three years and performed well as an integral part of our administrative team. We thank her for her outstanding contribution to the Agency and wish her well in her new endeavor. Recruitment for a new Administrative Assistant is in progress and preliminary interviews will begin February 5th.

Date: January 24, 2018
To: Trey Acteson, Chief Executive Officer
From: Steve Henson, Operations Manager
Re: Report for February 8, 2018 Board Meeting

MAJOR CONTRACTS and PROJECTS

Dredging/Road Tyee Lake Harbor

SEAPA applied to the U.S. Army Corps of Engineers (USACE) in 2016 for assistance with design and implementation of a plan to alleviate the silting in the Tyee Lake harbor area. The application was reviewed by the Washington, D.C. USACE Office, who assessed the following options for Tyee's harbor entrance: (i) building a road, (ii) dredging a channel to salt water, (iii) dredging the harbor and placement of riprap, or (iv) dredging the harbor with annual maintenance. Following a site visit in May 2016 and several exchanges between the Agency and USACE, the initial interest USACE had in the project culminated in an official letter from USACE stating there is no federal interest in the Tyee Lake Navigation Improvements Study. USACE determined that since there was no way to structurally alleviate the silting, they could not support the ongoing maintenance costs for dredging but did offer technical and planning assistance for the road option.

A local contractor provided staff with a ROM estimate of \$2,533,000 for construction of a road from the harbor to salt water, a breakwater and landing area. This road and new harbor area would provide 24/7 access by water to the Tyee project, which would be a significant safety and maintenance improvement.

Staff will continue to develop the scope, schedule, and budget, and potentially initiate permitting for this project.



Silting at Tyee Harbor



Proposed Access Road, Landing and Breakwater Area at Tyee

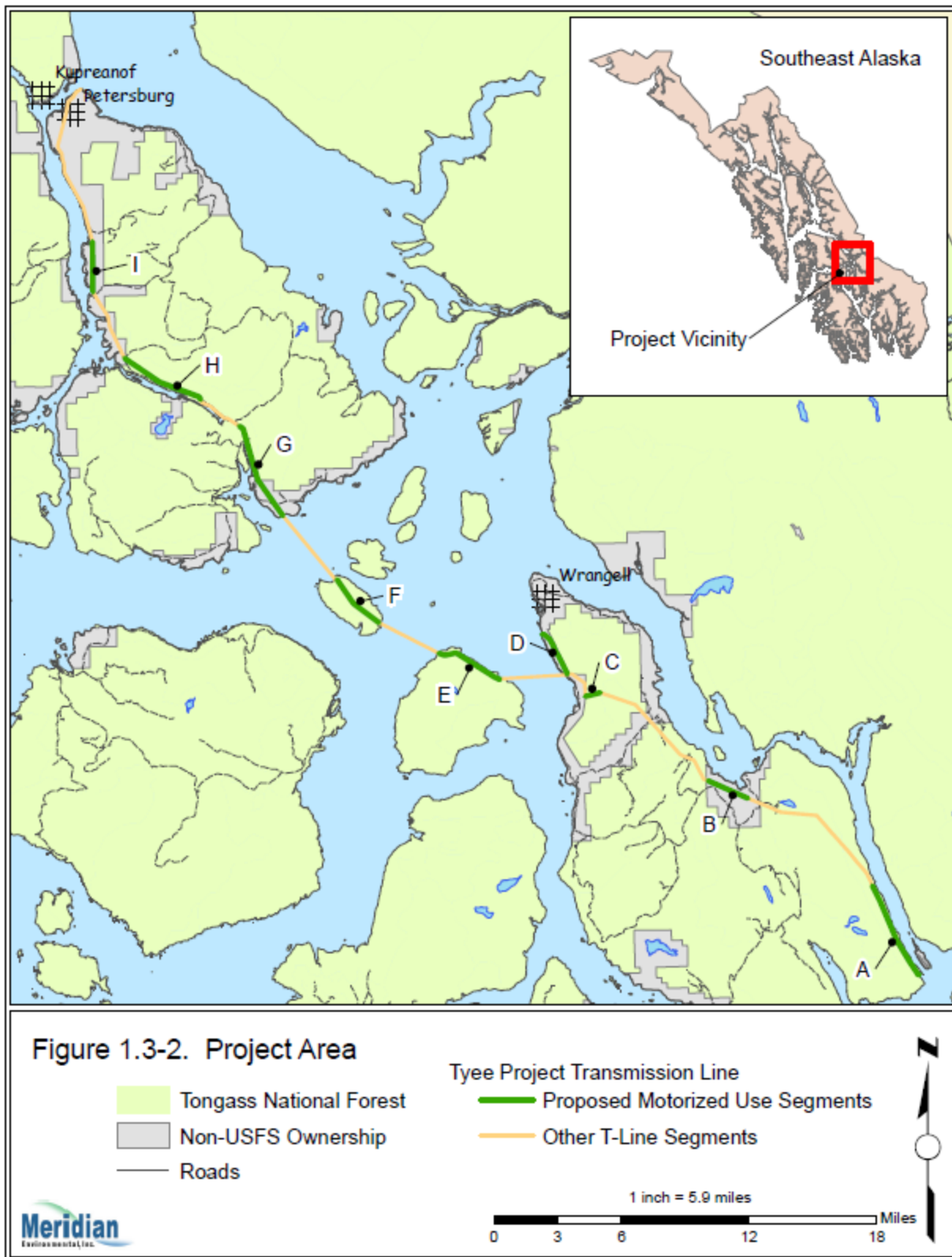
ATV Use on the Tyee Transmission System

The U.S. Forest Service (USFS) published the final Environmental Assessment (EA) for use of the ARGO on select areas of the Tyee transmission line right-of-way. Following publication, there was a comment period on the EA, which ended on July 19, 2017. Only two public comments were received. One comment supported the project. The other expressed a concern that the project should not be allowed in Wilderness Areas, which is deemed to be an irrelevant comment because there are no Wilderness Areas in the project. Once the decision notice is received, Staff will be required to write procedures to comply with the requirements of stream crossings, invasive plant mitigation, etc.

The final decision was published on the Forest Service project web site the week of January 8th, with notices sent to the stakeholders list. A legal notice was published in the Ketchikan Daily News on January 8th, and newspaper notices were also published in the Petersburg Pilot and Wrangell Sentinel that same week. The final decision has an objection period of 45 days from the January 8th notice in the Ketchikan paper. The project may then be implemented following the 5th business day after the close of the objection period so closing of this decision should occur on March 2, 2018.



ARGO Vehicle



ARGO Use Segments of the Tyee Transmission Line

Tyee Satellite Platform Survey and Plat

A task order has been issued to DOWL Engineering, Ketchikan, to survey and plat the location of the Tyee satellite platform situated on DNR lands. This will complete the requirements of the requested easement.



Satellite Platform at Tyee

Swan-Tyee Intertie Final As-Built Survey and DNR ROW Permitting Process

SEAPA's land use permit from the DNR was originally issued in 2002. As is typical, the Agency obtained an early access permit. As-built drawings were completed and submitted to the DNR on January 11, 2010 as required by the permit. Due to weather problems, and some further delays, a final portion of the survey (the Bluff Lake Area Road Realignment Survey adjacent to three structures) was completed per ADL 106442 permit conditions and submitted to both the

DNR and the United States Forest Service on April 22, 2014. The United States Forest Service approved the Bluff Lake Area Survey shortly after submittal.

In April 2017, a letter was sent to the DNR's Deputy Commissioner to request an opportunity to meet to discuss the DNR staff's request to SEAPA to re-submit a new as-built survey for the entire Swan-Tyee Intertie transmission line. We explained that providing a new as-built survey, pursuant to survey regulations that have been promulgated after SEAPA's submittal of its original as-builts, would come at a great cost to the Agency. This was a concern because after SEAPA submitted the required as-builts in both 2010 and 2014, the DNR did not provide any notice or feedback that they had any concerns with the submittals. It was not until June 2015, over a year after the Bluff Lake Area Survey submittal, when SEAPA was informed that a completely new set of as-builts must be provided pursuant to different survey standards.

Following a meeting with the DNR's Deputy Commissioner, the DNR issued a letter extending the entry authorization to December 31, 2017 to allow for completion of the as-built survey. Following the December expiration, the Agency secured another extension of entry authorization through February 1, 2019 for completion of the as-builts. The field survey work is now complete. We anticipate that although it may take the DNR from three to twelve months to respond, completion of the project by the end of this year may be a possibility.

Annual Transmission Line and Plant Maintenance

Planning has begun for the annual maintenance shutdown which will occur beginning the last week of May and continue until the end of the third week of June this year. A definite schedule will be released as soon as staff confirms availability of contractors and crews.

Tyee Lake Report

Routine plant, substation, and switchyard maintenance were performed at the Tyee Plant.

The brushing crew has been busy clearing the right-of-way on Mitkof Island.

Swan Lake Report

Routine maintenance has taken place at the plant, which is more fully explained in the attached report from KPU.

Staff will be available at the meeting to discuss any questions or concerns.

Attachment:

Swan Lake Report

Date: January 29, 2018
To: Trey Acteson, CEO
From: Ed Schofield, Power System Specialist
Subject: February 8th Board Report

Swan Lake Unit 1 and 2 Runner Cavitation Repair

Cavitation damage on hydro runners is an unavoidable occurrence of hydro generation. It is possible for cavitation to occur on all types of runner designs; however, Francis type runners such as the ones we have at Swan Lake, are the most susceptible. The Francis runner is a fixed blade design most suited for low head, high flow conditions. Runner cavitation can be compared to tire wear on a motor vehicle; it is going to occur if the vehicle is driven. Standard operating protocol is to minimize cavitation to the extent possible by not operating within the rough zone, monitoring cavitation damage, and performing repairs prior to runner failure. Francis runners are designed to operate most efficiently at or near their full design load (70% to 100% gate opening). Operating below design loads increases the possibility of cavitation occurring, which is known as operating in the rough zone.

How & Why Does Cavitation Occur? Cavitation occurs when the pressure of water is lowered down to a vapor pressure or put in a vacuum state. At this point vapor bubbles form which then collapse when coming into regions of higher pressure. The collapse of the bubbles produce a strong characteristic noise (hence the term **Rough Zone** in hydro operations) and bubbles collapsing on runner or other surfaces will over time erode material from those surfaces.



Runner Cavitation Monitoring Inspection



Gray Areas (known as 'Frosting') seen on the Runner in this photo is typical cavitation damage.



Runner Cavitation Frosting



Swan Lake Runner Cavitation Damage

As the cavitation areas increase in size and depth the damaged areas will quickly deteriorate. This is due to disturbance in water flows over the indented cavitation surface creating low pressure points, which causes the formation of vapor bubbles which again collapse at the point of high pressure (cavitation created by cavitation damage). For this reason, it is essential that inspection monitoring occurs on a regular schedule, and frequency of the inspection should increase as damage accelerates. Cavitation is not only detrimental to the integrity of the runners, it decreases operating efficiencies and can increase operational noise levels above safe working limits.

The 2017 Swan Lake annual runner inspections indicated that a rapid deterioration of some of the runner blades is starting to occur. To correct runner cavitation the damaged area is removed by grinding out the compromised metal to a smooth void-free surface (actual damage depth can be twice the depth of surface measured depths). An electro-welding process is then used to build up the groundout surface with new material, followed by hand blending to bring the surface back to original runner blade contours.

Staff will seek the Board's approval for funding Swan Lake Unit #1 and Unit #2 turbine runner cavitation repairs under New Business in the Agenda. If funding is approved, a Request for Proposals (RFP) seeking a firm competent in Francis runner cavitation repairs will issue on March 7th with bids due on April 9th. A special board meeting date of April 17th will be suggested for award of the contract. We anticipate repair work would be completed during the annual plant maintenance outage. The tentative date of the annual Swan Lake maintenance outage would be in late May or early June. Completion of the cavitation repair of both units is estimated to take from 10 to 12 days working a minimum of two shifts each day.

Swan Lake Marine Bulkhead Restoration Project

The Swan Lake Marine Bulkhead is used to transfer equipment and materials from large ocean-going tugs and barges to the Swan Lake Hydroelectric Plant site. Typically, the bulkhead is used for shipments arriving from or departing directly to Seattle marine terminals. Examples of required use of the bulkhead would include any large construction projects, such as the recent 2016 Reservoir Expansion Project or in the event of a major equipment failure such as a generator winding failure. The marine bulkhead would be essential for transferring large equipment south for restoration repairs.

The bulkhead was originally constructed in the first construction phase of the Swan Lake facility in 1980. The bulkhead is a vertical sheet pile wall approximately 90' feet in length 21' feet high

residing along the Carroll Inlet shore at the north end of the project. The bulkhead is presently slated for restoration to extend its useful service life. The Marine Bulkhead Restoration Project will include the replacement of all wood fenders, the ground anchor ends, and anchor waler. Wood pile fenders will be removed and replaced with galvanized steel piles driven vertical with the sheet pile wall. The sea-side waler will be removed and replaced and the ground anchor ends will be replaced. Ground anchors will be excavated for visual condition assessment.



Damaged Waler and Fenders

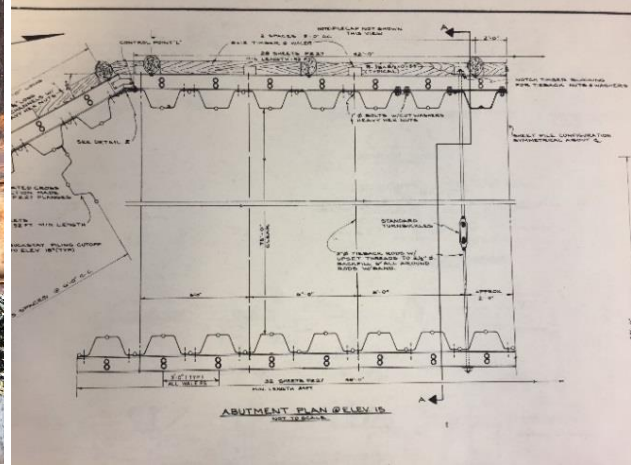


Damaged Anchor End Bolts





Deteriorated Ground Anchor Waler



Drawing of Ground Anchor System

A U.S. Army Corps of Engineers (USACE) permit is required for this project. The USACE permit application is presently under review; no negative conflicts are anticipated by the review engineer and no unusual requirements attached. The permit will cover pile driving activities and upland excavation for ground anchor repairs. Request for Proposal (RFP) documents have been prepared and will be publicly advertised as soon as the USACE permit is issued.

Swan Lake Staff Housing Replacement

The Swan Lake House Replacement Project will remove an existing home (Home 102) and install a duplex home in its place. Replacement of the existing home was chosen over construction of an additional new one because of a lack of buildable real estate, age and cost of remodeling the existing home, and the ability to use the existing home's foundation, access road, and utility connections.

The first phase of the Swan Lake Housing Replacement Project is to obtain an engineer's approval that the facility's existing wastewater treatment system is functioning to Alaska Department of Environmental Conservation (ADEC) regulations and standards and to determine if the treatment system is adequate to handle the additional housing unit. The engineer's review indicated that the existing wastewater system was adequate if it was functioning properly. The engineer's review occurred on January 3, 2018 and revealed several system deficiencies. A report was submitted to SEAPA noting the deficiencies, the corrective action to be taken, and suggested design changes to simplify operational monitoring requirements in the future. It was also discovered that the Swan Lake wastewater treatment system had never been permitted with the ADEC at the time of construction in 1980. Efforts are now under way to obtain an ADEC Wastewater Treatment Permit.



Waste Water Treatment Inspection



Engineer Discussing Operational and Maintenance Requirements with Plant Operators

The Engineer recommended that the present treatment system be converted from an ocean outfall to an upland leach field for effluent discharge. The leach field would be better suited for the situation and would avoid stringent ADEC effluent discharge monitoring requirements for an ocean outfall system.

The new effluent leach field design will be submitted to ADEC for approval and permitting. The ADEC waste water permit and the engineer's approval to operate is required to obtain a Ketchikan Gateway Borough zoning permit which will be required to install the new home. Phase 2 of the Housing Replacement Project will be the installation of the leach field, once an ADEC permit to construct has been issued. After construction of the leach field an engineer review of the treatment plant will again occur so an ADEC approval to operate can be issued. Once the ADEC wastewater permit to operate is received, staff will apply for a Ketchikan Gateway Borough zoning permit. Once the zoning permit is obtained, a Request for Proposals can be advertised for construction of a modular home, removal of the existing home, and placement of the new home.

The following is a brief history of the Swan Lake Housing Replacement Project provided for the benefit of new SEAPA Board Members:

Housing accommodations for a three-man crew to operate the Swan Lake Facility were designed and constructed in 1983. From 1984 to 2010, the Swan Lake facility was operated with the three-man crew working ten days on and four days off. The facility was designed and constructed to be operated with a three-man crew. In 2006, KPU opted to change their work schedules to an eight-days-on and six-days-off rotation to enhance employee retention. The new schedule left a sole operator on site for an evening out of each shift change. In 2010, KPU determined that the sole operator during shift changes was not a prudent practice and proposed adding a fourth operator to correct the issue.

The SEAPA board approved KPU's request for a fourth operator; however, no permanent housing accommodation plans were proposed for the fourth employee at that time. KPU chose to house the additional fourth operator within the facility's special projects bunkhouse until permanent accommodations could be arranged.

The facility's bunkhouse is a fully equipped six-room home designed for contractor housing during Plant improvement projects. KPU eventually permanently occupied two bedrooms and a bathroom of the bunkhouse. The KPU occupation of the bunkhouse was not a desirable situation for either KPU or SEAPA's contractor as it placed undue constraints on special project housing needs and did not provide a suitable housing situation for the KPU employee who was required to co-exist with numerous contractors.

During the 2016 Swan Lake Reservoir Expansion Project, full contractor occupancy of the bunkhouse was required for a successful and timely completion of the project.

SEAPA approached KPU to request that they consider double employee occupancy in one of the existing dedicated KPU staff housing units in lieu of taking up two bunkhouse rooms to resolve the contractor housing constraints. The Agency viewed this as a favorable resolution for both parties since the housing units were completely unoccupied fifty percent of the time due to shift rotations and it opened up room for four additional contractors in the bunkhouse.

KPU agreed to the double occupancy if the Agency would agree to pursue other permanent housing accommodations in the near future. SEAPA developed the duplex housing replacement concept in late 2016 and introduced the concept for discussion and approval at a SEAPA Board meeting in February 2017.



Swan Lake Special Project Bunkhouse



Swan Lake Unit 2 of 3 Staff Housing Units

Tyee Tunnel ROV Survey

The Tyee Hydroelectric Facility's water conveyance system is made up of unlined rock tunnels approximately 8,200 ft. long and 10 ft. in diameter, and a steel penstock approximately 1,500 ft. long and 5 ft. in diameter. The 1,500 feet of penstock runs from the Powerhouse to the tunnel plug via an access portal at elevation 25.0. At the end of the access portal is the tunnel plug and the beginning of the power tunnel. The power tunnel is a horizontal tunnel approximately 5,844.0 ft. long, climbing to an elevation of 27.0 feet. Here the vertical pressure shaft starts and is approximately 1,122.0 ft. high. At this point the pressure shaft meets the upper power tunnel, the upper power tunnel runs horizontally approximately 265 ft. to the Tyee Lake tap. Within the upper power tunnel an upper intake gate access shaft approximately 425.0 feet extends vertically to the surface at elevation 1,630.0.

It is industry standard to drain and inspect hydro water conveyance structures at five-year intervals. Due to a collapse in the lower power tunnel during original project commissioning, draining of the Tyee water conveyance structures has been avoided for 33 years.

It is now possible to inspect the Tyee power tunnels and pressure shaft with a Remote Operated Vehicle (ROV). The ROV would access the tunnels through the upper intake gate access shaft and then descend down a total of 8,200 feet and a depth of 1400.0 feet.

The goal would be to video and three-dimensional (3d) sonar map the tunnel walls for the full length of the rock tunnel. This information would then be used to assess the general condition of the tunnel and integrity of the rock primarily in four known fault zones that were encountered during the initial construction of the tunnels. During the upcoming Board meeting, staff would like to discuss this project to get the Board's consensus before a Request for Proposals is publicly advertised in March anticipating that the ROV inspection would occur during the Tyee annual Transmission line maintenance shut down in May 2018.

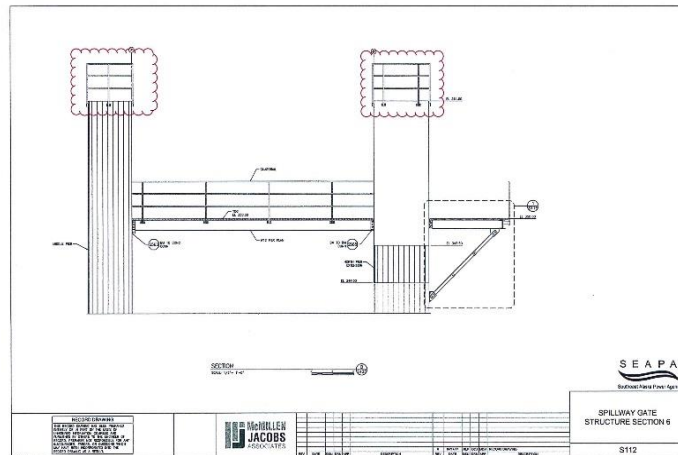
Swan Lake Bureau of Reclamation PRO&M Review

The Swan Lake Plant Bureau of Reclamation (PRO&M Team) facility review is scheduled for the week of April 23, 2018. The PRO&M Team consists of three specialized engineers whose sole job within the Bureau of Reclamation is to perform Hydro facility performance reviews. They perform at least 53 plant reviews annually for the Bureau of Reclamations. The PRO&M Team will perform a comprehensive review of Swan Lake's SCADA, structural, maintenance practices, system operations, training programs, hazard assessments, general safety practices, identify systemic issues (issues inherent to system), asset management practice, and mission and goals. The same inspection was conducted for the Tyee Plant in 2016. The goal of this review is to identify additional efficiencies to enhance operations and maintenance best practices.

Swan Lake Miscellaneous Metals

The Swan Lake Miscellaneous Metals Project has been delayed due to high reservoir elevations in the late summer and fall of 2017. This project covers the installation of reservoir access ladders and additional safety handrails and guards associated with the 2016 Swan Lake Reservoir Expansion Project. The project is scheduled to start in the spring (April) of 2018 when working conditions are more favorable.

[Remainder of page intentionally left blank.]



Installation Point of Reservoir Access Ladder & Safety Handrails

SEAPA Office Remodel

The SEAPA White Cliff Office Remodel Project has been fully permitted and materials have been ordered. A contractor is scheduled to start this project the second week of February 2018 and we estimate it will take four weeks to complete. The project will enclose three open office areas.



SEAPA's Current Office Dividers



SEAPA Enclosed Office Concept

Swan Lake Reservoir Expansion Board of Consultants' Final Project Meeting

The final Swan Lake Reservoir Expansion Project's Board of Consultants' (BOC) meeting is scheduled for May 23, 2018. The meeting will be held at Swan Lake. The BOC is an engineering team that is assembled by a Project's owner and approved by the Federal Energy Regulatory Commission (FERC) for the purpose of reviewing and approving projects from concept to

completion. The BOC team works directly with FERC dam safety engineers to vet and foresee all safety concerns. The Swan Lake BOC team is made up of engineers having extensive experience in the design and operations of Dams. The BOC team's final duty is to meet one year after Project commissioning to review standard operational procedures and develop protocol for future equipment and structural safety monitoring requirements. SEAPA has arranged to have the 2019 Part 12 Independent Consultant (IC) available to participate in the final BOC meeting as well. The IC will be responsible for defining and inserting all BOC findings into the Project's Dam Safety and Surveillance and Monitoring Plan (DSSMP).

End of Report



SOUTHEAST ALASKA POWER AGENCY

Date: January 29, 2018

To: Trey Acteson, CEO

From: Robert Siedman, P.E., Director of Engineering & Technical Services

Subject: Report for February 8 Board Meeting

Swan Lake DC Distribution Upgrades

The Swan Lake DC Distribution Upgrades are 90% complete. All panels, switches, conduit, and cable trays are installed. The final step is to land the cables on a splice panel. The final 10% of installation will require a powerhouse outage. The battery bank and chargers will need to be disconnected to make the swap over.



A complete powerhouse outage during the upcoming cold winter months is not likely to occur. Loads for all three Utilities are greater than what Tyee can produce. This project will likely remain on hold until the warmer Spring months arrive, and heating loads are reduced. Once SEAPA generation requirements are down to a supportable level for Tyee Lake generators to maintain, Swan Lake will be brought offline for approximately 8 hours to complete the swap over and commission the project.

Megger SMRT Automated Relay Testing

SMRT46D

Megger Multi-Phase Relay Test System



- Integrated Smart Touch View Interface™ provides stand-alone operation using intuitive high resolution graphic touchscreen, no PC required to operate
- 4 Voltage channels, 3 Current channels, with convertible voltage channels provides 1 voltage and 6 currents
- High current output - 60 Amps at 300 VA per phase
- Convertible voltage channels - 15 Amps at 120 VA
- Dynamic, Transient and GPS Satellite Synchronized End-to-End Testing Capability
- IEC 61850 Testing Capability

The R&R project (RR291-18) to procure a relay testing system is 90% complete. A SMRT46D was procured, which is capable of running automated relay test suites for testing SEAPA distribution, transformer, generator and line relays. The test system is also capable of re-simulating actual events from Comtrade files retrieved out of event reports from actively installed relays.

In addition to procuring a Megger SMRT46D relay test system, SEAPA is 90% complete with developing a test bed utilizing SEAPA's spare protective relays. The test bed (relay rack) will be used to develop the automated test suites.

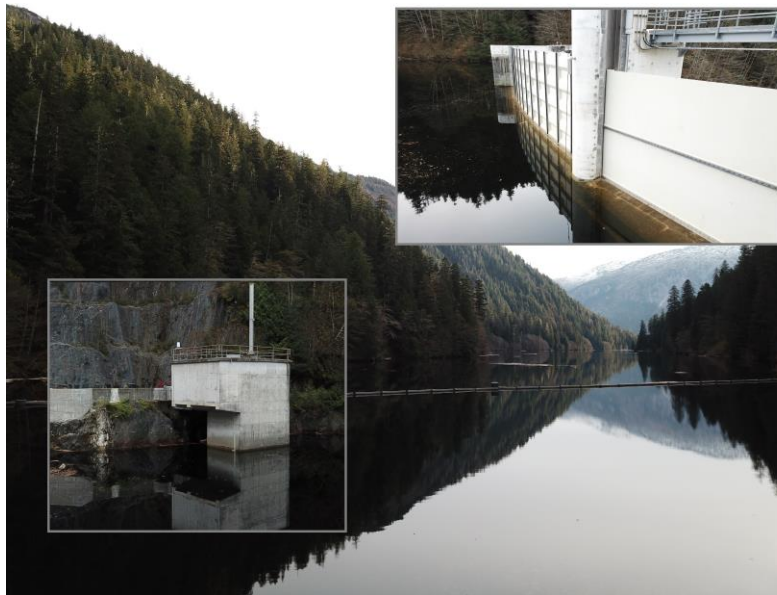
Once complete, the relay test rack combined with the SMRT test system will allow SEAPA to test all protective relays in the field to verify calibration and functionality. In addition, SEAPA spare relays are being programmed in the test rack to have the ability for on-a-moment's-notice deployment into the field, minimizing risk of outages due to relay failures.



Swan Lake Security Cameras

As part of the Swan Lake Reservoir Expansion Project (fixed wheel gate and flashboard array), FERC required SEAPA to hire a Board of Consultants (BOC) prior to FERC issuing the license amendment. One of the BOC's major concerns identified in the pre-construction plan review meeting was security risks and possible vandalism to the flashboard array which led to the recommendation for installation of security cameras.

SEAPA has procured and is currently installing security cameras at the dock, on the powerhouse, and at the dam.



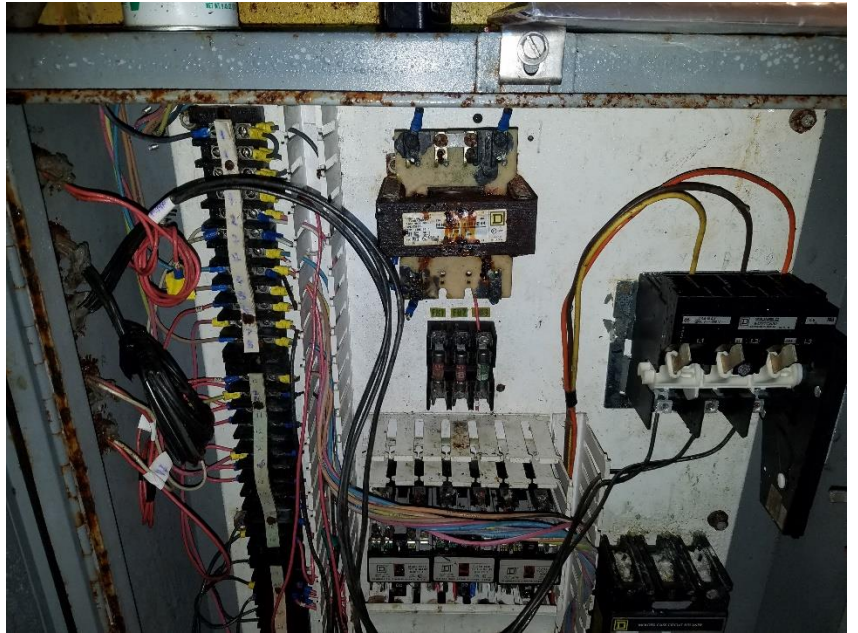
The cameras that are being installed are pan-tilt-zoom and will record events at the three locations discussed. In addition to meeting security requirements as recommended by FERC and the BOC, the camera located at the dam will allow monitoring of the vertical gate and flashboard array for debris, ice and physical position. This increased ability to record operations reduces risk of any debris causing Vertical Gate malfunctions.

Tyee Lake Intake Gate Controls



The Tyee Lake intake gate is located 200 feet below the lake in an access shaft. The environment for electrical control devices is extremely wet. Due to the wet environment, many of the electrical components have deteriorated over time and the circuit to electrically control the intake gate is currently not functioning. In October 2017, SEAPA investigated the components, tested the circuit and determined what was necessary to design a circuit that was more robust.

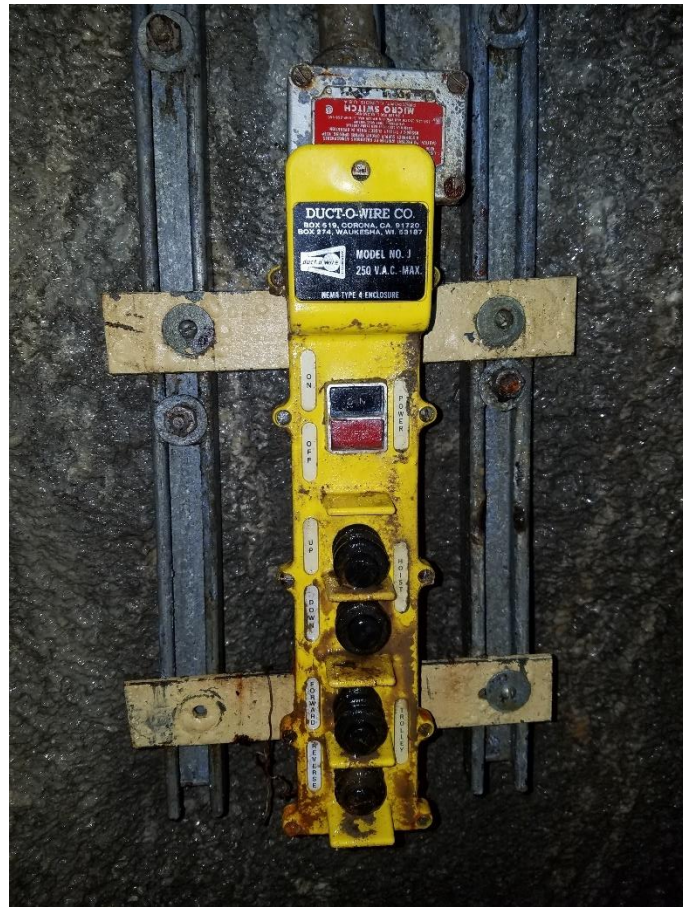
SEAPA completed a design in-house that would remove most of the electrical components from the harsh environment. A NEMA 4R junction box, water proof limit switches and a water tight pendant was specified to be used which will reduce the risk of failure in the future. SEAPA is in the process of ordering electrical components to be built and tested prior to installation at the site. Tyee personnel will be performing the work to build the circuit and SEAPA will install it when weather permits.



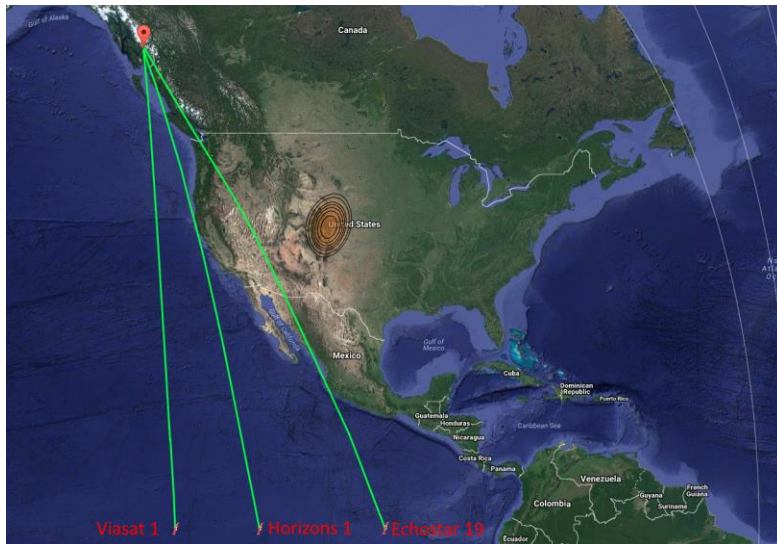
Tyee Lake Overhead Hoist Controls

The Tyee Lake overhead hoist is used to lift the access grates, lower tools and equipment, lift the intake gate out of the slot and other miscellaneous tasks. During SEAPA's October visit to the Tyee lake gatehouse, the overhead hoist was operating correctly from the pendant that was located at the top of the intake gate shaft (lake elevation). The hoist also has pendant operation 200 feet down the shaft however when SEAPA tested the hoist from this station, the pendant froze in the off position.

The lower pendant as shown is typical of the electrical equipment that is located at the bottom of the shaft. The wet environment causes electrical devices to rust and quit operating.



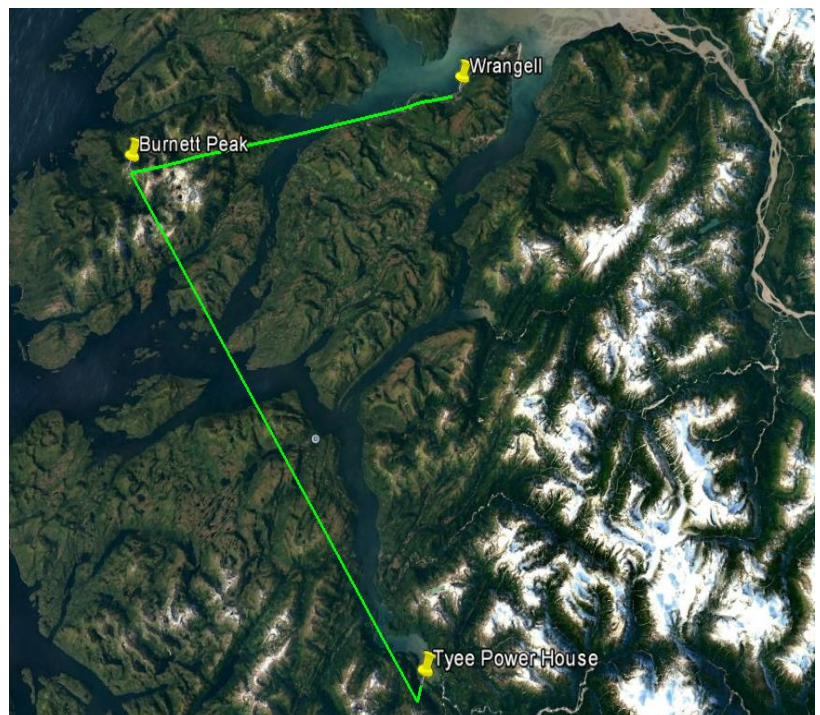
SEAPA has identified a replacement pendant that is more robust in wet environments. SEAPA plans to replace the lower pendant in preparation for removal of the intake gate. This work is set to occur in the Spring of 2018 when snow has melted enough for access to the facility.



SEAPA Communications

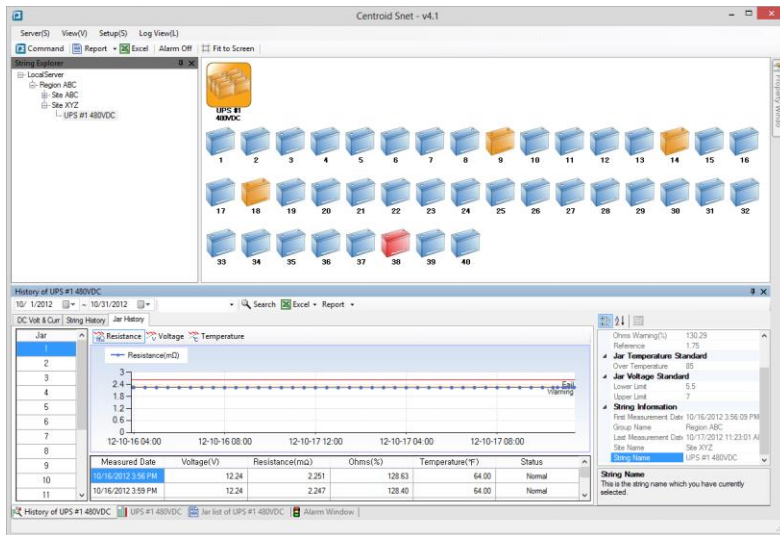
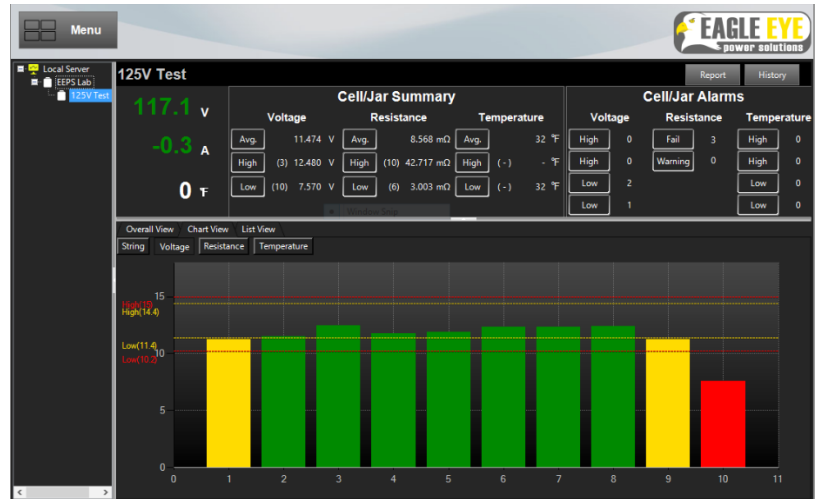
SEAPA is currently utilizing the Horizons-1 satellite for internet SCADA and phone systems out at Swan Lake. The Horizons-1 satellite is 15 years old and near the end of its useful life. In addition, it utilizes Ku-band technology, which is much slower than Ka-band currently available on the market. SEAPA is in the process of moving to the Echostar-19 Ka-band satellite for Swan Lake communications to increase bandwidth speeds by nearly 1800%.

SEAPA is currently utilizing AP&T microwave links for communication at Tyee. The microwave utilizes a passive reflector on Tyee mountain and a Burnett Peak repeater to send communications from Tyee to Wrangell. Maintenance costs on this type of communication is extremely high at nearly \$40k per year for Burnett Peak. An additional \$15k per year is the cost for the communication link. SEAPA has already installed a Satellite platform, fiber and power at Tyee in preparation for a Satellite link similar to Swan Lake. Horizons-1 is visible however SEAPA would prefer a link to the Viasat-1 satellite which would have similar speeds as the Echostar 19 (which is not visible from Tyee).



Battery Monitor Systems

RR-279 is a Renewal & Replacement project to install battery monitor systems at Tye Lake, Swan Lake and the Wrangell substation. The battery monitor systems will monitor and alarm when battery conditions become abnormal. By monitoring and alarming if conditions become abnormal, if a single battery is near failure, the entire array will not be compromised. In addition, SEAPA will be installing a hydrogen monitoring system.



SEAPA has completed in-house site evaluations, technical onsite measurements and data collection, and sent the information to Eagle Power Solutions for engineering design. The engineering design was completed in January 2018 and the equipment is currently in-route (shipped). SEAPA will utilize in-house personnel to install and commission the equipment.



Swan Lake Control Room Touch Screens.

The Swan Lake Control Room touch screens are based on hardware that is over ten years old and out of active support. The existing bench board analog meters are obsolete and incompatible with the new exciters. Calibration of the existing meters is not reliable. Meters on the bench board are displaying voltages, Megawatts, Megavars and other values that are all inaccurate with up to 30% error. SEAPA is in the process of replacing the meters with Digital Touch Screens.

SEAPA has issued a task order with Segrity to replace the analog meters with touch screens like the one shown (right). The project is currently in the design phase. The task order was issued under the Renewal and Replacement project RR-282. The touch-screens will be GE View Panels and will allow operators to quickly and easily view Generator Voltages, Megawatts, Megavars and other values necessary to operate the units. Accuracy will be restored with digital display units which have self-calibration algorithms.

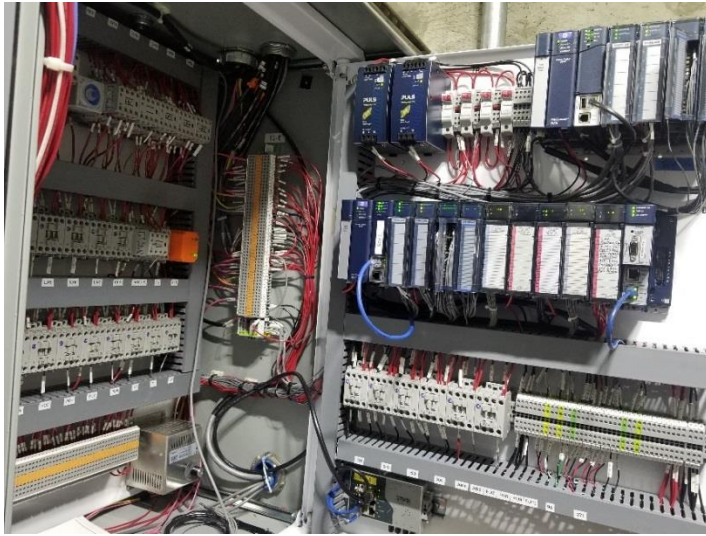


Swan Lake Governor Modernization

RR-289 is a Renewal & Replacement project to replace the L&S proprietary programming, programmable logic controllers (PLCs) and touch screens for the governors at Swan Lake. The existing PLCs are obsolete and do not have spare parts available on the market. Programming will reduce oscillations to the distributing valve servos by improving jitter and governor response.



A task order has been issued to Segrity to complete this project. The project is currently in engineering design. Parts for the Flex-500 Woodward generator turbine control module have been ordered. Isochronous load sharing at Swan lake, HMI integration with STCs and HMI integration with 86R functions are all included in the scope of work for this project.

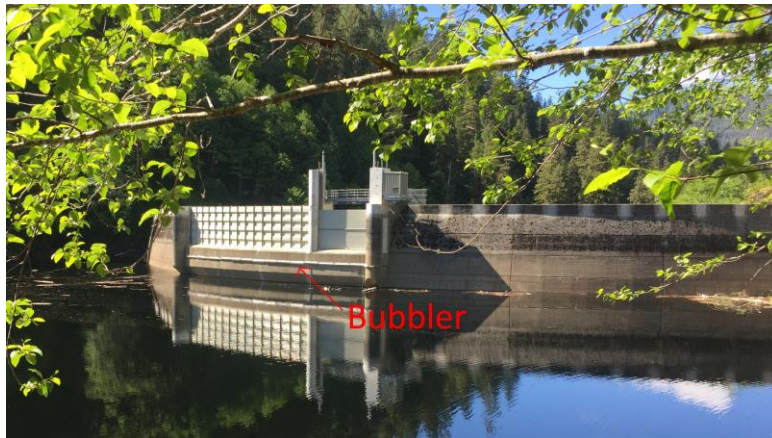


Swan Lake Rain Gauge

Swan Lake has an existing Davis weather station; however, the station is located at the dock, nearly a mile from the lake where rain measurements are required. In addition, the Davis rain gauge (as part of the weather station) does not have the ability to be integrated into the SEAPA Scada system for monitoring and lake level predictions. As part of the follow up to the Reservoir Expansion Project, SEAPA built in-house predictive lake level algorithms and developed a Lake Level control HMI. The HMI was designed to control lake elevation to a specific height.

The new rain gauge is a tipping-bucket type with a large mouth for catching rain. This large opening adds increased accuracy for measuring rain levels, especially on windy days. It was installed on top of the Swan Lake intake gate structure which is on the lake. Integration into the SEAPA Scada system was completed and lake levels were added to the SEAPA historian. The rain gauge is equipped with temperature controlled heating so snow accumulation can be measured as well.





Swan Lake Dam Spillway Bubbler System

SEAPA is currently in the process of designing an automated system for the Swan Lake dam spillway bubbler system. The purpose of the bubbler is to prevent ice build up on the flashboards and vertical gate to ensure proper operation.

SEAPA is designing the automated functionality for the spillway bubbler to operate under two conditions. The first condition is a function of temperature. When temperatures are below 32 degrees, the first condition will be met. The second condition will be lake level. The bubbler system is not required to be in operation if lake levels are not near elevation 330. SEAPA will be adding this as a second condition. Communication to the compressor enclosure is required. On site personnel were tasked with in-stalling conduit and pulling communication wires. This is on hold until weather permits installation.





Swan Lake Intake Building Compressor Alarm

The intake gate compressor is used to provide compressed air to the Swan Lake level pressure transducer. Compressed air at a low PSI is used to measure atmospheric pressure (in H₂O) caused by the amount of water in the lake. It is extremely accurate with only a 0.1% error.

The lake level transducer is only accurate however if compressed air is maintained to the system. In October 2017, SEAPA noticed a significant discrepancy between lake levels that were measured by onsite personnel and what was reported in SCADA. The probable cause was that the air compressor was turned off and after a period of time (a couple days), low pressure in the compressor tank caused inaccurate lake level readings.

To resolve concern with this in the future, SEAPA ordered and had onsite personnel install a pressure system alarm. Integration into the SCADA system is currently being performed.



End of Report



SEAPA 2018 BOARD MEETING DATES

Date(s)	Location	Comments
April 17, 2018 (Tues)	Ketchikan	(Telephonic) Special Board Meeting
June 19-20, 2018 (Tues-Wed)	Wrangell	Split Meeting: Tues 1-5/Wed 9-2
September 27, 2018 (Thurs)	Ketchikan	
December 12-13, 2018 (Wed-Thurs)	Petersburg	Split Meeting: Wed 1-5/Thurs 9-2

2018 Calendar

January 2018							
W	S	M	T	W	T	F	S
1		1	2	3	4	5	6
2	7	8	9	10	11	12	13
3	14	15	16	17	18	19	20
4	21	22	23	24	25	26	27
5	28	29	30	31			

February 2018							
W	S	M	T	W	T	F	S
5					1	2	3
6	4	5	6	7	8	9	10
7	11	12	13	14	15	16	17
8	18	19	20	21	22	23	24
9	25	26	27	28			

March 2018							
W	S	M	T	W	T	F	S
9					1	2	3
10	4	5	6	7	8	9	10
11	11	12	13	14	15	16	17
12	18	19	20	21	22	23	24
13	25	26	27	28	29	30	31

April 2018							
W	S	M	T	W	T	F	S
14	1	2	3	4	5	6	7
15	8	9	10	11	12	13	14
16	15	16	17	18	19	20	21
17	22	23	24	25	26	27	28
18	29	30					

| | | | | | | | |

May 2018							
W	S	M	T	W	T	F	S
18			1	2	3	4	5
19	6	7	8	9	10	11	12
20	13	14	15	16	17	18	19
21	20	21	22	23	24	25	26
22	27	28	29	30	31		

June 2018							
W	S	M	T	W	T	F	S
22						1	2
23	3	4	5	6	7	8	9
24	10	11	12	13	14	15	16
25	17	18	19	20	21	22	23
26	24	25	26	27	28	29	30

July 2018							
W	S	M	T	W	T	F	S
27	1	2	3	4	5	6	7
28	8	9	10	11	12	13	14
29	15	16	17	18	19	20	21
30	22	23	24	25	26	27	28
31	29	30	31				

August 2018							
W	S	M	T	W	T	F	S
31				1	2	3	4
32	5	6	7	8	9	10	11
33	12	13	14	15	16	17	18
34	19	20	21	22	23	24	25
35	26	27	28	29	30	31	

| | | | | | | | |

September 2018							
W	S	M	T	W	T	F	S
35							1
36	2	3	4	5	6	7	8
37	9	10	11	12	13	14	15
38	16	17	18	19	20	21	22
39	23	24	25	26	27	28	29
40	30						

October 2018							
W	S	M	T	W	T	F	S
40		1	2	3	4	5	6
41	7	8	9	10	11	12	13
42	14	15	16	17	18	19	20
43	21	22	23	24	25	26	27
44	28	29	30	31			

November 2018							
W	S	M	T	W	T	F	S
44					1	2	3
45	4	5	6	7	8	9	10
46	11	12	13	14	15	16	17
47	18	19	20	21	22	23	24
48	25	26	27	28	29	30	

December 2018							
W	S	M	T	W	T	F	S
48							1
49	2	3	4	5	6	7	8
50	9	10	11	12	13	14	15
51	16	17	18	19	20	21	22
52	23	24	25	26	27	28	29
	1	30	31				

www.blankcalendar2018.com

(See attached for additional information on 2018 meeting dates and events)

2018 MEETING DATES | EVENTS

DATE	ORGANIZATION	EVENT LOCATION
JANUARY		
1	SEAPA	HOLIDAY – New Year’s Day
2	Petersburg Borough Assembly Meeting*	Petersburg
4	Ketchikan City Council Meeting*	Ketchikan
9	City & Borough of Wrangell Assembly Meeting*	Wrangell
15	Petersburg Borough Assembly Meeting*	Petersburg
18	Ketchikan City Council Meeting*	Ketchikan
23	City & Borough of Wrangell Assembly Meeting*	Wrangell
30 – Feb 1	Alaska Power Association (APA)	Managers’ Mtg & Legislative Conf - Juneau
FEBRUARY		
1	Ketchikan City Council Meeting*	Ketchikan
5	Petersburg Borough Assembly Meeting*	Petersburg
8	SEAPA BOARD MEETING	Ketchikan
13	City & Borough of Wrangell Assembly Meeting*	Wrangell
13-14	Southeast Conference Mid-Session Summit	Juneau
15	Ketchikan City Council Meeting*	Ketchikan
19	SEAPA	HOLIDAY – Presidents’ Day
20	Petersburg Borough Assembly Meeting*	Petersburg
20-23	Northwest Hydroelectric Association (NWHHA)	Annual Conference & FERC Mtg. – Portland
27	City & Borough of Wrangell Assembly Meeting*	Wrangell
MARCH		
1	Ketchikan City Council Meeting*	Ketchikan
5	Petersburg Borough Assembly Meeting*	Petersburg
13	City & Borough of Wrangell Assembly Meeting*	Wrangell
15	Ketchikan City Council Meeting*	Ketchikan
19	Petersburg Borough Assembly Meeting*	Petersburg
27	City & Borough of Wrangell Assembly Meeting*	Wrangell
APRIL		
2	Petersburg Borough Assembly Meeting*	Petersburg
5	Ketchikan City Council Meeting*	Ketchikan
10	City & Borough of Wrangell Assembly Meeting*	Wrangell
16	Petersburg Borough Assembly Meeting*	Petersburg
17	SEAPA SPECIAL BOARD MEETING (Telephonic)	Ketchikan
19	Ketchikan City Council Meeting*	Ketchikan
23-27	NRECA CFPC Course (Unit 1)	Madison, Wisconsin
24	City & Borough of Wrangell Assembly Meeting*	Wrangell
30 – May 2	National Hydropower Association (NHA)	Annual Conference / Water Week – D.C.
MAY		
3	Ketchikan City Council Meeting*	Ketchikan
7	Petersburg Borough Assembly Meeting*	Petersburg
8	City & Borough of Wrangell Assembly Meeting*	Wrangell
14-16	Northwest Hydroelectric Association (NWHHA)	Strategic Planning Meeting – Seattle
17	Ketchikan City Council Meeting*	Ketchikan
20-23	Northwest Public Power Association (NWPPA)	Annual Meeting – Boise
21	Petersburg Borough Assembly Meeting*	Petersburg
22	City & Borough of Wrangell Assembly Meeting*	Wrangell
28	SEAPA	HOLIDAY – Memorial Day

JUNE		
4	Petersburg Borough Assembly Meeting*	Petersburg
5-7	APA Federal Legislative Conference	Washington, D.C.
7	Ketchikan City Council Meeting*	Ketchikan
12	City & Borough of Wrangell Assembly Meeting*	Wrangell
18	Petersburg Borough Assembly Meeting*	Petersburg
19-20	SEAPA BOARD MEETING	Wrangell
21	Ketchikan City Council Meeting*	Ketchikan
26	City & Borough of Wrangell Assembly Meeting	Wrangell
26-29	HydroVision International	Conference – Charlotte
JULY		
2	Petersburg Borough Assembly Meeting*	Petersburg
4	SEAPA	HOLIDAY – Independence Day
5	Ketchikan City Council Meeting*	Ketchikan
9-13	NRECA CFPC Course (Unit 2)	Dulles, Virginia
10	City & Borough of Wrangell Assembly Meeting*	Wrangell
16	Petersburg Borough Assembly Meeting*	Petersburg
16-19	AEGIS	Policyholders Conference – Chicago
19	Ketchikan City Council Meeting*	Ketchikan
24	City & Borough of Wrangell Assembly Meeting*	Wrangell
AUGUST		
2	Ketchikan City Council Meeting*	Ketchikan
6	Petersburg Borough Assembly Meeting*	Petersburg
14	City & Borough of Wrangell Assembly Meeting*	Wrangell
16	Ketchikan City Council Meeting*	Ketchikan
20	Petersburg Borough Assembly Meeting*	Petersburg
21-24	Alaska Power Association (APA)	Annual Meeting – Fairbanks
28	City & Borough of Wrangell Assembly Meeting*	Wrangell
SEPTEMBER		
3	SEAPA	HOLIDAY – Labor Day
4	Petersburg Borough Assembly Meeting*	Petersburg
6	Ketchikan City Council Meeting*	Ketchikan
11	National Hydropower Association (NHA)	Annual Meeting – Ketchikan
12-14	Southeast Conference	Annual Meeting – Ketchikan
11	City & Borough of Wrangell Assembly Meeting*	Wrangell
17	Petersburg Borough Assembly Meeting*	Petersburg
20	Ketchikan City Council Meeting*	Ketchikan
25	City & Borough of Wrangell Assembly Meeting*	Wrangell
27	SEAPA BOARD MEETING	Ketchikan
OCTOBER		
1	Petersburg Borough Assembly Meeting*	Petersburg
4	Ketchikan City Council Meeting*	Ketchikan
9	City & Borough of Wrangell Assembly Meeting*	Wrangell
11-12	APA Accounting & Finance Workshop	Anchorage
15	Petersburg Borough Assembly Meeting*	Petersburg
18	Ketchikan City Council Meeting*	Ketchikan
23	City & Borough of Wrangell Assembly Meeting*	Wrangell
?	SEAPA Annual Audit	Ketchikan

NOVEMBER		
1	Ketchikan City Council Meeting*	Ketchikan
5	Petersburg Borough Assembly Meeting*	Petersburg
12	SEAPA	HOLIDAY – Veterans’ Day - Observed
13	City & Borough of Wrangell Assembly Meeting*	Wrangell
15	Ketchikan City Council Meeting*	Ketchikan
19	Petersburg Borough Assembly Meeting*	Petersburg
22-23	SEAPA	HOLIDAY – Thanksgiving & Day After
27	City & Borough of Wrangell Assembly Meeting*	Wrangell
DECEMBER		
3	Petersburg Borough Assembly Meeting*	Petersburg
6	Ketchikan City Council Meeting*	Ketchikan
11	City & Borough of Wrangell Assembly Meeting*	Wrangell
12-13	APA December Meeting Series	Anchorage
12-13	SEAPA BOARD MEETING	Petersburg
17	Petersburg Borough Assembly Meeting*	Petersburg
20	City of Ketchikan Council Meeting*	Ketchikan
24-25	SEAPA	HOLIDAY – Christmas Eve & Christmas Day

*Please note that the Assembly and Council meetings noted on the calendar are estimated as a result of the schedule below.

- Petersburg Borough Assembly 1st & 3rd Monday every month
- City & Borough of Wrangell Assembly 2nd & 4th Tuesday every month
- Ketchikan City Council 1st & 3rd Thursday every month